### Mary B. Shekarchi Attorney at Law

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March 10, 2020

Ms. Luly Massaro, Clerk RI Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888

RE: Kent County Water Authority – Docket No. 5012

Dear Ms. Massaro:

Please find enclosed herewith an original and nine (9) copies of the Kent County Water Authority's Responses to the Division of Public Utilities Commission Second Set of Data Requests in Docket # 5012. An electronic copy has been provided to the service list. Should you have any questions, please contact me. Thank you.

Sincerely,

Mary B. Shekarchi Attorney at Law

MBS/mdc Enclosure

Cc: Docket 5012 Service List (via electronic mail)

STATE OF RHODE ISLAND
PUBLIC UTILITIES COMMISSION
DOCKET NO. 5012

Dated: March 10, 2020

Respectfully submitted,

Mary B. Shekarchi (#4767)

Attorney at Law

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Warwick, RI 02886 Tel. (401) 828-5030

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### **CERTIFICATION OF SERVICE**

I hereby certify on this 10th day of March, 2020, I sent a copy of the within to the Parties listed on the attached service list.

# Docket No. 5012 - Kent County Water Authority – Abbreviated Rate Filing Service List 2/11/2020

Name/Address	E-mail Address	Phone
Kent County Water Authority (KCWA) Mary B. Shekarchi, Esq. 33 College hill Rd., Suite 15-E Warwick, RI 02886	marybali@aol.com;	401-828-5030
David L. Simmons, P.E. Executive Director/Chief Engineer Kent County Water Authority 1072 Main St. West Warwick, RI 02893-0192	dsimmons@kentcountywater.org;	401-821-9300
David Bebyn, CPA B&E Consulting, LLC 21 Dryden Lane Providence, RI 02904	dbebyn@gmail.com;	
Division of Public Utilities & Carriers	Tparenteau@riag.ri.gov;	401-274-4400
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Jerome Mierzwa Layfayette Morgan	jmierzwa@exeterassociates.com;	
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Original & nine (9) copies file w/:	Luly.massaro@puc.ri.gov;	401-780-2107
Luly E. Massaro, Commission Clerk Public Utilities Commission	Cynthia.WilsonFrias@puc.ri.gov;	
89 Jefferson Blvd.	Margaret.hogan@puc.ri.gov;	
Warwick, RI 02888	Alan.nault@puc.ri.gov;	
	Sharon.ColbyCamara@puc.ri.gov;	
Kathleen Crawley Water Resources Board	Kathleen.crawley@wrb.ri.gov;	401-222-6696

### Docket No. 5012 Second Set of Data Requests

### Division of Public Utilities and Carriers February 18, 2020

2-1. Reference Mr. Simmons' testimony at page 4, lines 15 -17. Please provide a copy of any documents that explain the ongoing meter replacement program for all meters in the future. In your response, please provide the justification for the program, the annual cost of the program, the expected annual meter replacements by size and type, and identify any cost savings expected from the program.

### **RESPONSE:**

All documents and work papers attached. The program will save the rate payers an estimated \$128,144 annually via avoided 3<sup>rd</sup> party installation costs by an outside contractor. In the spirit of gradualism, KCWA is proposing a fixed AMR account be set up to handle all meter replacement on an ongoing basis to avoid the large upfront cost when trying to purchase and install all meters within a couple of years and contract out the installation to an outside contractor to meet an aggressive timeline. Under the current meter change out program, KCWA is maintaining approximately 3000 meters that are up to five years old and of the latest generation metering technology (Neptune R900i E-coder V4 or V4). KCWA would like to start changing the V4 meters using our own workforce starting in 2025 and then gradually roll up changing out meters to a maximum rate of 2150 per year until 2039. Starting in 2040, approximately 1375 meters or 5% per year could be installed continuously using KCWA staff which would then rotate on 20-year cycles. The anticipated schedule of installs is presented in the "Future Meter Change Out Programming Worksheet." The annual cost of the program is estimated at \$390,538 per year with an estimated collections total \$7,810,760 by 2039. The \$390,538 does not include interest that may accrue on the fixed account. The factoring of anticipated interest earnings to the programming cost is in answered in Div 2-4b. The cumulative rolling expenditure total by The anticipated roll out of installs is presented by age alone, but 2039 is \$7,810,815. installation based on cumulative use, electronic failures, damaged meters, and upgrades in metering technology will also play a factor when determining the timing of the actual installations. Future price reductions in ultrasonic metering technology will most likely justify early replacement of the meter size classes of 1.5-inch and 2-inch meters because

### Docket No. 5012 Second Set of Data Requests

### Division of Public Utilities and Carriers February 18, 2020

of the low flow accuracy of an ultrasonic meter compared to its positive displacement counterparts.

### KENT COUNTY WATER AUTHORITY **METER REPLACEMENT PROGRAM (MATERIAL COST ONLY)** 2020-2039 2.25% Inflationary Factor

	2020 <sup>1,2</sup>	<u>2021</u>	<u>2022</u>	<u>2023</u>		<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u> 2029</u>
\$	5,117,888	\$ 5,233,040	\$ 5,350,784	\$ 5,471,177	\$	5,594,278	\$ 5,720,149	\$ 5,848,853	\$ 5,980,452	\$ 6,115,012	\$ 6,252,600
	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>		<u>2034</u>	<u>2035</u>	<u> 2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>
Ś	6.393.283	\$ 6.537.132	\$ 6.684.218	\$ 6.834.612	Ś	6.988.391	\$ 7.145.630	\$ 7.306.407	\$ 7.470.801	\$ 7.638.894	\$ 7.810.769

Annual Contribution Over 20 Years

Total number of meters factored

390,538

27169

**Monthly Contribution** 

Average unit cost

287.49

32,545

<sup>1</sup> Bid material pricing as presented to KCWA from the awarded proposer (Neptune Technology Group) on January 18, 2019 for replacement of all 27,169 small meters

<sup>2</sup> Bid material pricing as presented to KCWA from Neptune Technology Group for replacement of all large and medium compound meters and their associated bypass meters and replacement value of 19 single register with a Neptune Truflow compound equivalent. Pricing and calculations performed using the Large Meter Change Out Program (LMCOP) data set as of 2-26-2020

# KENT COUNTY WATER AUTHORITY METER REPLACEMENT PROGRAM (MATERIAL COST ONLY)

2040-2059 2.25% Inflationary Factor

<u>2040</u>	<u>2041</u>		<u>2042</u>		<u>2043</u>		<u>2044</u>		<u>2045</u>		<u>2046</u>		<u>2047</u>		<u>2048</u>		<u>2049</u>
\$ 7,810,769	\$ 7,986,511	\$	8,166,208	\$	8,349,947	\$	8,537,821	\$	8,729,922	\$	8,926,346	\$	9,127,188	\$	9,332,550	\$	9,542,532
<u>2050</u>	<u> 2051</u>		<u>2052</u>		<u>2053</u>		<u>2054</u>		<u> 2055</u>		<u> 2056</u>		<u>2057</u>		<u> 2058</u>		<u> 2059</u>
\$ 9.757.239	\$ 9.976.777	\$ 3	10.201.255	Ś	10.430.783	Ś	10.665.476	Ś	10.905.449	Ś	11.150.821	Ś	11.401.715	Ś	11.658.253	Ś	11.920.564

**Annual Contribution Over 20 Years** 

Total number of meters factored

\$ 596,028

27169

**Monthly Contribution** 

Average unit cost

\$ 49,669

\$ 429.10

<sup>1</sup> Bid material pricing as presented to KCWA from the awarded proposer (Neptune Technology Group) on January 18, 2019 for replacement of all 27,169 small meters

<sup>2</sup> Bid material pricing as presented to KCWA from Neptune Technology Group for replacement of all large and medium compound meters and their associated bypass meters and replacement value of 19 single register with a Neptune Truflow compound equivalent. Pricing and calculations performed using the Large Meter Change Out Program (LMCOP) data set as of 2-26-2020

# KENT COUNTY WATER AUTHORITY METER REPLACEMENT PROGRAM (LABOR ONLY)

2020-2039 2.25% Inflationary Factor

2020 <sup>1,</sup>	<u>2021</u>	<u>2022</u>	<u>2023</u>	2024	<u> 2025</u>	<u> 2026</u>	<u>2027</u>	<u>2028</u>	2029
\$ 1,679,284	\$ 1,717,068	\$ 1,755,702	\$ 1,795,205	\$ 1,835,597	\$ 1,876,898	\$ 1,919,128	\$ 1,962,309	\$ 2,006,461	\$ 2,051,606
<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	<u>2034</u>	<u> 2035</u>	<u> 2036</u>	<u>2037</u>	<u> 2038</u>	<u>2039</u>
\$ 2,097,767	\$ 2,144,967	\$ 2,193,229	\$ 2,242,577	\$ 2,293,034	\$ 2,344,628	\$ 2,397,382	\$ 2,451,323	\$ 2,506,478	\$ 2,562,873

### **Annual Contribution Over 20 Years**

\$ 128,144

### **Monthly Contribution**

\$ 10,679

<sup>1</sup> Labor installation costs are based on the awarded bid pricing for the 2019 meter change out program for all small meters sized 2-inches and less

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Jan	\$	423,083.00	\$ 813,623.00 \$	1,204,163.00	\$ 1,594,703.00	\$ 1,985,243.00	\$ 2,276,598.95	\$ 2,397,760.82	\$ 2,569,808.42	\$ 2,657,621.45	\$ 2,152,917.59	\$ 1,925,354.09	1,697,790.59	1,470,227.09	\$ 1,242,663.59	\$ 1,015,100.09	\$ 787,536.59 \$	559,973.09 \$	332,409.59	\$ 104,846.09
Feb	\$	455,628.00	\$ 846,168.00 \$	1,236,708.00	\$ 1,627,248.00	\$ 2,017,788.00	\$ 2,309,143.95	\$ 2,430,305.82	\$ 2,602,353.42	\$ 2,690,166.45	\$ 2,185,462.59	\$ 1,957,899.09	1,730,335.59	1,502,772.09	\$ 1,275,208.59	\$ 1,047,645.09	\$ 820,081.59 \$	592,518.09 \$	364,954.59	\$ 137,391.09
Mar	\$	488,173.00	\$ 878,713.00 \$	1,269,253.00	\$ 1,659,793.00	\$ 2,050,333.00	\$ 2,341,688.95	\$ 2,462,850.82	\$ 2,634,898.42	\$ 2,722,711.45	\$ 2,218,007.59	\$ 1,990,444.09	1,762,880.59	1,535,317.09	\$ 1,307,753.59	\$ 1,080,190.09	\$ 852,626.59 \$	625,063.09 \$	397,499.59	\$ 169,936.09
Apr	\$	520,718.00	\$ 911,258.00 \$	1,301,798.00	\$ 1,692,338.00	\$ 2,082,878.00	\$ 2,374,233.95	\$ 2,495,395.82	\$ 2,667,443.42	\$ 2,755,256.45	\$ 2,250,552.59	\$ 2,022,989.09	1,795,425.59	1,567,862.09	\$ 1,340,298.59	\$ 1,112,735.09	\$ 885,171.59 \$	657,608.09	430,044.59	\$ 202,481.09
May	\$	553,263.00	\$ 943,803.00 \$	1,334,343.00	\$ 1,724,883.00	\$ 2,115,423.00	\$ 2,406,778.95	\$ 2,527,940.82	\$ 2,699,988.42	\$ 2,787,801.45	\$ 2,283,097.59	\$ 2,055,534.09	1,827,970.59	1,600,407.09	\$ 1,372,843.59	\$ 1,145,280.09 \$	\$ 917,716.59 \$	690,153.09 \$	462,589.59	\$ 235,026.09
Jun	\$ - \$	585,808.00	\$ 976,348.00 \$	1,366,888.00	\$ 1,757,428.00	\$ 2,147,968.00	\$ 2,439,323.95	\$ 2,560,485.82	\$ 2,732,533.42	\$ 2,820,346.45	\$ 2,315,642.59	\$ 2,088,079.09	1,860,515.59	1,632,952.09	\$ 1,405,388.59	\$ 1,177,825.09	\$ 950,261.59 \$	722,698.09 \$	495,134.59	\$ 267,571.09
Jul	\$ - \$	618,353.00	\$ 1,008,893.00 \$	1,399,433.00	\$ 1,789,973.00						. , ,	\$ 2,120,624.09		, ,	. , ,		\$ 982,806.59 \$	755,243.09 \$	527,679.59	\$ 300,116.09
Aug	\$ - \$	650,898.00	\$ 1,041,438.00 \$	1,431,978.00	\$ 1,822,518.00	\$ 2,213,058.00	\$ 2,504,413.95	\$ 2,625,575.82	\$ 2,797,623.42	\$ 2,885,436.45	\$ 2,380,732.59	\$ 2,153,169.09	1,925,605.59	1,698,042.09	\$ 1,470,478.59	\$ 1,242,915.09	\$ 1,015,351.59 \$	787,788.09	560,224.59	\$ 332,661.09
Sep			\$ 1,073,983.00 \$		\$ 1,855,063.00							\$ 2,185,714.09					\$ 1,047,896.59 \$	820,333.09 \$	592,769.59	\$ 365,206.09
Oct	\$ - \$	715,988.00	\$ 1,106,528.00 \$	1,497,068.00	\$ 1,887,608.00							\$ 2,218,259.09					\$ 1,080,441.59 \$	852,878.09 \$	625,314.59	\$ 397,751.09
Nov	\$ - \$	748,533.00	\$ 1,139,073.00 \$	1,529,613.00	\$ 1,920,153.00			· · · · · · · · · · · · · · · · · · ·				\$ 2,250,804.09		<u> </u>		· · · · · · · · · · · · · · · · · · ·	\$ 1,112,986.59 \$	885,423.09 \$	657,859.59	\$ 430,296.09
Dec	\$ 390,538.00 \$	781,078.00	\$ 1,171,618.00 \$	1,562,158.00	\$ 1,952,698.00	\$ 2,343,238.00	\$ 2,634,593.95	\$ 2,755,755.82	\$ 2,927,803.42	\$ 3,015,616.45	\$ 2,510,912.59	\$ 2,283,349.09	2,055,785.59	1,828,222.09	\$ 1,600,658.59	\$ 1,373,095.09	\$ 1,145,531.59 \$	917,968.09	690,404.59	\$ 462,841.09
Collections	\$ 390,538.00 \$	781,078.00	\$ 1,171,618.00 \$	1,562,158.00	\$ 1,952,698.00	\$ 2,343,238.00	\$ 2,634,593.95	\$ 2,755,755.82	\$ 2,927,803.42	\$ 3,015,616.45	\$ 2,510,912.59	\$ 2,283,349.09	2,055,785.59	1,828,222.09	\$ 1,600,658.59	\$ 1,373,095.09	\$ 1,145,531.59 \$	917,968.09 \$	690,404.59	\$ 462,841.09
Utilization	\$ - \$	-	\$ - \$	-	\$ -	\$ 99,184.05	\$ 269,378.13	\$ 218,492.40	\$ 302,726.97	\$ 895,243.86	\$ 618,103.50	\$ 618,103.50	618,103.50	618,103.50	\$ 618,103.50	\$ 618,103.50	\$ 618,103.50 \$	618,103.50 \$	618,103.50	\$ 462,858.90
Balance	\$ 390,538.00 \$	781,078.00	\$ 1,171,618.00 \$	1,562,158.00	\$ 1,952,698.00	\$ 2,244,053.95	\$ 2,365,215.82	\$ 2,537,263.42	\$ 2,625,076.45	\$ 2,120,372.59	\$ 1,892,809.09	\$ 1,665,245.59	1,437,682.09	1,210,118.59	\$ 982,555.09	\$ 754,991.59	\$ 527,428.09 \$	299,864.59 \$	72,301.09	\$ (17.81)

15 Series Meter Install Year (meters left in system during first round of installations)

			Market
	Monthly	Market	Yield
	Allocation	Yield	(monthly)
\$	32,545.00	0.00%	0.0000%
			•

Install Year	No. of installs
2015	345
2016	937
2017	7 760
2018	1053
2019	3114
2020 Projected	15435
6/30/2021	5525
Total	27169

	Funding Year	Restr	ricted Collection:	Cumulative
	6-30 to12/31/2020	\$	390,538.00	\$ 390,538.00
	2021	\$	390,538.00	\$ 781,076.00
	2022	\$	390,538.00	\$ 1,171,614.00
	2023	\$	390,538.00	\$ 1,562,152.00
	2024	\$	390,538.00	\$ 1,952,690.00
er wk	Annual funding need	sResti	ricted Collection	Cumulative
	\$ 99,184.05	\$	390.538.00	\$ 2,343,228.00

1 Otal	27103					2024	7	330,330.00	γ 1,332,030.00
Install Year Next									
Generation	No of installs	Install Year	Age	Installs per wk	Annı	ual funding needs	Rest	ricted Collection	Cumulative
2025	345	2015	10	7	\$	99,184.05	\$	390,538.00	\$ 2,343,228.00
2026	937	2016	10	18	\$	269,378.13	\$	390,538.00	\$ 2,733,766.00
2027	760	2017	10	15	\$	218,492.40	\$	390,538.00	\$ 3,124,304.00
2028	1053	2018	10	20	\$	302,726.97	\$	390,538.00	\$ 3,514,842.00
2029	3114	2019	10	60	\$	895,243.86	\$	390,538.00	\$ 3,905,380.00
2030	2150	2020	10	41	\$	618,103.50	\$	390,538.00	\$ 4,295,918.00
2031	2150	2020	11	41	\$	618,103.50	\$	390,538.00	\$ 4,686,456.00
2032	2150	2020	12	41	\$	618,103.50	\$	390,538.00	\$ 5,076,994.00
2033	2150	2020	13	41	\$	618,103.50	\$	390,538.00	\$ 5,467,532.00
2034	2150	2020	14	41	\$	618,103.50	\$	390,538.00	\$ 5,858,070.00
2035	2150	2020	15	41	\$	618,103.50	\$	390,538.00	\$ 6,248,608.00
2036	2150	2020	16	41	\$	618,103.50	\$	390,538.00	\$ 6,639,146.00
2037	2150	2021	16	41	\$	618,103.50	\$	390,538.00	\$ 7,029,684.00
2038	2150	2021	17	41	\$	618,103.50	\$	390,538.00	\$ 7,420,222.00
2039	1610	2021	18	31	\$	462,858.90	\$	390,538.00	\$ 7,810,760.00
TOTALS	27169				\$	7,810,815.81	\$	7,810,760.00	

	2020 202	1	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Jan	\$ 221,9	07.05 \$	606,802.03 \$	997,432.27	\$ 1,393,883.21	\$ 1,796,241.59	\$ 2,105,289.06	\$ 2,248,537.59 \$	2,444,869.14	\$ 2,559,787.73	\$ 2,083,171.03	\$ 1,876,934.53 \$	1,667,624.93	1,455,196.46	\$ 1,239,602.63	\$ 1,020,796.27 \$	798,729.53 \$	573,353.81 \$	344,619.81	\$ 112,477.49
Feb	\$ 253,7	54.64 \$	639,134.33 \$ 1,	,030,246.34	\$ 1,427,186.24	\$ 1,830,040.86	\$ 2,139,469.49	\$ 2,282,894.70 \$	2,479,468.38	\$ 2,594,528.70	\$ 2,117,324.18	\$ 1,910,833.32 \$	1,701,265.58	\$ 1,488,575.11	\$ 1,272,715.38	\$ 1,053,639.16 \$	831,298.53 \$	605,644.85 \$	376,628.75	\$ 144,200.12
Mar	\$ 285,6	51.52 \$	671,506.50 \$ 1,	.,063,100.88	\$ 1,460,530.34	\$ 1,863,881.82	\$ 2,173,692.07	\$ 2,317,294.17 \$	2,514,110.30	\$ 2,629,312.53	\$ 2,151,519.45	\$ 1,944,773.92 \$	1,734,947.71	\$ 1,521,994.92	\$ 1,305,868.96	\$ 1,086,522.55 \$	863,907.71 \$	637,975.72 \$	408,677.16	\$ 175,961.87
Apr	\$ 317,5	97.74 \$	703,918.60 \$ 1,	,095,995.95	\$ 1,493,915.57	\$ 1,897,764.51	\$ 2,207,956.86	\$ 2,351,736.07 \$	2,548,794.94	\$ 2,664,139.25	\$ 2,185,756.90	\$ 1,978,756.38 \$	1,768,671.38	\$ 1,555,455.95	\$ 1,339,063.44	\$ 1,119,446.50 \$	896,557.10 \$	670,346.46 \$	440,765.10	\$ 207,762.80
May	\$ 349,5	73.35 \$	736,370.67 \$ 1,	,128,931.58	\$ 1,527,341.97	\$ 1,931,688.99	\$ 2,242,263.91	\$ 2,386,220.45 \$	2,583,522.36	\$ 2,699,008.93	\$ 2,220,036.57	\$ 2,012,780.75 \$	1,802,436.65	1,588,958.25	\$ 1,372,298.86	\$ 1,152,411.06 \$	929,246.76 \$	702,757.13 \$	472,892.62	\$ 239,602.94
Jun	\$ - \$ 381,5	38.39 \$	768,862.76 \$ 1,	.,161,907.83	\$ 1,560,809.59	\$ 1,965,655.31	\$ 2,276,613.28	\$ 2,420,747.36 \$	2,618,292.61	\$ 2,733,921.61	\$ 2,254,358.52	\$ 2,046,847.08 \$	1,836,243.56	\$ 1,622,501.87	\$ 1,405,575.26	\$ 1,185,416.27 \$	961,976.73 \$	735,207.77 \$	505,059.76	\$ 271,482.36
Jul	\$ 31,583.91 \$ 413,6	12.93 \$	801,394.93 \$ 1,	,194,924.76	\$ 1,594,318.50			. , ,	, ,		. , ,	\$ 2,080,955.43 \$	, ,	·	. , ,		994,747.08 \$	767,698.43 \$	537,266.57	\$ 303,401.09
Aug	\$ 63,206.76 \$ 445,7	36.99 \$	833,967.23 \$ 1,	,227,982.41	\$ 1,627,868.73	\$ 2,033,713.68	\$ 2,345,439.15	\$ 2,489,928.99 \$	2,687,961.81	\$ 2,803,876.21	\$ 2,323,129.46	\$ 2,115,105.85 \$	1,903,982.52	\$ 1,689,713.28	\$ 1,472,251.25	\$ 1,251,548.87 \$	5 1,027,557.84 \$	800,229.16 \$	569,513.11	\$ 335,359.19
Sep	\$ 94,868.62 \$ 477,8	70.64 \$	866,579.69 \$ 1,	,261,080.82	. , ,	<u> </u>			, ,	· · · ·				, ,		\$ 1,284,676.35 \$	1,060,409.07 \$	832,800.02 \$	601,799.41	\$ 367,356.71
Oct	\$ 126,569.54 \$ 510,0		899,232.38 \$ 1,	, - ,	\$ 1,695,093.38							\$ 2,183,533.09 \$					1,093,300.81 \$	865,411.04 \$	634,125.54	\$ 399,393.69
Nov	\$ 158,309.54 \$ 542,2	56.88 \$	931,925.34 \$ 1,	.,327,400.17	\$ 1,728,767.90	<u> </u>						\$ 2,217,810.02 \$		· · · · · · · · · · · · · · · · · · ·		· · · · · ·	1,126,233.12 \$	898,062.29 \$	666,491.53	\$ 431,470.18
Dec	\$ 190,088.70 \$ 574,5	9.57 \$	964,658.62 \$ 1,	,360,621.20	\$ 1,762,483.95	\$ 2,170,334.78	\$ 2,483,600.94	\$ 2,628,804.92 \$	2,827,816.51	\$ 2,944,303.81	\$ 2,461,180.99	\$ 2,252,129.23 \$	2,039,962.43	\$ 1,824,634.17	\$ 1,606,097.34	\$ 1,384,304.14 \$	1,159,206.05 \$	930,753.80 \$	698,897.44	\$ 463,586.23
Collections	\$ 190,088.70 \$ 574,5	9.57 \$	964,658.62 \$ 1,	,360,621.20	\$ 1,762,483.95	\$ 2,170,334.78	\$ 2,483,600.94	\$ 2,628,804.92 \$	2,827,816.51	\$ 2,944,303.81	\$ 2,461,180.99	\$ 2,252,129.23 \$	2,039,962.43	1,824,634.17	\$ 1,606,097.34	\$ 1,384,304.14 \$	1,159,206.05 \$	930,753.80 \$	698,897.44	\$ 463,586.23
Utilization	\$ - \$	- \$	- \$	-	\$ -	\$ 99,184.05	\$ 269,378.13	\$ 218,492.40 \$	302,726.97	\$ 895,243.86	\$ 618,103.50	\$ 618,103.50 \$	618,103.50	618,103.50	\$ 618,103.50	\$ 618,103.50 \$	618,103.50 \$	618,103.50 \$	618,103.50	\$ 462,858.90
Balance	\$ 190,088.70 \$ 574,5	9.57 \$	964,658.62 \$ 1,	,360,621.20	\$ 1,762,483.95	\$ 2,071,150.73	\$ 2,214,222.81	\$ 2,410,312.52 \$	2,525,089.54	\$ 2,049,059.95	\$ 1,843,077.49	\$ 1,634,025.73 \$	1,421,858.93	\$ 1,206,530.67	\$ 987,993.84	\$ 766,200.64 \$	5 541,102.55 \$	312,650.30 \$	80,793.94	\$ 727.33

15 Series Meter Install Year (meters left in system during first round of installations)

		Market
Monthly	Market	Yield
Allocation	Yield	(monthly)
\$ 31,545.00	1.48%	0.1233%

Install Year	No. of installs
2015	345
2016	937
2017	760
2018	1053
2019	3114
2020 Projected	15435
6/30/2021	5525
Total	27169
Install Vasa Nisut	

Funding Year	Restr	ricted Collection:	Cumulative
6-30 to12/31/2020	\$	189,270.00	\$ 189,270.00
2021	\$	378,540.00	\$ 567,810.00
2022	\$	378,540.00	\$ 946,350.00
2023	\$	378,540.00	\$ 1,324,890.00
2024	\$	378,540.00	\$ 1,703,430.00

Total	27169					2024	Ş	378,540.00	\$ 1,703,430.00
Install Year Next			_	_		_		_	
Generation	No of installs	Install Year	Age	Installs per wk	Annu	ual funding needs	Restr	ricted Collection	Cumulative
2025	345	2015	10	7	\$	99,184.05	\$	378,540.00	\$ 2,081,970.00
2026	937	2016	10	18	\$	269,378.13	\$	378,540.00	\$ 2,460,510.00
2027	760	2017	10	15	\$	218,492.40	\$	378,540.00	\$ 2,839,050.00
2028	1053	2018	10	20	\$	302,726.97	\$	378,540.00	\$ 3,217,590.00
2029	3114	2019	10	60	\$	895,243.86	\$	378,540.00	\$ 3,596,130.00
2030	2150	2020	10	41	\$	618,103.50	\$	378,540.00	\$ 3,974,670.00
2031	2150	2020	11	41	\$	618,103.50	\$	378,540.00	\$ 4,353,210.00
2032	2150	2020	12	41	\$	618,103.50	\$	378,540.00	\$ 4,731,750.00
2033	2150	2020	13	41	\$	618,103.50	\$	378,540.00	\$ 5,110,290.00
2034	2150	2020	14	41	\$	618,103.50	\$	378,540.00	\$ 5,488,830.00
2035	2150	2020	15	41	\$	618,103.50	\$	378,540.00	\$ 5,867,370.00
2036	2150	2020	16	41	\$	618,103.50	\$	378,540.00	\$ 6,245,910.00
2037	2150	2021	16	41	\$	618,103.50	\$	378,540.00	\$ 6,624,450.00
2038	2150	2021	17	41	\$	618,103.50	\$	378,540.00	\$ 7,002,990.00
2039	1610	2021	18	31	\$	462,858.90	\$	378,540.00	\$ 7,381,530.00
TOTALS	27169				\$	7,810,815.81	\$	7,381,530.00	

Shortfall if account \$ (429,285.81)

earns no interest

### **Future Meter Change Out Programming Worksheet**

15 Series Meter Install Year (meters left in system during first round of installations)

mistanati	,	_						
Install Year	No. of installs	1						
2015	345	1						
2016	937	1						
2017	760	1				Funding Year	Restricted Collections	Cumulative
2018	1053	1			6/30/	/2020 to 12/31/2020	\$ 390,538.00	\$ 390,538.00
2019	3114	1				2021	\$ 390,538.00	\$ 781,076.00
2020 Projected	15435	1				2022	\$ 390,538.00	\$ 1,171,614.00
6/30/2021	5525	1				2023	\$ 390,538.00	\$ 1,562,152.00
Total	27169	l				2024	\$ 390,538.00	\$ 1,952,690.00
Install Year Next								
Generation	No of installs	Install Year	Age	Installs per wk	Ann	nual funding needs	Restricted Collections	Cumulative
2025	345	2015	10	7	\$	99,184.05	\$ 390,538.00	\$ 2,343,228.00
2026	937	2016	10	18	\$	269,378.13	\$ 390,538.00	\$ 2,733,766.00
2027	760	2017	10	15	\$	218,492.40	\$ 390,538.00	\$ 3,124,304.00
2028	1053	2018	10	20	\$	302,726.97	\$ 390,538.00	\$ 3,514,842.00
2029	3114	2019	10	60	\$	895,243.86	\$ 390,538.00	\$ 3,905,380.00
2030	2150	2020	10	41	\$	618,103.50	\$ 390,538.00	\$ 4,295,918.00
2031	2150	2020	11	41	\$	618,103.50	\$ 390,538.00	\$ 4,686,456.00
2032	2150	2020	12	41	\$	618,103.50	\$ 390,538.00	\$ 5,076,994.00
2033	2150	2020	13	41	\$	618,103.50	\$ 390,538.00	\$ 5,467,532.00
2034	2150	2020	14	41	\$	618,103.50	\$ 390,538.00	\$ 5,858,070.00
2035	2150	2020	15	41	\$	618,103.50	\$ 390,538.00	\$ 6,248,608.00
2036	2150	2020	16	41	\$	618,103.50	\$ 390,538.00	\$ 6,639,146.00
2037	2150	2021	16	41	\$	618,103.50	\$ 390,538.00	\$ 7,029,684.00
2038	2150	2021	17	41	\$	618,103.50	\$ 390,538.00	\$ 7,420,222.00
2039	1610	2021	18	31	\$	462,858.90	\$ 390,538.00	\$ 7,810,760.00

Future Change out starting in 2040 going to a 20 year cycle

27169

**TOTALS** 

	No of installs	Install Year	Age	Installs per wk	Annı	ial funding needs	
2040	1375	2025	15	26	\$	596,035.00	
2041	1375	2026	15	26	\$	596,035.00	
2042	1375	2027	15	26	\$	596,035.00	
2043	1375	2028	15	26	\$	596,035.00	
2044	1375	2029	15	26	\$	596,035.00	
2045	1375	2030	15	26	\$	596,035.00	
2046	1375	2031	15	26	\$	596,035.00	
2047	1375	2032	15	26	\$	596,035.00	
2048	1375	2033	15	26	\$	596,035.00	
2049	1375	2034	15	26	\$	596,035.00	
2050	1375	2035	15	26	\$	596,035.00	
2051	1375	2036	15	26	\$	596,035.00	
2052	1375	2037	15	26	\$	596,035.00	
2053	1375	2038	15	26	\$	596,035.00	
2054	1375	2039	15	26	\$	596,035.00	
2055	1375	2040	15	26	\$	596,035.00	
2056	1375	2041	15	26	\$	596,035.00	
2057	1375	2042	15	26	\$	596,035.00	
2058	1375	2043	15	26	\$	596,035.00	
2059	1375	2044	15	26	\$	596,035.00	

\$

7,810,815.81 \$

7,810,760.00

### KCWA: Docket 5012

### **New Fixed AMR account**

In the spirit of gradualism, KCWA is proposing a fixed AMR account be set up to handle all meter replacement on an ongoing basis to avoid the large upfront cost when trying to purchase and install all meters within a couple of years and contract out the installation to an outside contractor to meet an aggressive timeline. Under the current meter change out program, KCWA is maintaining approximately 3000 meters that are up to five years old and of the latest generation metering technology (Neptune R900 V4 or V4). KCWA would like to start changing the V4 meters using our own workforce starting in 2025 and then gradually roll up changing out meters to a maximum rate of 2150 per year until 2039. Starting in 2040, approximately 1375 meters or 5% per year could be installed continuously using KCWA staff which would then rotate on 20-year cycles.

- A. Present Replacement Value of Small Meters<sup>1</sup>: \$4,384,929
- B. Present Replacement Value of all single register large and medium meters UME and bypass meters<sup>2</sup>: \$732,959
- C. Total Present Replacement Value for All Meters (A+B): \$5,117,888
- D. Present Value Future Worth of Water Meters: Compounding at 2.25% inflation for 20 years is \$7,810,769
- E. Annual Funding Needs for Meter and UME replacement materials \$7,810,769/20 years = \$390,538 or \$32,545monthly<sup>3</sup>

<sup>&</sup>lt;sup>1</sup>Bid material pricing as presented to KCWA from the awarded proposer (Neptune Technology Group) on January 18, 2019 for replacement of all 27,169 small meters

<sup>&</sup>lt;sup>2</sup>Bid material pricing as presented to KCWA from Neptune Technology Group for replacement of all large and medium compound meters and their associated bypass meters and replacement value of 19 single register with a Neptune Truflow compound equivalent. Pricing and calculations performed using the Large Meter Change Out Program (LMCOP) data set as of 2-26-2020

<sup>&</sup>lt;sup>3</sup> This proposed funding level only applies to the material cost of purchasing the meters. The installation cost savings by using KCWA personnel is estimated at \$128,144.00 annually.

PROFESSIONAL WATER METER

VANGUARD UTILITY SERVICE

			VANGUARD U	VANGUARD UTILITY SERVICE	d	PMI	BAYSTATE	BAYSTATE-WINSUPPLY	WMS-THIELSCH	IIELSCH
A-1	WATER METER/REGISTER INSTALLATION	Estmated QTY	\$/unit	Total \$	\$/nuit	Total \$	\$/unit	Total \$	S/unit	Total \$
A-1,1	5/8 x 3/4-inch water meter with encoder register	22247	\$ 81,25 \$	1,807,568,75	\$ 72.00 \$	1,601,784.00	\$ 64.00 \$	1,423,808.00	\$ 52.00 \$	1,156,844.00
A-1.2	$5/8 \times 3/4$ -inch PIT water meter with encoder register	117	\$ 60.00 \$	7,020,00	\$ 00.09	7,020.00	\$ 114.00 \$	13,338.00	\$ 175.00 \$	20,475.00
A-1.3	5/8-inch straight water meter with encoder register		\$ 81,22 \$	4,791.98	\$ 00.09	3,540,00	\$ 64,00 \$	3,776,00	\$ 125.00 \$	7,375.00
A-1.4	3/4-inch water meter with encoder register	122	\$ 81.22 \$	9,908,84	\$ 72.00 \$	8,784.00	\$ 54.00 \$	6,588.00	\$ 55,00 \$	6,710.00
A-1.5	3/4-inch pit water meter with encoder register	4		240,00	\$ 72.00 \$	288.00	\$ 64,00 \$	256,00	\$ 75.00 \$	300,00
A-1.6	1-inch water meter with encoder register	3245		263,558,90	\$ 72.00 \$	233,640,00	\$ 64,00 \$	207,680,00	\$ 75.00 \$	243,375.00
A-1.7	1-inch pit water meter with encoder register	373	\$ 00.09 \$	22,380,00	\$ 00.99	24,618,00	\$ 114.00 \$	42,522.00	\$ 185,00 \$	00"500'69
A-1.8	1-1/2 inch water meter with encoder register	92		11,780.00	\$ 216.00 \$	16,416.00	\$ 120.00 \$	9,120,00	\$ 150,00 \$	11,400.00
A-1.9	1-1/2 inch pit water meter with encoder register	49		20,825.00	\$ 250.00 \$	12,250.00	\$ 170.00 \$	8,330,00	\$ 275.00 \$	13,475.00
A-1,10	1-1/2 inch flanged pit water meter with encoder register	125	\$ 225,00 \$	28,125.00	\$ 250,00 \$	31,250,00	\$ 195,00 \$	24,375,00	\$ 00,000 \$	37,500.00
A-1,11	2-inch water meter with encoder register	148	\$ 210,00 \$	31,080.00	\$ 216,00 \$	31,968,00	\$ 120,00 \$	17,760,00	\$ 150.00 \$	22,200.00
A-1,12	2-inch pit water meter with encoder register	83	\$ 425.00 \$	35,275,00	\$ 250.00 \$	20,750,00	\$ 170.00 \$	14,110,00	\$ 275.00 \$	22,825.00
A-1,13	2-inch flanged pit water meter with encoder register	226	\$ 255.00 \$	57,630.00	\$ 250,00 \$	26,500,00	\$ 195.00 \$	44,070.00	\$ 300.00 \$	67,800.00
	TOTAL A-1	26874	\$ 2	2,300,183.47	\$ 2,	2,048,808.00	\$	1,815,733.00	\$ 1,67	1,679,284.00
A-2	ENDPOINT INSTALLATION	Estmated QTY	\$/unit	Total \$	\$/unit	Total \$	\$/unit	Total \$	\$/unit	Total \$
A-2,1	RF Endpoints/Transmitters for large meters (>2 inch)	294	\$ 75,00 \$	22,050,00	\$ 00'9E \$	10,584.00	\$ 45,00 \$	13,230,00	5 75.00 \$	22,050.00
A-2.2	RF Endpoints/Transmitters for large meter bypass meters	272	\$ 35.00 \$	9,520,00	\$ 21,00 \$	5,712.00	\$ 35,00 \$	9,520,00	\$ 75.00 \$	20,400.00
	TOTAL A-2	299	\$	31,570.00	\$	16,296.00	\$	22,750.00		42,450.00
	TOTAL A1 THROUGH A-2		\$ 2	2,331,753.47	\$ 2,	2,065,104.00	\$	1,838,483.00	\$ 1,72	1,721,734.00
A-3	ESTIMATED METER SALVAGE VALUE PER PROPOSER *	Estmated QTY	\$/unit	Total \$	\$/unit	Total \$	\$/unit	Total \$	S/unit	Total \$
A-3,1	5/8 x 3/4-inch water meter with encoder register	22359	\$ (1.25) \$	(27,948.75)	\$ (00.1) \$	(22,359.00)	\$ (0.50) \$	(11,179.50)	\$ (0.10) \$	(2,235,90)
A-3.2	5/8 -inch straight water meter with encoder register	65	\$ (1.25) \$	(73.75)	\$ (00.1) \$	(28,00)	\$ (0.50) \$	(29.50)	\$ (0.10) \$	(08'5)
A-3,3	3/4-inch water meter with encoder register	126		(157.50)	\$ (1.50) \$	(00,681)	\$ (0.75) \$	(94,50)	\$ (0.10) \$	(12.60)
A-3.4	1-inch water meter with encoder register	3618		(4,522.50)	\$ (00'E)	(10,854.00)	\$ (1,00) \$	(3,618,00)	\$ (0.10) \$	(361.80)
A-3.5	1-1/2 inch water meter with encoder register 2 inch water meter with encoder register	250	\$ (3.00) \$	(750.00)	\$ (10,00) \$	(2,500.00)	\$ (2.00) \$	(500,00)	\$ (0.10) \$	(25.00)
			a footi		l	Topico viol	c fonct	(17333:00)	e (orro) e	(43.10)
	TOTAL A-3		\$	(35,256.50)	s	(42,726.00)	\$	(16,774.50)	) \$	(2,686.30)

TOTAL PROPOSAL PRICE A1 through A2 minus A3	\$ 2,296,496.97	\$ 2,022,378.00	\$ 00.8	1,821,708.50 \$	1,719,047.70
Average Cost Per Meter Install	\$ 84.28	\$ 7	74.65 \$	66.94	\$ 62.39
Average Cost Per Endpoint Install	\$ 55.78	\$ 2	28.79   \$	40.19	\$ 75.00

"Salvage meters shall be removed, stored and process for disposal destroyed at a metal recycling facility by the proposer. Monies received from the recycling facility shall be documented on a payment slips shall be provided to KCWA. The amounts shown on these slips will be substanced from the recycling facility by the proposer. Monies received from the rest shall be substanced from the rest of salvage meter removal, storing and processing as this is considered as work accomplished in conjunction to installation of the new meters. A running monthly tally of monies received from salvaged meters shall be maintained, totalized and provided to KCWA at regular intervals and a final report provided at the end of the installation.

# ESTIMATED PROJECT COST FOR WATER METERS AND ENDPOINTS PURCHASE INSTALLATION AND INTEGRATION

				SHUTTERN			Г			
				101 1711						
Water Meters and Registers	Estmated QTV	\$/unk	\$/unit	\$/unit	\$/umft	Total \$	Total	number	New RF	New RF Saulogs
5/8 x 3/4-inch water meter with encoder register and external RFR900 MIU	16621	\$ 70.50		\$ 67.50	L	\$ 2,293,698.00	L			
5/8 x 3/4-inch PIT water meter with encoder register and external RFR900 MIU	37		\$ 78.00	\$ 67.50	0	\$ 5,383.50	20			
5/8 x 3/4-inch fully integrated R900j	3481		8		\$ 159.08	\$	22380	Good	2241	356.498.28
5/8-inch straight water meter with encoder register and external RFR900 MIU	0	\$ 70,50		\$ 67.50	0	· ·				
5/8-inch straight PJT water meter with encoder register and external RFR900 MIU	0		\$ 78,00	\$ 67.50	0	v				
5/8-inch straight fully integrated RS00i	57				\$ 159,08	\$ 3,817.92	92 62	Good	38	\$ 6.045.04
3/4-inch water meter with encoder register and external RFR900 MIU	85	\$ 99,75		\$ 67.50		\$ 14,216.25	25			
3/4-inch PIT water meter with encoder register and external RFR900 MIU	m		\$ 107,25	\$ 81.00	0	\$ 564.75	75			
3/4-inch fully integrated R900i	36			8	\$ 174.75	\$ 6,291.00	200	Good	20	3,495.DD
1-inch water meter with encoder register and external RFR900 MIU	2536	\$ 140,25		\$ 67.50	0	\$ 526,854.00	8			
1-inch PIT water meter with encoder register and external RFR900 MIU	210		\$ 147,75	\$ 67.50	0	\$ 45,202.50	20			
1-inch fully integrated R900i	710		(		\$ 215.25	S	3710	Good	254	\$ 54,673.50
1-1/2 inch water meter with encoder register and external RFR900 MIU	177	\$ 297.00		\$ 67,50		\$ 64,516,50	20			
1-1/2 inch PIT water meter with encoder register and external RFR900 MIU	38		\$ 304,50	\$ 67,50		\$ 14,136,00	8			
1-1/2 inch fully integrated R900i	119				\$ 372.00	\$ 44,268.00	348	Good	14	\$ 5,208.00
2 inch water meter with encoder register and external RFR900 MIU	269	\$ 371,25		\$ 67,50	0	\$ 118,023,75	75			
2 inch PIT water meter with encoder register and external RFR900 MIU	48		\$ 404,00	\$ 67,50	0	\$ 22,632,00	8			
2 inch fully integrated R900i	188				\$ 446,25	\$ 83,895,00	20 525	Good	20	\$ 8,925.00
TOTAL 5/8"through 2"	24582	\$				3,950,084.15	27169		2587	\$ 434,844.82
Automatic Meter Reading Endpoints and MIU transmitters	Estmafed QTY	\$/unk				Total \$	Total	number	New RF	New RF Savings
RF Endpoints/Transmitters for large meters (>2 Inch)	111	00 TB \$	\$ 81,00		\$ 81.00	s	294		183	3 \$ 14,823.00
RF Endpoints/Transmitters for large meter bypass meters	111	\$ 81.00	\$ 81.00		\$ 81,00	\$ 8,991,00	4		161	13,041.00
TOTAL MIU Endpoints for large and bypass meters	222	\$				17,982.00	995 (		344	\$ 27,864.00
TOTAL OVERALL						\$ 3,968,066.15	[			

	S/unit	Total \$
S/8 x 3/4-inch water meter with entoder register.	52.00 \$	1,045,304.00
5/8 x 3/4-inch PIT water meter with encoder register	175.00 \$	6,475,00
5/4-inch straight water meter with encoder register 24 \$ 3	125.00 \$	3,000,00
3/4-inch water meter with encoder register	\$5.00.55	6,655.00
3/4-inch pit water meter with encoder register	75.00 \$	225 00
1-inch water meter with encoder register	75.00 \$	243,450,00
1-inch pit water meter with encoder register \$10	185.00 \$	38,850,00
1-1/2 inch water meter with encoder register	150.00 \$	44,400.00
1-1/2 inch pit water meter with encoder register	275.00 \$	10,450.00
2-inch water meter with encoder register 457 \$ 1	150.00 \$	68,550,00
2-inch pit water meter with encoder register 48 \$ 2	275.00 \$	13,200,00
Large Meter Radio only installations	75.00 \$	16,650,00
TOTAL 24804 \$	1,49	1,494,728.60

1,721,734.00 227,005.40

\$ 5,462,794.75  TOTAL ESTIMATED SAVINGS	TOTAL ESTIMATED COST WITHOUT SAVINGS \$ 6,178,308.97
--	--

QUANTITY OF METERS NOT REQUIRING PURCHASE OR INSTALLATION		2587
TOTAL SAVING ON METERS NOT REQUIRING PURCHASE	4	434,844.82
TOTAL SAVING ON METERS NOT REQUIRING INSTALLATION	∽	227,005.40
TOTAL SAVING ON ENDPOINTS NOT REQUIRING INSTALLATION	•5•	25,800.00
TOTAL SAVING ON large METERS NOT REQUIRING RF	s	27,864.00
TOTAL SAVINGS	❖	715,514.22

715,514.22	❖	TOTAL SAVINGS
27,864.00	s	TOTAL SAVING ON large METERS NOT REQUIRING RF
25,800.00	••	TOTAL SAVING ON ENDPOINTS NOT REQUIRING INSTALLATION
227,005.40	ψ,	TOTAL SAVING ON METERS NOT REQUIRING INSTALLATION
434,844.82	₩.	TOTAL SAVING ON METERS NOT REQUIRING PURCHASE
2587		QUANTITY OF METERS NOT REQUIRING PURCHASE OR INSTALLATION

SITE SURVEY	\$ 175.00		175.00	\$ 175.00	\$ 175.00	175.00		00000	S 175.00	\$ 175.00	\$ 175.00	375.00	175.00	00 361	(A) (C)	175.00	175.00	175.00	175.00	00 911	9 6	000571	\$ 175.00	175.00	\$ 175.00	175.00	00 241	00 221		0000	175.00	\$ 175.00	3 175.00	175.00	175.00		175.00	175.00	00521	00 521	4	175.00
	700.00		300 00	300.00		300.00	300 00	300 00	000000			185,00					300.00	-					300.00		00 009	300.00						300.00		300,00			185.00	00.009		185.00		185.00
BYPASS 1	8 9	\$ 215.25 \$	\$ 446.25 \$	404 00		446.25 \$	446.25	\$ 446.25	9			215.25 \$	372,00 \$	•	372.00 \$	174.75	446.25		446,25 \$			372.00 \$	372.00	*	8	446.25 \$	372.00 \$	446.25 \$	446.25	446.25	372.00 \$	446.25 \$		446.25 \$		446.25 \$	215.25 \$	5		215.25 \$	215.25	215.25 \$
METER UME COST	1,764,00	-	1,239,000	2,289,00	2.814.00	2.814 00	8		7.789.00			3 1239.00	\$ 1.764.00		49	3,754.00	1,239.00	2,289.00	2,289,00			59	1,764.00	1,764.00		2 289 00	3 1764 00	\$ 2880.00	69	\$ 00,6977	2 289 00	1,764.00	2,289.00	2,289.00		59	\$ 7,289,00	1,239.00		1,239.00	\$ 00,000.1	1,239 UU
UME & BYPASS M	1,764.00 \$	215.25	446.25	2 289 00 \$	2.814.00	446.25	446.25	446.25	404.00	2 814 00	1 239 00	215.25	372.00	446.25	372.00	174.75	1,239.00 \$	2,289.00 \$	446.25	372 00	446.25	372.00	372.00	1,764.00 \$	1,239.00	446.25	372.00	446.25	446.25	446.25	372.00	1,764.00 \$	2.289.00 \$	446.25	372.00	446.25	215.25	1,239.00 \$	976.50	215.25	215.25	215.25
MITTER TESTING	\$ 00,009	\$ 00000	9 89	\$ 00,000	\$ 00.009	\$ 00.009	\$ 00,000	-	-	\$ 000009	\$ 00.009	\$ 00.009	\$ 00,000	-	-	-	\$ 00.000	\$ 00 009	\$ 00.009	× 9	1000	+	\$ 00.009	\$ 00,009	\$ 00.009	\$ 00.009	-	-	1	-	-	\$ 00.009	\$ 00.009	\$ 00.009	\$ 00.009		1	\$ 00,000	\$ 00.009	\$ 00.009		-
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Y	51922042A 17090978	70174220A	A10910107	70109101 70199975A	70100075	70200668A 70200668	70227980A	70248253A	70345276A	70345276 70118647A	70118647	70266924A 70266924	70257381A 70257381	70363172A		A99812107	70121899 70239468A	70239468	70006788A 70006788	70357309A	70345382A		70027808 70294446A	70294446	70345408	70234033A 70234033		70200667A	70129897A	70144371A		70035427 70140287A	70,140287	70100744A 70100744		70170043A	V11586007	70093511 70144799A	70144799	70152919A 70152919	70135743A	V95666107
-	114442	1810358352	1850695517	116586	1810013892	1830134517	1830636112	1832173666	1546655404	1542656274	1541745338	1834400330	1832342856	1550438116	1461402975	116622	116621	1831445946	115650	1549197242	1546679530	206552	4	1852417680	1546678430	1830635910			116734	116763	15951	162911	_	116585			L	116500	1543725664	1460424053		I.
POTENTIAL DATE OF THE DESTRUCTION OF THE DESTRUCTIO	COUNTYOUND METER ASSECTION	MEDIA CINIDOMNO.	NET THE COLOR	COMPOUND METER	COMPOUND METER	COMPOUND METER	WHEN CIVIDAMOS	CYNAMONIA MICHEL	No. of the Control of	COMPOUNDMETER	COMPOUND MITTER	COMPOUND METER	COMPOUND METER	COMPOLIND METERS	CONTRACTOR MAINTER	NET THAT CINDON BAILON	COMPOUND METER	COMPOUND METER	COMPOUNDMETER	COMPOUND METER	SIELEM CIVI DAMOD	No. of the control of	COMPOUND METER	COMPOUND METER	COMPOUNDMETER	COMPOUND METER	COMPOUND METER	COMPOUND MEITER	OF WALL OF STATE OF S	Notice of the state of the stat	CAMERICAN METERS	COMPOUND METER	COMPOUND METER	COMPOUND METER	COMPOUND MITTER	CONDONING MAISTED	NEURING CENTRAL SERVICES	COMPOUND METER	COMPOUND METER	COMPOUND METER	COMPOUND METER	COMMITTEE CONTRACTOR
MISTER TYPE	TRUFTO	BYPASS	BYPASS	BYPASS	PROIII	PROIII	BYPASS	BYPASS	BYPASS	BYPASS	PROIII	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	PROLLI	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	PROIII	TRUTTO	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	PROIII	PROIII	PROUL	BYPASS	BYPASS	BYPASS	PROIII	TRUBLO	BYPASS	BYPASS	DVDASC
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	592 ARNOLD RD	184 BOSTON ST 184 BOSTON ST	CENTRE OF N E BLVD	CENTRE OF N E BLVD	CENTRE OF NEBLYD	CENTRE OF N E BLVD CENTRE OF N E BLVD	22 COVENTRY SHOPPIRS PK 22 COVENTRY SHOPPIRS PK		1650 FLAT RIVER RD	15 FOSTER DR	IS FOSTIER DR	9 HOWARD AVE	8 INDUSTRIAL DR	II INDUSTRIAL DR	6 JEFFERSON DR		LAUREL AVE	**	IA LIENA ROSE WAY  IA LIENA ROSE WAY	191 MACARTHUR BLVD	535 MAIN ST 535 MAIN ST	546 MAIN ST	546 MAIN ST 618 MAIN ST	618 MAIN ST 1320 MAIN ST	(320 MAIN ST	14 MANCHESTER CIR. 14 MANCHESTER CIR.	30 MULIEARN DR 30 MULIEARN DR	2300 NEW LONDON FPRE	1740 NOOSENECK HILL RD			2155 NOOSENECK HILL RD NORTHUP RD	NCM THEIR RID	801 READ SCHOOL HOUSE RD	READ SCHOOL HOUSE RD READ SCHOOL HOUSE RD	16 RESERVOIR RD	40 RESERVOIR RD	40 RESERVOIR RD 53 RESERVOIR RD	53 RENERVOIR RD	17 SANDY BOTTOM RD GANDY BOTTOM RD	341 SO MAIN ST	
CUSTOMER NAME	CAL CHEMICAL CURP	CLUBJOQUES CLUBJOQUES	BUFFALO LODGING ASSOCIATES	COMMISCE PARK MANAGEMENT LLC	COMMERCE PARK MANAGEMENT LLC	COMMERCE PARK MANAGEMENT LLC COMMERCE PARK MGMTLLC	SOSCIA ENTERPRISES SOSCIA ENTERPRISES	COVENTRY MEADOWS	REBUILDERS AUTO SUPPLY	COVENTRY PUBLIC SCHOOLS	COVENTRY PUBLIC SCHOOLS	HOWARD AVENUE REALTY HOWARD AVENUE REALTY	BOSTON SCIENTIFIC BOSTON SCIENTIFIC	SFASIDE CASUAL SFASIDE CASUAL	GILLESPIE COURT'LLC	COVENTRY CROSSROADS APTS	CONCORDIA	CONCORDIA	HOMETOWN WESTWOOD LLC	CCAP CCAP	ARKWRIGHT ADVANCED COATING INC	RIVERVIEW NURSING HOME	RIVERVIEW NURSING HOMES FIARRIS MILL LOFTS	ILARRIS MILL LOFTS REVER EDGE CONDOMINUM	RIVER EIXE CONDOMINIUM	COVENITY HOUSING AUTHORITY COVENITY HOUSING AUTHORITY	COVENTRY HOUSING AUTHORITY COVENTRY HOUSING AUTHORITY	COLE MT COVENTRY RELLC	LEISURE CONDOMINIUM ASSOC	COVENTRY LUMBER INC	MAPLE ROOT CORP	MAPLE ROOT CORP LIAWK CREST HOMEOWNER'S ASSOC	HAWK CREST HOMIOWNERS ASSIC	COVENTRY PUBLIC SCHOOLS	FIRITIOSTONE WILLIA FIRITIOSTONE WRITA	CARRIAGE HOUSE DEVILLO	COVENTRY PUBLIC SCHOOLS	COVENTRY PUBLIC SCHOOLS BAIRD PROPERTIES LLC	BAIRD PROPERTHESTILC	SERGE BOUYSSOU SERGE BOUYSSON	STJOHN & PAUL RECTORY	ST JOHN & PAUL RECTORY
ACCT#	314442	116861		7 116943	116942	9 116988 10 116987	11 117032		15 117339	17 116609	18 106903	20 207166	117077	23 117402	238   16865	116622	29 117066	30 117065	31 115650 32 115651	117394	35 207209	37, 206552	206551	207177	117351	117056	976711	116955	116734	116763	115951	16791	116790	116584	115893	116863	116501	116500	116339	116793	116692	116077

117221	JOHN STOURNARAS JOHN STOURNARAS	446 TIOGUE AVI:	02816	PROIII	COMPOUND METER	1852775816	70301480 70301480	e Ge	09	\$ 00.009	1 239 00 8	1 239 00	\$ 215,25	\$ 22	00 581	00 321
187911	DRAGON VENTURES LLC DRAGON VENTURES LLC	577 TIOGUE AVE 577 TIOGUE AVE	02816	BYPASS	COMPOUND MITTIE	1460054317	70152920A	- 4	9	_	_		\$ 215,25	\$ 6	185 00	0 31
116441	CIRISTY'S LIQUORS		02816	BYPASS	William Branch Market	1460158124	70079083A	117	9	9 69	372.00	0.000	\$ 372,00	-	300 00	175.00
117076	ARNOLD KAUFMAN	760 TIOGUE AVE	02816	BYPASS	COMPOUND METER	1832536480	70256846A	1.1/2		\$ 000000	372.00	1,764,00	\$ 372.00	-	300.00	175.00
113587	ARNOLD KALIFMAN INGIE INSIGITI SERVICES INC	763 TIOGUE AVE	02816	PROUL	COMPOUND METER	1820654670	70256846 70231535A	11/2	3	\$ 00.000	372.00	1,764,00	\$ 372.00	95 95 95	300 00	175.00
117020	ENGLE INSIGER SERVICES INC	763 TIOGUE AVE	02816	PROIII	COMPOUND MEITER	1820654657	70231535	9	\$ 60	\$ 00 009	1,764 00 \$	1,764,00		-	\$ 00 008	175.00
115342	STOP & SHOP STORE-SITE 0720560	900 TTOGUE AVE	02816	TRUELO	COMPOUND MITTIER	1546297402	3196027 3196027A	3/4	09 \$	\$ 90.000	372.00					175.00
115337	STOP & SHOP STORE-SITE 0720560 STOP & SHOP STORE-SITE 0720560	900 TIOGUE AVE 900 TIOGUE AVE	02816	BYPASS	COMPOUND METER	1461010242	31962731A 31962731	64 00	9	\$ 00.00	446.25	2 289 00	\$ 446.2	25 \$	300.00	175.00
110981	GLENWOOD PARK	978 TIOGUE AVE	02816	BYPASS	COMPOUND METER	1543079442	31918077	1 1/2	9	\$ 00,000	372,00					2000
115603	ENGIE INSIGIT SERVICES INC	1173 TIOGUE AVE	02816	BYPASS	detribaction formore	1544552218	31988583A	6 13		96 N	446.25	000			9 9	OG STATE
117183	PRIME COVENTRY LLC	1185 TIOGUE AVE	02816	BYPASS	ACTUAL OLIVING MATTER	1852875140	70301483A	1112		\$ 000000	372.00	00.6877	\$ 372.0	n s 1	300.00	00.571
696911	ENGLE INSIGITY SERVICES INC	875 TIOGUE AVE (#11128)	02816	BYPASS	COME COUNT METERS	1562484768	70371147A	1172		S S	372.00	The Decision		-	N N N N N N N N N N N N N N N N N N N	175.00
117315	RHODES TECHNOLOGIES	498 WASHINGTON ST	02816	BYPASS	COMPOND METER	1545942402	70340940A	5 6		\$ 8	1,764,00				64 S	175.00
117116	BRADY*SULIVAN PROPERTES	624 WASHINGTON ST	02816	BYPASS	COMPOUND METER	1834771239	70340940 70027626A	J 2		ss ss	2.814.00		\$ 446.25	S	300.00	175.00
117027	BRADY*SULLIVAN PROPERTIES PF EAGLE/ DBA PLANET FITNESS	780 WASHINGTON ST	02816	BYPASS	COMPOUND METER	1834690374	70232945A	2 2	9	\$ 00,000	2.289.00 \$	2,289,00	\$ 446.25	s s	300.00	175.00
117026	PF EAGLE/DBA PLANET FITNESS MICHAEL BANE	780 WASHINGTON ST WINDSOR PARK DR	02816	BYPASS	COMPOUND METER	1549801596	70232945 FILIU3	3/4	09	\$ 00.009	372.00 372.00	2 289 00			\$ 00,0001	175.00
116886	MICHAEL BANE HALLKEEN MANAGEMENT INC		02816	BYPASS	COMPOUND METER	1850060746	70174067A	3/4		-	1764.00		\$ 174,75	69 50	-	175.00
117256	CEDAR RIDGE CONDO ASSOCIATION	CEDAR LANE DR	02817	IYPASS	COMPOUND METER	1540778436	70310767A	er ce :		-	1239.00 5	1,239,00		69	00.000	175.00
114789	CONNEAUTINDUSTRIES INC	89 HOPKINS HILL RD	02817	BYPASS	COMMENSATION OF THE REAL	1543421524	70327821	2 61 6		8 000000	446.25					175.00
116825		HI HOPKINS HILL RD	02817	BYPASS	ABILIAM CININAMADO	1460152581	70158236A	c ~  34	9 9	9 99 90	446.25	0000	\$ 446,25	8 6	300,000	0000
117083	CENTREX DISTRIBUTORS INC	119 HOPKINS HILL RD	02817	BYPASS	CONADON INID METER	1834192237	70263342A	n 9		-	44625	00,100	\$ 446,25	9 69 6	300,000	
116857	MISHNOCK BARN MISHNIKK BARN	200 MISHNOCK RD 200 MISHNOCK RD	02817	BYPASS	COMPOUND METER	1810385318	70175945A	- 4	09		215.25	1 239 00	\$ 215,25	4 8 9	185.00	175.00
114848	EXIT SIX PLAZA LI C	45 NOOSENECK HILL RD	02817	BYPASS	COMPOUNDMETER	95 - 1 97	31929092	11/2	09	173	372.00	1764.00	\$ 372,00	8 9	300 00	200
114266	GREENWICH WEST PARK	54 NOOSENECK HILL RD	02817	BYPASS	COMPUNITED	1831644555	70244732A	7/1	000	1	372.00	00 177.1	\$ 372,00	9 6	300.00	0000
115215	IK GOODWIN COMPANY INC		02817	BYPASS	CYNADYN IND MAICHED	115215	31951491	2/1 1	, S	9 90 90	372.00	00 #gy T	\$ 372.00	4 69 6	300.00	0057
1.15755	AMGEN INC	40 TECHNOLOGY WAY	02817	BYPASS	COMPOUND METER	1440340818	12345 12345A	3/4	009	\$ 200,000	174.75	1 239 00	\$ 174.75	S S S	75 00	14.8
116458	AMGEN INC AMGEN INC	40 HICHNOLOGY WAY	02817	BYPASS	COMPOUND METER	1440275830	70082617A 70082617	1 1/2	009	\$ 00 00	372.00	1.764.00	\$ 372.00	59 9	300.00	175.00
116425	AMGEN INC	40 TECHNOLOGY WAY	02817	BYPASS	COMPOUND METHIR	1460198986	70082616A 70082616	11/2	009	\$ 90 009	372.00	1.764.00	\$ 372.00	99 W	300.00	175.00
115757	AMGEN INC	40 TECHNOLOGY WAY 40 TECHNOLOGY WAY	02817	BYPASS	COMPOUND METER	1850469496	6789	F1 98	009	_	446.25	2.289.00	\$ 446.25	. w e	300.00	175.00
116839	IGT GLOBAL SOLUTIONS CORP	47 DECEMBER WAY	02817	BYPASS	COMPOUND METER	1810365862	A17427107	1.172		\$ 00.009	372.00	1.764.00	\$ 372,00		300.00	175.00
114776		Sal TECHNOLOGY WAY	02817	BYPASS	COMPONING METER	1820218160	31916818	ri o		<b>9 9</b>	446.25	00 001 0	\$ 446.25	s 6	300.00	25
115322	WG TECH ICONDYNE LLC	SS TECHNOLOGY WAY	02817	BYPASS	CONDUCTOR OF CONTRACTOR OF CON	1830384038	31959324		200	60 6	446.25	00000	\$ 446.25	n vo 6	300.00	0 0
117427	COVENTRY POLICE STATION	TELESTICATION 09	02816	BYPASS	dentity of the order	1563419244	70374650A	6 77 0		s s	446.25			0	00'0	On CVI
312420	BRIGGS DRIVE ASSOC LLC BRIGGS DRIVE ASSOC LLC	TO BRIGGS DR	02818 02818	BYPASS	COMPOUND METER	1540338842	31955936A 31955936	3/4		\$ 8	372.00			Man was	-	125.00
3 12709 3 12708	STANLIFY BLACK & DECKER INC STANLEY BLACK & DECKER INC	TO BRIGGS DR	02818	BYPASS	COMPOUND METER	312709	31983831A 31983831	2/11/2	309	\$ 00009	372.00	1.764.00	\$ 372.00	99 M	300,000	175.00
3 13827	DATAPAY INC.	61 CEDAR AVE 61 CEDAR AVE	02818	BYPASS	COMPOUND METER	1810399054	70175944A 70175944		)(J9)	\$ 00.00	215.25	1 239 00	\$ 215.25	es #	185.00	00.551
3 13907	EAST GREENWICH SCHOOL DEPT	TOU CEDAR AVE	02818	BYPASS	COMPOUND METER	1831198257	70227981A	C1 08	8	\$ 00,000	446.25		\$ 446,25	69	300.00	9 35
313960	ACADEMY SCIENCE CENTER	SE CHIRCHS	0281X	BYPASS		1852120882	70288607A	3		54	-		90 910			1000

44 313612	TAYLOR POINT CONDO ASSOCIATION	95 CRICKITCIR	02818	BROILI	GULLERY CHAI IODANOS	313613	70108382A	ru ∃a		<b>y</b> n 6	446.25	0	\$ 446.25	se (	300 00	
149 313700	TOWN OF EAST GREENWICH	21 CROMPTON AVE	02818	BYPASS	CONTOONS MISSING	1460163286	×	3/4	00 009	9 44	174.75	2 289.00	\$ 174,75	300	75.00	175 00
150 306258	TOWN OF EAST GREENWICH	21 CROMPTON AVIC	02818	TRUFLO	COMPOUND METER	1440175380			\$ 600.00		619.50 \$	05'619		8	\$ 00 009	175.00
151 313985	EAST GREENWICH ACQUISITIONS  EAST GREENWICH ACQUISITIONS	60 CROMPTON AVE	02818	BYPASS	COMPOUND MEIDER	1850714716	70285885A 70285885	- 4	00 009	<b>19 64</b>	215.25	1 230 00	\$ 215,25	90 C	185.00	90
153 313849	EXCHANGE STASSOCIATES	S DIVISION ST	02818	BYPASS		1820915907	7	3/4		-	174.75		\$ 174,75	9 59	75.00	173.00
54 305533	EXCEINGE ST ASSOCIATES  A TREE	TS NOISIVICE 251	02818	TRUMO	COMPOUND METER	1820846813		44	<b>S</b>	\$ 00.005	\$ 05619	619.50		69	\$ 00.009	175.00
156 313207	ATRIA	TS NOISIVICI 981	02818	PROIII	COMPOUND METER	1821158780	70065736	9	\$ 600	\$ 00.000	1,764.00	1,764,00	\$ 372,00	so so	300,000	175.00
7 312180 8 312158	EDENS	TS NOISIVICI 0001	02818	BYPASS	COMPOUND METER	1850466310	Ε,	2	00009	_	446.25	03 013	\$ 446,25	00 6	300.00	146
m	ELEVEN FORTY NINE RISTAURANT	1149 DIVISION ST	02818	BYPASS		1820233025	1	11/2		-	372.00	0000	\$ 372,00	6 69	300.00	27272
160 313835	ELEVEN FORTY NINE RESTAURANT FAST CORRENANCE LICHTON ATTHE	1149 DIVISION ST	02818	PROIII	COMPOUND MEITER	1820233608		9	\$ 600.00	-	1,764.00 \$	1,764.00			\$ 00.008	175 00
	EAST GREENWICH HOUSING ACTES	165 DUKE ST	02818	PROII	COMPOUND METER	312599	49317604 49317604	2 4	00 009	9	215.25	1,239,00	\$ 215.25	S 18	185.00	175.00
163 313868	EAST GREENWICH POLICE FAST GREENWICH POLICE	176 FIRST AVIS	02818	BYPASS	GON GOOTHER AGENTS	1480297604	7			_	215.25		\$ 215,25	59 i	185.00	
	THE RUNGE GROUP LLC	400 FRENCITTOWN RID	02818	BYPASS	NETTER CHICA TRICK	313674	70110858A	1.172	•	-	372.00	1,259,00	\$ 372,00	M 64	300,000	17200
166 313673	THE RIDGE GROUP LLC	400 FRENCITOWN RD	02818	PROIII	COMPOUND:METER	313673		9	\$ 600.00	-	1,764.00 \$	1,764.00			\$ 00.008	175.00
168 312421	EAST GREENWICH PARKS & REC PIELD EAST GREENWICH PARKS & REC FIELD	H00 FRENCHTOWN RD	02818	BYPASS	COMPOUND METER	1830413660	31950745A	3/4	00 009	S S	174.75	019.50	\$ 174.75	** **	75.00	175 00
	EAST GREENWICH SCHOOL DEPT SCHOOL,	1100 FRIENCUTOWN RJ	02818	BYPASS		1850554835	70143218A	5/8		-	159.08		\$ 159,08	12	125 00	
171 313930	FAST GREENWICH SCHOOL TOWN OF EAST GREENWICH	1180 FRENCTTOWN RD	02818	HYPASS	COMPOUND METER	1852083553	70143218 70253809A	110	00 009	_	372 00	976.50	00.075		30 00 \$	175 00
	TOWN OF EAST GREENWICH	1180 FRENCHTOWN RD	02818	PROII	COMPOUND METER	1832337054	70253809	9	00 009	, <b>\$</b>	1,764.00 \$	1,764.00		808	\$00.00	175.00
173 313899	COTTAGE ON GREENE OWNERS ASSOC	38 GREENE ST	02818	BYPASS	diff: DA CDATOGRADO	1830902262	70231901A	5/8	600		159.08	0000	\$ 159.08	\$ 12	125.00	
175 313918	UNITARIAN CITURCIT OF E.G.	H9 KENYON AVE	02818	BYPASS	Neither Colors and	1831686747	70244731A	-	00,000	+	215.25	739.0K	\$ 215.25		00 581	122.00
	UNITARIAN CHURCH OF EG	119	02818	ькош	COMPOUND METER	1830191316	70244731	<del>-</del>	\$ 600.00	-	1,239,00	1 239 00			\$ 00 009	175 00
178 313807	CRESTAR	47-51 LIBERTY ST	02818	BROIII	COMPOUND MITTER	1810392908	70175946A 70175946		\$ 600.000	\$ 00	215.25	1,239,00	\$ 215.25	8 8 8	185.00	175 00
312897	REGAL COURT ASSOC.	33 LONG ST	02818	BYPASS	CONTRACTOR IN IN A APPRICAL	312897	7.			-	215.25		\$ 215.25		185.00	
181 314015	GREENWICH ODEUM	18 MAIN 81	02818	BYPASS	CONTROLLER METER	1547185124	7034777KA	, C	000000	-	372.00	749 00			8 00 000	175 00
311011	GREENWICH ODEUM	So MAIN ST	02818	PROIII	COMPOUND METER	1562494562	70347778	9	00 009 \$	-	1.764.00				w	175.00
184 3 14033	EAST GREENWICH PARTNERS LLC FAST GREENWICH PARTNERS LLC	46 MAIN ST 461 MAIN ST	02818	PROUI	COMPOUND METER	1548420122	70353599A 70353599	- 4	00 009	s ×	215.25				v	175.00
85 313527 86 313576	HINEAR RETAIL EG#111.C	S27 MAIN ST	02818	BYPASS	BHILDING MARKET	1543096050	A76097057	1112		_	372.00	200			1 1	
87 313756	VILLAGE ON THE VINE	620 MAIN ST	02818	BYPASS	Control Chairmannian	1440512478	70154159A	-	00,000	-	215.25	L'OSTE	\$ 215,25	18:	185.00	175.00
8K 313755	MILLAGE ON THE VINE	620 MAIN ST	X X Z Z	PROIII	COMPOUND METER	1440510654	70154159	4	\$ 600.00	-	1,239.00 \$	1,239,00			8 00.009	175.00
313803	PIAZZA ZARRELLA CONDO ASSOC	JS NIVIN 500	02818	PROIII	COMPOUND METER	1852728339	70174667		\$ 600.00	. s	1,239.00	1,239,00	\$ 215,25	\$ 18.	185.00	175.00
91 312701	CADENCE EDUCATION LLC	934 MAIN ST 934 MAIN ST	02818	BYPASS	COMPOUND METER	312701	70002961A		00 009	ss ss	215.25	739 00	\$ 215,25	\$ 180	185,00	00.371
313862	BROOKDALE SENIOR LIVING INV	945 MAIN ST	02818	BYPASS		1820181624	ř	-		-	215.25	ON COTTON	\$ 215,25		00'581	2/200
313861	BROOKDALE SIENTOR ELVING INC	945 MAIN ST	02818	PROIII	COMPONINGER	1820169885	70185927	4	\$ 600.00	-	1,239.00 \$	1 239 00			\$ 00.000	175.00
	TERRACE INVESTMENT GROUP LLC	1001 MAIN ST	02818	PROUI	COMPOUND METER	1545759086	70340579 70340579		00 009 \$	× ×	215.25				64	175.00
197 313338	CHRIST CHURCH	1025 MAIN ST 1025 MAIN ST	02818	BYPASS	SOMEO IN METER	1834418941	70070953A	4	00 009	w w	215.25	1 330 00	\$ 215.25	\$ 18.	185.00	96.96
	SWELT PEAS VILLAGE		02818	BYPASS		313324	70066182A	2		_	215.25		\$ 215.25		185.00	
	TEMPLE TORAT		02818	BYPASS	COMPONED METER	1830850657	70230864A	1.172	Printing.	-	372.00	7.252.00	\$ 372,00		300,000	175.00
203 313785	FRY BROOK CONDO ASSOC	MINDLERD MINDLERD	02818	BYPASS	COMPOUND METER	1830850517	70230864 70156133A	e cı	00 009	-	1,764.00 \$	1,764.00			\$00.00	175 00
204 313784	FRY IMOOK CONDO ASSOC	MIDDLERD	4	PROM	COMPOUND METER	1540008496	70156133	×	\$ 600:00	-	2,289.00				s	175.00
205 313812	NE INSTITUTE OF TECHNOLOGY NE INSTITUTE OF TECHNOLOGY	1 NEW ENGLAND TECH BLV 1 NEW ENGLAND TECH BLV	02818 02818	BYPASS	COMPOUND METER	1541516572	70314604A 70314604	2 10	\$ 600.00	90 8 8	146 25				4	175.00
980911 202	RIDOT HIGHWAY & BRIDGE MAINT	2400 NEW LONDON TPKE	02818	BYPASS	HIND AND MAN	116/146		1.1/2		50 6	372.00		\$ 372.00	300	300.00	
200 313648	EAST GREENWICH LIBRARY	82 PEIRCE ST	02818	BYPASS	COMP COIND INITIAN	313648	×	-	00000	-	215.25	7,754.00	\$ 215.25		800.00	1/2:00
210 313647	EAST GREENWICH LIBRARY	82 PEIRCE ST	02818	PROIII	COMPOUND MICHER	313647		4	1009	8	1,239,00 \$	1,239,00	- 1		\$ 00.009	175.00
212 313690	RPC FAST GREENWICH STORAGE LLC RPC FAST GREENWICH STORAGE LLC	5775 POST RD 5775 POST RD	02818	PROIII	COMPOUND METER	313691	70139772A	1 1/2	\$ 600.000	<b>\$ \$</b>	372.00 1,764.00 \$	1,764 00	\$ 372.00	300	300.00	175.00
213 313140	FIUNT RIVER CONDO ASSOCIATION FIUNT RIVER CONDO ASSOCIATION	5804 POSTRD 5804 POSTRD	02818	BYPASS	COMPOUND METER	1830771311	31922039	- 9	00 009	s <b>v</b>	215.25	1.764.00	\$ 215.25		185.00	25.5
215 117258	WEST GATE CONDOMINIUMS	750 QUAKERIN	02818	BYPASS	OUTSTANDING SOUNDS	541949450	70320053A	n 9		<b>∞</b> 6	446.25					
313940	COLBY PLACE CONDO ASSOC	10 QUEEN ST	02818	BYPASS	COLUMN A COLUMN AND AND AND AND AND AND AND AND AND AN	1834330029	70265535A			69 6	215 25		\$ 215.25	\$ 185	-	No.
219 313909	ENGLE INSIGHT SERVICES INC	1285 SO COUNTY IR	02818	BYPASS	COMPLEINS MEHR	1831664095	70238940A	1.1/2	00 000 000	<b>8 8</b>	372.00	1 239.00	\$ 372.00		300.00	175.00
South Till Billion	Total or the second property of the second of the second	COLONIA NOO CAN ARE	81800	IIIOSEE	COMPOUND MICHTR	1033000001	70538040	4	\$ 600,000	-	. 174.00					

175 00		ansor	175.00	175.00	175.00	00.571	00 921	0000	175 00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	175.00	00 541	0000	175.00	175.00	0000	00 00 00	00 41	0000	00.671	172.00	OU SE	00.571	00.6/1	00.6/1	00.571	0000	Oneri	175.00	175.00
300.00		9 00000	300,00	300,00	800.008	300,00		300,00	7,000,00	300.00	300.00	300.00	1,200.00	00.009	00 581	300 00	300,000	1,000,000	300,000	300,00	300.00	00,000,00	300.00	7,000,000	8 80 900	300.00	185.00	300.00	300,000	300.00	185.00	8 00000	30000	00 581	300,000	185.00	900009	\$ 00 008
446.25 \$	372.00 \$	4	372.00 \$	372.00 \$	$\rightarrow$	372.00 \$	9	446,25 \$		446,25 \$	372.00 \$	446.25 \$	215.50 \$	215 25 \$	215.25 \$	372.00 \$	\$ \$46.75	_	446.25 S	372.00 \$	446.25 \$	ń	446.25 \$	1		372.00 \$	215,25 \$	446.25 \$	372.00 \$	446.25 \$	215.25 \$	4	372.00 \$	215.25 \$	372.00 \$	215.25 \$	2	e
2.814.00	3 1764 00	7700000	69	1,764.00	1,764.00	3 1764 00		69	2,289,00	69	\$ 2289.00	1,764.00	2.814.00	1,239.00 S	3,239.00	1,239,00	1,764.00	2 289 00	2.814.00	1.764.00	69	7.285,00	69	00.50	00000	\$ 257.00	\$9	9 00 00	2 264.00	\$ 00,000	\$	000000	\$ 00.507	<b>9</b>	9	\$	1,239.00	2 289 00
2.814.00	372.00	446.25	372.00	372.00 S	1.764.00 \$	372.00	146.25	446.25	2,289,00 <b>S</b> 446,25	446.25	372.00	446.25	215.50	215.25	215.25	1,239,00 <b>\$</b>	1,764.00 \$	2 289 00 \$	446.25 2.814.00 \$	372 00 1.764 00 S	446.25	446.25	446.25	159.08	215.25	372.00	215.25	446,25	372,00	446.25	215.25	372.00	372.00	215.25	372.00	215.25	372.00	2 289 00 \$
9 49	s .	i va i	69	w w	49	so so	. w. u	69	ы м		A SO	N N	<b>14</b> 69	sa sa	A 60	54 69	W 64	s	n w	60 KA	· ~	e sa e	,	e se s	9 40 6	9 60 0	, v, v		49 9	9 69 6	99 4	90 (W	s s	99 39				
600.00	00.009	00 000	000000	00'009	00 009	00 009	00 009		00 009	00 000	00 000	600.00	00 009	00000	ON THIS	00 009	00 009	00 009	00 009	00 009	00 007	00000	00.00	00 003	00 009	00 009	00 009	90 909	00 009	00 009	90 90	00 00	0000	00 00	00 00		DO DOO	00 009
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70052598	70266927A	70345383A	70200222A	70200222 70270886A	70270886	70201937A 70201937	A70573677	31983147A	70011596A	AU1007107	70251894A	70274665A	70284613A	70213138A	70095215A	70200437A	70200437 70075457A	70075457	701680407	31972952A	70238610A	7010277A	70250920A	70188965A	70069648A	70079112A	70030085A	31964416A	70260144A	70139982A	70048396A	30789712	70146608A	70113517A	31916418B	V+9617107	60051651A	16916000
313100	1834398874	1546713332	1830342957	1834589200	1834589164	1820685341	1542780168	1834565594	1543121230	1810330546	1832059144	1850128610	1850637388	1820026421	313504	313503	313421	313420	1461881336	1832022175	1831407952	1543741642	1832471938	1551507898	1541008896	206686	206545	312458	1833154924	116742	116117	1542994488	1810329744	313584	312125	0685980181	1545965136	18.54.288444
COMPOUND METER	COMPOUND METER	GENERAL MARKET	Arrive Carton Tolland	COMPOUND METER	COMPOUND METIER	COMPOUND MISTIER	COMPOUND METER		COMPOUND METER	CONTRACTOR OF THE STATE OF THE	And a	AND DESCRIPTION OF THE PERSON	COMPOUND METER	COMPOUND METER	With the Authority of t	CUMPARIND METER	COMPOUND MEDER	COMPOUND METER	COMPOUND METER	COMPOUND METER	SHIP WIND YELLOW	And the call to the cooperation	COMPOUND MISTER	CONDON TRUE MATERIED	COMPOSIND METER	SCOMPOLING METHR	COMPOI IND METER	COMPOUND MEDIA	COMMOGNO METER	W CN COMWOOD	COMPONING MEDICE	FYOMODY INDIVIDUAL	CONTROL IND MARTIED	GEORGIA INTO MENDA	NET THE COUNTY OF THE COUNTY O	AND LONG TO COLUMN TO SERVICE AND ADDRESS OF THE	POWER STANDARD CONTRACTOR	CONTA TOND ME LEK
PROIII	BYPASS	BYPASS	BYPASS	BYPASS	PROIII	BYPASS PROII	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	PROID	PROM	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BYPASS	BPOIII	BYPASS	BYPASS	BYPASS	BYPASS	PROMI
02818	02818	02818	02818	02818	02818	02818	02818 02818	02818	02818	02818	02818	02818	02818	02818	02818	02818	02818	02818	020 0	02831	02852	02852	02852	02886	02886	02886	02886	02886	02886	02886	02886	02886	02880	02886	02886	02886	02886	07880
1351 SO COUNTY TR	1454 SO COUNTY TR	1485 SO COUNTY TR 1485 SO COUNTY TR	1558 SO COUNTY I'R	1598 SO COUNTY TR	1598 SO COUNTY IR	1672 SO COUNTY TR 1672 SO COUNTY TR	1950 SO COUNTY TR	2000 SO COUNTY TR	2220 SO COUNTY TR	2400 BO COUNTY TR	2771 SO COUNTY TR	SOCOUNTY		3285 SO COUNTY TR		3461 SO COUNTY TR	3461 SO COUNTY IR STIELIZABETH WAY	I STELIZABETH WAY		ÉAGLE GLEN EAGLE GLEN	5941 POST RID 5941 POST RID		3671 QUAKER LN 3671 QUAKER LN	857 BALD HILL RD	1035 BALD HILL RD	1074 BALD HILL, RD	1085 BALD HILL RD	ISOD BALD HILL RD	ISH BALD HILL RD	1515 BALD HILL RD	1755 BALD HILL RD	23 BRNEFIT ST 23 BRNEFIT ST	227 CENTREVILLERD	236 CENTERVILLERD	300 CENTERVILLERD	575 CENTERVILLE RD	575 CENTERVILLERD	Co of Harden Park
ALBANY RD 1351 SO COUNTY I.I.C.	LIFE SPAN CARI CINTER LIFE SPAN CARE CENTER	1485 HOLDINGS LLC 1485 HOLDINGS LLC	UNITED METHODIST CHURCH	1598 SOUTH COUNTY TRAIL LLC	1598 SOUTH COUNTY TRAIL LLC	SO COUNTY TR MEDICAL OFFICES SO COUNTY TR MEDICAL OFFICES	ONE AMERICA WAY LLC ONE AMERICAN WAY LLC	EAGLIPICIER TECHNOLOGIES LLC	2240 SO COUNTY TRAIL	HARRY R LEWIS & SON INC	UNCLE BOB'S SELF STORAGE	EXECUTIVE MILITARY STAFF	STORK'S NEST	GEMMA REALTY	AIM HIGH REALTY LLC	SCIBIL C	SCEIB LLC STELIZABETH HOME EG	ST ELIZABIETE HOME EG	VISTAS ON THE TRAIL	EAGLE GLEN HOMBOWNER'S ASSOC FAGLE GLEN HOMBOWNER'S ASSOC	HIGH LEACOMMERCIAL ASSOCILIC	TARBOX HYUNDAI	TARBOX TOYOTA	BALD HILL CAR WASH	BALD HILL DODGE	WALGREEN CO.	LESUES POOLMART #285	ISOO BEIR LLC	HERB CHAMBERS CADILLAC	INSKIP MGMT CO	JKA ENTERPRISES LLC	WARWICK PINES	NEUROTEALTH CENTER	THE WASHINGTON TRUST CO.	THE SUMMIT CONDO ASSOCIATION STRANDS ASSOCIATION OF THE STRANDS ASSOCIATION AS	WARWICK SCHOOL DEPT	WARWICK SCHOOL DIEPT WARWICK SCHOOL DIEPT	PONDED OF THE STORY
313100	223 313938 224 313937	326 314027	313866			231 313873	233 314040	235 312646					245 313952	247 313887			252 313863 253 313421		256 313822	257 106-77	100 100	261 314007	263 313921	265 207097	268 206654	269 206686 270 206685	271 206545	273 312458	275 117344	116741	7110117	311676	313727	313584	312125	313810	313076	3000000

295 116499	CHILD INC.	849 CEN	849 CENTERVILLE RD	02886	PROIII	COMPOUND METER	116498	31843978	4	3	600 00 K	3 00 PY	1 764 00		6	-00.00
297 314013	CENTERVILLE COMMONS	875 CEN	CENTERVILLE RD	02886	BYPASS	GUILLEAN COM INCOMPOS	1545610984	70339187A	1172		-	372 00	000			
313342	KENT COUNTY YMCA	900 CEN	CENTERVILLE RD	02886	BYPASS	COMPLETENCY MELLER	1541034972	70075826A	1		S S	215.25				w.
313997	CENTERVILLE GARDENS	1209 CEN	CENTERVILLE RD	02886	BYPASS	COMPOUND METER	313341	70312347A	4 (1	8	\$ 8	1239.00 <b>S</b>	1,239,00		S	00.009
313446	CENTERVILLE GARDENS COLLEGE PARK CONTO ASSOC	1209 CEN	1209 CENTERVILLE RD	02886	PROIL	COMPOUND METER	1540547640		× -	99	\$ 00.009	2,289.00				9
206234	COLLEGE PARK CONDO ASSOC	29-33 COL	29-33 COLLIGIE IIIL RD	02886	PROIII	COMPOUND METER	1552222908	703.70111A	- 9	9	\$ 00.00	215 25				6
312586	SPARROW POINT II SPARROW POINT II	777 COW	COWESETT RD	02886	BYPASS	COMPOUNDMETER	312586	00005561A	8/8	9	\$ 800.00	80.651	07% 50	\$ 159,08	5	125,00
313401	COBBLESTONE VILLAGE	COM	COWESETT RD	02886	BYPASS	CONTRACTOR AND ACCOUNT	313401	70077244A	11/2		-	372.00		\$ 372,00		300 00
313841	CARPIONATO PROPERTIES INC	100 CRO	100 CROSSING BLVD	02886	BYPASS	CONGROUND MISTER	1820215337	70164999A	2	8	8 8	446,25	1,764,00	\$ 446.25	69 69	300.00
313840	CARPIONATO PROPERTIES INC.	100 CRO	2 DIVISION ST	02886	PROIII	COMPOUND METER	1820216233	70164999	10	\$ 60	\$ 00 009	2,814.00	2.814.00			200.00
3132210	PRIME MARINA EGHOLDINGS LLC PRIME MARINA EGHOLDINGS LLC	JVICI E	JUVISION ST	02886	HYPASS TRUFLO	COMPOUND METER	313144	31935778A 31935778	3/4	\$ 60	\$ 00.009	174,75	619.50	\$ 174.75	69 69	75.00
200700	COMMUNITY COLLEGE OF R L	486 EAST AVE	AVE	02886	BYPASS	COARDO METER	1551736084	70357310A	1 1/2		69 6	372.00				-
3 13 589	VISHAY ELECTROFILMS	III GILBANE ST	ANE ST	02886	BYPASS		1543032560	70325570A	-		9 69	215.25	T			
313685	GREENWOOD COMMONS CONTO ASSOC	881 GREENWICH	881 GREENWICH AVE	02886	BYPASS	COMPOUND MILLISK	313685	70086295A	4 7	9	\$ 00,009	446.25	67	\$ 446.25		300,00
313684	GREENWOOD COMMONS CONDO ASSOC SPARROW POINT J	881 GREENWICH	881 GREENWICH AVI: 311 HARDIG RD	02886	PROIII	COMPOUND METER	313684	70086295	w 2	8	\$ 00 009	2 289 00 \$	2,289.00	00001		\$ 00000
312585	SPARROW POINT I	311 FARDIG RD	DIG R.D	02886	IRUFLO	COMPOUND METER	312585	31979765	3,0	9	\$ 00.009	976.50 \$	976.50	20,801	A 80	200.00
312588	SPARROW POINT III SPARROW POINT III	355 HARDIG RD	OIG RD	02886	BYPASS	COMPOUND METER	1545135962	00005560A	5/8	09	\$ 00,000	159.08				
312665	GREENWICH MILLS LLC	42 LADD ST	) ST	02886	BYPASS		312665	31968674A	11/2		••	372.00	_	\$ 372,00	3	300,000
305818	SPENCER HILL CONDO ASSOC	TS CICLAID ST	LADD ST MAJOR POTTER RD	02886	PROIII	COMPOUND METER	305818	31968674	9	\$ 60	\$ 00,000	1,764.00 \$	1,764.00			\$ 00 008
313022	SPENCER HILL CONDO ASSOC	MAJ	MAJOR POTTER RD	02886	PROIII	COMPOUND METER	1820018098	70040146A 70040146	6	S 60	\$ 00.009	372.00	1,764.00	\$ 372,00	en 00	300.00
313075	BREWER COWESETT MARINA N. 3515 BREWER COWESETT MARINA N. 3515	I MAS	MASTHEAD DR	02886	BYPASS	WEILEN CINTOMOO	1460215334	70047460A	1.1/2	9	\$ 00000	372.00		\$ 372.00	FD 6	300.00
313754	JF ALLEN & SON INC	100 MEA	MEADOW ST	02886	BYPASS		1440381673	70155352A	1172		s	372.00	3	\$ 372.00	1 53	300,000
330 313753	VALLEY CC INVESTORS LLC	251 NEW LONDO	100 MEADOW ST 251 NEW LONDON AVE	02886	PROIIT	COMPOUND METER	1832249953	70144499A	5/8	8	\$ 00.000	1,764.00 \$	1,764.00	\$ 159.08		800.00
116767	VALLEY CC INVESTORS LLC	251 NEW	NEW LONDON AVE	02886	TRUPLO	COMPOUND METER	1832447754	70144499	3	8	\$ 00.009	\$ 05.976	976.50		.5	\$ 00.005
116766	VALLEY CC INVESTORS LLC VALLEY CC INVESTORS LLC	251 NEW 251 NEW	251 NEW LONDON AVE 251 NEW LONDON AVE	02886	BYPASS	COMPOUND METER	1460394764	70148213A 70148213	1 1/2	8	\$ 00.009	372.00	1.764.00	\$ 372.00	m 00	300.00
114628	VALLEY VIEW CONDOMINITM INC	325 NEW	325 NEW LONDON AVE	02886	BYPASS	COMPOUND METER	1543416826	31918332	3/4	6	15 to 00 00 00 00 00 00 00 00 00 00 00 00 00	174.75				-
313980	MANN CI B:MICAL	3134 POST RD	RD	02886	BYPASS	NEGOTIA CARONIA	1540612192	70307820A	2	9	65	446.25				^
313879	MANN CHEMICAL HOUSE OF HOPE CDC	3134 POST RD 3188 POST RD	(Z)	02886	PROUL	COMPOUND METER	1540098536	70307820 70230630A	<b>*</b>	9	\$ 00,009	2,289.00	V	215.25	64	\$ 00581
168010	HOUSE OF HOPE CDC	3188 POST RD	RD	02886	PROIT	COMPOUND METER	1830822376	70230630	ा	\$ 600	\$ 00 009	1,239,00 \$	1,239.00	- 1		\$ 00,009
313062	ENGIE INSIGHT SERVICES INC ENGIE INSIGHT SERVICES INC	3336 POST RD 3336 POST RD	Z)	02886	BYPASS	COMPOUND METER	313062	70292930A	1 4	109	\$ 00009	215.25	1,239.00	215.25	2 4	185.00
312189	HOLLOW CREST APARTMENTS TO LOW CREST APARTMENTS	3465 POST RD	02 02	02886	BYPASS	COMPOUNDMENTE	1830324145	31926509	v	9	\$ 00000	215.25	\$ 00.425.1	215,25	9	00 581
310162	COWISETT HILLS ASSOC	3595 POST RID	RID	02886	BYPASS		310162	31968559	2		64	446.25	49	446.25	8	300.00
313882	BAY WINDS CONDO ASSOCIATION	3960 POST RD	RD	02886	BYPASS	COMPOUND METER	1830343642	31968559A 70213139A	11/2	909	\$ \$	372.00	2,289,00	372.00	\$ 3	300.00
314011	BRENTWOOD BY THE BAY LTD	4040 POST RD	RD RD	02886 02886	PROIII	COMPOUND METER	1820784899	70213139	9 110	S 600	\$ 00.009	1,764.00 \$	1,764 00			800.00
350 314010	BRENTWOOD BY THE BAY LID	4040 POST RD	RU	02886	PROIII	COMPOUND METER	1545044182	70335351	9	3 800	S 00.000	2 289 00				v
207152	TOROS JOHANJIAN TOROS JOITANJIAN	561 PROV 561 PROV	PROVIDENCE ST PROVIDENCE ST	02886	BYPASS	COMPOUND METER	1831687084	70233378A	_ 4	009	\$ 0000	215,25	\$ 00.010	215.25	es w	185.00
116651	QUAIL RIDGE CONDO ASSOC OTATE, RIDGE CONDO ASSOC	QUA	QUAIL RIDGE LIN	02886	BYPASS	CONVENTION MATTER	1850692869	70115792A	2		_	446.25	5	446.25	69 6	300 00
116801	JD RI SUPREMI; COURT	222 QUA	QUAKER LN	02886	BYPASS		1831217169	70150742A	2		9 99	446.25	8	446.25	3 3	300.00
313860	AMCAP COWESETT II LLC	300 QUAKER IN	QUAKER IN	02886	PROIII	COMPOUND METER	1821048695	70150742 70210130A	<b>x</b> 2	S 60K	\$ 00,000	2,289,00 \$	2 289 00	446.25	\$ 3(	300.00
311705	AMCAP COWESETT II LLC	300 QUAKER IN	GRIN	02886	PROIII	COMPOUND METER	1821078158	70210130	×	\$ 600	\$ 00 009	2,289.00 \$	2.289.00			\$ 00 000°1
313332	QUAKER REAL EST ENT LLC QUAKER REAL EST ENT LLC	444 QUAKER EN	DER IN	02886	BYPASS	COMPOUND METER	313332	70072642A 70072642	2 JO	209	\$ 00.009	446.25	2814.00	446,25	3(	300.00
3 1387 1	CUSHMAN & WAKEFIELD	650 QUAKER IN	DIR LN	02886	BYPASS	COMPOUND METER	1830103902	70215490A	11/2	009	\$ 90000	372.00	50000	372.00	99	300.00
313880	CUSIIMAN & WAKEFIELD	650 QUAKER I.N	ZER I.N	02886	PROID		1850609940	70206877A	3/4		, s	174.75	2000	174.75	4 59	75.00
314023	CUSHMAN & WAKEFIELD STANLEY SLOWICK - VICE PRES	804 QUAKER IN	GER IN	02886	TRUFLO	COMPOUND METER	1547338832	70206877 70011110A	11/2	\$ 600	\$ 00.000	372.00	1 239 00			\$ 00 009
3 14022	STANLEY SLOWICK - VICE PRES	804 QUAKERIN	GR IN	02886	PROIII	COMPOUND METER	1540931428	70011110	9	309	\$ 00.009	2 289.00				64
3 2076	The state of the s	Transfer M. Co.	N D N	02886	100 000000		200000000	00000								

369 313073	NORTHEAST THEATRE CORP	1200 QUAKER LN	02886	BYPASS	Section 1990	1830133926	7	1.172		64	372.00		49	372,00 \$	300.00	
371 117087	BALTIC QUAKER LLC	30-60 QUAKER LN	02886	BYPASS	COMPOUND METER	1833134407	70052628 70260729A	۰ -	S	\$ 00,009	2 289 00	\$ 2289.00			1,000.00	175.00
372 117086	BALTIC QUAKER LLC	30-60 QUAKERIN	02886	PROIII	COMPOUND METER	1833129731		*	84	\$ 00.000	1,239,00	\$ 1,239,00	A	\$ 62,612	00'009	175.00
312688	GRIMIS BOX	ILL TELMORE RU	02886	BYPASS		1546595518		1.172		45	372 00					200
375 314006	ALL AMERICAN ASSISTED LIVING	55 TOLIGATE HILFARM RD	02886	PROIII	COMPOUND METER	1485602846	31987058	9 1	S	\$ 00,009	2,289.00	\$ 2.289.00	0	69	8 00 009	175.00
	ALL AMERICAN ASSISTED LIVING	SS TOULGATE HILLFARM RD	02886	PROIII	COMPOUND METTER	1542689716	703242317	7 00	ss	9 00 009	2,289.00				5	175.00
313856	176 TOLLGATE RD ASSOC 176 TOLLGATE RD ASSOC	176 FOLLGATE RD	02886	BROIT	SOMBOTIND METER	1820065854	70192092A		6	50 00	215.25		sa.	215.25 \$	185.00	
379 200787	KENT COUNTY MEMORIAL HOSPITAL	455 TOLLGATE RU	02886	BYPASS	VEITTING THE TANKS	1544363346	72020115A	3/4		S S	174.75	\$ 1,239,00		64	00 009	175.00
	KENT COUNTY MIMORIAL HOSPITAL	455 TOLLGATERD	02886	TRUFLO	COMPOUND METER	1544202956	72020115	ų	w	\$ 000009	1 239 00		1		\$	175 00
382 207154	KENT COUNTY MEMORIAL HOSPITAL KENT COUNTY MEMORIAL HOSPITAL	455 TOLLGATE RID 455 TOLLGATE RD	02886	PROIII	COMPOUND METER	1832265439	70252817A	7 %		\$ 00,009	446.25	00 080 00	64	446.25 \$	300.00	175.00
383 206253	EYE IEALTH ASSOCIATES LLC	566 TOLLGATIE RD	02886	BYPASS		206253	<u>E</u>	-		8	215.25		69	215,25 \$	185 00	2000
385 206839	STORKS NEST	1100 TOLLGATE RD	02886	BYPASS	COMPOUND METER	1834598511	31971463 70114856A		64	\$ 00,009	215 25	\$ 1,239.00	65	\$ 5231	00000 S	175.00
386 206838	STORKS NEST	1100 TOLLGATE RD	_	PROIII	COMPOUND METER	206838		4	64	\$ 00.009	1 239 00	\$ 1,239,00	,		600,000	175.00
387 313825	WARWICK FIRE DEPARTMENT WARWICK FIRE DEPARTMENT	III VETERANS MEMORIAL DR	02886	BYPASS	COMPOI IND METER	1562833914	70167457A	4		8 9	215.25				•	00 250
389 312280	APPONAUG BASEBALL LEAGUE	VETERANS MEMORIAL DR		BYPASS		1547540766	31935777A	3/4	,	0 00	174.75					005/1
390 312728	APPONAUG BASEBALL LEAGUE KSI, INVESTMENT CO - APPONALIG	VETERANS MEMORIAL DR	02886	TRUFLO	COMPOUND METER	91751713716	77725615	4	8	\$ 00 009	1,239,00				69	175.00
392 314045	KSL INVESTMENT CO - APPONAUG	1350 GREENWICH AVE	02886	PROIII	COMPOUND MITTER	1563353226	70374671	7/1	Ġ	\$ 00 009	372.00				64	175 00
191 116974	WILDBERRY APARTMENTS WILDBERRY APARTMENTS	95 ARCHAMBAULT AVE	02893	BYPASS	OCCUPATION COMPANY	1852728279	70199955A	ä.		5A 1	215.25	ę	~	215.25 \$	00.581	
	RN WEST VALLEY INC LLC	4 BLOSSOM ST	02893	BYPASS	COURT	1830239548	70210145A	11/2	0	5 5	372.00	3 1,239.00	s,	372.00 S	300.00	175.00
	RN WEST VALLEY INC LLC	4 BLOSSOM ST	02893	PROIII	COMPOUND METER	1830240694	70210145	9	8	\$ 00.009	2,289.00	\$ 2,289,00		$\rightarrow$	1,000.00	175 00
398 115411	CENTREVILLE MILL 11 LLC CENTREVILLE MILL 11 LLC	3 BRIDAL AVE 3 BRIDAL AVE	02893	BYPASS	COMPOUND METER	1820653539	31920701	11/2	64	\$ 00.009	372.00	2 289 00	ы	372 00 \$	300,00	175.00
399 116224	VALLEY INDUSTRIES #006210	155 BROOKSIDE AVE	02893	BYPASS		1852513594	70285893A	5		65	446.25		\$ 446	K.25 S	300.00	
400 104115	VALLEY INDUSTRES #006210	155 BROOKSIDE AVE	02893	PROIT	COMPOUND METER	1850714616	70285893		s	\$ 00:009	2,289.00	\$ 2289.00		-	1,000.00	175.00
402 116840	LIAM P BARRY	62-66 BROOKSIDE AVE 62-66 BROOKSIDE AVE	02893	PROIII	COMPOUND METER	1810257698	70170020A 70170020	T 4	99	\$ 00.009	215.25	\$ 1,239.00	59	215,25 \$	185.00	175.00
403 207110	WEST WARWICK B P O ELKS 1697 WEST WARMICK ON OUT OF 1607	60 CLYDE ST	02893	BYPASS	CONTRACTOR STORY	1810014754	70199974A	÷);		69	215,25		ss.	215.25 \$	185.00	
405 116867	ENGIE INSIGHT SERVICES INC	COWESETT AVE	02893	BYPASS	COMPONE CONTRACTOR	1810204026	70169995A	-	,	2 3	215,25	7 1739 00	S	215.25 \$	185.00	175.00
998911	FUCIE INSIGHT SERVICES INC	1 COWESETT AVE	02893	PROIIT	COMPOUND METER	1810230156	70169995	4	**	\$ 00 009	1,239,00	\$ 1,239.00		-	\$ 00 009	175.00
408 115227	THE ELMS	63 COWESETT AVE 63 COWESETT AVE	02893	BYPASS PROIII	COMPOUND METHER	1834591180	70270878A 70270878H	11/2	69	\$ 00.009	372.00	\$ 2289.00	S	372.00 \$	300.00	175.00
409 115818	COWESETT INN INC	226 COWESETT AVE	02893	BYPASS	SOCION CENTRAL SOCIONO	1460402259	70156415A	1 1/2	6	\$ 00000	372.00		'n	372.00 \$	300 00	
411 313485	EXTENDED STAY HOTELS #1114	1200 DIVISION RD	02893	BYPASS	CONTRACTOR SECURIOR	1830565040	70093043A	2	a	\$ 000,000	446.25	7.289.00	69	446 25 \$	300.00	175.00
412 313484	EXTENDED STAY HOTIELS - 1114  DECONMISSION WARDINGS PARTIERORS	1200 IDIVISION RD	02893	PROIII	COMPOUND METIER	1832512689	70093043	oo -	50	\$ 00 009	2,289.00	\$ 2,289.00	1	-	s 00'000'1	175.00
414 310379B	BROOK WOOD WARWICK INVESTORS	1600 DIVISION RD	02893	BADGER	COMPOUND METER	1440209967	12390321B	- 9	65	\$ 00.009	215.25	\$ 2,289.00	67	215.25 \$	1,000,000	175.00
415 313611	GARDENS OFFICE PK CONDO ASSOC GARDENS OFFICE PK CONDO ASSOC	1350 DIVISION ST	02893	BYPASS	COMPOUND METER	313611	70110643A	C1 08	v	\$ 00,000	446.25	e	69	446.25 \$	300 00	00 941
117617	GREENWICH PLACE APARTMENTS GREENWICH PLACE APARTMENTS	SO DOGWOOD DR	02893	BYPASS	danay kuniyod koʻs	719711	60266932A	72 0		69 6	446.25		69	446.25 \$	25.00	
419 116370	ASTRO-MED	600 GAST GREENWICH AVE	02893	BYPASS		116370	70069642A	2	9	9 9	446.25	n	69	446.25 \$	300.00	ansort.
115316	ASTRU-MEDI ARCTIC DEV VENIXOR #006210	33 FACTORY ST	02893	BYPASS	COMBONIO NELLER	1832056837	70069642 31954395A	11/2	8	\$ 00 009	372.00	\$ 2,289.00	69	372.00 \$	300.00	175.00
122 102640	ARCTIC DEV VENDOR #006210	33 FACTORY ST	02893	PROIII	COMPOUND METER	1821166856	31954395	9	s	\$ 00.009	2,289,00	\$ 2,289.00			1,000,00	175.00
424 116859	WEST WARWICK YOUTH CENTER WEST WARWICK YOUTH CENTER	40 FACTORY ST 40 FACTORY ST	02893	PROIII	COMPOUND METER	1810409354	70173257A 70173257	- 4	55	\$ 00.009	215,25	\$ 1,239.00	м	215.25 \$	185.00	175.00
725 117278	WEST WARWICK SPORTS COMPLEX WEST WARWICK SPORTS COMPLEX	100 FACTORY ST	02893	BYPASS	COMPOUND METER	1542917166	70325771A	11/2	64	\$ 00.00	372.00				*	00 91
	HILCO ATHLETIC & GRAPHIC	55 GREENHILL ST	02893	BYPASS		1830191405	31969859A	8/9		-	159.08		59	159.08 \$	125.00	0000
29 313159	CARDITS FURNITURE	6 JAMES P MURPHY HWY	02893	BYPASS	COMPOUND METER	313159	70057931A	1 1/2	•	\$ 00,000	372.00	\$ 976.50	S S	372.00 <b>\$</b>	300.00	175.00
	CARDI FURNITURE	6-JAMES P MURPHY HWY	02893	PROIII	COMPOUND METER	313158	70057931	9	69	S 00.009	2.289.00	\$ 2289.00	-	s	1,000.00	175.00
43   312377	COX COMMUNICATIONS INC	9 JAMES P MURPHY HWY 9 JAMES P MURHIT HWY	02893	BYPASS	COMPOUND METER	1541522276	31955888A 31955888	11/2	49	\$ 00.009	372.00				64	175 00
133 312863	ACADEMY FOR LITTLE CHILDREN ACADEMY FOR LITTLE CHILDREN	10 JAMES P MURPITY HWY	02893	BYPASS	CONPOLIND	312863	70029820A	= 5	6	sa sa	215.25	0000001	64	215.25 \$	185.00	91
	WARWICK CHILLC	14 JAMES P MURPHY HWY	02893	BYPASS	Manual Control of Control	312876	70027807A	11/2		-	372.00		69	372.00 \$	300.00	and the same of th
437 312732	WATERCO REAL ESTATE LLC	149 JAMES P MURPHY HWY	02893	BYPASS	COMPOUNDINGSER	1820697148	31969914A	٥	•	00 000	2.289.00	\$ 2,289.00		21575	1,000,00	175.00
138 312731	WATHROO REAL ESTATE LLC	149 JAMES P MURPHY HWY	02893	PROID	COMPOUND MITTER	1821017141	31969914		\$	9 00 009	1,239.00	\$ 1,239.00	,	-	\$ 00 009	175.00
440 312946	CBW ILLC	KEYES WAY	02893	BYPASS PROIII	COMPOUND METIER	312947	70027809A 70027809	1 1/2	*	\$ 00.000	372.00	\$ 2,289.00	t/A	372.00 \$	300.00	175.00
441 313587	WEST WARWICK HOSPITALITY LLC	10 KEYES WAY	02893	BYPASS	COMPOUNDAGEED	313587	70109147A	7 9		<b>59</b> 6	446.25	6	69	446.25 \$	300.00	
4 (313380	WEST WARWICK HOSPITALLI Y LILC	IOINETES WAT	07883	PROIII	COMPOUND METER	313200	70109147		,	\$ 00 009	2.289.00	\$ 2.289.00		2	1,000.00	175.00

Particologogogogogogogogogogogogogogogogogogo	443 117084	COTTAGES AT WEST GLENN COTTAGES AT WEST GLEN CONDO	181 LEGRIS AVE 181 LEGRIS AVE	02893	BYPASS	COMPOUND METER	1832446642	70252816A	н <sup>(1)</sup>	9	s4 e	215,25	00.000.1	\$ 215,25	52	185.00	
	445 207037	PEEDIX COMMONS CONTO ASSOC	177 MAIN ST	02893	BYPASS		1810365966	70172005A	-		-	215.25	20100000	\$ 215.25	\$ 52	185.00	1/200
	447 207146	WEST WARWICK HOUSING ALTHORITY	771 MAIN ST	02893	PROUI	COMPOUND METER	1543122418	70172005	4		38	1,239.00	1,239.00		$\rightarrow$	\$ 00 009	175.00
18.00   18.0	448 207145	WEST WARWICK HOUSING AUTHORITY	1021 MAIN ST	02893	PROIL	COMPOUND MISTER	1830431193	70225830A	6	9	- 000	372.00	2 289 00	\$ 372.00	ss ss	300 00	175 00
Column   C	450 116582	WEST WARWICK DT LLC WEST WARWICK DT LLC	1125 MAIN ST	02893	BYPASS	COMMON DATA AGENTS	116583	7				215.25		\$ 215 25	\$ 52	185.00	
Control   Cont	451 116380	WALGREEN CO	1155 MAIN ST	02893	BYPASS		116380		11/2	9	+	372.00	1,239.00	\$ 372.00	+	300,000	175.00
11.20.10.00.00.00.00.00.00.00.00.00.00.00.00	453 116643	THI INDERMIST	1325 MAIN ST	02893	PROIII	COMPOUND METER	116379	,	9 -	9	-	2,289 00 \$	2 289 00		-	\$ 000000	175 00
Part	454 104346	THUNDERMIST	1225 MAIN ST	02893	PROIII	COMPOUND METER	104346		- 3	8 60	_	215 25	1,239.00	\$ 215,25	S 64	00 009 800 009	175 00
	455 117281	ENGIE INSIGHT SERVICES INC ENGIE INSIGHT SERVICES INC	1270 MAIN ST 1270 MAIN ST	02893	HYPASS	COMPOUND METER	1543856382	70329681A 70329681	1 1/2	3	4	372.00				_	00 351
Comparison   Com	457 116530	THE KENT CENTER	1315 MAIN ST	02893	BYPASS	The state of the s	116530	7	- 1	9		215.25		\$ 215.25	\$ 53	-	005/1
	45% 104258B	PAWTUCKET DYEING & BLEACHING	1454 MAIN ST	02893	BYPASS	COMPOUND WELLES	1545788716	70351697A	1 1/2	800	27	372.00	1.239.00		ы	90 009	175.00
	460 104258A	PAWTUCKET DYEING & BLEACHING	1454 MAIN ST	02893	PROIII	COMPOUND METER	1548907840		9	\$ 600	-	2 289 00				\$	175.00
Part	461 116338	MUTUAL APARTMENT PROP L P MUTUAL APARTMENT PROP L P	1735 MAIN ST 1735 MAIN ST	02893	BYPASS	COMPOUND METER	116338		2 %	\$		7.289.00	2 289 00	\$ 446,25	\$ \$	300,00	175 00
Page 1971   Page	463 207180	ECHO FA OWNER LLC	S6 MAPLE AVE	02893	BYPASS		1850718806	70292559A	11/2		-	372.00		\$ 372.00	-	-	ON COL
The control of the	465 207205	ORCHARD DEV LLC	69 NORTH PLEASANT ST	02893	BYPASS	COMPOUND METER	1544482946	70332356A	0 7	2009	-	2,289,00	2 289.00	l	69	1,000,00	175.00
1.000   1.00		ORCHARD DEV LLC	69 NORTH PLEASANT ST	02893	PROIII	COMPOUND METER	1544530416	70332356	œ	8	-	2.289.00				65	175.00
	467   15382	CHILD INC	28 PAYAN ST 28 PAYAN ST	02893	BYPASS	COMPOUND METER	115382	31942529A	- 4	009	_	215,25	1 330 00	\$ 215.25	es e	185.00	200
	469 207176	SPRING VILLA	59 PLEASANT ST	02893	BYPASS		1850628562	70283224A			-	215,25	0.00	\$ 215.25	-	185.00	27,200
This part   Mark   Ma	470 207175	SPRING VILLA AV UV AVA CTE UVA TED TO BA TRACKET EAC	59 PLEASANT ST	02893	PROIII	COMPOUND METER	1850586441		+	09 \$	-	1,239,00 \$	1.239.00	-0	-	\$ 00.009	175.00
Paces   Pa	472 206030	W W WASTE WATER TREATMENT FAC	1 PONTIAC AVE	02893	PROUI	COMPOUND METER.	206032	ď	7/1	S 600	_	372,00	2 289 00	372,00	es <b>u</b>	300.00	175.00
Decision Considerable   Section Considerabl	173 117 160	ROY A LA CROIX	17 PROVIDENCE ST	02893	BYPASS	STEEL CONTROL OF THE PERSON NO.	1852032023	70286885A		6		215.25		\$ 215,25	-	185.00	
The control of the	475 206982	CROSSROADS RI	54 PROVIDENCE ST	02893	BYPASS	WILLIAM STATES	1853020368	70157928A		000	-	215,25	1,239.00	\$ 215.25	8 8	185.00	175.00
	476 206981	CROSSROADS RI	54 PROVIDENCE ST	02893	PROIII	COMPOUND METER	1830529447	70157928	4	\$ 800	-+-	1,239.00 \$	1.239.00		-	\$ 00.009	175 00
	478 207024	WEST WARWICK SCHOOL DEPT	124 PROVIDENCE ST	02893	PROIII	COMPOUND METER	1810326244	70170500A	1.1/2		_	372.00 2.289.00 \$	2.289.00	\$ 372.00	6 K	300,00	175.00
	479 207053	LAKE ISLE CORP LLC	125 PROVIDENCE ST	02893	BYPASS	GUITE A CHAINE	1461244284	70170621A	2 9		_	446.25		\$ 446.25	_	300.00	
		LAKE ISLE CORP LLC	185 PROVIDENCE ST	02893	BYPASS	WILLIAM CALIFORNIA	1810487194	70165014A	5 2	KNO A	+-	446.25	2.289.00	\$ 446.25	-	300.00	175.00
Decision	483 207150	LAKE ISLE CORP.LLC	185 PROVIDENCE ST	02893	PROIII	COMPOUND METER	1810507030	70165014	00 -	\$ 600	-	2 289 00 \$	2 289 00		-	3 00 000 1	175.00
Decision   Decision   Decision   Decision   Devices   Decision	184 207149	THUNDERMIST MEDICAL	186 PROVIDENCE ST	02893	PROIII	COMPOUND METER	1820845786	70243334	4	309	_	1,239.00	1,239.00	\$ 715.25	A 4A	00.009	175.00
DASSAN         LIPRARY ILO         DASSAN         DASPANDA	485 207215	ORIGINAL BRADFORD SOAP ORIGINAL BRADFORD SOAP	200 PROVIDENCE ST 200 PROVIDENCE ST	02893	BYPASS	COMPOUND METER	1547960038	70351696A 70351696	11/2	309	_	372.00				_	175 00
	487 206078	LENRY 110	283 PROVIDENCE ST	02893	BYPASS		206078	31941776	1 1/2		_	372.00		\$ 372.00	\$ 0	300.00	
D000000000000000000000000000000000000	488 206844	RIVER BEND CONDO ASSOC	450 PROVIDENCE ST	02893	BYPASS	COMPOUND METER	204895	31941776A 70115745A	2	309	-	2.289.00 S	2,289 00	\$ 446.25		300.00	175.00
	490 206843	RIVER BEND CONDO ASSOC	450 PROVIDENCE ST	02893	PROII	COMPOUND METHER	206843	70115745	00	\$ 600	$\rightarrow$	2.289,00 \$	2 289 00	- 1	-	\$ 00,000	175.00
D006604         ENGIE INSTIGIT SERVICES INC.         894 ROVIDENCE ST         0.2893         IMPASS         FOOMPOUND METHER         183-19756         702-6921         1         5         60.00         5           200661         ENGIE INSTIGIT SERVICES INC.         824 PROVIDENCE ST         20383         PREQUI         COMPOUND METHER         183-16576         702-6921         8         6<	491 206930	OPERATION STAND DOWN OPERATION STAND DOWN	790 PROVIDENCE ST 780 PROVIDENCE ST	02893	PROIII	COMPOUND METER	206930	31960764A 31960764	1 4	009	_	215.25	1 239.00	\$ 215,25	es w	00'009	175.00
	493 206604	ENGIE INSIGHT SERVICES INC	834 PROVIDENCE ST	02893	BYPASS	COMPOUND NACTOR	1834307567	70264921A	-/-	6		215,25	0000	\$ 215,25	_	185 00	
	207162	ROYAL WOODS CONDO ASSOC	1027 PROVIDENCE ST	02893	BYPASS	NET PAR CENTER AND THE PART OF	1832159676	70251401A	7		-	446.25		\$ 446.25	+	300.00	1/3.00
117381         PROCHI BLIDIZILIC         100 PULASKI ST         0.0893         PRODII         COMPOLND METER         154962732         7016340         8         6.00.00         8         9         0.0         1.17381         PRODII         COMPOLND METER         154962732         70153537         2         6.00.00         8         9         0.0         1.17382         PRODII         COMPOLND METER         154964020         70153537         2         6.00.00         8         9         1.17382         PRODII         COMPOLND METER         154905972         70156231         1         6.00.00         8         9<	497 116811	PEACH BUDZ LLC	100 PULASKI ST	02893	BYPASS	COMPOUND METER	1832160708	70163410A	2		-	446.25	2.289.00	\$ 446,25	-	300.00	175.00
III   1783   KENT COUNTY COMMONS   101 QUAKER LN   02893   BYPASS   154604020   15460402	498 103282	PEACHBUDZILC	100 PULASKI ST	02893	PROIII	COMPOUND METER	1832546479	70163410	*		$\rightarrow$	2.289.00 \$	2 289 00		69	\$ 00 000 1	175.00
HARRY LEISER TRUSTEC OF THE	500 117382	KENT COUNTY COMMONS KENT COUNTY COMMONS	101 QUAKER LN 101 QUAKER LN	02893	BYPASS	COMPOUND METER	1549644020	70359637A 70359637	7 36		_	446.25				*	175.00
110567   PEP BOYS   15901144   20161664   2   2   2   2   2   2   2   2   2	501 117276	HARRY LEISER TRUSTER OF THE	325 QUAKER LN	02893	BYPASS	CONTRACTION CONTRACTOR	1543099572	70326231A			-	215.25					
1135457         PEP BOYS         TROIL         CCMPOLIND METHR         1466629192         70116166AA         8         6.00.00         \$         5           31866         ROBERT BERDINSTSON         555 QUAKER LN         0.0893         BYPASS         1870AS         1011457A         11/2         6         5         6         0.00         5         5         0.00         5         5         0.00         <	903 110060	Phy BOYS	375 QUAKER IN	02893	BYPASS	No. of the Control of	1830911341	701161604	5 4		-	446.25		\$ 446.25	2 2	300.00	175.00
13800   ROBERT BERNDESTROM   1530 QUANCIR LIN   13800   1877ASS   1870ASS	115457	PEP BOYS	37S QUAKER IN	02893	PROIII	COMPOUND METER	1460629192	701161604A	ac	\$ 600	-	2 289.00 \$	2,289,00		-	\$ 000 000 1	175.00
117137         BALISE SUBARU         56 QUAKER LN         02893         BYPASS         COMPOUND METER         1850650624         70284654A         117         \$ 600.00         \$ 5           117137         BALISE SUBARU         561 QUAKER LN         02893         PROIII         COMPOUND METER         165157008         70292928         6         \$ 600.00         \$ 5           117132         QYM ILC         679 QUAKER LN         02893         PROIII         COMPOUND METER         167328         17         \$ 600.00         \$ 5         5         6         \$ 600.00         \$ 5         5         1670         17         17         17         17         17         17         17         17         17         17         17         17         17         18         18         17         18         18         18         17         18         18         18         17         18 <t< td=""><td>313805</td><td>KOBERT BUNDESTSON ROBERT BENDESTSON</td><td>555 QUAKER IN</td><td>02893</td><td>PROIII</td><td>COMPOUND MISTER</td><td>1820218931</td><td>70142457A 70142457</td><td>11/2</td><td>\$ 600</td><td></td><td>372.00</td><td>2 289 00</td><td>\$ 372.00</td><td>es es</td><td>300,00</td><td>175.00</td></t<>	313805	KOBERT BUNDESTSON ROBERT BENDESTSON	555 QUAKER IN	02893	PROIII	COMPOUND MISTER	1820218931	70142457A 70142457	11/2	\$ 600		372.00	2 289 00	\$ 372.00	es es	300,00	175.00
197153   QVM I.L.C   679   QUAKUR L.N   0.8831   BYPASS   1852357940   702392954   1172   <b>s</b>   <b>s</b>   116783   SPEDCHATACURA   883   QUAKUR L.N   0.2893   BYPASS   COMPOUND METHER   116783   8001652   1173   <b>s</b>   60.00   <b>s</b>   5   116783   SPEDCHATACURA   883   QUAKUR L.N   0.2893   BYPASS   COMPOUND METHER   116783   8001652   <b>s</b>   60.00   <b>s</b>   5   5   5   5   5   5   5   5   5	117138	BALISE SUBARU BALISE SUBARU	561 QUAKER LN 561 QUAKER LN	02893	BYPASS	COMPOUND METER	1850650624	70284654A	2/1	009	_	372.00	2 280 00	\$ 372.00	\$ 0	300.00	175.00
117152   QYM I I L.   1679   QUAKER I N   Q2833   PROIII   COMPOUND METER   1852358449   70232329   6   5   660.00   S   5     116783   SPEDIOKATA CURA   883   QUAKER I N   02833   PROIII   COMPOUND METER   116783   800162A   11.2   S   600.00   S   5     116784   SPEDIOKATA CURA   883   QUAKER I N   02833   PROIII   COMPOUND METER   116782   8001632   S   600.00   S   5     131655   SPEDIOKATA CURA   883   QUAKER I N   02833   BYPASS   13663   733665   11.2   S   600.00   S   5     131656   SPEDIOKATA CURA   883   QUAKER I N   02833   BYPASS   13663   733665   11.2   S   600.00   S   5     131656   SPEDIOKATA   116782   11	117153	QVMILC	679 QUAKER LN	02893	HYPASS		1852357940	70292929A	1 1/2		-	372.00		\$ 372.00	\$ 0	300.00	000000
1167R.2         SPEETKRAFT ACURA         883 QUAKER I.N         02893         PROIII         COMPOUND METER         1167R2         6 600.00         \$           313663         SPEEDCRAFT NUSSAN         885 QUAKER I.N         02893         BYPASS         313663         70135996A         11/2         \$	117152	QVM LLC SPEEDCRAFT ACURA	679 QUAKER I.N 883 QUAKER I.N	02893	PROIII	COMPOUND METER	116783	70292929 8001692A	11/2	909		2,289.00 \$	2 289 00	\$ 372.00	64 e4	300.00	175.00
SPEIDCRAFT NISSAN 885 OUAKER LN 02893 BYPASS SPEIDCRAFT NISSAN 885 OUAKER LN 62893 BYPASS SPEIDCRAFT NISSAN 885	116782	SPIEDCRAFT ACURA	883 QUAKER I.N	02893	PROIII	COMPOUND METER	116782	8001692	٠		_	2 289 00 \$	2,289.00		_	\$ 00 000 1	175.00
SAS CIVILATE STATE CONTROL CON		SPJJJDCRAFT NISSAN SPFFDCR AFT VISSAN	885 QUAKER IN	02893	BYPASS	מפונים אירים.	313663	70135096A	1 1/2	007	<b>19</b>	372.00	00000	\$ 372,00	9 9	300.00	

			1850708484 70149873A	02893 BYPASS 1850708484 70149873A 2
145X/4	Ĺ	1834677291	COMPOUND METER 1834677291	PROIU COMPOUND METER 183467291
59617		7	1834630382 1834629603	COMPOUND METER 1834629603
	31970145A		115390 3	115390 3
70159922A		1440613477	1440613477	1440613477
70056463.0	1440613476	COMPOUND MISTER 1440613476		COMPOUND MISTER
70056463	1852905452	COMPOUND MISTISR 1852905452	COMPOUND MISTISR	PROIII COMPOUND MISTIER
70182782A	1562896704			BYPASS
70182782	1810245636	COMPOUND METTER 1810245636	COMPOUND MEITER	PROUIT COMPOUND METTER
70000755A	1832261921			BYPASS
70000755	1831400970	COMPOUND METER 1831400970	COMPOUND METTER	TRUFLO COMPOUND METER
70110904A	1470803508	1470803508 1470803508		STEEL OF CONTROL
70109328A	206829	1041	NOTITING CRAIGO TRAIGO	BYPASS
	206828	COMPOUND METER 20682	COMPOUND METER	COMPOUND METER
7	116028	1100	BYPASS 1160	
_	116	COMPOUND METER	COMPOUND METER	PROUI COMPOUND METER
12	1543141190			BYPASS
	1543106722	COMPOUND METTER 1543106		COMPOUND METTER
101 70198124A	1820554101	1820554	BETTERN CITY IN STATE	BILLIAN CIN INCOME NO.
,	1548421362			BYPASS
548488452 70148648	1548	COMPOUND METER. 1548.		COMPOUND METER
.543341932 70292560A	1543			
	1834	COMPOUND MITHR 1834	COMPOUND MITTIE	PROIII CCOMPOUND METHR
~	1850			BYPASS
850586392 70296612 541009590 70290687A	1830	CONSTITUTE ISSUED IN THE ISSUE		CCMGCCOND MILTIER
	154	COMPOUND METHIR	COMPOUNDMETHR	PROUL COMPOUND METHR
-	181			
810486384 70173392	18104	COMPOUND METER 18104		COMPOUND METER
1461116733 49931876A	14611	14611		BYPASS
6732 49931876	1461116732	COMPOUND MITTER 146111	COMPOUND MITTER	COMPOUND MITTER
570 70319207A	1540632570	15406325	13YPASS 15406325	
10 70319207	1540620210	COMPOUND METER 15406202		COMPOUND METER
28 70371152A	1562471028	15624710	BYPASS   15624710	
	1562522006	COMPOUND METTIR 15625220		PROIII COMPOUND METHIR
_	1550054804	1550054		
40 70361628	1550053940	COMPOUND METER 15500539		COMPOUND METER

MAZ ACCT#	CUSTOMER NAME	ST# STREET	TOWNCIT	METER TYPE		# I A LOTO	The state of the s					REPLACEMENT	NT	pa3
563 107847	COVENTRY PUBLIC SCHOOLS	CIVIEI NOSIVIOL 89	02816	TRIDENT		SERIAL#	METERN	SIZE	TESTING COST	METER		LABOR	ASSESSMENT	E
564 107270	WEST WARWICK SCHOOL DEPARTMENT	I BROWN ST	02893	TRICIBL			13006740			MI I		\$ 1,80	s	175 00
204933	WEST WARWICK CIVIC CENTER	106 HAY ST	02893	TURBINI			1940100	-	30000			8 180	69	175.00
566 113353	LEISURE VILLAGE INC	1620 NOOSENECK HILL RID	02816	TURBINE	Updating to Prollf with Broass		CU548907	I		6 676500		5 220	69 E	175.00
567 113269	SIERWOOD VALLEY TRAILER PARK	1 STERWOOD VALLEY IN	02816	ROCKWELL	Updating to ProIII with Bypass		28103149					4,000.00	A 6	00.57
268 311697	PINE GLEN CONTOMINUM	MEDIERD	02818	ROCKWELL			1226593			64			A 6	00 00
311535	GGRI EAST GREENWICELLLC	5600 POST RD	02818	TURBINE			1198545	9	300.00	5				00 20
570 310125	446600 AIMCO MIAL STOP #1	1 CEDAR POND DR	02886	TURBINE			1190581	×	300 00	64		ı		176.00
571 311370	WARWICK EXECUTIVE PARK CONDO	250 CENTERVILLE RD	02886	TURBINE		1541990566	31987933	9	300 00	69		1		175.00
572 311193	EAGLES NEST CONDOMINIUM	MAJOR POTITER RU	02886	TURBINE			66039474	9	300 00					175.00
573 113620	QUAKER VALLEY CONDO ASSOC	650 EAST GREENWICH AVE	02893	TURBINE			1183547	9	300 00	٠				000 321
574 206266	GOVERNOR'S FILL CONDO ASSOC	GOVERNOR'S HILL DR	02893	TURBINE		1850496222	31972544	9	30000			200000		175.00
575 113663	COWESETT MEALDOWS CONDO ASSOC	KRISTEE CIRCLE	02893	TURBINE			1183725	9	30000	3		4,000,00	n 6	175.00
576 114111	ITIDIDEN VALLEY CONDO ASSOC	OLD QUAKER LANE	02893	TURBINE			1226545	9	300 00	69		400000	9 6	75.00
577 113312	GENESIS MS #8	10 WOODLAND DR	02816	ROCKWELL			66302032	,	300 00	64		100000	9 6	25.00
578 312729	TOWN OF EAST GREENWICH - FIRE	COURTHOUSELN	02818	TURBINE			70006230	-	300.00	64		3 000 00	6	175.00
579 312250	FAITH BAPUST CHURCH.	765 COMMONWEALTH AVE	02886	TURBINE		1830606255	31943155	4	300.00	64		Г	9 64	175.00
580 206060	J ARTHUR TRUDEAU MEM CENTER	250 COMMONWEALTH	02886	TURBINE		1563468020	31925793	4	\$ 00.000			3 000 00		175.00
312183	BRIGGS DRIVE ASSOC LLC	10 BRIGGS DR	02818	ROCKWELL			1997358	10	300.00	65			69	175.00
								TOTALS S	S 5,700.00 S	S 131,639,55		\$ 71,800.00	S	3.325.00

PRESENT VALUE OF ALL LARGE METER UME, BYPASS, AND SINGLE REGISTER	s	
VALUE OF ALL BYPASS METERS NEEDING REPLACEMENT	S	
VALUE OF ALL LARGE METER UME AND SINGLE REGISTER NEEDING REPLACEMENT	s	
TOTAL LARGE METER UME AND SINGLE REGISTER REPLACEMENT LABOR	s	
TOTAL SITE SURVEY COST	S	
TOTAL METER TESTING COST	s	

732,958.60 69,623.81 528,550.05 303,610.00 51,625.00 172,500.00



The Bank of New York Mellon Trust Company, N.A.

KENT COUNTY WATER AUTHORITY ATTN: FINANCE DIRECTOR 1072 MAIN STREET WEST WARWICK, RI 02893-3724

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### **Account Statement**

Statement Period 01/01/2020 Through 01/31/2020

Account 667674

Base Currency = USD

KCWA METER REPLACE D 4611

**CLIENT SERVICE MANAGER: MICHAEL JONES** 

BNYM CORPORATE TRUST 500 ROSS STREET PITTSBURGH, PA 15262 412-234-8492

MICHAEL.JONES1@BNYMELLON.COM

### **Account Overview**



Percent of all Investments	Asset Classification	Market Value
100% ③	CASH AND SHORT TERM	5,586,049.31
100%	TOTAL OF ALL INVESTMENTS	5.586.049.31

### **Summary of Assets Held by Asset Classification**

Asset Classification	Market Value	Cost	Accrued Income	Estimated Annual Income	Market Yield
CASH AND SHORT TERM	5,586,049.31	5,586,049.31	0.00	82,400.43	1.48 %
ACCOUNT TOTALS	5,586,049 .31	5,586,049.31	0.00	82,400.43	1.48 %

### Summary of Cash Transactions by Transaction Category

		<b>Current Period</b>		Year-to-D	ate
Transaction Category	Income	Principal	Realized Gains/Losses	Income	Principal
OPENING BALANCE	0.00	0.00		0.00	0.00
DIVIDENDS SALES AND REDEMPTIONS OTHER CASH ADDITIONS OTHER CASH DISBURSEMENTS	7,085.67 0.00 0.00 7,085.67 -	0.00 262,378.33 198,752.34 269,464.00 -	0.00 0.00 0.00 0.00	7,085.67 0.00 0.00 0.00 7,085.67 -	0.00 262,378.33 198,752.34 269,464.00 -

n 045152 a 02 t DOM i PD3 s

Docket No. 5012 **Second Set of Data Requests** 

**Division of Public Utilities and Carriers** February 18, 2020

2-2 Reference Mr. Simmons' testimony at page 5, lines 25 and 26. Please explain whether the

hiring of additional personnel to meet the project deadline affects the cost of the meter

installation. If yes, please explain how the cost of the meter installation program will be

impacted, and who absorbs any additional costs or receives any savings.

**RESPONSE:** 

This does not affect the cost of meter installation. A meter installation contractor was

awarded the bid to install meters for KCWA based on a publicly advertised request for

proposal (RFP) process. They are required to complete the project as proposed in the

contract documents. The installation contractor is continually adjusting their staffing needs

internally to meet the requirements and deadlines which has no financial implications to

KCWA.

Docket No. 5012

**Second Set of Data Requests Division of Public Utilities and Carriers** 

February 18, 2020

2-3. Reference Mr. Simmons' testimony at page 8, lines 21 through 31. Please explain what

KCWA will do with the old meters that are replaced under the program. Identify any

salvage value that could be received and explain how it is reflected in the cost of the

program.

**RESPONSE:** 

The large and medium sized meter replacement program being presented entails swapping

out only the unitized measuring elements (UME) for 95% of the meters. The UME is a

factory certified measurement cassette that can be inserted into an existing meter body.

The salvage value of replaced unitized measuring elements would be based on the

commodity pricing of uncleaned brass and bronze bodied elements. The lowest

conservative pricing on which we based our estimates is \$0.75/lb. The UME is mostly

plastic and stainless steel except for the bonnet. All salvaged brass and/or bronze revenue

will be reallocated to the restricted meter account in the same way that it is being done

under the current program. The large and medium UME estimated salvage value would be

approximately \$8,576.00 for 222 UMEs weighing an approximate total of 11,435 lbs.

The bypass meters that are replaced would be treated the same way as under the current

program for salvage. The estimated salvage value of the proposed 212 bypass meter being

replaced is \$ 4,090.00. The estimated salvage value of 17 single register meters is

\$2,232.00

The total estimated salvage value for all three components is \$14,898.00. All salvaged

brass and/or bronze revenue will be reallocated to the restricted meter account in the same

way that it is being done under the current program.

### Docket No. 5012 Second Set of Data Requests

### Division of Public Utilities and Carriers February 18, 2020

- 2-4. Reference Mr. Simmons' testimony at page 14.
  - a. Please explain whether the present value of the meters of \$5,185,164 is the value of the meters only or whether it includes installation costs.

### **RESPONSE:**

It does not include installation costs. It is the present value of all small meters sized 2-inches and less based on the bid pricing, the current cost of unitized measuring elements and bypass meters for all large and medium compound meters, and direct equivalent replacement cost using Neptune TruFlo compound meters to replace single register meters.

b. If a restricted meter account is authorized and funded, will that account earn interest?
If yes, what is the estimated interest rate. If no, why would the account not earn interest?

### **RESPONSE:**

If an ongoing restricted meter AMR account is authorized it would earn interest to the same level that the current restricted account that was set up for the present meter change out program. We would keep that account open with our trustee, BNY Mellon, rename it, and fund it at the lowered level. The current market yield for that account is 1.48% (See attached BNY account statement for the KCWA Meter Replacement D 4611). Factoring in an annual interest yield of 1.48% compounding monthly at 0.123% would reduce to annual allocation from \$390,538 to \$378,540 (See attached Future Meter Change Out Scheduling with Utilization Rate and Interest Earnings).

### KCWA DOCKET 5012 DIV 2-4.b

## BNY MELLON

The Bank of New York Mellon Trust Company, N.A.

KENT COUNTY WATER AUTHORITY ATTN: FINANCE DIRECTOR 1072 MAIN STREET WEST WARWICK, RI 02893-3724

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### **Account Statement**

Statement Period 01/01/2020 Through 01/31/2020

Account 667674

Base Currency = USD

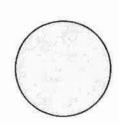
KCWA METER REPLACE D 4611

**CLIENT SERVICE MANAGER: MICHAEL JONES** 

BNYM CORPORATE TRUST 500 ROSS STREET PITTSBURGH, PA 15262 412-234-8492

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ACCOUNT TOTALS	5,586,049.31	5,586,049.31	0.00	82,400.43	1.48 %

### **Summary of Cash Transactions by Transaction Category**

		<b>Current Period</b>	Year-to-Date		
Transaction Category	Income	Principal	Realized Gains/Losses	Income	Principal
OPENING BALANCE	0.00	0.00		0.00	0.00
DIVIDENDS SALES AND REDEMPTIONS OTHER CASH ADDITIONS OTHER CASH DISBURSEMENTS	7,085.67 0.00 0.00 7,085.67 -	0.00 262,378.33 198,752.34 269,464.00 -	0.00 0.00 0.00 0.00	7,085.67 0.00 0.00 7,085.67 -	0.00 262,378.33 198,752.34 269,464.00 -

	2020 202	1	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Jan	\$ 221,9	07.05 \$	606,802.03 \$	997,432.27	\$ 1,393,883.21	\$ 1,796,241.59	\$ 2,105,289.06	\$ 2,248,537.59 \$	2,444,869.14	\$ 2,559,787.73	\$ 2,083,171.03	\$ 1,876,934.53 \$	1,667,624.93	1,455,196.46	\$ 1,239,602.63	\$ 1,020,796.27 \$	798,729.53 \$	573,353.81 \$	344,619.81	\$ 112,477.49
Feb	\$ 253,7	54.64 \$	639,134.33 \$ 1,	,030,246.34	\$ 1,427,186.24	\$ 1,830,040.86	\$ 2,139,469.49	\$ 2,282,894.70 \$	2,479,468.38	\$ 2,594,528.70	\$ 2,117,324.18	\$ 1,910,833.32 \$	1,701,265.58	\$ 1,488,575.11	\$ 1,272,715.38	\$ 1,053,639.16 \$	831,298.53 \$	605,644.85 \$	376,628.75	\$ 144,200.12
Mar	\$ 285,6	51.52 \$	671,506.50 \$ 1,	.,063,100.88	\$ 1,460,530.34	\$ 1,863,881.82	\$ 2,173,692.07	\$ 2,317,294.17 \$	2,514,110.30	\$ 2,629,312.53	\$ 2,151,519.45	\$ 1,944,773.92 \$	1,734,947.71	\$ 1,521,994.92	\$ 1,305,868.96	\$ 1,086,522.55 \$	863,907.71 \$	637,975.72 \$	408,677.16	\$ 175,961.87
Apr	\$ 317,5	97.74 \$	703,918.60 \$ 1,	,095,995.95	\$ 1,493,915.57	\$ 1,897,764.51	\$ 2,207,956.86	\$ 2,351,736.07 \$	2,548,794.94	\$ 2,664,139.25	\$ 2,185,756.90	\$ 1,978,756.38 \$	1,768,671.38	\$ 1,555,455.95	\$ 1,339,063.44	\$ 1,119,446.50 \$	896,557.10 \$	670,346.46 \$	440,765.10	\$ 207,762.80
May	\$ 349,5	73.35 \$	736,370.67 \$ 1,	,128,931.58	\$ 1,527,341.97	\$ 1,931,688.99	\$ 2,242,263.91	\$ 2,386,220.45 \$	2,583,522.36	\$ 2,699,008.93	\$ 2,220,036.57	\$ 2,012,780.75 \$	1,802,436.65	1,588,958.25	\$ 1,372,298.86	\$ 1,152,411.06 \$	929,246.76 \$	702,757.13 \$	472,892.62	\$ 239,602.94
Jun	\$ - \$ 381,5	38.39 \$	768,862.76 \$ 1,	.,161,907.83	\$ 1,560,809.59	\$ 1,965,655.31	\$ 2,276,613.28	\$ 2,420,747.36 \$	2,618,292.61	\$ 2,733,921.61	\$ 2,254,358.52	\$ 2,046,847.08 \$	1,836,243.56	\$ 1,622,501.87	\$ 1,405,575.26	\$ 1,185,416.27 \$	961,976.73 \$	735,207.77 \$	505,059.76	\$ 271,482.36
Jul	\$ 31,583.91 \$ 413,6	12.93 \$	801,394.93 \$ 1,	,194,924.76	\$ 1,594,318.50			. , ,	, ,		. , ,	\$ 2,080,955.43 \$	, ,	·	. , ,		994,747.08 \$	767,698.43 \$	537,266.57	\$ 303,401.09
Aug	\$ 63,206.76 \$ 445,7	36.99 \$	833,967.23 \$ 1,	,227,982.41	\$ 1,627,868.73	\$ 2,033,713.68	\$ 2,345,439.15	\$ 2,489,928.99 \$	2,687,961.81	\$ 2,803,876.21	\$ 2,323,129.46	\$ 2,115,105.85 \$	1,903,982.52	\$ 1,689,713.28	\$ 1,472,251.25	\$ 1,251,548.87 \$	5 1,027,557.84 \$	800,229.16 \$	569,513.11	\$ 335,359.19
Sep	\$ 94,868.62 \$ 477,8	70.64 \$	866,579.69 \$ 1,	,261,080.82	. , ,	<u> </u>			, ,	· · · ·				, ,		\$ 1,284,676.35 \$	1,060,409.07 \$	832,800.02 \$	601,799.41	\$ 367,356.71
Oct	\$ 126,569.54 \$ 510,0		899,232.38 \$ 1,	, - ,	\$ 1,695,093.38							\$ 2,183,533.09 \$					1,093,300.81 \$	865,411.04 \$	634,125.54	\$ 399,393.69
Nov	\$ 158,309.54 \$ 542,2	56.88 \$	931,925.34 \$ 1,	.,327,400.17	\$ 1,728,767.90	<u> </u>						\$ 2,217,810.02 \$		· · · · · · · · · · · · · · · · · · ·		· · · · · ·	1,126,233.12 \$	898,062.29 \$	666,491.53	\$ 431,470.18
Dec	\$ 190,088.70 \$ 574,5	9.57 \$	964,658.62 \$ 1,	,360,621.20	\$ 1,762,483.95	\$ 2,170,334.78	\$ 2,483,600.94	\$ 2,628,804.92 \$	2,827,816.51	\$ 2,944,303.81	\$ 2,461,180.99	\$ 2,252,129.23 \$	2,039,962.43	\$ 1,824,634.17	\$ 1,606,097.34	\$ 1,384,304.14 \$	1,159,206.05 \$	930,753.80 \$	698,897.44	\$ 463,586.23
Collections	\$ 190,088.70 \$ 574,5	9.57 \$	964,658.62 \$ 1,	,360,621.20	\$ 1,762,483.95	\$ 2,170,334.78	\$ 2,483,600.94	\$ 2,628,804.92 \$	2,827,816.51	\$ 2,944,303.81	\$ 2,461,180.99	\$ 2,252,129.23 \$	2,039,962.43	1,824,634.17	\$ 1,606,097.34	\$ 1,384,304.14 \$	1,159,206.05 \$	930,753.80 \$	698,897.44	\$ 463,586.23
Utilization	\$ - \$	- \$	- \$	-	\$ -	\$ 99,184.05	\$ 269,378.13	\$ 218,492.40 \$	302,726.97	\$ 895,243.86	\$ 618,103.50	\$ 618,103.50 \$	618,103.50	618,103.50	\$ 618,103.50	\$ 618,103.50 \$	618,103.50 \$	618,103.50 \$	618,103.50	\$ 462,858.90
Balance	\$ 190,088.70 \$ 574,5	9.57 \$	964,658.62 \$ 1,	,360,621.20	\$ 1,762,483.95	\$ 2,071,150.73	\$ 2,214,222.81	\$ 2,410,312.52 \$	2,525,089.54	\$ 2,049,059.95	\$ 1,843,077.49	\$ 1,634,025.73 \$	1,421,858.93	\$ 1,206,530.67	\$ 987,993.84	\$ 766,200.64 \$	5 541,102.55 \$	312,650.30 \$	80,793.94	\$ 727.33

15 Series Meter Install Year (meters left in system during first round of installations)

		Market
Monthly	Market	Yield
Allocation	Yield	(monthly)
\$ 31,545.00	1.48%	0.1233%

Install Year	No. of installs
201	5 345
201	6 937
201	7 760
201	8 1053
201	9 3114
2020 Projected	15435
6/30/202	1 5525
Total	27169

	Funding Year	Restr	icted Collection	Cumulative
ſ	6-30 to12/31/2020	\$	189,270.00	\$ 189,270.00
	2021	\$	378,540.00	\$ 567,810.00
ı	2022	\$	378,540.00	\$ 946,350.00
	2023	\$	378,540.00	\$ 1,324,890.00
	2024	\$	378,540.00	\$ 1,703,430.00

Otal	2/109					2024	Ş	376,340.00	\$ 1,703,430.00
Install Year Next						_			
Generation	No of installs	Install Year	Age	Installs per wk	Annu	ual funding needs	₹estr	ricted Collection	Cumulative
2025	345	2015	10	7	\$	99,184.05	\$	378,540.00	\$ 2,081,970.00
2026	937	2016	10	18	\$	269,378.13	\$	378,540.00	\$ 2,460,510.00
2027	760	2017	10	15	\$	218,492.40	\$	378,540.00	\$ 2,839,050.00
2028	1053	2018	10	20	\$	302,726.97	\$	378,540.00	\$ 3,217,590.00
2029	3114	2019	10	60	\$	895,243.86	\$	378,540.00	\$ 3,596,130.00
2030	2150	2020	10	41	\$	618,103.50	\$	378,540.00	\$ 3,974,670.00
2031	2150	2020	11	41	\$	618,103.50	\$	378,540.00	\$ 4,353,210.00
2032	2150	2020	12	41	\$	618,103.50	\$	378,540.00	\$ 4,731,750.00
2033	2150	2020	13	41	\$	618,103.50	\$	378,540.00	\$ 5,110,290.00
2034	2150	2020	14	41	\$	618,103.50	\$	378,540.00	\$ 5,488,830.00
2035	2150	2020	15	41	\$	618,103.50	\$	378,540.00	\$ 5,867,370.00
2036	2150	2020	16	41	\$	618,103.50	\$	378,540.00	\$ 6,245,910.00
2037	2150	2021	16	41	\$	618,103.50	\$	378,540.00	\$ 6,624,450.00
2038	2150	2021	17	41	\$	618,103.50	\$	378,540.00	\$ 7,002,990.00
2039	1610	2021	18	31	\$	462,858.90	\$	378,540.00	\$ 7,381,530.00
TOTALS	27169				\$	7,810,815.81	\$	7,381,530.00	

Shortfall if account \$ (429,285.81)

earns no interest

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- 2-5. Please explain how KCWA plans to replace meters beginning in 2025.
  - a. Will the replacement of meters be done based upon failure of meters or other performance problems?

### **RESPONSE:**

Both. The positive displacement nutating disk meters are accurate and reliable metrology that meets and exceeds all AWWA testing standards for accuracy and performance. However, ultrasonic meters are showing better performance for the full range of flow across all size classes. Future price reductions in ultrasonic metering technology will most likely justify early replacement of the meter size classes of 1.5-inch and 2-inch meters because of the low flow accuracy of an ultrasonic meter compared to its positive displacement counterparts in this size class. The smaller meters, 1-inches and less, the expense does not outweigh the performance gains at the current time. As the technology advances and the costs come down within these size classes, we would expect parity in the cost benefit in these meters in the very near future.

b. Will replacement of meters begin regardless of failure or performance problems? In other words, will meters be replaced based on age in addition to any problem meters?

### **RESPONSE:**

The primary drivers for replacement will be age and/or use. The manufacturer recommends replacement after 180,000 cubic feet (CF) of water has passed through 5/8" x 3/4" and 5/8" straight meters. KCWA currently has 22,442 of these meters installed the system.

c. For meters that have not failed or developed problems, will KCWA begin replacing them? What criteria will be used to select meters for replacements?

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**RESPONSE:** 

Yes. KCWA is primarily going to be replacing the meters based on age and use.

However, if it is found that ultrasonic meters can optimize performance, and the cost

benefit analysis of using that technology across all size classes makes sense, then

KCWA would employ that metric in determining replacements.

d. Please provide the total expected number of meters to be replaced as of 2025.

**RESPONSE:** 

There were 345 meters installed in 2015 and we would replace those meters in 2025.

e. Please provide the total expected number of meters to be replaced, by year, beginning

in 2025, and the expected annual cost of replacement.

**RESPONSE:** 

Please see anticipated schedule of installs and the anticipated cost presented in the

Future Meter Change Out Programming Worksheet attached Div 2-1.

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- 2-6 Reference Mr. Simmons' testimony at page 15, lines 8 through 11.
  - a. What percentage of meters fail or need replacement within the 5-year period mentioned on line 9?
  - b. What percentage of meters fail or need replacement within the next 5 to 10 years?

### **RESPONSE:**

a. & b. The failure rate is provided below.

Year	Estimated Failure Rate Electronics (% of units shipped) <sup>1,2</sup>	Estimated Failure Rate Meters (% of units shipped) <sup>1,2</sup>	Number of Meters
1	0.30%	0.10%	98
2	0.30%	0.10%	98
3	0.30%	0.10%	98
4	0.40%	0.20%	147
5	0.40%	0.20%	147
6	0.40%	0.20%	147
7	0.50%	0.20%	172
8	0.50%	0.20%	172
9	0.60%	0.20%	197
10	0.60%	0.30%	221

<sup>&</sup>lt;sup>1</sup>Manufacture supplied failure rate schedule.

<sup>&</sup>lt;sup>2</sup>Based on 24,582 meters sized 5/8" -2" installed in the system

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2-7. Based upon the discussion on page 16, lines 1 through 23 of Mr. Simmons' testimony, it appears that the meter replacement program will have the added benefit of a reduction in prolonged water leaks. Please confirm. Also, please provide:

### **RESPONSE:**

A benefit of a smart meter is the ability to detect and flag continuous prolonged water leaks that are occurring after the meter. The meters can store/log up to 90 days of usage data that can be acquired via software on a laptop, tablet, or smartphone via remote communication. The most common leak occurrence in homes and businesses are toilet leaks which can easily go unnoticed because it is leaking into the toilet bowl. KCWA will be shifting to a drive-by AMR system which will allow for the system to be read in a couple of days for all customers. Today, there are 90 or more days where a leak can present itself without the customer or KCWA knowing. KCWA will be continuing to bill quarterly until all AMR metering systems are in place and the rates are adjusted in a future filing with the PUC to account for the additional cost of monthly billing. However, KCWA will be surveilling the metering system more frequently to try and proactively detect problems within the quarter. The new AMR meter technology allows our meter staff to perform temporal consumptive use analysis, meaning we can perform a monthly mock reading to check the system for problems and not use it for billing. This will allow our staff to quickly analyze flagged accounts generated by the meter reading software on a map displaying various outliers such as high or zero consumption amounts, tamper, or misreads to determine outliers via flags presented by the meter reading software. These data can be presented to the customer in person, emailed, or presented via a customer portal. This will help proactively identify water leakage after the meter. We will be able to leverage the full power of the systems once we can go onto monthly billing because we will also have the customers armed with more information and comparative data to help determine where there may be problems.

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a. KCWA's annual system lost and unaccounted for water percentage for the calendar year 2016 through 2019.

### RESPONSE:

Below are the annual system losses and unaccounted for water percentage for the last four fiscal years which encompasses calendar years 2016, 2017, 2018, and half of 2019.

	FY 2016 (Gallons)	FY 2017 (Gallons)	FY 2018 (Gallons)	FY 2019 (Gallons)
Total Water Produced/Purchased	3,016,312,444	2,821,070,918	2,785,166,000	2,799,462,467
Less Total Metered (Sold/Billed) Water	2,671,261,000	2,490,073,000	2,389,877,000	2,467,363,520
Less Non-Billed Water Use	63,115,882	183,676,313	107,340,899	62,149,974
Total Non-Metered (Not Sold) Water Use	281,935,562	147,321,605	287,948,101	269,948,973
% Non-Metered Water (Total Non- Metered/Total Water)	9%	5%	10%	10%

b. Please indicate what the expected lost and unaccounted for water percentage will be upon completion of the current meter replacement program that is expected to end in 2021.

### RESPONSE:

Based on an average meter slippage percentage of 2% across all meter sizes it was approximated that the volume of water registered will increase by 200,371,490 gallons. This amount would decrease the average percentage of unaccounted for water from 9% to

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7%. We offer the following table that displays water produced/purchased vs water sold over the last four fiscal years.

FISCAL YEARS 2016-2019	TOTAL			
Total Water Produced/Purchased	11,422,011,829	Gallons		
Total Metered (Sold/Billed) Water	10,018,574,520	Gallons		
Total Non-Metered Water Use (Not Sold)	416,283,068	Gallons		
Total Non-Billed Water	987,154,241	Gallons		
Percentage Non-Metered Water	9%			
(Total Non-Metered/Total Water)				
Estimated Meter Slippage Percentage	2%			
Estimated Meter Slippage Recovery New Meters	200,371,490	Gallons		
Percentage Non-Metered Water Adjusted After New Meters	7%			

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2-8. Reference Mr. Bebyn's testimony at page 8, line 17, please provide the basis of the wholesale rate of \$3.86 per HCF.

### **RESPONSE:**

The wholesale rate has been calculated using the cost of service model from Docket 4611 with the modification for including the projected wholesale sales consumption. This calculation is presented on Schedule DGB-RY-COS-3. That schedule first determines how much Base/Max Day/Max Hour costs are allocated between wholesale and the individual retail classes based upon their usage and demand factors. Those factors are applied to the rate year revenue requirement that have allocated Base/Max Day/Max Hour using the cost of service model. When calculating the rate, no allocation for the meter replacement program was included since this only impacts retail customers.

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2-9. Reference Schedule DGB-TY-1, page 1. Please explain the nature of the "6.9% of Water Prot Fee". Who pays this fee and why?

### **RESPONSE:**

This revenue account is related to the Water Quality Protection Fund Surcharge and State Surcharge that water suppliers are required by state law to charge on their water sales. The Water Quality Protection Fund Surcharge (.01054 per hundred gallons) is used by State to provide additional grants to water utilities to protect raw water sources. In addition to the Water Quality Protection Fund Surcharge, the State requires a surcharge of "1.664 money" (\$0.01664 per hundred gallons). The State uses this money to fund its water activities (administration, regulation, advisory). To cover the administrative cost of collecting and remitting the water quality protection charge (WQPC) the State provided a fee of \$0.00202 per hundred gallons to the water utilities that billed and collected the surcharges. When added to the other surcharges this fee of \$0.00202 per hundred gallons is that 6.9% of the total surcharges Kent allowed to retain. The surcharges are charged on all retail water sales except elderly owned households that have registered for the exemption per the law governing the Water Quality Protection Fund Surcharge.

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2-10. Please provide Schedule DGB-TY-3a on a calendar year basis in Excel Format with the formulae intact.

### **RESPONSE:**

The Excel Format of Schedule DGB-TY-3a on a calendar year basis has already been provided for in the response to Division 1-1. The adjustments on Schedule -TY-3a were not only adjustments to add one year of adjustments but eighteen months of adjustments to provide the calendar year 2018. As I mentioned in my testimony, I utilized the Rate Year from Docket 4611. That Rate Year is calendar year 2018 as presented in Mr. Woodcock's testimony from the Docket 4611-Step Rate Filing (filed 10-27-17) on Schedule "CW Step 1 Increase". The beginning revenue requirement on that schedule was FY 2017 and the Rate Year for that schedule is CY 2018. As a result, that schedule calculates that 18-month adjustment. Unfortunately, that schedule only showed the total revenue requirement for the FY 2017 Rate Year from the first part of Docket 4611 adjusted with the Step 1 increase adjustments without the detailed line items. This was done since the increase would only be an across the board increase.

This current filing had a requirement to utilize the costs of service model. Since the cost of service model requires the detail line items, there was a need to breakdown the adjustments from the Step 1 increase. Schedule DGB-TY-3a was necessary to provide the reviewer to see the detailed line item adjustments from the Docket 4611-Step Rate Filing. That schedule also includes the adjustment from the Docket 4641 pass-through expenses.

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2-11. Please confirm that the reference to the "Step 2" increase on Schedules DGB-TY-3a and 3b are in error.

### **RESPONSE:**

The term Step 2 could be seen as an error given that the Docket 4611 step increase has been referred to as the step 1 increase like referenced to Mr. Woodcock's schedules from that filing. I was in my footnotes attempting to refer to the second increase from Docket 4611. The first being the base part of the filing and the second being the Step Increase. To clarify this issue, I agree to refer to the step increase as the "Step 1" increase and this is the only step increase in that docket after the base part of the filing.

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2-12. Reference Schedule DGB-RY-2, please explain why no adjustment was proposed in deriving the billing elements for the Rate Year.

### **RESPONSE:**

The billing elements for the Rate Year utilized no adjustments for the Test Year numbers since those were already established using normalized elements from the Docket 4611 filing. Docket 4611 use a four-year average of the prior 4 years to Docket 4611. I did in preparation of this filing review the four-year average of FY 2016 through FY 2019 elements and found them fairly consistent with the figures from the previous filing. For example, the total water sales consumption for the four-year average ending FY 2019 was 3,191,267 which is within 1.3% of the Rate Year consumption in Docket 4611 of 3,151,618.

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2-13. Please provide the billing elements for calendar year 2015, 2016 and 2017 in the format presented on Schedule DGB-RY-2.

### **RESPONSE:**

See attached. Please note elements were only available for Customer and Consumption charges for those years. Fire protection values were only available in revenue numbers for those years. I did however include the fire protection billing elements for FY 2019 which were readily available.

Service Charge:	CY 2015	CY 2016	CY 2017	FY 2019
Quarterly	Number	Number	<u>Number</u>	
5/8 & 3/4	88,430	88,614	88,951	
1	14,546	14,609	14,651	
1 1/2	1,284	1,311	1,315	
2	2,011	1,989	2,008	
3	60	47	48	
4	345	352	349	
6	341	359	257	
8 & up	255	267	284	
<u>Monthly</u>				
5/8 & 3/4	60	60	60	
1	12	12	12	
1 1/2	108	108	108	
2	96	96	96	
3	12	12	12	
4	36	36	36	
6	84	84	84	
8 & up	60	60	60	
	<u>Number</u>	<u>Number</u>	Number	
Consumption Charge:	100/cu.ft.	100/cu.ft.	100/cu.ft.	
Proposed	100/64.11.	100/64.11.	100/04.11.	
Small (5/8-2" meters)	3,072,683	2,905,286	2,790,424	
Medium (3&4" meters)	64,675	54,859	47,419	
Large (6" & up meters)	260,099	256,758	249,469	
Large (o a ap meters)	200,033	230,730	243,403	
Fire Protection:				Number
Public Hydrants				2,378.00
# bills				40.00
Private Fire Protection				
4 in				11.00
6 in				90.00
8 in				19.00
10 in				-
12 in				4.00
hydrant				113.00
Tryatant				113.00

Total

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2-14. Please provide a breakdown of rate case expenses for this proceeding and show where those expenses are reflected in the cost of service.

### **RESPONSE:**

KCWA was grated rate case expense which totaled \$152,698 in Docket 4611. The step 1 increase added an additional \$5,182 for inflation. The total of these two factors equals the \$157,881 Test Year amount which was unadjusted for the Rate Year in this filing. The original granted expense of \$152,698 was comprised of \$130,000 for its legal fees, consultants, and DPUC fees for Docket 4611 rate case, as well as \$50,000 for additional regulatory costs associated with a Providence Water rate case and a wholesale pass-through proceeding in Docket 4641. KCWA is amortized these costs over a three-year period. These were added to the DPUC assessment of \$92,698. The step 1 increase for additional \$5,182 inflation was meant to be applied to the DPUC Assessment for a total of \$97,880.

As previously mentioned, no changes were made for this filing as this filing used the prior filing's Rate Year as this filing Test Year. The DPUC Assessments portion will still be needed for this filing as well as the portion related for Providence filing since Providence has just filed within the past few months. The \$130,000 (\$43,333 amortized per year) for Docket however would be overstated for this filing. KCWA estimated that only half of the \$130,000 would be need for legal fees, consultants, and DPUC fees for this Docket rate case. Thus, the Rate Year could have been adjusted to \$136,215.

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2-15. Please indicate whether KCWA plans to issue new bonds or refinance existing bonds during the current fiscal year or within the rate year and explain whether the new bond issue has been reflected in the cost of service.

### **RESPONSE:**

KCWA does not plan to issue new bonds or refinance existing bonds during the current fiscal year or within the rate year.