



The Metropolitan District  
water supply · environmental services · geographic information

**WATER BUREAU  
REGULAR MEETING  
WEDNESDAY, MARCH 1, 2023  
5:00 PM**

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<b><u>Location</u></b>	<b><u>Commissioners</u></b>	
Board Room	Adil (VC)	Lewis
District Headquarters	Anderson	Mandyck
555 Main Street, Hartford	Buell	Pane (C)
	Desai	Petoskey
	DiBella (Ex-Officio)	Salemi
Dial in #: (415)-655-0001	Gardow	Taylor
Access Code: 43808661#	Holloway	
<a href="#">Meeting Video Link</a>	<b>Quorum: 7</b>	

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1. CALL TO ORDER
2. PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS
3. APPROVAL OF MEETING MINUTES OF NOVEMBER 14, 2022
4. CONSIDERATION AND POTENTIAL ACTION RE: AUTHORIZATION FOR 145 NORTH ROAD ROCKY HILL TO CONNECT TO CROMWELL PUBLIC WATER SYSTEM
5. REPORT RE: ADVANCED METER INFRASTRUCTURE SOLE SOURCE
6. REPORT RE: METER INSTALLATION PROGRAM & NO ACCESS SHUTOFFS
7. REPORT RE: SOUTH WINDSOR EXCLUSIVE SERVICE AREA ISSUE WITH CT WATER
8. DISCUSSION RE: ELECTRIC VEHICLE CHARGING STATIONS
9. COMMISSIONER REQUESTS FOR FUTURE AGENDA ITEMS
10. OPPORTUNITY FOR GENERAL PUBLIC COMMENTS
11. ADJOURNMENT

**WATER BUREAU  
REGULAR MEETING**  
555 Main Street, Hartford  
Monday, November 14, 2022

**Present:** Commissioners Andrew Adil, Peter Gardow, Jean Holloway, Diane Lewis, Jackie Gorsky Mandyck, Dominic Pane, Pasquale Salemi, Alvin Taylor, and District Chairman William DiBella (9)

**Remote  
Attendance:** (0)

**Absent:** Commissioners Clifford Avery Buell, Jon Petoskey, and Michael Carrier (3)

**Also**

**Present:** Commissioner Richard Bush  
Commissioner Joan Gentile  
Commissioner Bhupen Patel  
Scott W. Jellison, Chief Executive Officer  
Christopher Stone, District Counsel  
John S. Mirtle, District Clerk  
Christopher Levesque, Chief Operating Officer  
Kelly Shane, Chief Administrative Officer  
Susan Negrelli, Director of Engineering  
David Ruttly, Director of Operations  
Robert Schwarm, Director of Information Technology (Remote Attendance)  
Tom Tyler, Director of Facilities  
Michael Curley, Manager of Technical Services  
Lisa Remsen, Manager of Budget and Analysis  
David Baker, IT Consultant (Remote Attendance)  
Dylan Pecego, IT Consultant (Remote Attendance)  
Carrie Blardo, Assistant to the Chief Executive Officer (Remote Attendance)  
Victoria Escoriza, Executive Assistant  
Joseph Szerejko, Independent Consumer Advocate (Remote Attendance)

**CALL TO ORDER**

The meeting was called to order by Chairman Pane at 5:03 PM.

**PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS**

No one from the public appeared to be heard.

### **APPROVAL OF MEETING MINUTES**

***On motion made by Commissioner Taylor and duly seconded, the meeting minutes of August 22, 2022 were approved.***

### **ELECTION OF VICE CHAIRMAN**

Chairman Pane called for the election of the Vice Chairperson. Commissioner Taylor placed Commissioner Andrew Adil's name in nomination and the nomination was duly seconded.

There being no further nominations, the nominations were closed. Commissioner Andrew Adil was elected Vice Chairperson of the Water Bureau for the remainder of 2022 and 2023.

### **REVISIONS TO DISTRICT WATER RATES**

To: Water Bureau for consideration on November 14, 2022

The 2023 budget in support of Water Operations calls for the water use rate to decrease from \$4.09 per hundred cubic feet (CCF) to **\$3.80/CCF**. The changes will become effective January 1, 2023. A discussion of several rates that comprise the proposed schedule for 2023 and the recommendations pertaining to each follows:

#### **Water Used Charge – Treated Water**

Staff recommends that the rate charged for the use of treated water based on actual metered consumption decrease from \$4.09 per CCF to **\$3.80** per CCF.

#### **CURRENT RATE**

**\$4.09/CCF**

#### **PROPOSED RATE**

**\$3.80 / CCF**

#### **Customer Service Charge**

Revenues from this customer service charge are intended to support a portion of the fixed operating, maintenance and debt costs associated with water operations. ***There are no proposed changes to the Customer Service Charge for 2023.***

<u>SIZE OF METER</u>	<u>MONTHLY BILLING</u>
5/8"	\$14.98
3/4"	\$14.98
1"	\$14.98
1 1/2"	\$48.60
2"	\$77.80
3"	\$145.89
4"	\$243.55
6"	\$486.07
8"	\$771.16
10"	\$1,777.77
12"	\$1,896.38

### **Surcharge Outside The Metropolitan District**

A fixed "surcharge" rate is added to all accounts for service outside the boundaries of the District. The surcharge is based on the size of the meter that serves each delivery point. Revenues from this charge are for the reimbursement of assets deployed. The surcharge rates have been set at the same rates as the Customer Service Charges. ***There are no proposed changes to the surcharge for 2023.***

<u>SIZE OF METER</u>	<u>MONTHLY BILLING</u>
5/8"	\$14.98
3/4"	\$14.98
1"	\$14.98
1 1/2"	\$48.60
2"	\$77.80
3"	\$145.89
4"	\$243.55
6"	\$486.07
8"	\$771.16
10"	\$1,777.77
12"	\$1,896.38

### **Water Used Charge – Untreated Water**

The District provides untreated water to other agencies and water companies for a fixed rate based on actual consumption. The current rate for this untreated or "raw" water is \$1.50 per hundred cubic feet of consumption. ***It is recommended that the charge for untreated water remain at the rate of \$1.50 per hundred cubic feet.***

### **Surcharge Outside the Metropolitan District for Capital Improvements**

A surcharge is added to the water rate to recover the cost of major capital improvements and/or upgrades such as water main extensions, pump stations, etc. in non-member towns. The surcharge is calculated based on the aggregate hydraulic capacity of each meter size in each non-member town.

### **Private Fire Protection Charge**

Rates for private fire protection are charged to all fire service accounts, including combination services, based on the size of the service connection. Staff recommends monthly fire protection charges to remain unchanged as follows:

<u>SIZE OF CONNECTION</u>	<u>MONTHLY CHARGE</u>
1"	\$5.00
2"	\$22.85
3"	\$33.75
4"	\$60.00
6"	\$135.00
8"	\$240.00
10"	\$375.00
12"	\$540.00
16"	\$960.00
20"	\$1,500.00
24"	\$2,160.00

**Conclusion**

Staff believes that the foregoing rate change recommendations are justified, reflect the sound financial administration that has earned the District support among credit rating agencies and financial advisors, and are consistent with the policy direction of the Commission.

It is **RECOMMENDED** that it be:

**Voted:** That the Water Bureau, acting under Section 5-4 of the District Charter, approves the following 2023 water rates without change from the 2022 rates:

**SEC. W1b CUSTOMER SERVICE CHARGE**

The CUSTOMER SERVICE CHARGE is a service charge applicable to all metered services and services to be metered. The charge shall be determined from the size of each meter installed or to be installed on the premises, as follows:

<u>SIZE OF METER</u>	<u>MONTHLY BILLING</u>
5/8"	\$14.98
3/4"	\$14.98
1"	\$14.98
1 1/2"	\$48.60
2"	\$77.80
3"	\$145.89
4"	\$243.55
6"	\$486.07
8"	\$771.16
10"	\$1,777.77
12"	\$1,896.38

**SEC. W1c SURCHARGE OUTSIDE THE METROPOLITAN DISTRICT**

In towns outside the limits of The Metropolitan District, in addition to charges under SEC. W1a and W1b, there shall be a surcharge determined from the size of the meter installed on the premises, as follows:

<u>SIZE OF METER</u>	<u>MONTHLY BILLING</u>
5/8"	\$14.98
3/4"	\$14.98
1"	\$14.98
1 1/2"	\$48.60
2"	\$77.80
3"	\$145.89
4"	\$243.55
6"	\$486.07
8"	\$771.16
10"	\$1,777.77
12"	\$1,896.38

**SEC. W1d CHARGES FOR UNTREATED WATER**

Charges for untreated water sold to water companies and agencies under agreement between The Metropolitan District and such companies or agencies, or by other arrangement, shall be a rate of \$1.50 per hundred cubic feet.

**SEC. W6f CHARGES FOR PRIVATE FIRE PROTECTION SERVICE**

<u>SIZE OF CONNECTION</u>	<u>MONTHLY CHARGE</u>
1"	\$5.00
2"	\$22.85
3"	\$33.75
4"	\$60.00
6"	\$135.00
8"	\$240.00
10"	\$375.00
12"	\$540.00
16"	\$960.00
20"	\$1,500.00
24"	\$2,160.00

**Further**

**Voted:** That the Water Bureau, acting under Section 5-4 of the District Charter, establishes revised water rates effective with the meter readings rendered on and after January 1, 2023, as set forth in the following "REVISIONS TO WATER SUPPLY ORDINANCES."

**Further**

**Voted:** That following the public hearing held on November 7, 2022, as required by Special Act 01-3 adopted by the General Assembly of the State of Connecticut, and Section 2-14 of the Compiled Charter of The Metropolitan District, the Water Bureau recommends to the District Board, through the Committee on MDC Government, approval of the following "REVISIONS TO WATER SUPPLY ORDINANCES" by the enactment of said proposed ordinances. (Additions are indicated in red and deletions by strikethrough).

**REVISIONS TO WATER SUPPLY ORDINANCES****SEC. W1a WATER USED CHARGE (TREATED WATER)**

For customers which do not resell treated water, the WATER USED CHARGE is the quantity of water used as read at the meter, as follows:

<u>BILLS RENDERED MONTHLY</u>	<u>RATE</u>
	<del>\$4.09</del> <b>\$3.80</b> per 100 Cubic Feet

The WATER USED CHARGE for such customers subject to § S12x of The Metropolitan District Sewer Ordinances who purchase more than 802ccf of water per day, as averaged over a monthly billing period, as follows:

For each of the first 802ccf of water used per day:

<u>BILLS RENDERED MONTHLY</u>	<u>RATE</u>
	<del>\$4.09</del> <b>\$3.80</b> per 100 Cubic Feet

For each ccf of water used per day in excess of 802ccf:

<u>BILLS RENDERED MONTHLY</u>	<u>RATE</u>
	<del>\$3.34</del> <b>\$3.05</b> per 100 Cubic Feet

For customers which, by agreement with the District or otherwise, resell treated water, the WATER USED CHARGE is the quantity of water used as read at the meter, as follows:

<u>BILLS RENDERED MONTHLY</u>	<u>RATE</u>
	<del>\$4.09</del> <b>\$3.80</b> per 100 Cubic Feet

**SEC. W1f SURCHARGE OUTSIDE THE METROPOLITAN DISTRICT FOR CAPITAL IMPROVEMENTS**

In towns outside the limits of The Metropolitan District for which capital improvements or layout and assessment projects are constructed, in addition to the charges set forth in SEC. W1a, W1b and W1c, there shall be a surcharge on the water rates determined from the size of the meter installed on the premises, as follows:

1. On or before the end of each fiscal year, The Metropolitan District shall determine the actual cost of each capital improvement constructed for each non-member town and the net cost (cost less assessments) of layout and assessment projects constructed for each non-member town. The costs and/or net costs, as applicable, shall be allocated to the towns for which the work was performed and shall be a surcharge on the water rates of the users located in such towns.
2. The annual surcharge to be added to each user's water rate shall equal the total amount of the costs and/or net costs, as applicable, allocated to the town in which such user is located [excluding costs which the town has paid as set forth in Section W1f(3)] amortized over a twenty year period using an interest rate computed by the District which approximates the District's long-term cost of funds for its General Obligation Bond portfolio-multiplied by the percentage of hydraulic capacity of each user's meter size (based on the American Water

Works Association meter size capacity) of the aggregate hydraulic capacity of all meters in such town. The surcharge shall be billed in either quarterly or monthly installments, as applicable, commencing with the first bill sent out in the fiscal year succeeding the fiscal year in which the work was performed and continuing over the twenty year period.

3. The District shall, as soon as possible after the completion of each capital improvement project or separate phase thereof, provide to the non-member towns for which a capital improvement was constructed a compilation of the costs associated with the construction of such project(s). If, on or before the end of the District's fiscal year in which such construction was completed, a non-member town agrees to pay and does in fact pay all or a portion of the cost of a capital improvement constructed for such town, then the amount paid by such town shall be deducted from the total amount of costs and/or net costs allocated to such town as described in Section W1f(1) and used to calculate the individual surcharges as set forth in Section W1f(2).

### MONTHLY BILLING

SIZE OF METER	Farmington		Glastonbury		South Windsor		Manchester	
	<u>2022</u>	<u>2023</u>	<u>2022</u>	<u>2023</u>	<u>2022</u>	<u>2023</u>	<u>2022</u>	<u>2023</u>
5/8"	\$2.26	<b>\$1.84</b>	\$1.76	<b>\$1.63</b>	\$1.33	<b>\$1.46</b>	\$2.84	<b>\$2.79</b>
3/4"			\$2.64	<b>\$2.44</b>	\$2.00	<b>\$2.19</b>		
1"	\$4.52	<b>\$3.68</b>	\$3.53	<b>\$3.25</b>	\$2.67	<b>\$2.92</b>	\$5.68	<b>\$5.57</b>
1 1/2"	\$9.04	<b>\$7.36</b>	\$7.05	<b>\$6.50</b>	\$5.33	<b>\$5.85</b>		
2"	\$169.44	<b>\$138.08</b>	\$132.24	<b>\$121.93</b>	\$99.95	<b>\$109.67</b>		
3"	\$395.36	<b>\$322.20</b>	\$308.55	<b>\$284.51</b>	\$233.21	<b>\$255.90</b>	\$496.79	<b>\$487.54</b>
4"	\$677.76	<b>\$552.33</b>	\$528.95	<b>\$487.73</b>	\$399.79	<b>\$438.68</b>		
6"	\$903.68	<b>\$736.45</b>			\$533.05	n/a	\$1,135.52	<b>\$1,114.38</b>
8"	\$2,259.20	<b>\$1,841.12</b>						

Respectfully submitted,



Scott W. Jellison  
Chief Executive Officer

***On motion made by District Chairman DiBella and duly seconded, the report was received and resolution adopted by unanimous vote of those present.***



## REVISIONS TO WATER ASSESSMENT RATES AND MISCELLANEOUS WATER CHARGES

To: Water Bureau for Consideration on November 14, 2022

In support of the annual water operating budget, staff is submitting these rates in conjunction with the revisions to the proposed Fiscal Year 2023 water rates and other peripheral charges associated with the delivery and sale of water as part of the annual budget adoption process.

Staff has reviewed these rates in light of the costs associated with them on a 'typical' model basis and makes the following recommendations:

It is **RECOMMENDED** that it be:

**Voted:** That the Water Bureau hereby adopts the following schedule of fees effective January 1, 2023:

### Water Assessment Rates and Miscellaneous Water Charges

	<u>CURRENT</u>	<u>PROPOSED</u>
<b><u>Main Pipe Assessment</u></b>	\$95/ft	\$95/ft
<b><u>Service Pipe Taps</u></b>		
<b>Domestic</b> (includes spacer and meter costs):		
1" Service Tap with 5/8" Meter	\$910	\$910
1" Service Tap with 3/4" Meter	\$925	\$925
1-1/2" Service Tap with 1" Meter	<del>\$995</del>	<b>\$1,100</b>
2" Service Tap with 1-1/2" Meter	<del>\$1,890</del>	<b>\$2,015</b>
4" Service Tap with 2" Meter	<del>\$2,000</del>	<b>\$2,200</b>
4" Service Tap with 3" Meter	\$3,640	\$3,640
6" Service Tap with 4" Meter	\$4,190	\$4,190
8" Service Tap with 6" Meter	\$5,970	\$5,970
10" Service Tap with 8" Meter	\$15,850	\$15,850
12" Service Tap with 10" Meter	\$18,120	\$18,120
12" Service Tap with 12" Meter	\$18,810	\$18,810
<b>Fire Service</b>		
2" Fire Service Tap	<del>\$750</del>	<b>\$1,440</b>
4" and larger Fire Service Tap	<del>\$1,100</del>	<b>\$1,200</b>
<b>Hydrants</b>		
Installed after the main	\$11,600	\$11,600
Hydrant Maintenance	<del>\$145</del>	<b>\$150</b>
Hydrant Relocation		
Fire Flow Testing	\$400	\$400

	<b><u>CURRENT</u></b>	<b><u>PROPOSED</u></b>
<b><u>Special Meter Charges and Deposits:</u></b>		
<b>Hydrant Meters</b>		
Administrative and meter reading fee, including connection and inspection fees + actual water use to be billed	\$1,500	\$1,500
Hydrant Meter Deposit	\$2,000	\$2,000
<b>Replacement of Damaged District Meters</b>		
5/8" meter	\$360	\$360
3/4" meter	\$375	\$375
1" meter	\$445	\$445
1-1/2" meter	\$1,140	\$1,140
2" meter	\$1,250	\$1,250
3" meter	\$2,630	\$2,630
4" meter	\$3,180	\$3,180
6" meter	\$4,960	\$4,960
8" meter	\$14,840	\$14,840
10" meter	\$17,110	\$17,110
12" meter	\$17,800	\$17,800
Hydrant meter assembly	\$2,000	\$2,000
Meter box (5/8" - 1")	\$1,750	\$1,750
Meter pit (1 – 1/2" and Larger)	Actual Cost* + Overhead	Actual Cost* + Overhead
Radio transmitter unit	\$200	\$200
<b>Spacer Charges</b>		
5/8", 3/4"	\$160	\$160
1"	\$165	\$165
1-1/2"	\$225	\$225
2" & larger	\$250	\$250
<b>3<sup>rd</sup> Party Damage to District Infrastructure Repair or Replacement (e.g. public hydrants)</b>	Actual Cost* + Overhead	Actual Cost* + Overhead
<b>Lien Release Fee per Lien</b> (includes delinquent account review)	\$90	\$90
<b>Customer Check Returned for Insufficient Funds</b>	\$60	\$60
<b>Water Turn-on after Shut-off for Non-Payment or Ordinance Violation</b>	<del>\$125</del>	<b>\$170</b>

\* The charge will be the District's cost of material, labor and equipment used, plus overhead at prevailing rates. In circumstances where this procedure for charging a customer would significantly delay the final billing, the District will use an appropriate estimate of its cost.

	<u>CURRENT</u>	<u>PROPOSED</u>
<b>Water Turn-on after Shut-off for Non-Payment or Ordinance Violation</b> (subsequent event in same year)	\$225	\$225
<b>Customer Private Property Service Call*</b> <i>e.g. lack of water pressure, leak investigation, customer requested water service off/on, etc.</i> <i>*First customer service call is free of charge. The \$125 fee will be charged for subsequent calls within a rolling 12-month time period.</i>	\$125	\$125
<b>Inspection Service Calls – After Normal Work Hours and Scheduled Overtime/Emergency Inspections</b> <i>After Normal Work Hours are Monday to Friday 4pm to 8am or holidays/weekends.</i>	<del>\$325</del>	<b>\$415</b>
<b>Cross Connection Inspection Fee per building</b> <i>Required by CT Dept. of Public Health. Per DPH regulation, this inspection is required either annually or every five years. The fee will be billed monthly in advance in the amount of either \$2.50 per month (5-year inspection required) or \$12.50 per month (annual inspection required).</i>	\$150	\$150
<b>Backflow Device Testing per device</b> <i>Required by CT Dept. of Public Health but customer may hire private contractor to perform test</i>	<del>\$90</del>	<b>\$115</b>
<b>Failure to Properly Test/Maintain Backflow Device or Allow Access for Cross Connection Inspection Resulting in CT DPH Violation</b>	\$225	\$225
<b>Administrative Review for Water Services</b> <i>Includes but not limited to the following individual services; availability and capacity analysis, assessment/connection charge calculations, encroachment permits, abandonment of infrastructure, Engineering/Environmental survey and documentation request, new hydrant installation fee by developer or other (per hydrant). The Administrative Review fee</i>	<del>\$540</del>	<b>\$600</b>

*shall be paid for each individual service item.*

	<u>CURRENT</u>	<u>PROPOSED</u>
<b>Bulk Water Truck Convenience Fee</b> <i>Per load fixed fee including administrative, water, equipment maintenance, and inspection.</i>	<del>\$50 per load</del>	<b>\$75 per load</b>
<b>Tampering with meter, hydrant or water supply</b>		
First offense	\$500	\$500
Subsequent offenses	\$1,000	\$1,000
<b>Water Service Installation Charge</b> <i>MDC will install the customer's water service from the public water main to the property line.</i>	\$150 per foot	\$150 per foot

Respectfully submitted,



Scott W. Jellison  
Chief Executive Officer

***On motion made by District Chairman DiBella and duly seconded, the report was received and resolution adopted by unanimous vote of those present.***

### **OPPORTUNITY FOR GENERAL PUBLIC COMMENTS**

No one from the public appeared to be heard.

### **ADJOURNMENT**

The meeting was adjourned at 5:26 PM

ATTEST:

John S. Mirtle  
District Clerk

\_\_\_\_\_  
Date of Approval

## **WATER SERVICE TO 145 NORTH ROAD, ROCKY HILL**

To: Water Bureau for consideration on March 1, 2023

On January 24, 2023, the District Clerk received a request from the property owners of 145 North Road in Rocky Hill ("Property") to be allowed to connect to the Town of Cromwell's public drinking water system. The closest District water main would require approximately 1,800ft of water main installation for which the District does not have any plans to install water mains in this area. The costs to serve a single property would be cost prohibitive.

Staff reviewed the property owners request and recommend permitting the property owner to connect to the Town of Cromwell's public drinking water system.

It is **RECOMMENDED** that it be:

VOTED: That the Water Bureau recommends to the District Board passage of the following resolution:

RESOLVED: That the District hereby grants permission to the property owner of 145 North Road in Rocky Hill to connect to the public drinking water system of the Town of Cromwell for so long as the District does not have water mains serving the property.

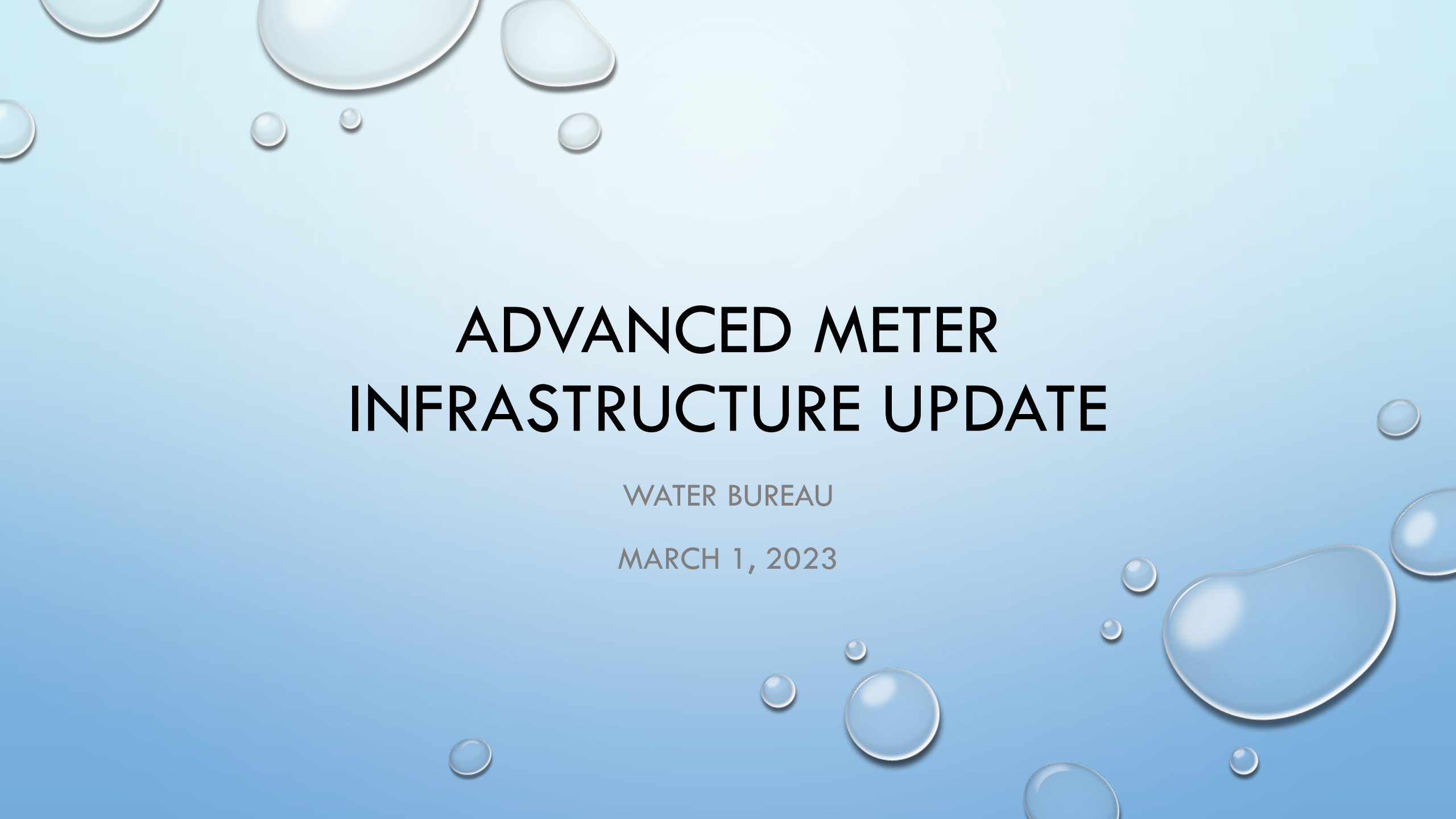
FURTHER  
RESOLVED: If at any time in the future the property owners intend to make additional connections to the Town of Cromwell's public drinking water system or subdivide the Property, before making additional connections to Cromwell's public drinking water system, the property owner shall notify the District and the District may evaluate offering water service to the Property or subdivided properties.

FURTHER  
RESOLVED: The District does not waive it's Exclusive Service Area by permitting the Property to connect to the Town of Cromwell's public drinking water system.

Respectfully submitted,



Scott W. Jellison  
Chief Executive Officer

The background of the slide is a light blue gradient. It is decorated with numerous realistic water droplets of various sizes. Some droplets are at the top left, some are scattered in the middle, and a larger cluster of droplets is on the right side. The droplets have highlights and shadows, giving them a three-dimensional appearance.

# ADVANCED METER INFRASTRUCTURE UPDATE

WATER BUREAU

MARCH 1, 2023

# OVERVIEW & PILOT SUMMARY

## WATER CUSTOMERS

- APPROXIMATELY 100,000 ACTIVE METERED WATER CUSTOMERS
- ITRON 60W & 100W READING DEVICES INSTALLED, DRIVE BY READING
- AVERAGE DEVICE AGE 9.5 YEARS, 20 YEAR LIFESPAN
- APPROXIMATE MATERIAL COST (METER & DEVICE) SYSTEMWIDE \$17.2M – EXISTING SYSTEM

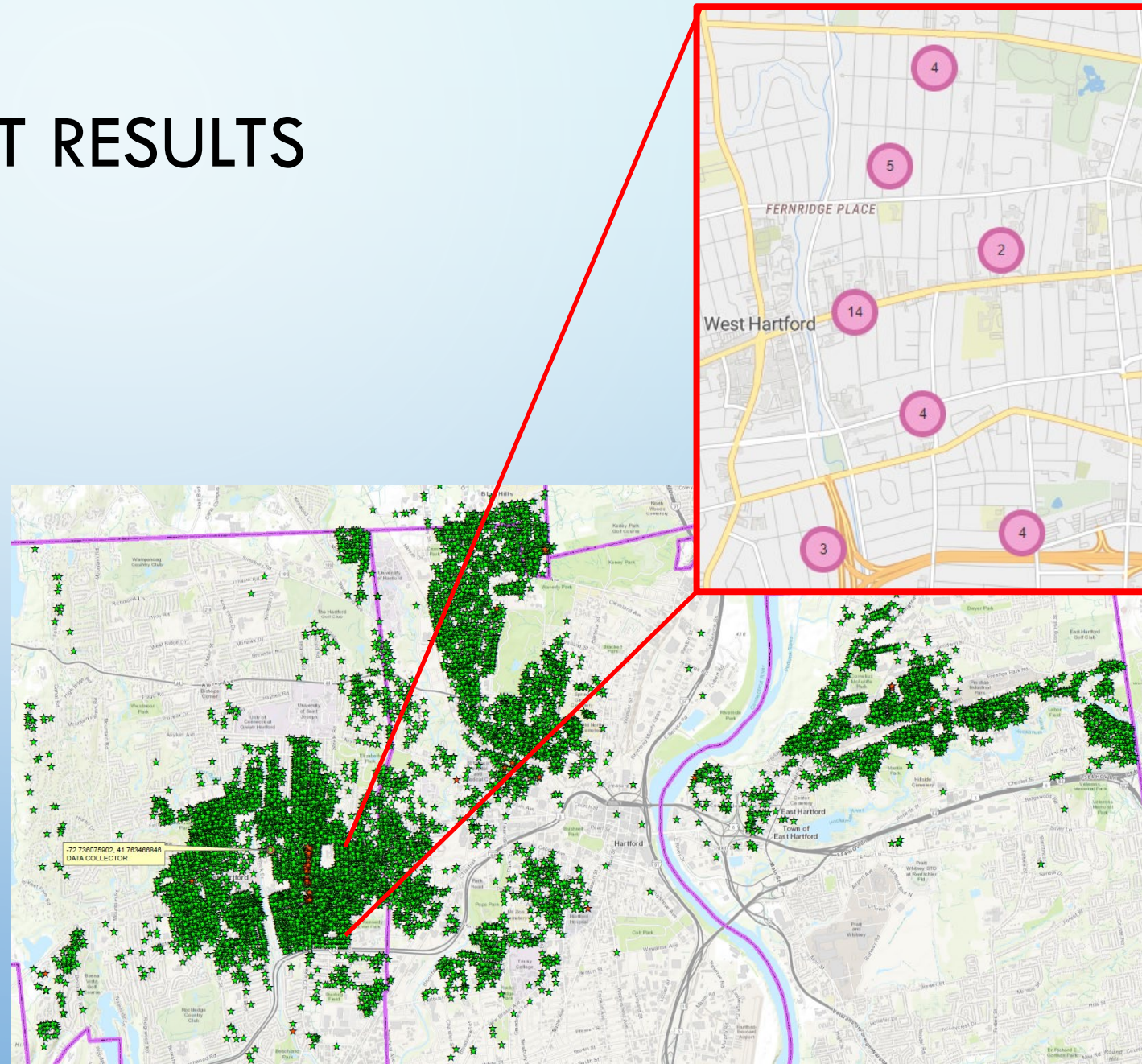
## AMI PILOT PROGRAMS

- KAMSTRUP FIXED NETWORK - COMPLETED
- NEPTUNE LORA FIXED NETWORK - COMPLETED
- ITRON – CNG FIXED NETWORK & CELLULAR – COMPLETED



# ITRON PILOT RESULTS

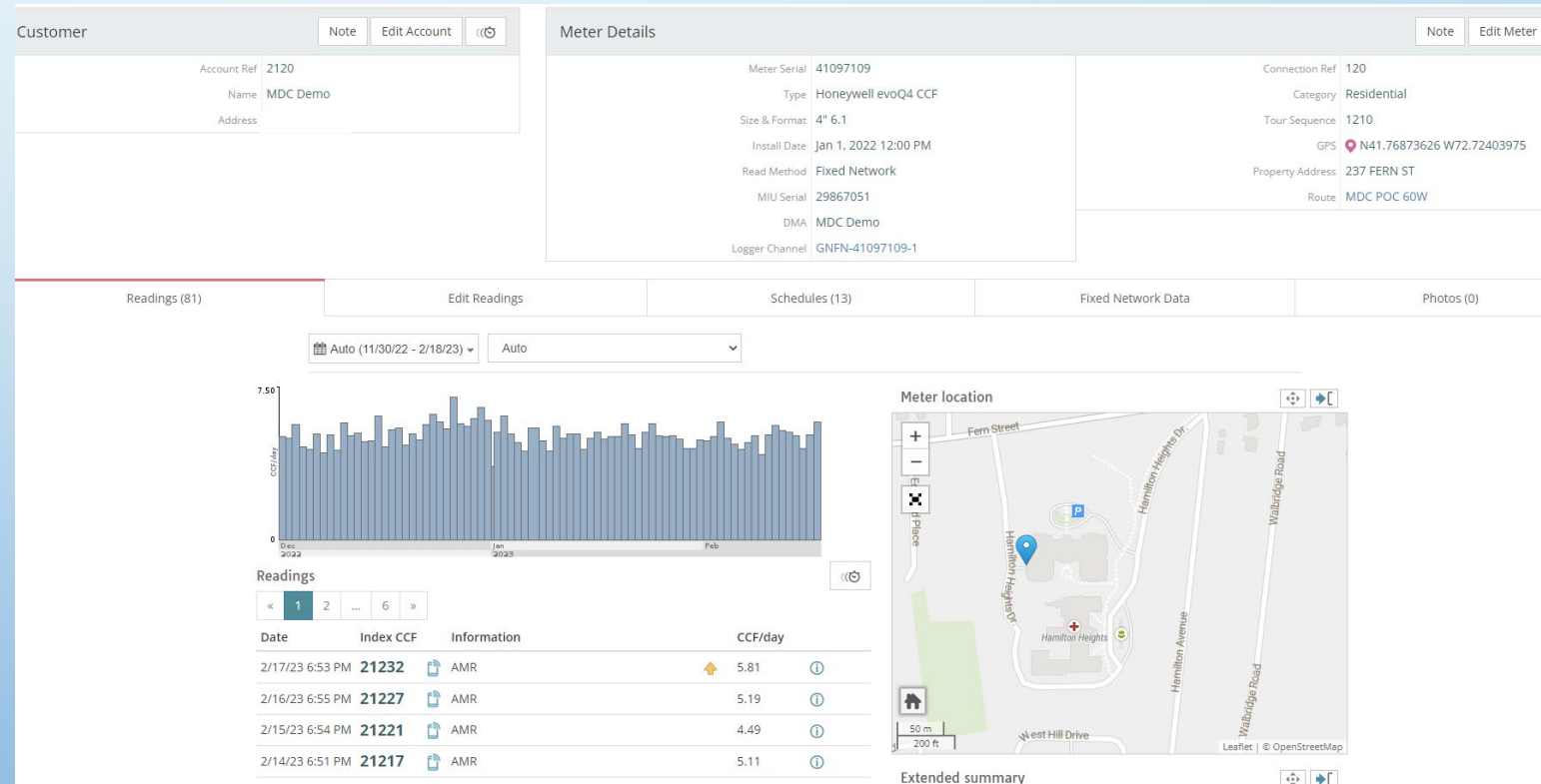
- TESTED 3 DATA COLLECTORS PICKING UP 60W READINGS
- DAILY READINGS FROM OVER 10,000 WATER ACCOUNTS
- OVER 60% OF ACCOUNTS COULD BE READ DAILY
- FOCUSED PILOT ON 36 ACCOUNTS IN WEST HARTFORD
- SET UP TEST SYSTEM TO RECEIVE READINGS





# METER DATA MANAGEMENT SYSTEM - TEST

- PILOT INCLUDED:
  - 15 - 60W UNITS (OLDEST)
  - 21 - 100W UNITS (CURRENT)
  - 3 - 500W UNITS (NEW – CELLULAR)
- DAILY READS FOR 60W, HOURLY FOR 100W & 500W
- REVIEWED MDM SYSTEM RESULTS WITH STAFF



# BENEFITS OF ITRON PILOT

- 60% + READ DATE FROM START
- MAXIMIZE LIFESPAN OF EXISTING READING DEVICES (100,000 DEVICES, AVERAGE AGE 9.5 YRS)
- MINIMIZE TIME TO SYSTEMWIDE AMI
- NO FIXED NETWORK CONSTRUCTION REQUIRED
- REQUIRE ONLY ONE READING SOFTWARE MOVING FORWARD
- LOWEST COST OF OWNERSHIP
- MONITOR, IDENTIFY AND RESPOND TO FAILURES, LEAKS AND TAMPERS DAILY
- CONTINUE TO OPEN BID METER CONTRACTS

# 15 YEAR SYSTEM COST

## ITRON

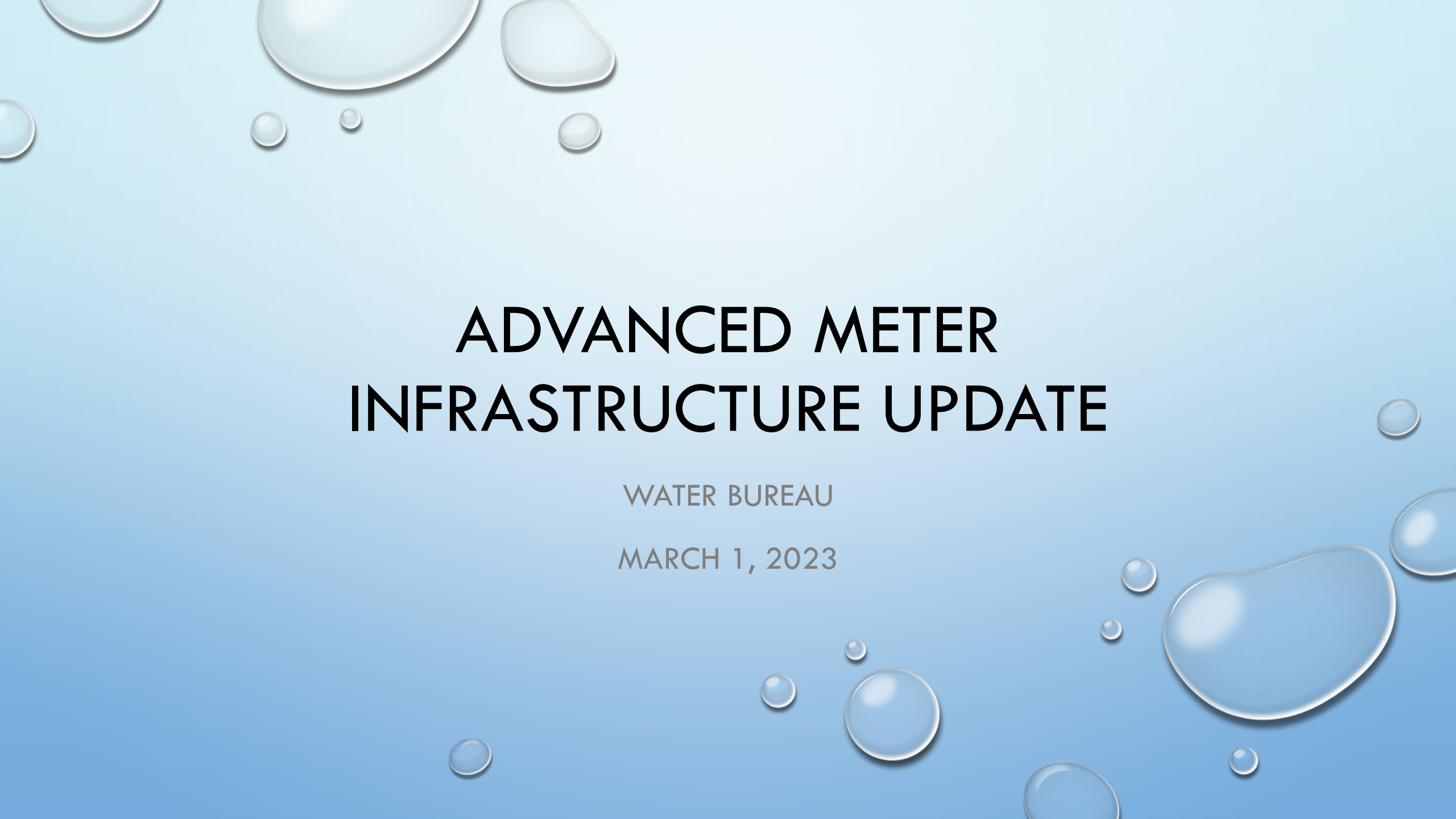
- \$28.8M FULL SYSTEM COST
- INCLUDES METER COST, INDEPENDENTLY BID
- ALL METERS READ VIA TEMETRA MDM – 1 SYSTEM
- POTENTIAL TO DELAY 60W & 100W IF READ BY CNG

## NEPTUNE

- \$ 32.7M FULL SYSTEM COST
- INCLUDES METER COST, INDEPENDENTLY BID
- MAINTAIN ITRON & NEPTUNE FOR READING – 2 SYSTEMS
- REQUIRES READING DEVICE REPLACEMENT FOR FIXED NETWORK

## KAMSTRUP

- \$35.5M FULL SYSTEM COST
- INCLUDES METER COST FROM KAMSTRUP
- MAINTAIN ITRON & KAMSTRUP READING – 2 SYSTEMS
- REQUIRES METER & READING DEVICE REPLACEMENT FOR FIXED NETWORK

The background of the slide is a light blue gradient. It is decorated with numerous realistic water droplets of various sizes. Some droplets are at the top left, some are at the bottom right, and others are scattered in the center. Each droplet has a highlight and a shadow, giving it a three-dimensional appearance.

# ADVANCED METER INFRASTRUCTURE UPDATE

WATER BUREAU

MARCH 1, 2023

# WATER METER NO ACCESS PROGRAM UPDATE

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WATER BUREAU

MARCH 1, 2023



# PROGRAM GOAL

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- Replace water meter at remaining accounts
- No access granted in 10+ years
- Process
  1. Notify
  2. Install pit
  3. Remove Meter and Replace in Pit
  4. Notify & Shut Off Service if No Access Granted
- All work performed by MDC Forces



# PROGRAM STATUS

- Pit installations proceeding in Newington
- West Hartford/Farmington notices mailed
- Shutoff Notices for Remaining Accounts scheduled for Mid-March
- Hartford will be subdivided into smaller groups by area

**No Access Program Status - 2/24/2023**

Group	Town	Accounts	Pits Installed	Meter Replaced		Remaining Accounts	Shut-Off Date
1	Bloomfield	20	100%	16		4	9/12/2022
2	Windsor	22	100%	22	100%	1	10/7/2022
3	Windsor	20	100%	19	95%	1	11/2/2022
4	South Windsor	2	100%	22	76%	7	
	East Hartford	27					
5	Glastonbury	18	100%	12	67%	6	
6	Rocky Hill	19	89%	7	37%	12	
7	Wethersfield	33	88%	18	55%	15	
8	Newington	24	42%	7	29%	17	
9	Farmington	4					
	West Hartford	26					
10	Hartford	246					

# WATER METER NO ACCESS PROGRAM UPDATE

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WATER BUREAU

MARCH 1, 2023





# SOUTH WINDSOR EXCLUSIVE SERVICE AREA ENCROACHMENT

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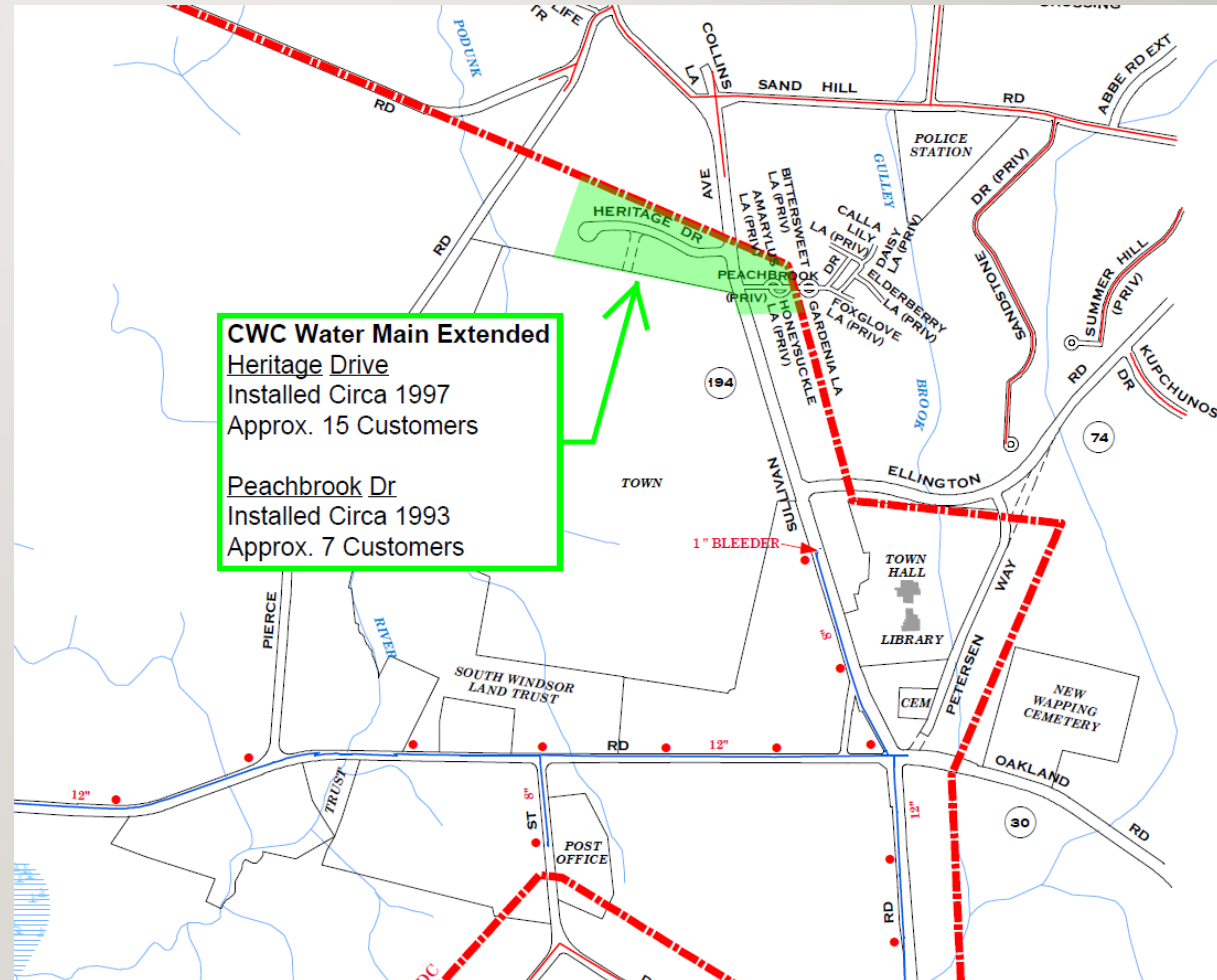
WATER BUREAU

MARCH 1, 2023

# BACKGROUND



- ESAs Established - May 1988
- Discussed with - CWC 8/12/2022
- No record of encroachment request/approval
- Met with South Windsor – 1/9/2023



Water Bureau

# MDC EV Charging Stations

March 1, 2023

# Proposed EV Charging Stations

## Objective:

- Provide visitors access to EV charging stations while utilizing passive recreational facilities and provide low emission technologies.

## Locations:

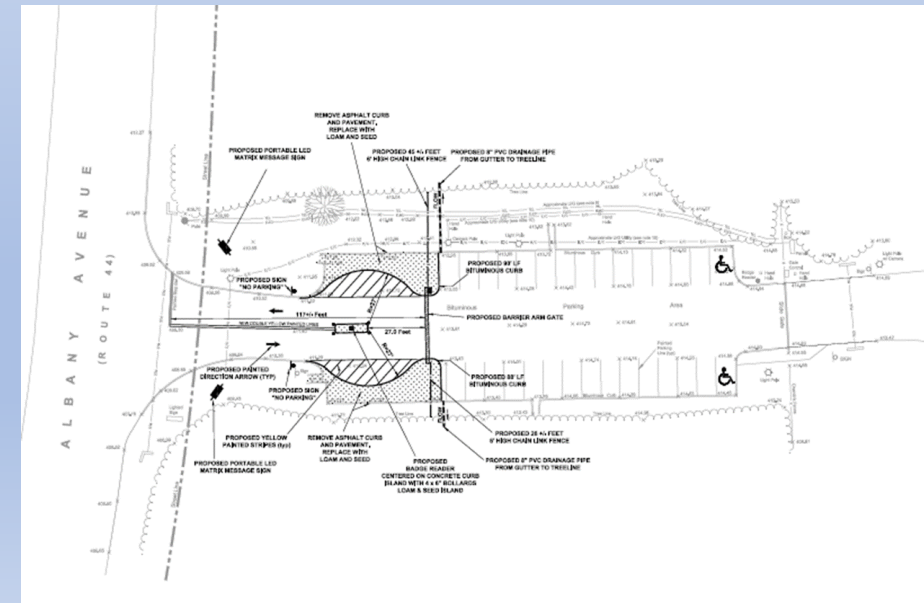
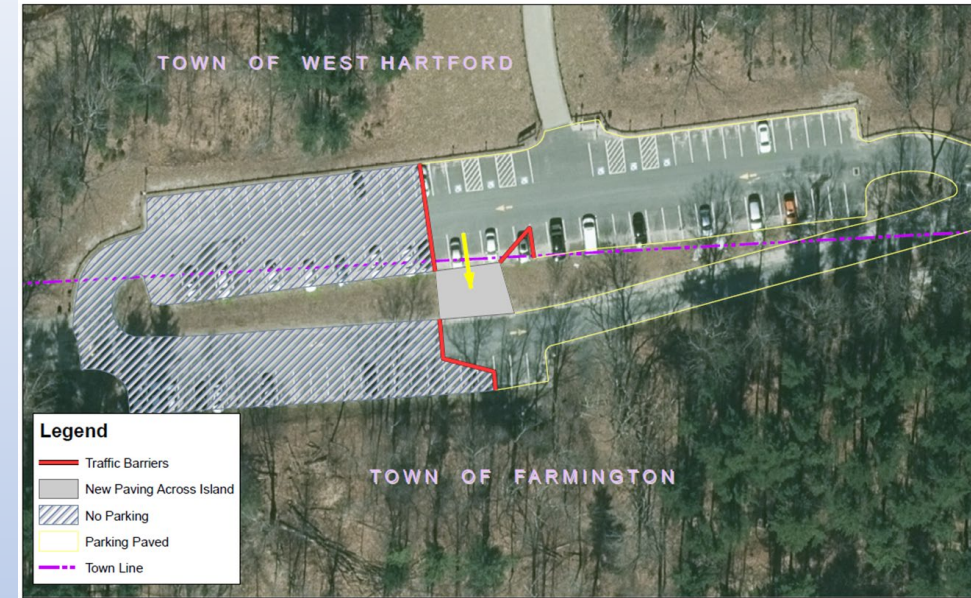
- West Hartford Filters Public Parking Area
- Reservoir No. 6 Public Parking Area

## Utilization of New Eversource Program

- Program has been active in MA, but just released in CT in 2022
- Funding Details:
  - 100% of all electrical infrastructure
  - 50% shared costs of charging station

## Further Review Since Last Meeting:

- Staff reviewed option to have manufacturers install charging stations and lease area – result: not manufacturers profit model
- Reviewed permitting requirements with CT DPH – change in use permit required along with potential environmental issue with possibility of vehicle/battery fires.





# Proposed EV Charging Stations

## Costs and Revenue over 5 years for West Hartford Filters

- Assume 1,000 (1 Hr) uses/year
- Figures are based on actual proposal received from Eversource certified vendor

Costs	Year					
Item	1	2	3	4	5	Total
(2) 2-Post Charging Station (50%)	\$ 10,395.38	\$ -	\$ -	\$ -	\$ -	\$ 10,395.38
Cloud Service & Insurance	\$ 1,246.00	\$ 1,246.00	\$ 1,246.00	\$ 1,246.00	\$ 1,246.00	\$ 6,230.00
Coud Provider Fee/Charge (\$1/Charge-Transaction)	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 5,000.00
Electricity Charge (\$0.19/kWh)	\$ 3,610.00	\$ 3,610.00	\$ 3,610.00	\$ 3,610.00	\$ 3,610.00	\$ 18,050.00
Internal Labor (Administrative)	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 5,000.00
						<b>\$ 44,675.38</b>
Revenues	Year					
Item	1	2	3	4	5	Total
Charge (19kWh Charge - High Capacity -\$6/Hour)	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 30,000.00
Idle Fee (\$0.50/hr)	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 5,000.00
						<b>\$ 35,000.00</b>
5-Yr Profit Analysis (Revenue - Costs)	\$ (9,675.38)					

