# BOONSBORO KEEDYSVILLE WATER ADVISORY BOARD Wednesday December 7, 2016 6:30 PM Keedysville Town Hall

### **AGENDA**

Rules of procedure: Members of the Water Advisory Board, alternates and town staff or others involved with the operation of the joint water system are welcome to sit at the table during our meetings provided there is sufficient room. Discussion is open but with priority given to members of the Board. The Chair reserves the right to limit discussion to Board members at his/her discretion in accordance with the Board's Bylaws. Voting is restricted to the 5 members of the Board or alternates serving in the place of a Board member.

1. 11.	Approval of minutes from August 17, 2016 meeting  True-up of FY16 cost allocation to Keedysville (Austin)
III.	FY17 cost projections for Keedysville (Austin)
IV.	True-up revision proposals (Austin)
V.	Boonsboro's 5-year CIP projections (Megan)
VI.	Update on water capacity review by consultant (Megan)
VII.	New business
VIII.	Public comment

**NEXT SCHEDULED MEETING:** February 15, 2017 6:30 PM at Boonsboro Town Hall (Regular meetings are 3<sup>rd</sup> Wednesday of February, May, August and November)

# Standard Agenda Schedule:

### February

Review of current year CIP projects Review of proposed CIP projects for coming year

# May

Review of current year CIP projects Review of proposed CIP projects for coming year

## August

Update of current year CIP projects

## November

True-up of prior year costs
Projected costs for current year
Review of current year CIP projects (included in projected costs for current year)
Review of proposed CIP projects for coming fiscal year

## Other items to add:

Reports from Towns on state water allocations, expected water use increases, recharge area

# BOONSBORO KEEDYSVILLE WATER ADVISORY BOARD MEETING MINUTES Wednesday, August 17, 2016

Voting members present: Austin Abraham, Chairperson; Terry Davis (B); Paul Loeber (B); Eric Kitchen (B-alternate); Ken Lord (K-alternate); Matt Hull (K-alternate);

Members absent: Barry Levey (K); Gina Ellis (K-alternate); Rob Hutzell (B-alternate); Bobby Mose (B-alternate)

Others present: Megan Clark (B), Boonsboro Town Manager; Pete Shumaker (B), Utilities Superintendent; Ray Hoffman (B), Cindy Harris (B), Recording Secretary

The meeting convened at 6:37 PM at Boonsboro Town Hall.

- Approval of minutes from May 18, 2016 meeting. Motion by Member Hull, second by Member Davis to approve the minutes with no corrections. Motion carried unanimously.
- II. Review of FY16 and FY17 capital projects (Megan). Boonsboro Town Manager Clark reviewed the FY2016 WF CIP Budget Update. She pointed out the Capital Outlay total is \$68,455 over budget due to several items. The Town purchased 150 new meters, placed a deposit on the new CUSI billing software, and the correlator purchase was over budget. However, FY16 User Fees (used to fund capital improvements) received so far have exceeded the Town expenses.

Under the FY17 Capital Outlay Projects, the Town is moving forward with replacing six water plant filters this Fall, two in Keedysville and four in Boonsboro. As stated at the May meeting, Boonsboro/Keedysville is the first customer to use rehabilitated water filters at a cost of \$8,000 per filter. Although more than budgeted, it is a substantial savings versus \$20,000 per filter if purchased new, and are guaranteed to last 20 years. The Ford F-350 truck and Handheld meter reader are over budget although \$8k was saved by purchasing earlier in the year. Last, the Bobcat may not be purchased this year as it may not fit into the budget as planned. Chairman Abraham pointed out that actual expenses will be used for the True-Up in November.

III. Water Capacity Update (Megan). Boonsboro is undergoing a lot of development and has begun the permit renewal process. Clark met with consultant ALWI in June to assist with the MDE permit application. ALWI was impressed with the efforts being made to mitigate water loss. The consultant will draft a permit package for MDE and meet with

Boonsboro to review what is needed. Each water source, except for Warrenfeltz and Crestview, has its own permit. Crestview is currently not operational but Clark will discuss options to bring it online. Chairperson Abraham proposed having Keedysville involved in the review meeting, which was met with much agreement from both towns. Town Manager Clark will contact Keedysville when that time comes. Clark noted the town is in search of an additional water source to use as backup. The permitting process is expected to take approximately 18 months.

- IV. Continued discussion of new water agreement (Austin). Chairperson Abraham stated he is still working on this and has met with Town Manager Clark to review, and may have something to present at the February 2017 meeting. The group discussed several ongoing concerns to be addressed in the new agreement's verbiage including capacity, allocation, steps to foster communication during supply shortages, disagreements between the towns, etc. Superintendent Shumaker noted the amount of water currently being pumped is not making any impact on the spring levels. Chairperson Abraham will talk with his contacts at Hagerstown whether there is a "trigger" for reaching a certain allocation and what MDE does when reaching this threshold. This information could help craft our verbiage in addressing each Town's allocation should water supplies become limited in the future.
- V. New business. Member Davis provided an update on the correlator. Town Engineer Brian Hopkins, Public Works Superintendent Greg Huntsberry and himself have all been trained on the equipment. Boonsboro will perform a leak detection of Keedysville lines possibly in November to look for leaks. The correlator has already proven accurate by finding a leak in the Kinsey Heights development. This, in addition to the ongoing meter replacements is helping to track where the water is going and help to reduce water losses. Superintendent Shumaker said he was concerned with the appearance of weeds around the plant at Mt. Hebron Road should MDE visit the site. Member and Mayor Lord will address this with Shumaker directly. Member Davis announced he had resigned his position as BMUC Chair and no replacement had been designed yet.
- VI. **Public Comment.** There was no comment from the public.

Chairperson Abraham declared the meeting adjourned at 8:16 PM. The next meeting date is scheduled for Wednesday, December 7, 2016 at 6:30 PM at Keedysville Town Hall.

Submitted by: Cindy Harris, Recording Secretary

# **BOONSBORO KEEDYSVILLE WATER ADVISORY BOARD**

# PROPOSED COST-SHARING TRUE-UP FOR FY16 AND PROJECTIONS FOR FY17

Prepared by: Austin Abraham, Chair

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# Summarized True-Up and Projection Calculations FY15 FY16 FY17

Ln	Description	FY15 Actual	FY16 Budget	FY16 Actual	FY17 Budget
1	Applicable 8 operating expenses to be shared (65%)	\$277,196	\$331,119	\$363,657	\$394,505
2	Shared capital	14,737	50,500	55,266	82,478
3	Total to be allocated to K based on water pumped	291,933	381,619	418,923	476,983
4	K % of total water pumped	14.1%	15.0%	14.5%	15.0%
5	Sub-total	41,163	57,243	60,744	71,547
6	Direct billing expenses	2,886	5,653	5,653	5,465
7	Daily tank/booster station labor @1/2 hr. per day	5,434	5,733	5,911	5,903
8	1-time utllity adjustment	-3,043			
9	Total due from K to B for year	\$46,440	\$68,629	\$72,308	\$82,915
10	Paid by K for 4 quarters			(68,628)	
11	True-up amount (Balance due to B)			\$3,680	

Prepared: November 28, 2016 (Austin)

# Boonsboro Keedysville Water Service Narrative of the Cost-Sharing True-up for FY16 and Projections for FY17

### Proposed True-up of Keedysville Cost for FY16

Keedysville's (K) estimated cost for FY16 was based on projections of Boonsboro's (B) allocable operating expenses of \$509,414, capital of \$50,500, labor for daily operations of the tank and booster station of \$5,733, and K using 15% of the water pumped into the towns. Actual numbers were allocable expenses of \$559,473, capital of \$55,266, tank and booster station operations labor of \$5,911, and K's use of 14.3% of the water.

While allocable operating expenses and capital were higher than budgeted, this was partially offset by a lower percentage of water used. The operating expenses exceeded budget primarily due to an increase in the percentage of general fund labor allocated to water beginning in April 2016 from 25% to 33% and to higher than expected maintenance and repair costs.

The total amount due from K to B for the year is \$72,308. As K has paid \$68,628 for FY16 in projected payments, the net true-up is a final payment from K to B of \$3,680 (accounts for all rounding).

### Proposed Estimated Payments for Keedysville for FY17

The proposed estimated payments for FY17 include allocable operating expenses of \$606,932, an operating contingency of \$20,000, capital of \$82,478, annual billing and administrative costs of \$5,465, tank and booster station operations labor of \$5,903, and K's % of water at 15%. Capital includes \$49,200 for water plant filters, \$5,000 to replace the casing in well #8, \$16,378 for a truck replacement, \$6,900 for meter reading equipment, and \$5,000 for weir wall stabilization.

The projected annual payment from K to B is \$82,915 (\$20,729 per quarter). This is \$11,435 higher than the FY16 actual expense due primarily to higher wage and benefit costs including the increase in general fund employee cost allocation from 25% to 33% for the entire year.

Prepared by: Austin Abraham November 28, 2016

	***************************************										
	Line #			FY14/15			FY15/16			FY16/17	
	from										
	rate										
<b></b>	formula	Description	Budget	Actual	Difference	Budget	Actual	Difference	Budget	Actual	Difference
<b>~</b> I	3a-b	Boonsboro Operating Expenses	\$671,181	\$670,735		\$781,286	\$679,404		]_′′		
~		Less Annual loan fee to MDE(1)					1		0		
ო		Adjustment #1 - Heat costs	(1,500)	(1,489)		(1,500)	(316)		(1,500)		
4		Adjustment #2 - Property insurance	(4,000)	(5,177)		(4,000)	(6,580)		(4,000)		
ហ		Adjustment #3 - Less Budgeted Contingency	(10,756)	AN AN		(55,436)	AZ		(23,160)		
Ø		Adjustment #3A - Add back contingency	30,000	Ā		•	Ą	• •	20.000		
^		Adjustment #4 - Reimb'd engineering fees		,			•				
00		Adjustment #5 - Capital Expense	(251,500)	(229,293)		(105,250)	(100,275)		(125.700)		
თ		Adjustment #5A - Debt-service+interest	(59,625)	N AN		(94,300)	AN AN		(99,565)		
유		Adjustment #6 - direct pay by K to B									
11		Customer billing	(2,886)	(2,886)		(5.653)	(5.653)		(\$ 465)		
17		Repairs by 8 for K	•	• •			(1,196)				•
33		Daily operations labor for tank + booster station	(5,407)	(5,434)		(5.733)	(5.911)		(5 903)		
14		Total applicable operating expenses	\$365,507	\$426,456	\$60,949	\$509,414	\$559,473	\$50,059	\$606,932	SS	S
15	<u>ع</u>	Less 35% for the estimated cost of maintenance and repair to B. distribution system	(127,927)	(149,260)		(178,295)	(195,815)		(212,426)		
16	B	Plus cash cost of any capital	51,500	14,737		50,500	55,266		82,478		
		inprovement serving both Towns			•						
17	<u>%</u>	Plus debt-service on any financed improvements serving both towns	0	•		,	1		•		
	,										
			\$289,080	\$291,934	\$2,854	\$381,619	\$418,923	\$37,304	\$476,984	8	
		Keedysville % of total water pumped	16.0%	14.1%		15.0%	(14.5%	and the same of th	(15.0%)	_	
R R	3g	Keedysville annual cost water service	\$46,253	\$41,163	-\$5,090	\$57,243	\$60,744	\$3,501	\$71,548	S)	
21	-	K portion of customer billing expense	2,886	2,886		5,653	5,653	··· I	5,465		
22	-	Daily operations labor for tank + booster station	5,407	5,434		5,733	5,911		5,903		
223	-7	Less B portion of utilities for booster station Jan-May		(3,043)							
ន		Keedysville total annual expense	\$54,546	\$46,440	-\$8,106	\$68,629	\$72,308	\$3,679	\$82,915	Ş	

L	The second secon			
	Payments:			
74	Estimated quarterly cost	13,636	17,157	20.729
ĸ	First quarter billed	13,636		
56	Second quarter billed	13,636	17.157	
27	Third quarter billed	13,636	17.157	
28	Fourth quarter billed	13.636	17.157	
8		54,544	68,628	
8	True-up due to B/(due from B)	(\$8,104)	\$3,680	\$0
j				

NOTES: Prepared by: Austin Abraham November 28, 2016

# MAYOR AND COUNCIL OF BOONSBORO Statement of Revenues and Expenditures – Budget and Actual – Water Utility Fund (Budgetary Basis)

Year Ended June 30, 2016 (Unaudited)

				W. J
	D.,.1		V	Variance with
	Original	l Amounts Final	Antunt	Final Budget
OPERATING REVENUES	UIIZUIAI	rital	Actual	Positive (Negative)
Charges for services	\$ 545,040	\$ 545,040	\$ 508,742	\$ (36,298)
Charges for debt services	20,000	20,000	22,629	2,629
Charges for administration	54,546	54,546	60,524	5,978
Connection fees and user fees	150,000	150,000	237,050	87,050
Other income	11,300	11,300	13,024	1,724
Total Operating Revenues	780,886	780,886	841,969	61,083
OPERATING EXPENSES				
Maintenance and repairs	135,000	135,000	146,520	(11,520)
Chemicals	12,000	12,000	13,784	(1,784)
Electricity	50,000	50,000	58,151	(8,151)
Heating	1,500	1,500	316	1,184
Telephone	5,500	5,500	6,021	(521)
Advertising	500	500	334	166
Salaries	190,000	190,000	209,704	(19,704)
Insurance	15,000	15,000	17,623	
Health/life insurance expense	36,000	36,000	46,958	(2,623)
Audit	5,000	5,000	6,200	(10,958)
Legal fees	500 500	500 500	0,200	(1,200) 500
Supplies				
Miscellaneous	8,500 100	8,50 <del>0</del> 100	13,165	(4,665)
Uniforms			3,342	(3,242)
Professional memberships and certifications	1,500	1,500	3,283	(1,783)
Meeting expense	2,000	2,000	3,090	(1,090)
Payroll taxes	1,200	1,200	1,250	(50)
•	9,500	9,500	14,848	(5,348)
Pension expense	9,000	9,000	10,156	(1,156)
Testing	1,000	1,000	738	262
Truck expense	10,000	10,000	6,193	3,807
Equipment expense	10,000	10,000	9,130	870
Connections - water meters	20,000	20,000	6,073	13,927
Contingency fund	55,436	55,436		55,436
Postage	2,500	2,500	2,250	250
Capital outlay	105,250	105,250	100,275	4,975
<b>Total Operating Expenses</b>	686,986	686,986	679,404	7,582
Operating Income	93,900	93,900	162,565	68,665
OTHER REVENUES AND (EXPENSES)				
Interest expense	(24,000)	(24,000)	(30,117)	(6,117)
Debt service (principal)	(70,300)	(70,300)	(53,090)	17,210
Interest income	400	400	1,620	1,220
Total other revenues and (expenses)	(93,900)	(93,900)	(81,587)	12,313
NET INCOME	5 -		\$ 80,978	\$ 80,978

Note: Budgetary basis reflects loan proceeds as other revenue, principal payments on debt and capital equipment purchases as expenses, and does not reflect depreciation and amortization expense.



# TOWN OF BOONSBORO, MARYLAND WATER FUND FISCAL YEAR 2017 BUDGET

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Proposed Water Rates July 1, 2016	IR	OR	IC	OC
Water Fixed Fee	\$12	\$35	\$17	\$33
1-18000 gallons	\$5.40/1000 gal	\$8.00/1000gal	\$5.40/1000gal	\$8,00/1000gal
18001 + gallons	\$6,60/1000gal	\$10.00/1000gal	\$6.60/1000gal	\$10.00/1000gal

	FY14	FY15	FY16	FY17
Revenues				
Water Charges-Boonsboro	365,000	465,810	545,040	601,896
Keedysville Admin. Charges	45,196	45,196	54,546	68,629
Debt Service-Alt 40 Waterline	0	18,475	20,000	20,000
Connection Fees	0	0	20,000	20,000
User Fees	65,000	130,000	130,000	130,000
Interest Income	400	400	400	400
Other Income	100	100	100	100
Hydrants - Boonsboro	11,200	11,200	11,200	11,200
Total Revenues	486,896	671,181	\$781,286	\$852,225
Expenses				
Operations & Maintenance				
Salaries	107,000	131,000	180,000	235,000
Salaries-Overtime	5,000	5,000	5,000	0
Salarles-SP Overtime	0	4,000	5,000	0
Insurance - Property	4,000	4,000	4,000	4,000
Payroli Taxes	8,000	8,000	9,500	11,000
Audit Fees	6,000	6,500	5,000	6,000
Legal Fees	500	500	500	500
Advertising	0	500	500	500
Testing	1,000	1,000	1,000	1,000
Major Repair Expense	20,000	180,000	100,000	120,000
Maintenance & Repair	25,000	25,000	35,000	35,000
Uniforms	1,000	1,000	1,500	2,500
Cell Phones	1,000	1,000	2,000	2,500
Electricity	50,000	50,000	50,000	47,000
Heating	1,500	1,500	1,500	1,500 ~
Health Insurance Expense	34,000	34,000	36,000	40,000
Workers' Comp Ins Expense	10,000	10,000	11,000	11.000
Vehicle Expense	3,000	3,000	4,000	4,000)

## **EXHIBIT A**

	FY14	FY15	FY16	PYTA
Vehicle Gas	5,000	5,000	6,000	(6,000)
Meeting Expense	1,200	1,200	1,200	1,200
Training/Certification	1,000	1,000	2,000	2,000
Miscellaneous	100	100	100	100
Equipment Expense	2,500	2,500	10,000	10,000
Pension Expense	8,000	8,000	9,000	15,000
Chemicals	10,000	12,000	12,000	12,000
Maintenance Supplies	2,500	5,000	5,000	5,500
Office Supplies	3,500	3,500	3,500	4,000
Postage	1,500	1,500	2,500	3,000
Telephone	3,500	3,500	3,500	3,500
Contingency Fund	28,965	10,756	55,436	23,160 🗂
Connections - Water Meters	0	0	20,000	20,000
Loan Interest (SHA & Maple Ave)	28,965	32,000	20,000	8,900
Loan Interest Alt40 Waterline	0	2,610	4,000	4,000
MDE Alt40 Waterline Loan	0	19,300	19,300	19,300
Debt Service (SHA, Maple & CDA)	0	0	51,000	67,365
Capital Outlay	43,800	91,500	105,250	125,700
MDE-Filtration Debt Serv. Loan-	5,715	5,715	0	
Total Expenses	427,215	671,181	\$781,286	\$852,225

	PRINCIPAL	INTEREST
SHA Main Street	28834	3991
Maple Avenue Waterline	16000	4300
CDA Infrastructure	22531	609
TOTAL DEBT SERVICE/LOAN INTEREST	67365	8900

Capital Outlay Projects	
Water Plant Filters (6 total)	\$32,000
Replace Casing in Well #8	\$10,000
Replace 2004 Ford F350	\$13,500
Bobcat	\$6,700
New Handheld Meter Reader	\$6,500
Water Modeling	\$30,000
Weir Wall Stabilization	\$5,000
Meter Replacement	\$22,000
TOTAL PROPOSED FOR FY17	\$125,700
Estimate \$130,000 based on 20 tap fe	

# Boonsboro Water Fund Capital Expense FY16 and FY17

( FY	16 ¢apital in Audite	d Financial	Statement
Marie Conservation			
Description	Amount	Shared	Notes
Homesteader Water Trailer	\$4,413	\$4,413	
Ferguson Leak Finder	\$22,996	\$0	K paid its portion during FY16 by side agreement
Turbidity Meter Well #8	\$3,742	\$3,742	
Regal Gas Chlorinator Model 216	\$2,870	\$0	Previously capitalized in FY14; in service FY16
Windows Reservoir Building	\$4,399	\$4,399	
2016 Ford F-250	\$16,963	\$16,963	
2016 Ford F-150	\$10,875	\$10,875	
John Deere 210SK Backhoe Loader	\$16,500		
Turbidity Meter Keedysville Plant	\$14,874	\$14,874	
TOTAL	\$97,631	\$55,266	•

FY17 Capital Outlay in A	Adopted Budget			12/1/16 shared projections
Description	Amount	Shared		Notes
Water Plant Filters (6 total)	\$32,000	YES	49,200	
Replace Casing in Well #8	\$10,000	YES	5,000	Completed October 2016
Replace 2004 Ford F350	\$13,500	YES	16,378	
Bobcat	\$6,700	no	N/A	WILL NOT BE PURCHASING
New Handheld Meter Reader	\$6,500	YES	6,900	Reader and Wand - ordered Oct 2016
Water Modeling	\$30,000	no	N/A	
Weir Wall Stabilization	\$5,000	YES	5,000	
Meter Replacement (275)	\$22,000	no	N/A	WILL NOT BE CAPITALIZED
	\$125,700		\$82,478	<i>i</i>

Prepared: November 21, 2016 Megan and Austin

Boonsboro/Keedysville Regional Water System FY 2015/2016 Quarterly Usage Report

				11	2012/2010	∠ບ≀ວ/∠ບ≀o ປປarterly ປSage Report	sage Ke	FDOT.					
Fiscal YR		Finished W	later Pumpec	Finished Water Pumped From Source	ſ.	Monthly U	Isage Red	Monthly Usage Received Per Town	Town	Qtrly	Gallons Bill	Otrly Gallons Billed to Customers	ers
2015/2016	Kdysvlle	Well #8	Warrenfeltz & Park Well	& Park Well	Total	Boonsboro	%	Keedysville	%	Boonsboro	Lost	Keedysville	Lost
42,566	6,179,000	2,427,000	1,380,000	4,057,000	14,043,000	11,861,100	0.845	2,181,900	0.155				
42,597	6,126,000	2,427,000	1,500,000	3,948,000	14,001,000	11,273,000	0.805	2,728,000	0.195				
42,628	5,838,000	2,430,000	1,060,000	3,396,000	12,724,000	10,935,500	0.859	1,788,500	0.141				***************************************
1st Qfr	18,143,000	7,284,000	3,940,000	11,401,000	40,768,000	34,069,600	0.836	6,698,400	0.164	0.164 22,887,720	32.8%	4,829,035	27.9%
							7	40,768,000		27,716,755	-11,181,880		-1,869,365
Oct 15	5,896,000	2,356,000	2,080,000	4,506,000	14,838,000	13,057,500	0.880	1,780,500	0.120				
Nov 15	5,741,000	1,211,000	780,000	4,501,000	12,233,000	10,560,100	0.863	1,672,900	0.137				MIRE 2011
Dec 15	5,820,000	1,183,000	1,230,000	3,803,000	12,036,000	10,287,000	0.855	1,749,000	0.145				
2nd Otr	17,457,000	4,750,000	4,090,000	12,810,000	39,107,000	33,904,600	0.867	5,202,400	0.133	0.133 19,426,959	42.7%	4,394,140	15.5%
							()	39,107,000		23,821,099 -14,477,641	-14,477,641		-808,260
Jan 16	5,747,000	2,355,000	0	4,720,000	12,822,000	11,015,600	0.859	1,806,400	0.141				
Feb 16	5,271,000	2,138,000	0	4,590,000	11,999,000	10,342,000	0.862	1,657,000	0.138				
Mar 16	5,530,000	2,598,000	0	4,532,000	12,660,000	10,905,300	0.861	1,754,700	0.139				
3rd Qtr	16,548,000	7,091,000	0	13,842,000	37,481,000	32,262,900	0.861	5,218,100	0.139	0.139 18,794,196	41.7%	4,435,983	15.0%
							()	37,481,000		23,230,179	-13,468,704		-782,117
Apr 16	5,457,000	2,495,000	1,210,000	4,264,000	13,426,000	11,633,600	0.866	1,792,400	0.134				
May 16	5,485,000	2,538,000	570,000	4,138,000	12,731,000	10,758,800	0.845	1,972,200	0.155				
Jun 16	5,630,000	2,596,000	1,350,000	4,446,000	14,022,000	12,058,000	0.860	1,964,000	0.140				esemble.
4th Otr	16,572,000	7,629,000	3,130,000	12,848,000	40,179,000	34,450,400	0.857	5,728,600	0.143	0.143 21,380,687	37.9%	5,019,015	12.4%
					0				7	26,399,702 -13,069,713	-13,069,713		-709,585
Total 15/16	68,720,000	26,754,000	68,720,000 26,754,000 11,160,000	50,901,000	157,535,000	157,535,000 134,687,500	0.855 2	0.855 22,847,500	0.145	\$2,489,562	38.8%	38.8% 18,678,173	18.2%
Adjustments for meter calibrations outside of +/- 2%;	r meter calibr	ations outsic	de of +/- 2%:										
Last test result:													
Adjustment %													
Adj K gals	0												
Adj B gals	0	0	0	0	0	0	0.00	0	0 #DIV/0i	0	#DIV/0i	0	#DIV/0i

# Cost of Daily Operations Labor at Keedysville Tank and Booster Station FY16

By agreement between the Towns Keedysville is charged for 1/2 hour per day of water operator time for routine inspection and daily operations of the water tank and booster station in Keedysville,

Regular Time		Shumaker	DeGrange	Austin	Pereschuk	
Hourly rate		\$25 <i>.</i> 75	\$15.98	\$18,53	\$18.53	
Salary for fiscal year		\$53,563	\$33,248	\$38,548	\$38,548	
FICA + Medicare @7.65%	0.0765	4,098	2,543	2,949	2,949	
Health Ins (Annual Amt)		8,589	14,136	0	10,045	
Life Ins (Annual Amt)		178	146	178	167	
STD Ins (Annual Amt)		393	244	283	269	
Unemployment @.021 x \$8500						
Pension	0.07	3,749	2,327	2,698	2,698	
Total wage and benefit		\$70,570	\$52,645	\$44,656	\$54,676	\$222,547
Regular work hours/week		40	40	40	40	
Weeks employed		52	52	52	50	
Annual hours paid		2,080	2,080	2,080	2,000	
Less:						
Personal leave		-240	-160	-160	-120	
Total on job hours		1,840	1,920	1,920	1,880	7,560
Billing hourly rate		\$38,35	\$27.42	\$23.26	\$29.08	
Average rate for all 4			· · · · · · · · · · · · · · · · · · ·			\$29.44
Overtime Rate Saturday x1.5		\$38.63	\$23.97	\$27.80	\$27.80	
FICA + Medicare @7.65%	0.0765	2.95	1.83	2.13	2.13	
Pension 7% of all wages	0.07	2.70	1,68	1.95	1.95	
Total direct cost per hour		\$44.28	\$27.48	\$31.87	\$31.87	
Average of 4 employees	-		1			\$33.87
Overtime Rate Sunday x2.0		\$51.50	\$31.96	\$37.06	\$37.06	
FICA + Medicare @7.65%	0.0765	3.94	2.44	2.84	2.84	
Pension 7% of all wages	0.07	3.61	2.24	2.59	2.59	
Total direct cost per hour		\$59.04	\$36.64	\$42.49	\$42.49	
Average of 4 employees					· · · · · · · · · · · · · · · · · · ·	\$45.17

Day of the week	
Monday - Friday	
Saturday	
Sunday	
TOTAL	

Days in Yr	Hrs per Day	Rate per Hr	Total
262	0.5	\$29.44	\$3,856.31
52	0.5	\$33.87	\$880.74
52	0.5	\$45.17	\$1,174.33
366			\$5,911.38

Prepared: November 21, 2016 Megan and Austin

Prepared by: Megan and Austin

# Cost of Daily Operations Labor at Keedysville Tank and Booster Station FY17

By agreement between the Towns Keedysville is charged for 1/2 hour per day of water operator time for routine inspection and daily operations of the water tank and booster station in Keedysville.

Regular Time		Shumaker	DeGrange	Austin	Mose	
Hourly rate		\$26.52	\$16.46	\$19.09	\$18.53	
Salary		\$55,120	\$34,246	\$39,705	\$38,548	
FICA + Medicare @7.65%	0.0765	4,217	2,620	3,037	2,949	
Health Ins (Annual Amt)		8,243	13,641	0	6,553	
Life Ins (Annual Amt)		178	147	178	178	
STD Ins (Annual Amt)		393	244	283	283	
Unemployment @.021 x \$8500				· · · · · · · · · · · · · · · · · · ·		
Pension	0.07	3,858	2,397	2,779	2,698	
Total wage and benefit		\$72,009	\$53,295	\$45,983	\$51,209	\$222,497
Regular work hours/week		40	40	40	40	
Weeks employed		52	52		52	
Annual hours paid		2,080	2,080			
LESS: Personal Leave		-240	-160			
Total on job hours		1,840	1,920		1,960	7,640
Billing hourly rate		\$39.14	\$27.76	\$23.95	\$26.13	
Average rate for all 4						\$29.12
Overtime Rate Saturday x1.5		\$39.78	\$24.69	\$28.64	\$27.80	
FICA + Medicare @7.65%	0.0765	3.04	1.89	2.19	2.13	
Pension 7% of all wages	0.07	2.78	1.73	2.00	1.95	
		\$45.61	\$28.31	\$32.83	\$31.87	
Average of 4 employees					L	\$34.65
Overtime Rate Sunday x2.0		\$53.04	\$32.92	\$38.18	\$37.06	
FICA + Medicare @7.65%	0.0765	4.06	2.52	2.92	2.84	
Pension 7% of all wages	0.07	3.71	2,30	2.67	2.59	
		\$60.81	\$37.74	\$43.77	\$42.49	
Average of 4 employees						\$46.20
Day of the week	Γ	Days in Yr	Hrs per Day	Rate per Hr	Total	
Monday - Friday		261	0.5	\$29.12	\$3,800,50	

Day of the week	
Monday - Friday	
Saturday	
Sunday	
TOTAL	

Days in Yr	Hrs per Day	Rate per Hr	Total
261	0.5	\$29.12	\$3,800.50
52	0.5	\$34.65	\$900.98
52	0.5	\$46.20	\$1,201.30
365			\$5,902.78

Prepared: November 21, 2016 Megan and Austin

# Boonsboro Billing and Customer Accounting for Keedysville Accounts

Amount \$34,258 2,621 12,516 178 283 179 2,398 \$52,432

			í	Water/sewer clerk		<u></u>	Rate
Quan	Cost	Cost   Sub-Tot   Total		Annual wages	2	2,080	16.47
Postage:				진			0,0765
4 Bills per account 1,560	0.467	729		Health		<del></del>	
Late Notices 352	0.467	164	•	Life			
Disconnection Reminder 180	0.467	84		STD			
Disconnection Notice 32	0	0 \$977		Unemployment (first \$8,500)			0.021
				Pension			0.07
Billing and Reminder Supplies:			•	Total wage and benefits		·····	1
Billing sheets 2,124	0.09	193	<del></del>				Л
BKRWB envelopes 2,092	0.15	316	<b></b>	Work hours			
Return envelopes 2,092	0.15	316 824	4	40*52			
				LESS: Personal Leave			
Computer/Printer Supplies:				Total on job hours			
Supplies, paper & ink		200 200	0				
				Billing rate per hour			
Billing and Customer Accounting:							
Run sets of bills, separate, sort, stuff, includes inserts,	s,						
Enter new customers, posting, send reminders,			<u></u>	Admin breakdown - water and sewer - 8 hour day:	ewer - 8 hour day:	<u>L</u>	Keedvs
follow-up on delinquent bills, disconnection/reconnection	ection			Description	% Hours		%
of water services, make deposits, maintain monthly				Payment Posting	30% 2.4		10%
bank statements, prepare quarterly reports and annual	-ja-			Window/Phone	40% 3.2		2%
administrative fees report (from charts at right)		3,464	4	Work Orders	15% 1.2		7%
			-/	Admin/Reports	15% 1.2		3%
TOTAL BILLING + CUSTOMER ACCOUNT COST		\$5,465	<u>্</u>	Note: above includes billing	hours/day		
			_ _		morb days (260-11 holidays)	المريداداء	

2080 -120 1960

\$26.75

	Admin breakdown - water and sewer - 8 hour day:	wer - 8	hour day:	Keed	Keedysville
	Description	%	Hours	%	hrs/day
	Payment Posting	30%	2.4	10%	0.240
	Window/Phone	40%	3.2	2%	0.160
	Work Orders	15%	1.2	7%	0.084
	Admin/Reports	15%	1.2	3%	0.036
No. of Street, or other Persons	Note: above includes billing	hours/day	/day		0.520
200		work	work days (260-11 holidays)	(SY	249
		hours/year	/year		129
		Billing	Billing rate/hr from above	41	26.75
					\$3,464

78.2%

1395

No. Boonsboro Accounts No. Keedysville Accounts

Keedysville Annual Recap FY11 - FY17

	Total Gallons	% Pumped		\$/1,000 Gal	Gallons Metered to K	\$/1,000 Gal. Metered to K	Total Shared Capital	
	Pumped	to K	K Annual Cost	Pumped	Customers	Customers	(K portion Incl.)	Billing Fees (incl.)
FY11	31,025,000	18.6%	\$39,264	\$1.27			0\$	\$2.564
FY12	26,296,000	15.8%	\$40,908	\$1.56	19,519,970	\$2.10	\$20.257	\$2,63
FY13	23,012,000	14.5%	\$38,102	\$1.66	19,687,738	\$1.94	\$13,553	808 C\$
FY14	23,473,000	14.8%	\$47,993	\$2.04	18,819,588	\$2.55	\$71.327	\$2 628
FY15	23,379,000	14.1%	\$46,440	\$1.99	19,227,111	\$2.42	\$14.737	\$2,020 \$7,886
FY16	22,847,500	14.5%	\$72,308	\$3.16	18,678,173	\$3.87	\$55,266	\$5,653
FY17 projected	22,500,000	15.0%	\$82,915	\$3.69	19,000,000	\$4.36	\$82.478	\$5.465

Prepared: November 28, 2016 (Austin)

### WATER FUND 5-YEAR CIP

FISCAL		•
YEAR	WATER FUND CIP PROJECTS	ESTIMATED COST
FY14	Upgrade Keedysville Spring House	\$10,000
FY14	Water Audit	\$15,000
FY14	Maple Ave W/L Replacement	\$85,000
FY15	Leak Detection Survey	\$7,500
FY15	Septum Sleeves for Keedsyville	\$14,000
FY15	Automatic Flusher @ Mill Point	\$1,000
FY15	Replace Meters with R900 Radio Read Meters (100)	\$20,000
FY16	Boonsboro Water Plant Turbidity Meters (6)	\$15,000
FY16	Clean Clear Wells/Resorvoir/Water Tower	\$7,000
FY16	Replace Meters with R900 Radio Read Meters (100)	\$20,000
FY17	Filters for Water Plants (6 total @ \$5,000 each)	\$30,000
FY17	Replace Casing in Well #8	\$10,000
FY17	Replace K Chlorine Analyzer	\$3,500
FY17	Keedysville Turbidity Meters (4)	\$13,000
FY17	Shafer Park Well Rehab	\$50,000
FY17	Replace Meters with R900 Radio Read Meters (100)	\$20,000
FY17	Water Modeling	\$20,000
	TOTAL FY17	\$133,500
FY18	Rebuild High Service Pump at Boonsboro Water Plant (3)	\$22,500
FY18	Clean Clear Wells/Resorvoir/Water Tower	\$8,000
FY18	VFD Drives and Pump Controls	\$25,000
FY18	Replace Meters with R900 Radio Read Meters (100)	\$20,000
FY18	Replace Raw, Finished/Combo & Warrenfeltz Meter & Display	\$12,000
	TOTAL FY18	\$87,500
FY19	Resorvoir Metering	\$5,000
FY19	Replace Meters with R900 Radio Read Meters (100)	\$20,000
FY19	Waterline Replacement/Rehabilitation	\$100,000
FY19	Utility Truck Replacement	\$15,000
	TOTAL FY19	\$140,000
FY20	Generator @ Keedysville Plant	\$60,000
FY20	Replace Meters with R900 Radio Read Meters (100)	\$20,000
FY20	Replace Septum Sleeves in Boonsboro and Keedysville (6)	\$48,000
	TOTAL FY20	\$128,000
FY21	Shafer Park Well Bore and Casing	\$75,000
FY21	Crestview Well Rehabilitation	\$50,000
	TOTAL FY21	\$125,000
FY22	Waterline Replacement/Rehabilitation	\$1,000,000
	Chestnut Waterline Replacement (8")	\$150,000
	Enclosed Trailer for Waterleak Equipment	\$2,500
	Knode Circle Waterline	\$150,000
		7 200,000

# COMPLETED PROJECTS FY17

Cost	\$16.881.00		\$230,000.00	\$7,222.00	\$11.745.00	\$2,860.00	\$28,500.00	\$5,000.00	\$12,676.00	\$314,884.00	\$14,873.00	\$89.843.00	\$27,837,00	\$16 500 00	\$4.000.00	44,440	00.001,154	\$12,824.00	\$199,655.00										
Project Status	Completed FY15	Postponed	Completed FY15	Spring 2015	Completed	Completed	Replaced 126 Meters	Completed	Completed		Completed	Replaced 295 Res.Meters, Lids	Completed	Completed	Completed	Completed	Not Budgeto (Bossis	Not Budgeted/Repair		Est. Actual	000 875	\$4,200	092.915	0\$	005 85				096'881\$
ESTIMATED COST	\$10,000	\$15,000	\$85,000	\$7,500	\$14,000	\$1,000	\$20,000			\$130,000	\$15,000	\$20,000	\$40,000	\$17,500	\$2,500	\$9,000			\$130,000		\$32,000	\$10,000	\$13,500	\$6,700	\$6,500	\$30,000	\$5,000	\$22,000	\$125,700
WATER CIP	Upgrade Keedysville Spring House	Water Audit	Maple Ave W/L Replacement	Leak Detection Survey	Septum Sleeves for Keedsyville	Automatic Flusher @ Mill Point	Replace Meters with R900 Radio Read Meters (100)	Clean Clear Wells/Resorvoir/Water Tower	Hydrotracking Shafer Park Well & Pump Replacement	IOIAL FY15 CIP Projected	Reedysville Water Plant Turbidity Meters (6)	Replace Meters with R900 Radio Read Meters (100)	Utility Trucks (2)	Backhoe	Enclosed Water Trailer	Correlator	Shafer Park Well Rehab	Park Well Pump Controller	TOTAL FY16	FY2017 Approved Capital Outlay Projects	Water Plant Filters (6 total)	Replace Casing in Well #8	Replace 2004 Ford F350	Bobcat	New Handheld Meter Reader	Water Modeling	Weir Wall Stabilization	Meter Replacement	TOTAL PROPOSED FOR FY17
	FY15	FY1.5	FY15	FYTS	FY15	FYIS	PY15	F415	FY15	į	FYIT6	FY16	FY16	FY16	FY16	FY16	FY16	FY16											