FISCAL YEAR 15 SUMMARY TOWNSEND WATER DEPARTMENT - ACCOUNTS RECEIVABLE June 30, 2015

UNCOLLECTED FROM JUNE 30, 2014

83,934.69

CHARGED	07/01/14- 06/30/15	6/30/2015	Previous Balance	Total	
	USER CHARGES	981.00	990,785.95	991,766.95	
	SERVICE CHARGES	694.22	31,233.26	31,927.48	
	CONNECTION CHARGES		36,600.00	36,600.00	
	LATE CHARGES	1,109.75	15,408.13	16,517.88	
	BACKFLOW SUBTOTAL	2,784.97	3,500.00	3,500.00	
	TOTAL CHARGES	2,764.97			1,080,312.31 1,164,247.00
RECEIVED	07/01/14- 06/30/15	6/30/2015			
	USER CHARGES	10,305.00	952,893.16	963,198.16	
	SERVICE CHARGES	1,115.19	30,373.18	31,488.37	
	CONNECTION CHARGES		36,600.00	36,600.00	
	LATE CHARGES	713.78	13,185.08	13,898.86	
	BACKFLOW SUBTOTAL	12,133.97	3,700.00	3,700.00	
	TOTAL RECEIPTS	12,100.07	1		1,048,885.39

SENT TO LIEN LIENS COLLECTED ABATEMENTS ADJUSTMENTS UNCOLLECTED 38,039.21 0.00 671.42 838.93 **75,812.05 1,164,247.00**

OUTSTANDING:

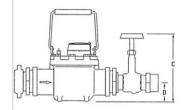
USER CHARGES	;	68,580.67
SERVICE CHARGES		2,120.62
CONNECTION CHARGES		0.00
LATE CHARGES		5,010.76
BACKFLOW TOTAL OUTSTANDING	\$	100.00 75,812.05

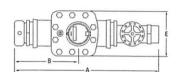
OPERATING CHARACTERISTICS

Meter	Normal Operating Range	AWWA	Low Flow
Size	@100% Accuracy (±1.5%)	Standard	@ 95% Accuracy
3"	5 to 450 US gpm	560 US gpm	8 to 350 US gpm
	1.14 to 102.2 m ³ /h	127.2 m ³ /h	1.8 to 79.5 m ³ /h

DIMENSIONS

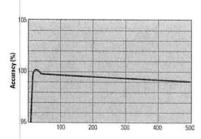
3" Fire	Α	В	С	D	E	Weight
Hydrant	inches	inches	inches	inches	inches	lbs
Less Coupling	15 ¹ /2"	7 1/2	11 1/2	2 7/8	7 1/2	23
With Coupling	19 1/4"	10	11 1/2	2 7/8	7 1/2	29





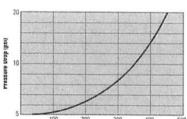
ACCURACY CHART

(Rate of Flow in Gallons per Minute)



PRESSURE LOSS CHART

(Rate of Flow in Gallons per Minute)



These charts show typical meter performance. Individual results may vary.

- Application: cold water measurement of flow in one direction
- Maximum operating pressure: 150 psi
- Normal operation range: 5-450 gpm (at accuracy of 100 ± 1.5%)
- Register type:

SPECIFICATIONS

- Direct reading, center sweep, roll-sealed magnetic drive with low-flow indicator
- · Bronze box with locking cover
- Strainer: plastic
- Registration:
 - Per sweep hand revolution:
 100 gallons, 10 cubic feet,
 1 cubic metre
- Register capacity (six-wheel odometer):
- 100,000,000 gallons,
- 10,000,000 cubic feet,
- 1,000,000 cubic metres
- Measuring element: AWWA Class II Turbine

Size: 2 1/2" outlet (with 2 1/2" gate valve)

■ Check valve

OPTIONS

Strainer: stainless steel (internal)

" Orifice plate: sized for application

- Units of measure: U.S. gallons, cubic feet, cubic metres
- " Connections:

· Less coupling: 3" x 2" NPT

· With coupling: 2" NH

Neptune engages in ongoing research and development to improve and enhance its products. Therefore, Neptune reserves the right to change product or system specifications without notice.

Neptune Technology Group Inc. 1600 Alabama Highway 229 Tallassee, AL 36078 USA

Tel: (800) 645-1892 Fax: (334) 283-7299 Neptune Technology Group (Canada) Ltd. 7275 West Credit Avenue Mississauga, Ontario L5N 5M9

Tel: (905) 858-4211 Fax: (905) 858-0428

Canada

Neptune Technology Group Inc. Ejército Nacional No. 418 Piso 12, Desp. 1201-1202 Col. Chapultepec Morales Delegación Miguel Hidalgo 11570 México, Distrito Federal Tel: (525) 55203 5294 / (525) 55203 5708 Fax: (525) 55203 6503



neptunetg.com

FIRE HYDRANT METER

Size: 3"

The Fire Hydrant water meter is designed for mobile use in metering flows from fire hydrants.



The Fire Hydrant water meter is designed for mobile use in metering flows from fire hydrants. The meter measures a wide flow range to maximize revenue. It meets or exceeds the latest performance requirements of AWWA. Maximum flow rates may be exceeded by 25% for intermittent flows.

The Fire Hydrant water meter consists of a lightweight, aluminum maincase fitted with a 2" gate valve, a turbine measuring element, and a roll-sealed register.

The aluminum maincase is Ryton® coated for corrosion resistance and is lightweight, compact, and easy to handle. This meter features a unique "balanced handle" which makes carrying and installing it easier than any other fire hydrant meter on the market. A 2" gate valve enables the user to regulate the water flow without opening and closing the fire hydrant.

The Unitized Measuring Element (UME) allows for quick and easy interchangeability. Exclusive dual graphite bearings provide equalized rotor loading for accuracy over a broad flow range. The thrust-compensated rotor configuration relieves pressure on the thrust bearings which minimizes wear and provides sustained accuracy over an extended operating life. A tamper-resistant, stainless steel calibration vane allows recalibration of the UME to lengthen service life and to ensure accurate registration.

The roll-sealed register eliminates leaking and fogging. Magnetic drive couples the register with the measuring element.

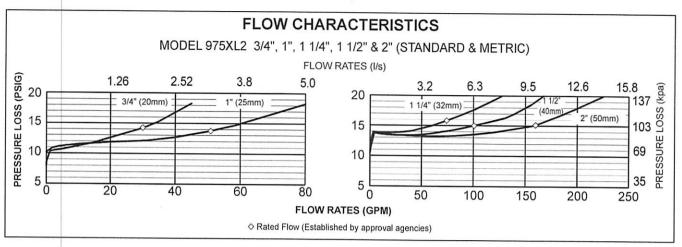
Neptune provides a limited warranty with respect to its Fire Hydrant Meters for performance, materials and workmanship.

When desired, owner maintenance is easily accomplished by replacement of major components or a factory-calibrated UME.



WATER and WASTEWATER SUPPLIES Route 27 Sudbury, MA www.tisales.com Tel: 800-225-4616 Fax: 978-443-7600 (EY FEATURES

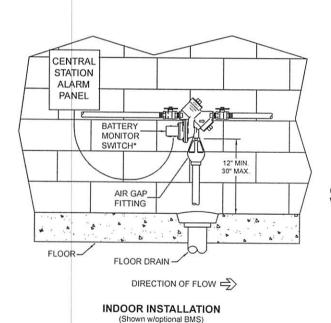
- Roll-Sealed Register
 - Permanently sealed, magnetic drive register assembly eliminates leaking and fogging
 - Locking register lid secures during transportation, protecting register lens
 - Glass lens ensures readability and scratch resistance
 - Tamperproof design prevents vandalism and allows in-service replacement of register
- Cast Aluminum Maincase
 - Ryton coating ensures maximum corrosion resistance
 - Lightweight material ensures easy handling
- Single, balanced carrying handle provides for easy, one-person installation
- 2" gate valve allows safe pressurization of measuring element and regulation of water flow
- Turbine Measuring Element
 - Wide flow ranges at 98.5%-101.5% accuracy ensure maximized revenues
 - Direct coupling of rotor to gear train ensures accurate registration
 - UME makes maintenance easier and faster
 - Stainless steel calibration vane ensures accurate registration and makes calibration easier

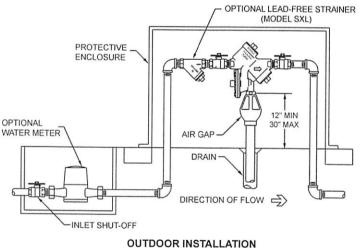


TYPICAL INSTALLATION

Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. The installation shall be made so that no part of the unit can be submerged.

	Capacity to	hru Schedule	e 40 Pipe	
Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
1/8"	1	1	2	3
1/4"	2	2	3	5
3/8"	3	4	6	9
1/2"	5	7	9	14
3/4"	8	12	17	25
1"	13	20	27	40
1 1/4"	23	35	47	70
1 1/2"	32	48	63	95
2"	52	78	105	167





SPECIFICATIONS

The Reduced Pressure Principle Backflow Preventer shall be ANSI 3rd party certified to comply with states' lead plumbing law 0.25% maximum weighted average lead content requirement, shall be ASSE® Listed 1013, rated to 180°F, and supplied with full port ball valves. The main body and access covers shall be low lead bronze (ASTM B 584), the seat ring and all internal polymers shall be NSF® Listed Noryl™ and the seat disc elastomers shall be silicone. The first and second checks shall be accessible for maintenance without removing the relief valve or the entire device from the line. If installed indoors, the installation shall be supplied with an air gap adapter and integral monitor switch. The Reduced Pressure Principle Backflow Preventer shall be a WILKINS Model 975XL2.



36 Hudson Rd Sudbury MA 01776



800-225-4616 www.tisales.com

a **ZURN**® company

Model 975XL2

Reduced Pressure Principle Assembly

SPECIFICATION SUBMITTAL SHEET APPLICATION







FEATURES

Sizes: □ 3/4" □ 1" □ 1 1/4" □ 1 1/2" □ 2" Maximum working water pressure 175 PSI Maximum working water temperature 180°F Hydrostatic test pressure 350 PSI End connections Threaded ANSI B1.20.1

OPTIONS

(Suffixes can be combined)

- with full port QT ball valves (standard) MS - with integral relief valve monitor switch S - with Model SXL lead-free bronze "Y" type strainer

☐ BMS - with battery operated monitor switch

FT - with integral male 45° flare SAE test fitting

TCU - with test cocks up

V - with union swivel elbows (3/4" & 1")

SE - with street elbows U - with union ball valves

ACCESSORIES

Air gap (Model AG) Repair kit (rubber only) Thermal expansion tank (Model XT) Soft seated check valve (Model 40XL) Shock arrester (Model 1250XL) QT-SET Quick Test Fitting Set Ball valve handle locks Test Cock Lock (Model TCL24)

Relief Valve discharge port:

3/4" - 1" 0.63 sq. in. 1 1/4" - 2" 1.19 sq. in.

DIMENSIONS & WEIGHTS (do not include pkg.)

Ideal for use where lead free* valves are required. Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists.

STANDARDS COMPLIANCE

ASSE® Listed 1013

IAPMO® Listed

CSA® Certified

NSF® Listed - Standard 61, Annex G

AWWA Compliant C511

Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California

LEAD PLUMBING LAW COMPLIANCE

(CA H&S Code §116875, VSA §2470h)

*(0.25% MAX. WEIGHTED AVERAGE LEAD CONTENT)

Lead Plumbing Law Certified by IAPMO R&T

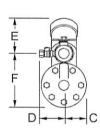
Annex G Certified by NSF International

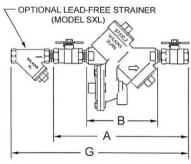
MATERIALS

Main valve body Access covers Fasteners Elastomers

Cast Bronze ASTM B 584 Cast Bronze ASTM B 584 Stainless Steel, 300 Series Silicone (FDA Approved) Buna Nitrile (FDA Approved)

NoryI™, NSF Listed Polymers Springs Stainless Steel, 300 series





			DIMENSIONS (approximate)														
MOE SIZ		А		В		С		С		Е		F		G			H BALL LVES
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
3/4	20	12	305	7 3/4	197	2 1/8	54	3	76	3 1/2	89	5	127	16 1/8	410	12	5.5
1	25	13	330	7 3/4	197	2 1/8	54	3	76	3 1/2	89	5	127	17 3/8	441	14	6.4
1 1/4	32	17	432	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	22 9/16	573	28	12.7
1 1/2	40	17 3/8	441	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	24 1/16	611	28	12.7
2	50	18 1/2	470	10 15/16	278	2 3/4	70	3 1/2	89	5	127	6 3/4	171	26 1/2	673	34	15.4





WATER and WASTEWATER SUPPLIES
36 Hudson Road (Route 27) Sudbury, MA 01776-2039
Phone: 978-443-2002
Fax: 978-443-7600
www.tisales.com

Quote	QTE0016681
Quoted To	Paul
Date	07/07/2015

Sold To: Townsend Water Dept.

540 Main Street

West Townsend MA 01474-1002

Ship To: Townsend Water Dept.

540 Main Street

West Townsend MA 01474-1002

Customer Num	ber Telephone	Fax Job Loca	tion	Job Name	Territ	ory/Manager	
TOWN4	(978) 597-2212	(978) 597-5611				om Garrity	
Expires	Estimated Delivery	Freight	Freight Terms		Mas	Master Number	
09/05/2015	Stock-3days ARO	Allowed		NET 30		126986	
Item Numb	en and	Description		Quantity	Price	Extension #	
NHYDMETERF	3" Neptune Fir Valve, Swivel H	e Hydrant Meter Direct Read Cubic Fee lydrant Connection & Hose Adapter	et With Strainer	1	\$1,334.94	\$1,334.94	
W975XL27		XL2 Reduced Pressure Backflow Prevent	enter w/ Ball Valves	1	\$663.35	\$663.35	
XNIP74	2" x 4" Thread	ed Brass Nipple No Lead		1	\$24.45	\$24.45	
нмѕ	Hydrant Meter	Stand		1	\$186.44	\$186. 44	
Quoted By:	Bob Lash						
			(de 700 f	Merchan	dise	\$2,209.18	
		光鳳	- Page 1735	Other Ch		\$0.00	
	2	79.2 79.2		Tax		\$0.00	
Mi-it	<u></u>			Total D		\$2,209.18	
visit	our new websit	te @ www.tisales.com			ASSESSED AND AND AND AND AND AND AND AND AND AN	7-/	

If you are	e in agreement with this quote and wish	to order, please sign,	, date, and fax l	back to 978-443-7600
	or email us a	nt orders@tisales.com	•	

Signature:	Date:
------------	-------

Townsend Water Department 540 Main St.

West Townsend, MA 01474 Tel: 978-597-2212

E-mail: prafuse@townsend.ma.us

VENDOR	WATER DEPT. GENERATOR COSTS	TOWN GENERATOR COSTS	NOTES
Cummins Northeast Mark Robbins 100 Allied Dr. Dedham, MA 02026 Work: 781-751-1246 Mobile: 781-915-8191 mail: mark.robbins@cummins.com	\$1,404.49	\$2,754.80	RECOMMENDED
Power Up Generator Service Co. Peter Placet 8 Priscilla Lane Auburn, NH 03032 Work: 603-657-9080 Cell: 603-396-3532 E-mail: peterp@powerupgeneratorservice.com	\$1,520.00	\$3,040.00	SECOND CHOICE
Weld Power Alexandra Smith 1529 Grafton Road Millbury, MA 01527 Tel: 800-288-6016 E- mail: asmith@weldpower.com	\$1,330.00	\$2,350.00	NOT RECOMMENDED, ALTHOUGH LOWEST QUOTE NO ONE CAME OUT TO LOOK AT EACH UNIT. ALSO, RECEIVED NEGATIVE FEEDBACK FROM FACILITY MAINTENANCE COORDINATOR DUE TO PAST EXPERIENCE.
Bigelow Electric 1	\$1,444.00	\$2,759.00	NOT RECOMMENDED, ALTHOUGH LOWEST QUOTE NO ONE CAME OUT TO LOOK AT EACH UNIT.
Kinsley Power Systems Tom Morissette 14 Connecticut South Drive East Granby, CT 06026 Tel: 860-844-6100 Cell: 617- 448-7673 E-mail: Tmorissette@KinsleyPower.com	\$2,594.00	\$5,160.00	

Brenda Boudreau

From:

Sent:

Monday, July 13, 2015 5:36 PM

To: Subject: Brenda Boudreau Meeting Subjects

- Generator PM Proposals: I have a packet with 5 copies of cost comparisons and 1 copy of supporting
 doc. if the Commissioners want to look at it. The cost comparisons have explanations of why I
 recommend them or not.
- Purchase of a hydrant meter with back flow preventer: The lowest cost was with a distributor (Ti-Sales) we do business with. It's a neptune meter (one of the to manufacturers) it's lighter and shorter than others and approx. \$1,000.00 less than other brands. Also comes with a support stand.
- Superintendents updates: Checked with MHQ re: car and power ports available and it does come equipped with 3.
- Cost comparison for Fitch. Tank improvements: I have a meeting with Rep. from company that performed the cleaning and inspection Thursday to discuss asset management of the tank.

If you have any questions call me.

Paul. was Absent



Office of the

Townsend Water Department 540 Main Street

West Townsend, MA 01474 Tel: 978-597-2212 Fax: 978-597-5611

Application No.

2015-6

Account No.

100539

Date

6/24/2015

APPLICATION FOR WATER SERVICE

Name of Property Owner:	CARL CERULLO		
Service Address:	58 TURNPIKE ROAD		
	TOWNSEND MA 01469		
Tel No.:		Cell No. 978-815-3660	
Billing Address:			
(If different from service address)	PO BOX 710		
	TOWNSEND MA 01469	_	
Units (Check all that apply):			
	X Single Family (If Professional BI	dg.) No. of Businesses	
	Multi Family (Apartment Building)	No. Apartments	S .
	Hotel/Motel	No. Rooms:	
Type of Use (Check One):	Residential	Industrial	
0 0	X Commercial/Business	Municipal	
	Agricultural		
If yes a proposed design plan of th backflow prevention device. Is a flow test/s required?	ire protection? Yes X		e, and size and
Is there an existing or proposed au	utomatic lawn irrigation system?	Yes <u>No</u> X	On separate well
known or proposed additions to th	vided showing the location of the septic syst ne existing building? X Yes		
	to be completed and all Fees, charges, and requ	ired documentation must be	received
	n. I also understand that I have from April 1st to	,	
	to complete the installation or this application dition, I acknowledge receipt of the Townsend M		
11 11 11	Signature of Owner/Applicant		Date 9/24/15
K. K.	BOARD OF WATER COMM	ISSIONERS	
Chairman		Vice Chairman	
Millet Ro	Allow	7-13-	15
Clerk		Date Signed by Board of W	later Commissioners

mailed original 7/14/15



TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES

Name: Kobert Patter Account # 60162
Address: 19 West Meadow Estates DR.
Phone # Email Address
Billing date
AMOUNT: 1.95 4CABATEMENT[] ADJUSTMENT[)] (check one)
REQUESTED BY: CUSTOMER [] OFFICE [] OTHER [] - if other please explain below:
Reasons: (please attached supporting documentation if applicable)
Bank. Check was made our for 4/30 was not
recieved until may 5th - Late Charges were
Bank. Check was made our for 4/30 was not vectored until may 5th - Late Charges were Applied on may 5th.
APPROVED [] (check one)
DATE: 7-13-15
TOWNSEND BOARD OF WATER COMMISSIONERS
Joseph Jo
MANTO Settlerin



TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES

Name: HD Frichestriais Way Account # 55.25
Address: 18 Alyssa DR
Phone # Email Address
Billing date 45/15
AMOUNT: 3500 ABATEMENT[] ADJUSTMENT[] (check one)
REQUESTED BY: CUSTOMER [] OFFICE [] OTHER [] - if other please explain below:
Reasons: (please attached supporting documentation if applicable) Carolyn added Turn on fee of 35.00- Turnon fee 75 included of new Service Charges
HD called to question bill on 6/11/15
APPROVED [4] DENIED [] (check one) Call Sare
TOWNSEND BOARD OF WATER COMMISSIONERS 603 -635-4355
effects

3.7



TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES

Name: Robert Moorehouse Account # 2840
Name: Robert Moorehouse Account # 2840 Address: 16 Chestnut Deire
Phone #_ 597-6230
Billing date
AMOUNT: ABATEMENT ADJUSTMENT [] (check one)
REQUESTED BY: CUSTOMER [] OFFICE [] OTHER [] - if other please explain below:
Reasons: (please attached supporting documentation if applicable)
Meter Malfanction
APPROVED DENIED [] (check one)
DATE: 7-13-15
TOWNSKNJO BOARD OF WATER COMMISSIONERS
Mbelle

IV. COMMISSIONERS UPDATES AND REPORTS.

4.1 Niles reported that he had had rusty water during the testing at the High School project.

V. WATER SUPERINTENDENTS UPDATES AND REPORTS.

- 5.1 Improvements/Recommendations to Fitchburg Rd. storage tank. Tabled
- 5.2 Proposed new energy efficient vehicle providing adequate power supply to support our radio meter reading equipment. Paul prepared the updated information on the hybrid vehicle. It does come equipped with power ports.

VI. OFFICE UPDATES AND REPORTS.

- 6.1 The Board reviewed and Signed Bills Payable Warrants.
- 6.2 The Board reviewed payroll.
- 6.3 The Board reviewed and signed June 2015 Schedule of Bills Receivable report.
- 6.4 The Board reviewed June 2015 Accounts Receivable report.
- 6.5 The Board reviewed June 2015 Appropriation Balance report.

VII. ADJOURNMENT:

Chairman, Michael MacEachern adjourned the meeting at 6:15 PM to review and sign all bill payable warrants and reports.

Respectfully submitted,

Bench Sulla

Brenda Boudreau-Office Administrator

TOWNSEND WATER DEPARTMENT

540 Main Street West Townsend, Massachusetts 01474



Michael MacEachern, Chairman

Niles Busler, Vice-Chairman

Nathan Mattila, Clerk

Paul L. Rafuse,

(978) 597-2212 Fax (978) 597-5561

Water Superintendent

WATER COMMISSIONERS MEETING MINUTES July 13, 2015 - 5:30P.M.

Water Department 540 Main Street, Meeting Room

I. PRELIMINARIES:

- 1.1 MM called the meeting to order at 5:27 PM at 540 Main Street.
- 1.2 Roll call showed Members Present: Michael MacEachern, Chairman Niles Busler, Vice-Chairman and Nathan Mattila, Clerk. Guest Present: Brenda Boudreau.
- 1.3 MM announced that the meeting is being tape recorded
- 1.4 Chairman's additions or deletions. None
- 1.5 Review/Approve meeting minutes of June 8, 2015 and June 22, 2015. **NB made a motion to accept the minutes of June 22, 2015 NM seconded Unanimous vote.**
- 1.6 The Board reviewed the correspondence.

II. APPOINTMENTS:

2.1

III. MEETING BUSINESS:

- 3.1 Discuss process for waiving Town Department fees. Tabled for discussion when the superintendent is present.
- 3.2 Carry forward balances on special accounts. Tabled
- 3.3 Discuss pay Town Admin fees. Tabled
- 3.4 Review/Discuss/Approve proposals for annual preventative maintenance on our generators. NB made a motion to accept the bid from Cummins Northeast in the amount of \$ 1,404.49 for preventive maintenance of the generators for the following year.
- 3.5 Review/Discuss/Approve purchase of hydrant meter with backflow preventer. NB made a motion to approve an amount not to exceed \$3,500.00 for a fire hydrant meter with a backflow preventer and all necessary hardware. NM seconded Unanimous vote.
- 3.6 Approve abatement for acct #5525, HD Industrial Way, 18 Alyssa Drive, \$35.00. RE Turn of Fee include in meter installation bill. NM made a motion to approve a 1" service to acct#5525, 18 Alyssa Drive. NB seconded. Unanimous vote.
- 3.7 Approve abatement for acct #2840, Robert Moorehouse, 16 Chestnut Drive, \$208.00. RE Meter Malfunction. NM made a motion to abate acct# 2840, 16 Chestnut Drive, \$208.00. RE: Meter malfunction. NB seconded. Unanimous vote.
- 3.8 Approve adjustment for acct # 60162, Robert Potter, 19 West Meadow Estates Dr., RE: Late Charge. NM made a motion to approve an adjustment to acct#60162, 19 West Meadow Estates Drove in the amount of \$1.95. NB seconded. Unanimous vote.
- 3.9 Approve 1' service to acct# 60539, Carl Cerullo, 58 Turnpike Road. Paid \$2,000.00 Check#7271. NM made a motion to approve a 1" service to acct#60539, 58 Turnpike Road. NB seconded. Unanimous vote.