

Office of

AUBURN WATER DISTRICT

Office Telephone # 784-6469

The regular monthly meeting of the Trustees of the Auburn Water District will be held at the office of the Auburn Water District, 268 Court Street, on Wednesday, December 18, 2013 at 4:00 P.M.

AGENDA

1. Approve Minutes of Regular Meeting of November 20, 2013.
2. Approve Minutes of Public Hearing of November 20, 2013.
3. Monthly Financial Report Update - *Greg Leighton*.
4. Ratify Payment of Bills.
5. Open session.
6. Activity Report - *Sid Hazelton*
7. New Business
 - Approve 2014 Meeting Dates.
8. Old Business
 - Revisions to 2014 Draft Budget
 - Executive Session per 1 M.R.S.A. § 405 (6) (D) to discuss 2014 Budget Items as they pertain to personnel and benefits. (***Only if necessary***)
 - Budget Adoption timing - *Budget Adoption Meeting set for 5:30 PM (joint Water & Sewer Meeting, to include Public Hearing for formal Budget Adoption)*
9. Adjourn Regular Meeting.

November 20, 2013

The regular monthly meeting of the Trustees of the Auburn Water District was held on Wednesday, November 20, 2013 at the office of the Auburn Water District, 268 Court Street at 4:00PM.

Members present: President, K.C. Geiger and Treasurer, Preston Chapman. Trustees: Lee Upton, Rick Whiting, James Wilkins and Robert Cavanagh. Also present: Tizz Crowley, Mayor's Representative, John Storer, Superintendent, Sid Hazelton, District Engineer and Greg Leighton of Maine Water Company.

On motion of James Wilkins, seconded by Tizz Crowley, it was unanimously voted: **To approve the minutes of the Regular Meeting of October 16, 2013.**

On motion of James Wilkins, seconded by Rick Whiting, it was unanimously voted: **To move into Executive Session per 1 M.R.S.A. § 405 (6) (A) to discuss a personnel issue.**

On motion of Robert Cavanagh, seconded by Rick Whiting, it was unanimously voted: **To come out of Executive Session.**

FINANCIAL REPORT UPDATE – The forecast is for a surplus of \$100,000-\$120,000 at year end.

RATIFY PAYMENT OF BILLS

On motion of Tizz Crowley, seconded by Preston Chapman, it was unanimously voted: **To ratify the payment of bills in the amount of \$ 949,069.04 as shown on the printout dated October 12, 2013- November 11, 2013.**

OPEN SESSION : As no one from the public was in attendance, the Open Session was closed.

ACTIVITY REPORT : The October Activity Report was presented by Sid Hazelton.

NEW BUSINESS -

PAYROLL & BENEFITS WORKSHOP – A joint workshop was scheduled for Tuesday, December 3rd at 5:00PM. The Meetings of December 10 and 11 were cancelled. The December meetings are as follows:

December 17 @ 4:00pm Sewer District meeting
December 18 @ 4:00pm Water District meeting
December 18 @ 5:00pm Joint Water & Sewer District Budget meeting
December 18 @ 6:00pm Public Hearing

REVIEW DRAFT 2014 BUDGET - The budget reflects 8/10 of a mile of work in 2014.

OLD BUSINESS - The odor issues related to the algae in the Lake seem to have gone away. Mary Jane Dillingham thinks that hydrogen peroxide has a lot of promise but must check with the Drinking Water Program as to what would be an allowable dosage. The free chlorine location has been changed which has been working with the flushing of dead ends.

ADJOURN THE MEETING

On motion of Preston Chapman, seconded by James Wilkins, it was unanimously voted: **To adjourn the meeting.**

November 20, 2013

A Public Hearing on the proposed water rate increase was held by the Trustees of the Auburn Water District at Auburn City Hall, Community Room (Room 206) on Wednesday, November 20, 2013 at 5:00pm.

Present:

Auburn Water District

Public

James Wilkins
Preston Chapman
Lee Upton
K.C. Geiger
Robert Cavanagh
Rick Whiting
Tizz Crowley
Sid Hazelton
John Storer
Greg Leighton

Peter Vondell, 153 Broad Street
Eric Brakey, Candidate for State Senate

**WELCOME & INTRODUCTION BY WATER DISTRICT TRUSTEE
PRESIDENT, KC GEIGER**

**PRESENTATION OF PROPOSED RATE INCREASE BY SUPERINTENDENT
JOHN STORER**

The Auburn Water District water rates are currently the second lowest in the State. The District has filed for a 9.8% across-the-board rate increase with the Maine Public Utilities Commission on October 2, 2013 which is available for inspection at the Auburn Water District office at 268 Court Street. This proposed increase will make Auburn's rates the fifth lowest in the State. The District's minimum will be \$35.34 with the State's average being \$63.35. The increase for the minimum user will be \$3.17 per quarter.

PUBLIC COMMENTS AND QUESTIONS

Peter Vondell of 153 Broad Street accused the District of being crooks. He said he attended the last public hearing in 2011 and had been assured that the District would look into revising the minimum rate to benefit the customers who conserve their use of water. He refuses to pay his bill until the District revises its minimum rates. Trustee K.C. Geiger explained to him that the District has included a study of its rates in the 2014 budget. Peter Vondell left the meeting with no further comments.

Eric Brakey , Candidate for the State Senate, did not have any questions. He attended the meeting to gain some knowledge about the District. Trustee Rick Whiting did say to him that the District would look for support for future Bonds for improvements to the water and sewer infrastructures.

ACTION BY THE BOARD OF TRUSTEES

On motion of James Wilkins, seconded by Rick Whiting, it was unanimously voted: **To approve the across-the-board rate increase of 9.8%.**

ADJOURN THE MEETING

On motion of Tizz Crowley, seconded by Robert Cavanagh, it was unanimously voted: **To adjourn the meeting.**

**AUBURN WATER DISTRICT
OPERATING STATEMENT - TRUSTEES' REPORT
ELEVEN MONTHS ENDED NOVEMBER 30, 2013**

	November	2013	Y-T-D NOVEMBER 2013		
	YTD - 2012	BUDGET	ACTUAL	BUDGET	VARIANCE
REVENUES:					
Water Sales	\$1,961,199	\$2,151,969	\$1,957,175	\$1,972,638	(\$15,464)
Rent income	49,638	54,165	49,916	49,651	265
Interest Income	18,547	17,000	10,958	15,583	(4,626)
Mdse. & Jobbing	101,698	30,000	43,567	27,500	16,067
Hydrant Rental	511,840	556,918	511,839	510,508	1,331
Private Fire Prot.	249,846	273,845	254,456	251,025	3,432
Misc. Op. Revenue	50,438	51,000	51,685	46,750	4,935
TOTAL REVENUES	2,943,206	3,134,897	2,879,596	2,873,656	5,941
			91.86%	91.67%	< Standard
EXPENSES:					
Payroll	572,324	661,872	636,575	606,716	29,859
Pump Stations:					
Chemicals	67,422	94,815	66,982	86,914	(19,931)
Power	149,716	130,414	127,835	119,546	8,289
Other	420	6,371	1,240	5,840	(4,600)
Trans & Dist Maint:					
Maint of Mains	62,602	67,519	56,260	61,892	(5,633)
Dist System	73,034	73,449	82,333	67,328	15,004
Outside Lab	15,038	22,085	19,455	20,245	(789)
UV Operations & Internal Lab	56,878	54,762	85,236	50,199	35,037
UV Flood	0	0	15,706	0	15,706
Administration	454,468	506,735	446,002	464,507	(18,505)
Vehicles	61,574	69,829	73,019	64,010	9,009
Gull Management	88,892	87,599	75,377	80,299	(4,922)
Lake Auburn Watershed	166,103	187,558	201,170	171,928	29,242
SUB-TOTAL	1,768,471	1,963,008	1,887,190	1,799,424	87,766
			96.14%	91.67%	< Standard
Interest	185,845	186,810	171,855	171,243	612
TOTAL EXPENSES	1,954,316	2,149,818	2,059,045	1,970,667	88,378
Bonds - Principal Payments	809,850	815,203	815,202	747,269	67,933
SURPLUS FROM OPERATIONS	179,040	169,876	5,349	155,720	(150,371)

**Auburn Water District
Accounts Payable Numeric Check Register
November 12, 2013 thru December 13, 2013**

<u>Check #</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Inv #</u>	<u>Description</u>	<u>Amount</u>
6286	11/22/201	11	Rodney H. Bates	11/14/2013	3300	mileage & tolls-	90.37
							90.37
6287	11/22/201	11	Bel-Tone Answering Ser	11/13/2013	1613A	Oct & Nov panic button	8.71
6287	11/22/201	11	Bel-Tone Answering Ser	11/13/2013	1613A	Oct & Nov panic button	8.71
6287	11/22/201	12	Bel-Tone Answering Ser	11/13/2013	1607B	Dec	37.83
6287	11/22/201	12	Bel-Tone Answering Ser	11/13/2013	1607B	Dec	37.82
							93.07
6288	11/22/201	11	Dead River Company	11/13/2013	85637	UV Tank #5	360.33
6288	11/22/201	11	Dead River Company	11/13/2013	85637	UV Tank #5	360.33
							720.66
6289	11/22/201	11	Mary Jane Dillingham	11/18/2013	3317	reimburse-meeting	31.64
							31.64
6290	11/22/201	11	W.E. Fenderson's Septic	11/19/2013	3314	Lynne-Waterhed	225.00
							225.00
6291	11/22/201	11	Gilman Electrical Dist.	11/15/2013	790204	Court St	50.10
6291	11/22/201	11	Gilman Electrical Dist.	11/15/2013	790204	Court St	50.10
6291	11/22/201	11	Gilman Electrical Dist.	11/15/2013	790242	UV	16.18
6291	11/22/201	11	Gilman Electrical Dist.	11/15/2013	790242	UV	16.18
6291	11/22/201	11	Gilman Electrical Dist.	11/15/2013	790250	UV	37.63
6291	11/22/201	11	Gilman Electrical Dist.	11/15/2013	790250	UV	37.63
6291	11/22/201	11	Gilman Electrical Dist.	11/19/2013	333640	UV crdeit for returns	-45.72
6291	11/22/201	11	Gilman Electrical Dist.	11/19/2013	333640	UV crdeit for returns	-45.72
6291	11/22/201	11	Gilman Electrical Dist.	11/20/2013	790390	UV	70.56
6291	11/22/201	11	Gilman Electrical Dist.	11/20/2013	790390	UV	70.56
6291	11/22/201	11	Gilman Electrical Dist.	11/20/2013	790835	UV	342.10
6291	11/21/201	11	Gilman Electrical Dist.	11/19/2013	333640	VOID CREDIT	45.72
6291	11/21/201	11	Gilman Electrical Dist.	11/19/2013	333640	VOID CREDIT	45.72
6291	11/21/201	11	Gilman Electrical Dist.	11/20/2013	790835	VOID	-171.05
6291	11/21/201	11	Gilman Electrical Dist.	11/20/2013	790835	VOID	-171.05
6291	11/21/201	11	Gilman Electrical Dist.	11/15/2013	790204	VOID	-50.10
6291	11/21/201	11	Gilman Electrical Dist.	11/15/2013	790204	VOID	-50.10
6291	11/21/201	11	Gilman Electrical Dist.	11/15/2013	790242	VOID	-16.18
6291	11/21/201	11	Gilman Electrical Dist.	11/15/2013	790242	VOID	-16.18
6291	11/21/201	11	Gilman Electrical Dist.	11/15/2013	790250	VOID	-37.63
6291	11/21/201	11	Gilman Electrical Dist.	11/15/2013	790250	VOID	-37.63
6291	11/21/201	11	Gilman Electrical Dist.	11/20/2013	790390	VOID	-70.56
6291	11/26/201	11	Gilman Electrical Dist.	11/20/2013	790390	VOID	-70.56
6291	11/26/201	11	Gilman Electrical Dist.	11/19/2013	033364	uv CREDIT	-45.72
6291	11/26/201	11	Gilman Electrical Dist.	11/19/2013	033364	uv CREDIT	-45.72
6291	11/26/201	11	Gilman Electrical Dist.	11/20/2013	079083	UV	349.08
6291	11/26/201	11	Gilman Electrical Dist.	11/21/2013	333552	Credit -UV	-349.08
6291	11/26/201	11	Gilman Electrical Dist.	11/15/2013	079020	Court St	50.10
6291	11/26/201	11	Gilman Electrical Dist.	11/15/2013	079020	Court St	50.10
6291	11/26/201	11	Gilman Electrical Dist.	11/15/2013	079024	UV	16.18
6291	11/26/201	11	Gilman Electrical Dist.	11/15/2013	079024	UV	16.18
6291	11/26/201	11	Gilman Electrical Dist.	11/15/2013	079025	UV	37.63

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6291	11/26/201	11	Gilman Electrical Dist.	11/15/2013	079025UV		37.63
6291	11/26/201	11	Gilman Electrical Dist.	11/20/2013	079039UV		70.56
6291	11/26/201	11	Gilman Electrical Dist.	11/20/2013	079039UV		70.56
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	790204void ck#6291		-50.10
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	790204void ck#6291		-50.10
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	790242void ck#6291		-16.18
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	790242void ck#6291		-16.18
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	790250void ck#6291		-37.63
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	790250void ck#6291		-37.63
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	790390void ck#6291		-70.56
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	790390void ck#6291		-70.56
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	333640void ck#6291		45.72
6291	12/13/201	11	Gilman Electrical Dist.	11/27/2013	333640void ck#6291		45.72
							0.00
6292	11/22/201	12	Group Dynamic Inc	11/12/2013	3316 Dec		82.50
							82.50
6293	11/22/201	10	K & K Excavation, Inc.	11/1/2013	13162 Spring Rd & stock		270.20
6293	11/22/201	10	K & K Excavation, Inc.	11/1/2013	13162 Spring Rd & stock		958.36
							1,228.56
6294	11/22/201	11	Jetcc Training	11/21/2013	3321 Whiting, Crowley, Storer-meeti		45.00
							45.00
6295	11/22/201	10	Bisson Enterprises, Inc. I	10/31/2013	13492 Court St		282.50
6295	11/22/201	10	Bisson Enterprises, Inc. I	10/31/2013	13492 Court St		282.50
6295	11/22/201	10	Bisson Enterprises, Inc. I	10/31/2013	13493 UV Oct		206.00
6295	11/22/201	10	Bisson Enterprises, Inc. I	10/31/2013	13493 UV Oct		206.00
							977.00
6296	11/22/201	10	Maine Oxy-Acetylene Cc	10/30/2013	309333shop-acetylene		27.87
6296	11/22/201	10	Maine Oxy-Acetylene Cc	10/30/2013	309333shop-acetylene		27.86
							55.73
6297	11/22/201	11	Treasurer, State of Maine	11/19/2013	3309 Bell -water op lic		75.00
6297	11/22/201	11	Treasurer, State of Maine	11/19/2013	3310 Dillingham-water oper lic		75.00
6297	11/22/201	11	Treasurer, State of Maine	11/19/2013	3311 Hamann water oper lic		75.00
6297	11/22/201	11	Treasurer, State of Maine	11/19/2013	3312 Stevens water oper lic		75.00
6297	11/22/201	11	Treasurer, State of Maine	11/19/2013	3313 Storer water oper lic		75.00
6297	11/22/201	11	Treasurer, State of Maine	11/20/2013	3318 Bouyea water oper lic		75.00
6297	11/22/201	11	Treasurer, State of Maine	11/20/2013	3319 Whitlock- water oper lic		75.00
6297	11/22/201	11	Treasurer, State of Maine	11/20/2013	3320 Bates-water oper lic		75.00
							600.00
6298	11/22/201	10	Maine Water Company	10/31/2013	16846 Leighton-October		2,200.00
6298	11/22/201	10	Maine Water Company	10/31/2013	16846 Leighton-October		2,200.00
							4,400.00
6299	11/22/201	10	Northern Data Systems, I	10/31/2013	3336 Oct		986.24
6299	11/22/201	10	Northern Data Systems, I	10/31/2013	3336 Oct		986.24
6299	11/22/201	11	Northern Data Systems, I	10/31/2013	3337 rate increase notices		4,555.08
							6,527.56
6300	11/22/201	11	Oxford Networks	11/7/2013	3315 Nov		132.64

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6300	11/22/201	11	Oxford Networks	11/7/2013	3315	Nov	62.50
6300	11/22/201	11	Oxford Networks	11/7/2013	3315	Nov	62.50
6300	11/22/201	11	Oxford Networks	11/7/2013	3315	Nov	137.52
6300	11/22/201	11	Oxford Networks	11/7/2013	3315	Nov	12.52
6300	11/22/201	11	Oxford Networks	11/7/2013	3315	Nov	132.63
							540.31
6301	11/22/201	11	Petro's	9/19/2013	76469	Watershed	49.99
							49.99
6302	11/22/201	10	E.J. Prescott, Inc.	10/29/2013	473963	Watershed	8,463.60
6302	11/22/201	10	E.J. Prescott, Inc.	10/29/2013	474220	Watershed	3,291.40
6302	11/22/201	10	E.J. Prescott, Inc.	10/30/2013	474225	Spring Rd	770.00
6302	11/22/201	11	E.J. Prescott, Inc.	10/31/2013	474315	vas usage	108.70
6302	11/22/201	11	E.J. Prescott, Inc.	10/31/2013	474315	vas usage	194.85
6302	11/22/201	11	E.J. Prescott, Inc.	10/31/2013	474315	vas usage	14.16
6302	11/22/201	11	E.J. Prescott, Inc.	10/31/2013	474315	vas usage	79.06
6302	11/22/201	11	E.J. Prescott, Inc.	10/30/2013	474173	Ice Arena	1,073.00
							13,994.77
6303	11/22/201	11	EIC., Inc. (prompto)	11/18/2013	623296	tk #16	34.28
							34.28
6304	11/22/201	11	Reggie's Sales & Service	11/12/2013	182447	gas cap	4.98
6304	11/22/201	11	Reggie's Sales & Service	11/12/2013	182447	gas cap	4.97
							9.95
6305	11/22/201	11	Super Shoe Stores, Inc.	11/12/2013	005844	Stevens / Hamann	231.44
6305	11/22/201	11	Super Shoe Stores, Inc.	11/12/2013	005844	Stevens / Hamann	148.48
							379.92
6306	11/22/201	11	Unifirst Corp	8/30/2013	205593	UV -August	87.16
6306	11/22/201	11	Unifirst Corp	8/30/2013	205593	UV -August	87.15
							174.31
6307	11/22/201	11	V W R Scientific	11/1/2013	805577	lab supplies	499.57
6307	11/22/201	11	V W R Scientific	11/1/2013	805577	lab supplies	362.65
6307	11/22/201	11	V W R Scientific	11/1/2013	805577	lab supplies	362.65
6307	11/22/201	11	V W R Scientific	11/1/2013	805577	lab supplies	499.57
							1,724.44
6308	11/27/201	11	Androscoggin Registry O	11/26/2013	3322	release lien	22.00
							22.00
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	155.45
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	35.67
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	394.06
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	315.37
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	72.93
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	79.97
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	356.95
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	198.60
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	77.73
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	86.68
6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	441.08

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6309	11/27/201	10	City of Auburn	11/7/2013	109801	Oct gas	492.10
							2,706.59
6310	11/27/201	11	Constellation NewEnergy	11/8/2013	122335	Court St	614.33
							614.33
6311	11/27/201	11	DirigoNet	11/1/2013	1534	Nov spam& time	46.25
6311	11/27/201	11	DirigoNet	11/1/2013	1534	Nov spam& time	46.25
							92.50
6312	11/27/201	11	Gilman Electrical Dist.	11/19/2013	Cr3336	UV credits	-45.72
6312	11/27/201	11	Gilman Electrical Dist.	11/19/2013	Cr3336	UV credits	-45.72
6312	11/27/201	11	Gilman Electrical Dist.	11/15/2013	007902	Court St	50.10
6312	11/27/201	11	Gilman Electrical Dist.	11/15/2013	007902	Court St	50.10
6312	11/27/201	11	Gilman Electrical Dist.	11/15/2013	007902	UV	16.18
6312	11/27/201	11	Gilman Electrical Dist.	11/15/2013	007902	UV	16.18
6312	11/27/201	11	Gilman Electrical Dist.	11/15/2013	007902	UV	37.63
6312	11/27/201	11	Gilman Electrical Dist.	11/15/2013	007902	UV	37.63
6312	11/27/201	11	Gilman Electrical Dist.	11/20/2013	007903	UV	70.56
6312	11/27/201	11	Gilman Electrical Dist.	11/20/2013	007903	UV	70.56
							257.50
6313	11/27/201	11	Grainger	11/5/2013	928784	D Tribou	275.64
							275.64
6314	11/27/201	11	Harcros Chemicals, Inc.	11/8/2013	300118	hypo for UV & Chloramine	354.20
6314	11/27/201	11	Harcros Chemicals, Inc.	11/8/2013	300118	hypo for UV & Chloramine	1,772.42
							2,126.62
6315	11/27/201	11	Horizon Solutions, LLC	11/5/2013	413441	cable for UV	266.71
6315	11/27/201	11	Horizon Solutions, LLC	11/5/2013	413441	cable for UV	266.71
							533.42
6316	11/27/201	11	K & K Excavation, Inc.	11/8/2013	13186	Spring Rd	1,560.83
							1,560.83
6317	11/27/201	11	Kennebec Equip. Rental	11/13/2013	214471	Washington St water leak	35.00
6317	11/27/201	11	Kennebec Equip. Rental	11/19/2013	214727	compressor fitting	8.30
							43.30
6318	11/27/201	11	K. L. Jack & Co., Inc.	11/19/2013	538341	tk#33, gloves, glasses	39.90
6318	11/27/201	11	K. L. Jack & Co., Inc.	11/19/2013	538341	tk#33, gloves, glasses	5.74
6318	11/27/201	11	K. L. Jack & Co., Inc.	11/19/2013	538341	tk#33, gloves, glasses	5.33
6318	11/27/201	11	K. L. Jack & Co., Inc.	11/19/2013	538341	tk#33, gloves, glasses	11.07
							62.04
6319	11/27/201	11	Travis Leavitt	11/26/2013	3323	Leavitt	75.47
6319	11/27/201	11	Travis Leavitt	11/26/2013	3324	Leavitt	93.47
							168.94
6320	11/27/201	10	City of Lewiston	11/6/2013	600-40	Rodrigue-Oct	39.72
6320	11/27/201	10	City of Lewiston	11/6/2013	600-40	Rodrigue-Oct	2,406.95
6320	11/27/201	10	City of Lewiston	11/6/2013	600-40	Rodrigue-Oct	1,773.15
6320	11/27/201	10	City of Lewiston	11/6/2013	600-40	Rodrigue-Oct	594.10
							4,813.92
6321	11/27/201	11	E.J. Prescott, Inc.	11/12/2013	474783	credit for Littlefield Br	-2,157.79

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6321	11/27/201	11	E.J. Prescott, Inc.	9/30/2013	472847	cycle count variance	2,197.96
							40.17
6322	11/27/201	11	Redlon & Johnson	11/21/2013	213338	stock-brass nipples	14.45
							14.45
6323	11/27/201	11	Rent-It Of Maine, Inc.	11/7/2013	35695	Spring Rd	1,570.36
6323	11/27/201	11	Rent-It Of Maine, Inc.	11/5/2013	35768	Spring Rd	157.25
							1,727.61
6324	12/6/2013	11	Affordable Business Mac	11/26/2013	1474	repair typewriter	30.00
6324	12/6/2013	11	Affordable Business Mac	11/26/2013	1474	repair typewriter	30.00
							60.00
6325	12/6/2013	11	Al's Auto & Truck Garag	11/26/2013	3373	tk 28 heater repair	96.29
							96.29
6326	12/6/2013	12	Androscoggin Registry O	12/5/2013	3338	place liens	44.00
							44.00
6327	12/6/2013	11	Analytical Services, Inc.	11/22/2013	21760	Nov water test	197.00
6327	12/6/2013	11	Analytical Services, Inc.	11/22/2013	21760	Nov water test	197.00
							394.00
6328	12/6/2013	11	City of Auburn	11/7/2013	109814	fire alarm box 19	212.50
6328	12/6/2013	11	City of Auburn	11/7/2013	109814	fire alarm box 19	212.50
							425.00
6329	12/6/2013	12	Auto City of Maine Inc.	11/26/2013	9247	tk#16 shelves	1,344.00
							1,344.00
6330	12/6/2013	12	Steve J. Bell	12/2/2013	3336	Bell	253.20
							253.20
6331	12/6/2013	11	Rodney H. Bates	11/15/2013	3301	Nov cell	30.00
6331	12/6/2013	12	Rodney H. Bates	11/15/2013	3305	Dec cell	30.00
							60.00
6332	12/6/2013	11	Bell/Simons Companies	11/27/2013	S93141	UV	8.24
6332	12/6/2013	11	Bell/Simons Companies	11/27/2013	S93141	UV	8.23
							16.47
6333	12/6/2013	12	Michael Broadbent	11/15/2013	3306	Dec cell	30.00
							30.00
6334	12/6/2013	11	George Buker, Jr.	11/27/2013	3328	Spring Rd	120.00
							120.00
6335	12/6/2013	11	Coastal Metal Fab, Inc.	11/26/2013	52931	sander parts	32.00
6335	12/6/2013	11	Coastal Metal Fab, Inc.	11/26/2013	52931	sander parts	32.00
							64.00
6336	12/6/2013	11	Dead River Company	11/25/2013	32334	UV tnk#5	415.26
6336	12/6/2013	11	Dead River Company	11/25/2013	32334	UV tnk#5	415.25
							830.51
6337	12/6/2013	11	DirigoNet	12/2/2013	1548	Dec & Chloramine	25.00
6337	12/6/2013	11	DirigoNet	12/2/2013	1548	Dec & Chloramine	25.00
6337	12/6/2013	11	DirigoNet	12/2/2013	1548	Dec & Chloramine	42.50
6337	12/6/2013	11	DirigoNet	12/2/2013	1548	Dec & Chloramine	42.50

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							135.00
6338	12/6/2013	12	John B. Storer	11/15/2013	3304	dEC MILEAGE	175.00
6338	12/6/2013	12	John B. Storer	11/15/2013	3304	dEC MILEAGE	175.00
							350.00
6339	12/6/2013	11	Gilman Electrical Dist.	11/27/2013	791926	Court St light repair	2.95
6339	12/6/2013	11	Gilman Electrical Dist.	11/27/2013	791926	Court St light repair	2.94
6339	12/6/2013	12	Gilman Electrical Dist.	12/2/2013	791962	Court	33.54
6339	12/6/2013	12	Gilman Electrical Dist.	12/2/2013	791962	Court	33.53
6339	12/6/2013	12	Gilman Electrical Dist.	12/2/2013	792035	UV	10.88
6339	12/6/2013	12	Gilman Electrical Dist.	12/2/2013	792035	UV	10.88
							94.72
6340	12/6/2013	11	Home Depot Credit Servi	11/25/2013	3333	Nov	544.25
6340	12/6/2013	11	Home Depot Credit Servi	11/25/2013	3333	Nov	54.13
6340	12/6/2013	11	Home Depot Credit Servi	11/25/2013	3333	Nov	24.97
6340	12/6/2013	11	Home Depot Credit Servi	11/25/2013	3333	Nov	54.13
							677.48
6341	12/6/2013	12	Lake Auburn Watershed	11/15/2013	3308	Dec	15,629.87
							15,629.87
6342	12/6/2013	11	City of Lewiston	11/12/2013	600-40	Oct flouride	861.75
6342	12/6/2013	11	City of Lewiston	11/14/2013	600-40	UV copier- 2 months	117.60
							979.35
6343	12/6/2013	11	Hetl Water Program	11/21/2013	3329	Nov water test	152.00
6343	12/6/2013	11	Hetl Water Program	11/21/2013	3329	Nov water test	132.00
							284.00
6344	12/6/2013	12	Maine Municipal Emp.Hl	11/8/2013	3337	Dec	13.20
6344	12/6/2013	12	Maine Municipal Emp.Hl	11/8/2013	3337	Dec	624.85
6344	12/6/2013	12	Maine Municipal Emp.Hl	11/8/2013	3337	Dec	568.41
6344	12/6/2013	12	Maine Municipal Emp.Hl	11/8/2013	3337	Dec	2,930.13
6344	12/6/2013	12	Maine Municipal Emp.Hl	11/8/2013	3337	Dec	17,243.49
							21,380.08
6345	12/6/2013	11	Maine Volunteer Lake M	11/25/2013	232	Algae Study	2,500.00
6345	12/6/2013	11	Maine Volunteer Lake M	11/25/2013	232	Algae Study	2,500.00
							5,000.00
6346	12/6/2013	11	WD Matthews Co	11/19/2013	PS2045	Court St & UV	88.69
6346	12/6/2013	11	WD Matthews Co	11/19/2013	PS2045	Court St & UV	88.69
6346	12/6/2013	11	WD Matthews Co	11/19/2013	PS2045	Court St & UV	88.69
6346	12/6/2013	11	WD Matthews Co	11/19/2013	PS2045	Court St & UV	88.68
							354.75
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	17.63
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	17.62
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	40.79
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	40.79
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	7.34
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	7.34
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	63.67
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	63.66

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6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	51.15
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	51.15
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	8.82
6347	12/6/2013	11	Napa Auto Parts	11/30/2013	3325	Nov	8.82
							378.78
6348	12/6/2013	11	Office Max	10/11/2013	36736	gel pens, pink paper	9.91
6348	12/6/2013	11	Office Max	10/11/2013	36736	gel pens, pink paper	9.90
							19.81
6349	12/6/2013	11	Ness Oil Co.	11/30/2013	3327	Nov	140.69
6349	12/6/2013	11	Ness Oil Co.	11/30/2013	3327	Nov	254.73
6349	12/6/2013	11	Ness Oil Co.	11/30/2013	3327	Nov	85.43
6349	12/6/2013	11	Ness Oil Co.	11/30/2013	3327	Nov	692.67
6349	12/6/2013	11	Ness Oil Co.	11/30/2013	3327	Nov	233.96
							1,407.48
6350	12/6/2013	12	P & D Seminars	12/2/2013	3339	Hill	175.00
							175.00
6351	12/6/2013	12	Petro's	12/2/2013	73903	parade-screws	13.98
							13.98
6352	12/6/2013	12	Pitney Bowes, Inc.	11/3/2013	35814912/1	to 2/28	30.00
6352	12/6/2013	12	Pitney Bowes, Inc.	11/3/2013	35814912/1	to 2/28	30.00
6352	12/6/2013	12	Pitney Bowes, Inc.	11/3/2013	35815012/1	to 2/28	200.00
6352	12/6/2013	12	Pitney Bowes, Inc.	11/3/2013	35815012/1	to 2/28	200.00
							460.00
6353	12/6/2013	11	E.J. Prescott, Inc.	11/11/2013	474731	vas usage	77.75
6353	12/6/2013	11	E.J. Prescott, Inc.	11/11/2013	474731	vas usage	79.06
							156.81
6354	12/6/2013	12	EIC., Inc. (prompto)	12/2/2013	624172	tk #29 oil	23.25
							23.25
6355	12/6/2013	12	Ralph Libby Chain Saws	12/2/2013	3335	ditch boots-Holmes	79.00
							79.00
6356	12/6/2013	11	Spiller's	11/22/2013	129090	gloves	26.11
							26.11
6357	12/6/2013	11	C.H. Stevenson, Inc.	11/23/2013	60663	stock cold patch	1,097.94
6357	12/6/2013	11	C.H. Stevenson, Inc.	11/23/2013	60663	stock cold patch	1,097.94
							2,195.88
6358	12/6/2013	11	Donald R. Stevens	11/15/2013	3302	Oct cell	30.00
6358	12/6/2013	11	Donald R. Stevens	11/15/2013	3303	Nov cell	30.00
6358	12/6/2013	12	Donald R. Stevens	11/15/2013	3307	Dec cell	30.00
							90.00
6359	12/6/2013	11	U.S. Cellular	11/22/2013	3331	Nov	26.74
6359	12/6/2013	11	U.S. Cellular	11/22/2013	3331	Nov	26.74
6359	12/6/2013	11	U.S. Cellular	11/22/2013	3332	Nov	30.00
6359	12/6/2013	11	U.S. Cellular	11/22/2013	3332	Nov	204.58
6359	12/6/2013	11	U.S. Cellular	11/22/2013	3332	Nov	204.57
6359	12/6/2013	11	U.S. Cellular	11/22/2013	3332	Nov	30.00

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							522.63
6360	12/6/2013	11	United Way Of Andr.Cot	11/30/2013	3334	November	24.00
6360	12/6/2013	11	United Way Of Andr.Cot	11/30/2013	3334	November	196.00
							220.00
6361	12/13/201	12	Ken Bates	12/5/2013	3344	Watershed-driveway	500.00
							500.00
6362	12/13/201	12	Papa Gino's	12/10/2013	3341	customer refund	6,947.89
							6,947.89
6363	12/13/201	12	Richard Achorn	12/10/2013	3342	customer refund	32.29
							32.29
6364	12/13/201	12	Androscoggin Registry O	12/12/2013	3348	release liens	44.00
							44.00
6365	12/13/201	12	Ann's Flower Shop	12/6/2013	192464Sid		35.98
6365	12/13/201	12	Ann's Flower Shop	12/6/2013	192464Sid		35.97
							71.95
6366	12/13/201	11	Auburn Water District	12/9/2013	3340	Nov petty cash	55.72
6366	12/13/201	11	Auburn Water District	12/9/2013	3340	Nov petty cash	80.25
6366	12/13/201	11	Auburn Water District	12/9/2013	3340	Nov petty cash	11.09
6366	12/13/201	11	Auburn Water District	12/9/2013	3340	Nov petty cash	15.43
6366	12/13/201	11	Auburn Water District	12/9/2013	3340	Nov petty cash	74.65
6366	12/13/201	11	Auburn Water District	12/9/2013	3340	Nov petty cash	15.42
							252.56
6367	12/13/201	12	Bell/Simons Companies	12/4/2013	S93215UV-belts		21.87
6367	12/13/201	12	Bell/Simons Companies	12/4/2013	S93215UV-belts		21.87
							43.74
6368	12/13/201	12	Andros Cty Chamber of C	11/30/2013	10054	membership-2014	125.00
6368	12/13/201	12	Andros Cty Chamber of C	11/30/2013	10054	membership-2014	125.00
							250.00
6369	12/13/201	11	Constellation NewEnergy	11/26/2013	124555UV for Nov		10,186.27
							10,186.27
6370	12/13/201	11	Franklin Covey Catalog S	11/25/2013	816388Mj planner		12.38
6370	12/13/201	11	Franklin Covey Catalog S	11/25/2013	816388Mj planner		12.37
							24.75
6371	12/13/201	12	Critical Alert	12/1/2013	160888Dec to Feb		72.69
6371	12/13/201	12	Critical Alert	12/1/2013	160888Dec to Feb		72.69
							145.38
6372	12/13/201	12	Dead River Company	12/2/2013	60471/UV propane		663.99
6372	12/13/201	12	Dead River Company	12/2/2013	60471/UV propane		663.99
6372	12/13/201	12	Dead River Company	12/6/2013	83019 UV - propane		391.79
6372	12/13/201	12	Dead River Company	12/6/2013	83019 UV - propane		391.78
							2,111.55
6373	12/13/201	12	Dig Safe System, Inc.	12/3/2013	49386 Dec		324.31
6373	12/13/201	12	Dig Safe System, Inc.	12/3/2013	49386 Dec		324.31
							648.62
6374	12/13/201	11	FedEx	12/2/2013	35051 Nov		48.60

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6374	12/13/201	11	FedEx	12/2/2013	35051	Nov	48.59
							97.19
6375	12/13/201	12	Daniel A. Fortin	12/8/2013	3343	lab equipment- for sample	158.25
6375	12/13/201	12	Daniel A. Fortin	12/8/2013	3343	lab equipment- for sample	158.24
							316.49
6376	12/13/201	12	Fortier's Security Center	12/6/2013	195027	padlocks & keys	155.94
6376	12/13/201	12	Fortier's Security Center	12/6/2013	195027	padlocks & keys	155.94
6376	12/13/201	12	Fortier's Security Center	12/5/2013	195016	keys	15.60
6376	12/13/201	12	Fortier's Security Center	12/5/2013	195016	keys	15.60
							343.08
6377	12/13/201	12	Gilman Electrical Dist.	12/11/2013	793379	UV-batteries	18.74
6377	12/13/201	12	Gilman Electrical Dist.	12/11/2013	793379	UV-batteries	18.74
6377	12/13/201	12	Gilman Electrical Dist.	12/10/2013	793143	reflex stripper	13.35
6377	12/13/201	12	Gilman Electrical Dist.	12/10/2013	793143	reflex stripper	13.35
							64.18
6378	12/13/201	11	Great American Financial	11/27/2013	145309	new copier lease-2 mnths	249.97
6378	12/13/201	11	Great American Financial	11/27/2013	145309	new copier lease-2 mnths	249.97
							499.94
6379	12/13/201	11	Harcros Chemicals, Inc.	11/22/2013	300118	hypo	2,505.61
							2,505.61
6380	12/13/201	11	Vantagepoint Transfer A	11/30/2013	3346	November	2,046.28
							2,046.28
6381	12/13/201	11	Vantagepoint Transfer A	11/30/2013	3345	Nov	3,257.59
							3,257.59
6382	12/13/201	11	Vantagepoint Transfer A	11/30/2013	3347	November	200.32
							200.32
6383	12/13/201	11	Lebel's Heating & Sheet	11/26/2013	13-964	UV-generator	32.25
6383	12/13/201	11	Lebel's Heating & Sheet	11/26/2013	13-964	UV-generator	32.25
							64.50
6384	12/13/201	11	Sun-Journal	11/30/2013	116889	water rate increase notice	256.28
							256.28
6385	12/13/201	11	Maine Oxy-Acetylene Cc	11/21/2013	309435	Ammonia	367.52
6385	12/13/201	11	Maine Oxy-Acetylene Cc	11/26/2013	309452	CO2 for thaw machine	35.02
							402.54
6386	12/13/201	11	Treasurer, State of Maine	11/19/2013	4DT01	Watershed	2,596.66
							2,596.66
6387	12/13/201	12	Maine Rural Water Assoc	12/6/2013	21714	MJ & Dan Fortin-meeting	240.00
							240.00
6388	12/13/201	12	Maine Water Utilities As	12/6/2013	186611	John, MJ meeting	80.00
							80.00
6389	12/13/201	11	W. B. Mason Co., Inc.	11/22/2013	I14974	folders, towels, tissue, paper	129.60
6389	12/13/201	11	W. B. Mason Co., Inc.	11/22/2013	I14974	folders, towels, tissue, paper	127.73
6389	12/13/201	11	W. B. Mason Co., Inc.	11/22/2013	I14974	folders, towels, tissue, paper	46.99
6389	12/13/201	11	W. B. Mason Co., Inc.	11/22/2013	I14974	folders, towels, tissue, paper	46.99
6389	12/13/201	11	W. B. Mason Co., Inc.	11/22/2013	I14974	folders, towels, tissue, paper	257.32

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							608.63
6390	12/13/201	11	Laboratory Corporation	11/30/2013	427578	drug test	60.45
6390	12/13/201	11	Laboratory Corporation	11/30/2013	427578	drug test	60.45
							120.90
6391	12/13/201	11	NEIWGCC	12/4/2013	4635	Bell, Jalbert, Stevens, Whitlo	440.00
							440.00
6392	12/13/201	12	New England Truck Tire	12/2/2013	56043	backhoe-2 tires	1,759.18
							1,759.18
6393	12/13/201	12	N.E. Water Works Assoc	11/19/2013	19910	Jalbert -dues for 2014	100.00
							100.00
6394	12/13/201	11	Northern Data Systems, I	11/25/2013	3512	Nov	809.60
6394	12/13/201	11	Northern Data Systems, I	11/25/2013	3512	Nov	809.60
							1,619.20
6395	12/13/201	12	E.J. Prescott, Inc.	11/12/2013	474782	So Main	-1,424.23
6395	12/13/201	12	E.J. Prescott, Inc.	12/5/2013	475629	Littlefield Bridge	-2,213.98
6395	12/13/201	12	E.J. Prescott, Inc.	12/4/2013	475598	vas usage	311.46
6395	12/13/201	12	E.J. Prescott, Inc.	12/4/2013	475598	vas usage	280.91
6395	12/13/201	12	E.J. Prescott, Inc.	12/4/2013	475598	vas usage	77.96
6395	12/13/201	12	E.J. Prescott, Inc.	12/4/2013	475597	vas usage	32.42
6395	12/13/201	12	E.J. Prescott, Inc.	12/4/2013	475597	vas usage	274.61
6395	12/13/201	12	E.J. Prescott, Inc.	12/5/2013	475626	vas usage	2,844.31
6395	12/13/201	12	E.J. Prescott, Inc.	12/5/2013	475626	vas usage	146.89
6395	12/13/201	12	E.J. Prescott, Inc.	12/5/2013	475626	vas usage	704.35
6395	12/13/201	12	E.J. Prescott, Inc.	12/5/2013	475626	vas usage	25.00
							1,059.70
6396	12/13/201	11	Rent-It Of Maine, Inc.	11/26/2013	35935	Spring Rd	114.75
							114.75
6397	12/13/201	11	Savard Appraisal Service	10/15/2013	1004	Watershed	400.00
							400.00
6398	12/13/201	11	Stratham Tire Inc.	11/26/2013	605249	tk#26 swap tires	30.00
							30.00
6399	12/13/201	12	T W Paving, Inc.	12/12/2013	014	Nov & Dec	1,574.00
6399	12/13/201	12	T W Paving, Inc.	12/12/2013	014	Nov & Dec	93.33
6399	12/13/201	12	T W Paving, Inc.	12/12/2013	014	Nov & Dec	693.33
6399	12/13/201	12	T W Paving, Inc.	12/12/2013	014	Nov & Dec	450.00
6399	12/13/201	12	T W Paving, Inc.	12/12/2013	014	Nov & Dec	453.33
6399	12/13/201	12	T W Paving, Inc.	12/12/2013	014	Nov & Dec	2,330.22
							5,594.21
6400	12/13/201	11	Unifirst Corp	11/22/2013	208050	Nov-rugs	53.35
6400	12/13/201	11	Unifirst Corp	11/22/2013	208050	Nov-rugs	53.34
							106.69
6401	12/13/201	11	UNITIL ME	12/2/2013	3330	Court St	711.30
6401	12/13/201	11	UNITIL ME	12/2/2013	3330	Court St	711.29
							1,422.59
Grand Total							149,041.88

AUBURN WATER DISTRICT

MONTHLY ACTIVITY REPORT

November 2013

MAINS

Location	Ck'd	Comments	Leak Check					Misc.	New
			PT/Cl ₂	Leak	On	Owner	OK		
South Main St @ Olive St	1	Repair main leak		1					
Washington St North	1	Repair main leak		1					
Taylor Pond	1	Blow off summer main					1		
Monthly Totals	3		0	2	0	0	1	0	
2012 Monthly Totals	11		0	3	0	0	7	1	
YTD Totals	18		0	7	0	1	7	3	

GATES

Location	Ck'd	Comments	Adjust	Leak	New	Misc.
No activity						
Monthly Totals	0		0	0	0	0
2012 Monthly Totals	0		0	0	0	0
YTD Totals	38		36	0	0	2

HYDRANTS

Location	Ck'd	Comments	Broken	Cap	Misc.	New	Frozen
Smith St	1	Repair hydrant	1				
Spring St @ Troy St	1	Repair hydrant - accident	1				
Monthly Totals	2		2	0	0	0	0
2012 Monthly Totals	6		0	0	6	0	0
YTD Totals	19		13	0	3	2	1

NEW SERVICES

Location	No.	Comments	No Meter	Meter	Meter Size
134 Pond View Dr	1			1	5/8
Monthly Totals	1		0	1	
2012 Monthly Totals	2		0	2	
YTD Totals	13		2	11	

LABORATORY

Month	Dist. Sys. Tests	Temp (°C)		Avg. NaOH gal/MG	Avg. Cl mg/l	Avg. FI mg/l	Avg. Turb. (ntu)	SWTR Tests
		Air	Water					
January	44	-4.0	2.3	1.13	2.66	0.90	0.72	31
February	45	NR	3.2	1.11	2.74	0.56	0.65	28
March	54	NR	3.9	2.70	2.60	0.76	0.50	31
April	58	8.6	6.6	5.28	2.62	0.86	0.60	30
May	53	13.4	14.2	1.41	2.50	0.80	0.80	31
June	57	17.9	19.7	1.41	2.42	0.79	0.70	30
July	56	22.3	25.5	0.15	2.58	0.70	0.65	31
August	55	23.7	16.4	7.40	2.51	0.60	1.23	31
September	57	8.22	21.42	22.14	1.73	0.60	0.90	31
October	60	8.15	18.77	21.54	1.71	0.61	1.18	30
November	52	5.10	14.89	20.86	2.34	0.78	0.97	30
December								
YTD Avg				7.74	2.40	0.72	0.81	
2012 Avg				2.42	2.71	0.78	0.92	
YTD Totals	591							334

LAKE AUBURN

Month	No. Patrols	Withdrawals *			Elevations **					
		AWD	LWD	Total	1st	High	Yr.	Low	Yr.	2012
January	daily	2.59	4.15	6.74	260.08	261.4	1974	257.20	2002	261.81
February	daily	2.34	4.04	6.38	260.42	261.7	1996	257.10	2002	NR
March	daily	2.37	3.99	6.36	260.84	261.41	2010	257.40	2002	260.64
April	daily	2.58	4.08	6.66	261.67	262.40	1953	258.20	2002	261.09
May	daily	2.65	4.15	6.80	261.48	261.51	2012	258.78	2007	261.51
June	daily	2.69	4.37	7.06	261.47	261.80	1984	259.49	2007	261.20
July	daily	2.92	5.24	8.16	260.88	261.6	1973	258.75	1960	260.88
August	daily	2.97	5.43	8.40	260.98	261.10	1981	258.0	1999	260.03
September	daily	2.96	5.19	8.15	260.98	260.92	2013	257.4	1999	259.63
October	daily	2.95	4.90	7.85	260.92	261.10	1981	257.6	1952	259.70
November	daily	2.83	4.62	7.45	260.51	260.95	2011	257.15	1952	259.44
December										
Avg. Daily	daily	2.71	4.56	7.27						
YTD Totals	0	29.85	50.16	80.01						

* Average Daily Withdrawals MGD ** Elevation Above Sea Level

WEATHER*

Month	Precipitation					Temperature			
	Snowfall (in.)	Total (in)	Heating Degree Days	Normal Precip	Days of Precip.	Max. (°F)	Min. (°F)	AVG. (°F)	Dep. from Norm
January	4.2	1.31	1360	3.26	9	55	-4	21	1.5
February	39.6	3.56	1139	2.55	13	44	1	24	1.1
March	16.5	1.85	930	3.64	8	53	15	33	0.5
April	0	1.71	679	3.78	10	71	21	42	-1.7
May	0	5.87	356	3.9	14	91	28	54	-1.4
June	0	6.80	108	3.58	15	93	44	64	-0.4
July	0	3.59	6	3.43	9	91	51	71	0.9
August	0	3.65	39	3.25	9	86	44	66	-2.7
September	0	1.17	225	3.60	8	89	33	58	-1.9
October	0	0.90	516	4.04	5	78	19	48	-0.8
November	0.5	3.87	911	3.81	8	66	5	35	-3.2
December									
YTD Totals	60.80	34.28							

* From www.wunderground.com

DIG SAFE

Month	Total	Contractors	MDOT	AHD	School Dept.	Lewiston Water	Fairpoint	AWD	CMP	ASD	GAS	MTA
January	45	19	2	6	0	2	1	6	9	0	0	0
February	20	10	1	1	0	1	3	3	1	0	0	0
March	91	30	3	41	0	1	3	5	8	0	0	0
April	177	88	6	39	0	0	1	7	14	0	22	0
May	143	77	3	17	1	2	3	5	16	0	19	0
June	162	71	4	52	0	0	0	0	10	0	25	0
July	183	79	3	29	0	1	2	4	11	0	53	1
August	131	47	1	34	0	0	0	5	26	0	18	0
September	160	53	4	51	0	0	0	15	4	4	29	0
October	135	81	1	10	1	2	1	4	9	1	25	0
November	95	42	3	12	0	0	1	8	23	0	6	0
December												
YTD Totals	1342	597	31	292	2	9	15	62	131	5	197	1
2012 Totals	1210	592	30	275	1	3	10	61	98	8	123	9

DUTY FOREMAN CALLS

(Overtime)

Districts	Total	High/Low Pressure	Water Quality	Alarms	Sewer Service	Leak	Misc.	Locates	Hydrants	Meter	Fire Calls
Sewerage District	1			1	0	0	0	0	0	0	0
Water District	18	0	3	7		1	5	0	2	0	0
Monthly Totals	19	0	3	8	0	1	5	0	2	0	0
2012 Monthly Totals	10	0	0	1	1	1	4	3	0	0	0
YTD Totals	184	8	17	65	20	12	39	14	8	0	1

OTHER ACTIVITIES

1. Repair leak on chlorine gas meter - Turner St end of pipe
2. Restart pump and check pit - Turner St
3. Pump hydrants
4. Repair Spring Rd washout
5. Drain Hardscrabble Tank & refill
6. Drain Goff Hill Tank & refill
7. Remove Temporary on Riverside Dr - Bridge work by Copia
8. Private hydrant checks - maintenance contracts
9. Pull docks out of water
10. Cut trees around the lake
11. Spread hay on North Auburn Rd @ Spring Rd

AUBURN WATER DISTRICT

MEMBER MAINE WATER UTILITIES ASSOCIATION

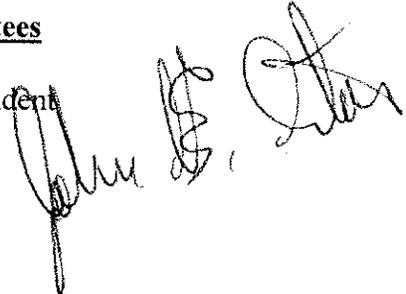
268 COURT ST. - P.O. BOX 414

AUBURN, MAINE 04212-0414

To: Auburn Water District Trustees

From: John B. Storer, P.E. Superintendent

Subject: 2014 - Meeting Dates



- January 22
- February 19
- March 19 (Annual Meeting)
- April 16
- May 21
- June 18
- July 16
- August 20
- September 17
- October 22
- November 19
- December 17 (Subject to Budget Meetings)
- December 17 (Joint Meeting, starting time will be set at a later date)

Notes

1. Meetings are scheduled to start at 4:00 P.M.
2. Notifications will be sent out for special meetings

Office of

AUBURN WATER DISTRICT

AUBURN SEWERAGE DISTRICT

A SPECIAL JOINT MEETING of the Trustees of the Auburn Water District and Auburn Sewerage District for purposes of reviewing and approving the **FY 2014 Budgets** will be held at the office of the Auburn Water & Sewerage Districts, located at 268 Court Street, on **WEDNESDAY, DECEMBER 18, 2013, at 5:30 p.m.**

AGENDA

1. Review of 2014 Water & Sewerage District Budgets
2. Public Hearing for discussion of Budgets
3. Adoption of FY 2014 Sewerage District Budget
4. Adoption of FY 2014 Water District Budget
5. Adjourn Meeting

TO: John Storer, Superintendent DATE: November 13, 2013
Auburn Sewer & Water District

FROM: Jeff Musich/Greg Smith/Gary PROJECT NO.: MTG13
Smith

SUBJECT: Auburn Sewer & Water District – Bank Filtration Supply

The location and implementation of a new, high quality source of bank filtration groundwater for the Auburn Sewer & Water District has very good potential to significantly reduce the level of algae and other microorganisms in its raw water supply. The District has requested an estimated budget from Wright-Pierce to complete further development phases of the new source identified in Phase 1. The District desires to fast track the development of a new groundwater supply with the goal of having a new bank filtration supply identified in 2014. Wright-Pierce has developed a phased scope and work plan to accomplish this goal. At this juncture, we are only able to estimate our costs within a range because variables such as well depth are still no known.

The solution is to develop a natural pretreatment technique utilizing existing soils adjacent to Lake Auburn and help the District maintains its EPA filtration waiver. RBF can decrease construction and operation costs and help utilities stay ahead of the rapidly changing water quality regulations. Chemical usage and sludge generation is decreased. The result is to produce a high quality, easy to maintain and operate water supply.

River bank filtration (RBF) RBF is not a new concept. What is new and innovative is utilizing this natural technology specifically to pre-treat surface water in order to reduce treatment equipment and chemical costs. Often RBF can be applied directly adjacent to an existing surface water reservoir, stream, lake or river.

RBF is a natural pretreatment process that uses the bed of a reservoir, lake or river and an adjacent sand and gravel aquifer as a natural filter. RBF is suitable to accomplish sufficient Cryptosporidium removal to partially meet the requirements of the Long Term 2 Enhanced Surface Water Treatment Rule. To accomplish this a subsurface intake, either vertical or angle type construction, induces surface water infiltration to flow from the surface water through the bed or bank where a significant portion of the microorganisms are removed and destroyed through chemical, biological processes and physical attachment to the aquifer sand grain materials.

Advantages to River Bank Filtration. RBF systems can provide advantages that often cannot be achieved by a conventional surface water supply intake, including:

- Natural pretreatment through bank filtration
- Potential lowest construction and operation costs among supply • options
- Consistent temperature and quality by elimination of spikes•
- Resistance to contaminant threats
- Minimal odor, color, turbidity, algae and other microorganisms•
- Low maintenance costs (no leaf debris common to surface water • intakes)
- Potential to achieve treatment removal credit
- Reduction in disinfection by-products
- Reduced need for disinfection
- Ease of maintenance
- Not susceptible to invasive plant infestation
- Low profile and aesthetically pleasing to competing recreational and environmental interests
- No impacts to fisheries

A bank filtration groundwater supply, if located close enough to the existing intake facility, could be blended at the WTP with the existing surface supply or potentially replace the surface supply in its entirety. To meet this objective, Wright-Pierce has developed a scope and work plan for a phased approach that will guide efforts toward new source implementation, while allowing opt out points at the end of each phase, should the District decide against proceeding.

Source well exploration is the first step that will ensure that any potential groundwater source will supply a sufficient quantity of water that is of the required quality. Groundwater exploration, if successful, can be followed by a design and construction phase of a new groundwater extraction system, and also of new water main to transport the water to the existing facility. A preliminary phase (Phase 1) was completed during November 2013. A description of this work is followed by a detailed description of subsequent phases in the development of a new source.

Phase 1: Preliminary Review of Select Sites for Initial Consideration (Completed)

A preliminary review of potential exploratory drilling sites was completed prior to our November 6, 2013 meeting as a first step in identifying a potential new source of groundwater for the District. Once the location, depth and potential yield of the sand and gravel is evaluated there are several types and configurations of extraction systems such as the following:

- Conventional vertical gravel well;
- Low angle 23 to 35 degrees well constructed on land and extending beneath the lake bed;
- Radial collector well constructed on land and the lateral intake screens extending beneath the lake bed;
- Horizontal infiltration gallery parallel to the lake

A description of the program and results follows.

Preliminary Selection of Potential Sites for Groundwater Exploration

Our interpretation of the glacial geology around Lake Auburn indicates water bearing highly permeable sand and gravel in the form of an esker extends from Labrador Brook valley to beneath the eastern side of the lake. It is possible the buried sand and gravel may lie in close proximity to the existing intake facility. Geophysical seismic refraction data indicates the depth of the sand and gravel may be over 100 feet in thickness providing tremendous yield and filtration potential. The following important issues that must be considered in the decision making process:

- ***Water Quality*** – The most important goal of this effort is to locate a bank filtration source that is low in algae and other microorganisms. However, at this juncture, predicting water quality prior to exploratory drilling is difficult. Once test wells are drilled and sampled for water quality parameters the District will have a better understanding of the site.
- ***Distance to Distribution System*** - The constructability and projected capital costs of a project are important issues to the District. Obviously the more economical the project, the more likely it will meet with approval because the financial burden will be lower on the users. The ease or difficulty of the construction and the distance to the existing treatment facility will heavily influence the overall capital costs. Site exploration options which are likely to result in lower capital costs will receive more consideration.
- ***Proximity to Sources of Potential Contamination (EGAD Sites)*** - Significant sources of potential contamination in the vicinity of a potential water source would require a higher level of monitoring (and operational cost for sample collection and testing) over time. However, this preliminary evaluation has not examined this aspect of potential contamination sources in detail. However, there are several existing landfills south of the lake that must be taken into consideration. Obtaining the highest percentage of induced infiltration from the lake will minimize the cone of depression and the potential for contamination.

- ***Sustainable Yield*** - The major goal of this project is to construct a bank filtration extraction system that can be immediately blended with the existing surface water supply or potentially replace this supply. The saturated thickness, transmissivity, areal size and available recharge of an aquifer are key components in preliminarily selecting potential well sites for further evaluation.
- ***Potential to Establish a Protective Radius*** – A 300 foot protective sanitary radius may likely be required by the Drinking Water Program around the wellhead. This radius is either owned or controlled through easement or other restrictions obtained by the District. The Drinking Water Program recognizes this cannot always be achieved, and waivers may be considered. For instance a waiver may possibly be required, if a portion of the 300 foot radius lies within a 100 year flood zone.
- ***Potential to Establish A Wellhead Protection Area*** - Ability to control and manage land use practices within the 200 and 2500 day time of travel around the wellhead is an essential component to ensure the source of supply is not contaminated in the future. Areas that are intensively developed receive less consideration. The District already owns substantial acreage within the watershed.
- ***Potential to Acquire Property from Willing Landowner*** - Because 300 foot radius wellhead protection area is essential for regulatory approval of a new source of public water supply, property owners receptive to providing an easement of sufficient land area, or selling at a reasonable cost along with District owned land, will receive higher consideration. Also, minimizing the number of landowners required to establish the wellhead protection area is essential.

Recommended Next Steps – Groundwater Exploration (Phases 2 and 3)

Now that the initial identification of potential properties for investigation has been completed, a subsequent groundwater exploration phase is required to ensure a source is found with adequate volume and quality. The Table below describes each task associated with a bank filtration groundwater exploration phases, and also lists out the subsequent steps required to bring the new source on line.

This stepped process is used to allow an early, good understanding of the aquifer conditions, before committing more resources are toward developing a new water supply. The table is followed by a detailed description of the Phases 2 and 3, followed by costs and a schedule for Phase 2 work.

Phase 3 is also described in detail although it cannot be costed out at this time. Additional Phases are described only briefly in the Table, with detail and costs to be determined at a later date.

Table 1 - Phases and Tasks of Groundwater Development

Phase 2- Initial Groundwater Explorations and Investigations	
Task 2-1	Determine Property Ownership in these promising areas and obtain Permission to Perform Test Well Exploration Drilling
Task 2-2	Conduct Aquifer Evaluations: <ul style="list-style-type: none"> • Seismic marine reflection geophysical survey from a shallow draft vessel to profile the depth to bedrock and evaluate sediment type beneath Lake Auburn. The District may wish to conduct this effort prior to the lake freezing in 2013 in order to expedite and guide the Task 2-3 work as soon as possible; • Electrical resistivity on land to profile the depth to bedrock and evaluate sediment type in the Labrador Brook valley system; • 3-inch test wells and pump testing from barge in Lake Auburn and all terrain drill rig on the land sites; • Water quality sampling and analysis; • Estimate potential yield and preliminary conceptual bank filtration extraction system design
Task 2-3	Evaluation and Report; Preliminary Site Approval Application to DWP; Cost Estimate
Phase 3 – Long Term Pump Test	
Task 3-1	Long-Term Pump Test: <ul style="list-style-type: none"> • Submit Long-term Pump Test Plan for Approval by Maine DWP; • Construct 10-inch or larger test well; • Conduct 3-5 day long-term pump test. Potentially longer test may be desirable to achieve steady state water level data and water chemistry; • Monitor recovery, water quality sampling and analysis;
Task 3-2	Reporting, Permitting, and Cost Estimating

Phase 2 Schedule and Costs

The recommended next steps of work are described below. The budgetary costs are estimated. Costs are provided for the Phase 2 groundwater test well exploration work. Costs for other phases are to be determined, because they depend to a great extent upon the conditions specific to the selected site.

**Phase 2 Initial Bank Filtration Explorations and Investigation
 - Cost Proposal Summary (Single Site)**

Phase/Task	Description	Proposed Fee
Phase 2	Initial Bank Filtration Water Explorations and Investigation	
2-1a	Determine property ownerships	NA – by District
2-1b	Obtain permission to construct test well explorations on properties	NA – by District
2-2	Aquifer Evaluation	\$28,000
	• Seismic Reflection Geophysical Survey Lake Auburn	\$18,000
	• Electrical Resistivity Geophysical Survey Land Based Sites	\$65,000
2-3	Report, DWP Preliminary Approval Submittal; Cost Estimate	\$7500
	Phase 2 Total	\$118,500

Note: does not include costs for snowplowing, or access across wetlands.

The estimated budgetary total costs for Phase 2 Initial Bank Filtration Exploration and Investigation for work is \$118,500 as shown on the Table. If barge drilling is found to be needed to clarify esker properties below the lake, than the cost would increase by an additional \$85,000

for a total estimated cost of \$203,500. The total cost covers the services of a qualified driller, all materials, water sampling and testing, report, cost estimate and preliminary approval submittals. If the District were to opt to explore either the sediments beneath the lake or the land based sites in Labrador Brook valley, than the price would be reduced accordingly.

Phase 2 Schedule

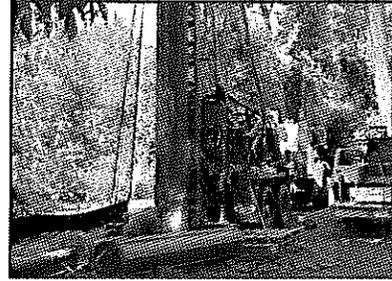
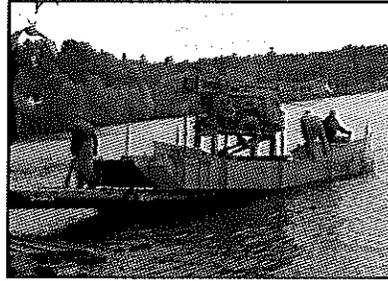
The District may wish to consider authorizing the geophysical surveys prior to the lake freezing and deep snow conditions on the land sites. After the District has obtained permission from the owner of the selected property, we anticipate be able to start land based test drilling during January of 2013. We intend to keep ourselves flexible so that we can meet whatever comes your way in terms of your need to adjust the timing of work and phasing.

Phase 3 Schedule and Costs

Once a design plan for a well system is identifying in Phase 2, we would propose to work with the District to develop a plan to construct the new supply. We understand that the District intends to much of the work internally, so we would propose to work with the District after Phase 2 to jointly develop a work plan for permanent facilities. This task would likely extend beyond fiscal year 2014 and can be planned for the next budget cycle sometime during the 2014 calendar year.

BANK FILTRATION A Water Pretreatment Solution

FOCUS



New England public water supplies are facing ever increasing challenges in meeting mandated water quality standards. River bank filtration (RBF) is recognized worldwide as a cost effective natural treatment process for a variety of natural pollutants, including organic pollutants and micro-organisms commonly found in surface waters.

The challenge is to provide a natural alternative solution that is cost effective and meets limited budgets.

The solution is to develop a natural pretreatment technique utilizing existing soils adjacent to reservoirs, rivers and lakes. RBF can decrease construction and operation costs and help utilities stay ahead of the rapidly changing water quality regulations. Chemical usage and sludge generation is decreased. The result is to produce a high quality, easy to maintain and operate water supply for the next 100 plus years.

Wright-Pierce can help you make informed decisions. Wright-Pierce is a water, wastewater and infrastructure design firm with over 60 years of water supply treatment and design experience throughout New England. Our water supply design team specializes in the location, design and construction of innovative water treatment solutions. We can help:

- Develop cost effective natural treatment alternatives
- Assess site conditions relative to their viability and use for River Bank Filtration
- River Bank Filtration Modeling
- Recommend appropriate construction methods
- Permitting and regulatory approval

Wright-Pierce has extensive experience in water supply and treatment plant design.

River bank filtration is an innovative, cost effective, natural technology used to pretreat groundwater and surface water.

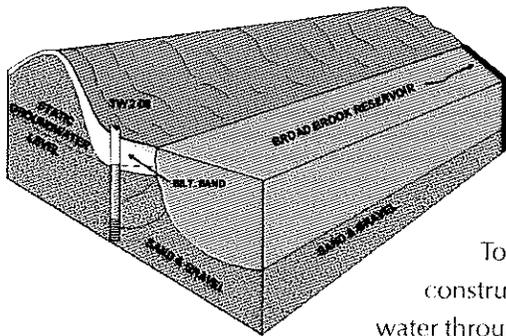


River bank filtration technology is an innovative and unique way to pretreat surface water in order to reduce treatment equipment and chemical costs.

GROUNDWATER & SURFACE WATER BANK FILTRATION WITHDRAWAL SYSTEMS

River bank filtration (RBF)

RBF is not a new concept. What is new and innovative is utilizing this natural technology specifically to pre-treat surface water in order to reduce treatment equipment and chemical costs. Often RBF can be applied directly adjacent to an existing surface water reservoir, stream, lake or river.



RBF is a natural pretreatment process that uses the bed of a reservoir, lake or river and an adjacent sand and gravel aquifer as a natural filter. RBF is suitable to accomplish sufficient *Cryptosporidium* removal to partially meet the requirements of the Long Term 2 Enhanced Surface Water Treatment Rule.

To accomplish this a subsurface intake, either vertical or angle type construction, induces surface water infiltration to flow from the surface water through the bed or bank where a significant portion of the microorganisms are removed and destroyed through chemical, biological processes and physical attachment to the aquifer sand grain materials.

RBF is a natural pretreatment process that uses the bed of a reservoir, lake or river and an adjacent sand and gravel aquifer as a natural filter.

Advantages to River Bank Filtration.

RBF systems can provide advantages that often cannot be achieved by a conventional surface water supply intake, including:

- Natural pretreatment through bank filtration
- Potential lowest construction and operation costs among supply options
- Consistent temperature and quality by elimination of spikes
- Resistance to contaminant threats
- Minimal odor, color, turbidity, algae and other microorganisms
- Low maintenance costs (no leaf debris common to surface water intakes)
- Potential to achieve treatment removal credit
- Reduction in disinfection by-products

21 Degree Angle Subsurface
Intake Beneath Merrimack
River Bed — Manchester
Water Works, Manchester,
New Hampshire.



- Reduced need for disinfection
- Ease of maintenance
- Not susceptible to invasive plant infestation
- Low profile and aesthetically pleasing to competing recreational and environmental interests
- No impact to fisheries

APPLICATIONS

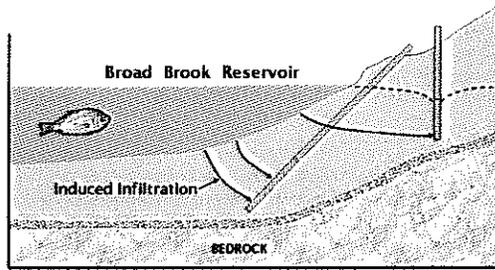
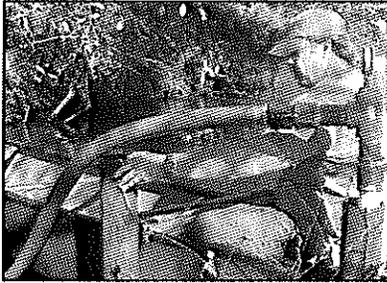
- Fresh water intakes beneath river and lake beds
- Saltwater intakes beneath ocean floor
- Offset well head from wetlands, buildings and floodplains
- Single well pumping capacities up to 6000 gpm
- Subsurface intakes diameters up to 40 inches
- Utilize aquifers beneath river and lakes to provide pre-filtration and enhance raw water quality
- Tap aquifers from a distance where land constraints prevent drill rig access

RBF systems can provide advantages that often cannot be achieved by a conventional surface water supply intake including: potential lowest construction and operation costs among supply options, and consistent temperature and quality by elimination of spikes.

BANK FILTRATION PROJECTS

Manchester Water Works, New Hampshire

The Manchester Water Works, New Hampshire proposed 20 mgd surface water intake facility is located on the Merrimack River. A 2007/2008 hydro-geologic investigation of the site indicates that bank filtration technology is a potentially viable treatment technology and alternative to a conventional water treatment facility. The project involves subsurface aquifer exploration, test subsurface angle intake, pumping tests, detailed water quality analysis and bank filtration modeling.



*River Bank Filtration
Conventional Vertical
and Angle Subsurface
Intakes — Meriden, CT.*

RBF systems are resistant to contaminant threats and minimize potential of odor, color, turbidity, algae and other micro-organisms.

Meriden, Connecticut

The City of Meriden, Connecticut obtains a portion (3.5 mgd) of its source water supply from the Broad Brook Reservoir. The raw water is treated by a conventional filtration facility. Due to elevated disinfection by-products, color, iron, algae and odor issues the conventional treatment facility has difficulty providing acceptable and aesthetically pleasing drinking water. A river bank filtration exploration study was completed adjacent to the reservoir in 2008. The study concluded that river bank filtration will provide very significant reduction in algae, color, turbidity and iron as well as elimination of spikes. A reduction in chemicals, sludge generation, cost of operation and ease of maintenance will also be accomplished.

Hull, Massachusetts

The Town of Hull, Massachusetts obtains its water supply from a neighboring supplier. Due to the cost of the supply and future availability, the Town conducted an investigation to evaluate the potential to derive desalinated water from a bank filtered subsurface supply offshore and beneath the Atlantic Ocean. Geophysical and subsurface explorations were conducted. The study concluded a 4 mgd subsurface prefiltered saltwater supply was a viable solution.

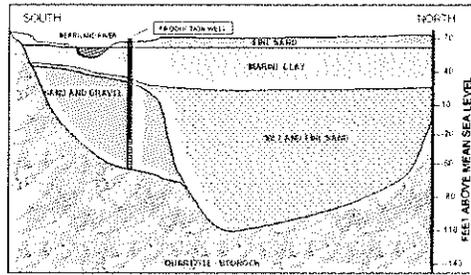
Orange County Water District, California

The Municipal Water District of Orange County, California (MWDOC) supplies over 250 mgd to the 24 communities near Los Angeles. Due to a protracted drought, competing water rights interests over allocation to Mexico, and water quality, MWDOC with assistance from Wright-Pierce successfully applied subsurface Angle Technology for a proposed 15 mgd desalination facility. This project involved the construction and pump testing of a 1690 gpm, 24 inch diameter 350 foot long angle subsurface test intake beneath the Pacific Ocean. The final system will consist of 9 subsurface intakes providing bank filtered seawater to a reverse osmosis membrane filtration facility.

1250 gpm River Bank
Filtration Subsurface
Intake.



PROJECT	GPM	HIGHLIGHTS
Bethlehem, N.Y.	4200	Five angle wells and two conventional gravel wells beneath Hudson River – pre-treatment supply for water treatment facility
Caribou, ME	4000	Two conventional bank filtration wells adjacent to Aroostook River
Municipal Water District, Orange County Water District, CA	14,000	24-Inch gravel pack angle well beneath Pacific Ocean to comprise 14,000 gpm wellfield - Desalination Facility
Brunswick, ME	4000	Two bank filtration wells adjacent to Androscoggin River
North Conway, NH	1600 & 2000	Two conventional vertical wellfields, Saco River
Milford, NH	1100	Two conventional vertical wells bank filtration Souhegan River
Kennebec, Kennebunk, Wells Water District, Kennebunk, ME	1260	Conventional vertical well adjacent to Merriland River



HYDROGEOLOGIC SERVICES

Wright-Pierce hydrogeologists have been successfully discovering sustainable ground water supplies in surficial sand and gravel formations and fractured rock regions, that others have dismissed.

Wright-Pierce is at the forefront in developing new groundwater supplies and siting in-ground wastewater recharge for municipalities in New England. Our hydrogeologists have been successfully discovering sustainable ground water supplies in surficial sand and gravel formations and fractured rock regions, that others have dismissed. Our advanced geophysical reconnaissance methods utilize advanced hydrogeologic techniques including: high altitude satellite imagery for aquifer analysis, gravimetric surveying, and specialized geophysical evaluations such as micro-gravimetric, electrical resistivity and seismic refraction and reflection surveys.

Exploratory test drilling is critical to hydrogeologic assessments. We have extensive experience in the oversight of production well construction and have authored numerous pump test plans for state approval. Ground water modeling is a client service we routinely perform for new source approval and to support local planning and resource protection ordinances. In-ground disposal of wastewater, through technologies such as wick and rapid infiltration basins, is a specialized service offered to our clients.

Water Supply

- Groundwater modeling - fresh and salt water
- Photo-lineament studies - bedrock well supply
- Geographic information systems
- Geophysical site characterization
- Test well exploration - sand/gravel and bedrock aquifers
- River bank filtration
- Production well design, technical specifications
- Field pump and aquifer testing
- Mechanical soil gradation analysis
- Artificial recharge assessments
- Well interference

- Safe-yield aquifer analysis
- Microscopic particulate evaluation
- Water quality sampling and review

Wastewater Services

- In-ground wastewater recharge siting
- Test boring and geophysical site characterization
- Slug and infiltrometer testing
- Long-term pilot load testing
- Mounding analysis
- Wick and rapid infiltration
- Basin recharge design
- Groundwater modeling

ABOUT WRIGHT-PIERCE

Wright-Pierce is a full-service, New England based civil and environmental engineering firm specializing in water, wastewater and infrastructure engineering services. For more than 60 years, we have served public and private clients.

Employee-owned and customer focused, Wright Pierce has a staff of approximately 150 engineers and support professionals located in six offices in New England. While our prime area of operation is New England, we selectively provide services elsewhere in the United States and globally.

*Serving our clients
from six offices in
New England.*



Innovative, Reliable, Sustainable Solutions Tailored to Your Needs

As a respected, quality-driven firm, we are proud of our verifiable track record for delivering technical excellence and innovation. We do not subscribe to a “one-size-fits-all” philosophy; rather, we identify the best solution for your specific needs.

Value Driven

We understand the value of a dollar and the fiscal constraints facing our clients. We take pride in our track record of developing solutions that represent the best life cycle cost value. Our understanding of value and the delivery of reliable solutions has been the cornerstone of our success in New England.

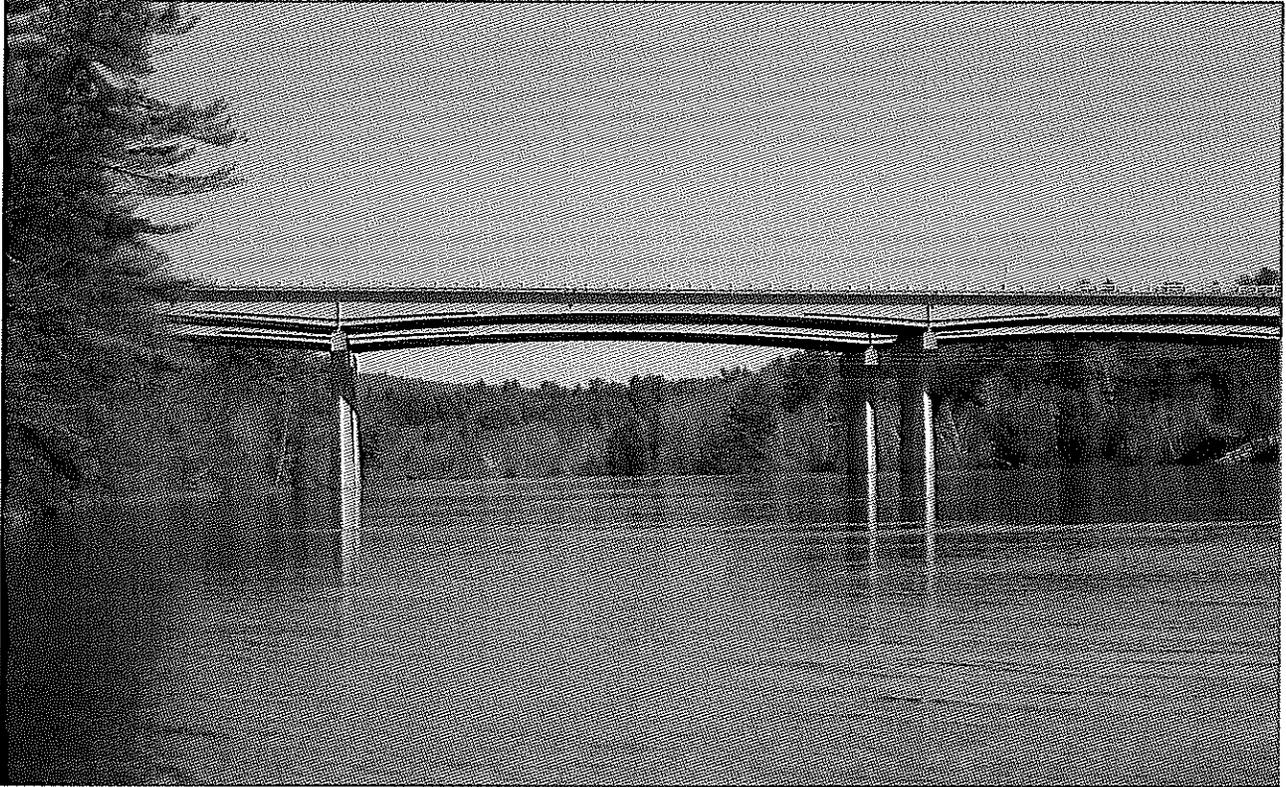
Responsive Service Focused on Your Success

As a valued client, the success of your project is our foremost concern, and the only measure of our success.

What sets us apart is expertise in developing creative, sustainable, efficient solutions tailored to meet your needs—today and tomorrow.

- We listen, investigate and understand the requirements.
- We stress practical operator-friendly solutions.
- We understand fiscal constraints and emphasize value-based solutions.
- We involve and collaborate with our clients every step of the way.

We are about building long-standing relationships and delivering on our promise to help you succeed and improve our communities for the future.

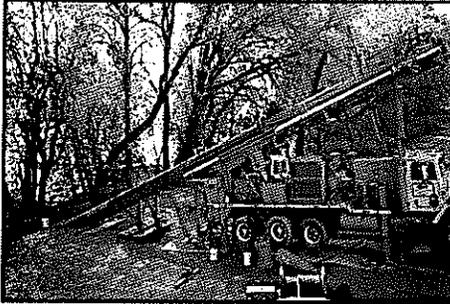


WRIGHT-PIERCE 
Engineering a Better Environment

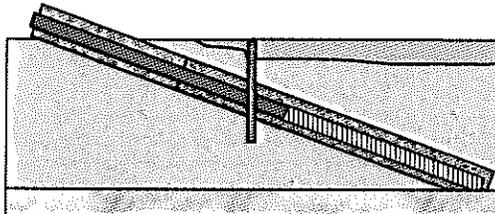
Offices Throughout New England
www.wright-pierce.com | 888.621.8156

Groundwater Development

Angle Wells



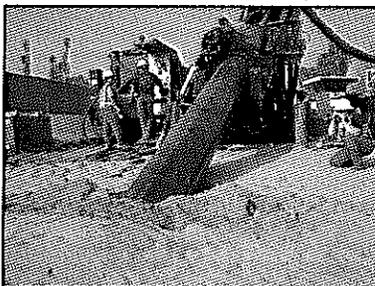
Angle well drilling 5.0 mgd supply
beneath Hudson River



20° angle well beneath Hudson River



Angle Test Well 10 mgd supply
Manchester Water Works, NH



23° angle well Orange County Water District, CA

Recent advancements in drilling technology, now allows for the installation of large diameter wells at angles ranging from 10° to 80° from horizontal. The wells can be completed with or without a gravel pack. The first application of this technology was for the Town of Bethlehem, New York in 2001. Five 24-inch diameter angle wells were drilled beneath the bed of the Hudson River to provide a turbid free source of supply for the water treatment facility. Since this time, other water suppliers such as the Orange County Water District in California have constructed large diameter high capacity (1,600 gpm) angle wells beneath or adjacent to surface water bodies.

Mr. Gary Smith of Wright-Pierce pioneered the development of angle well technology for the Bethlehem, N.Y. project and recently applied the technology for the Orange County Water District, Massachusetts, Connecticut and New Hampshire water suppliers are currently applying this technology.

Benefits

- ▣ Higher well yields than conventional vertical wells
- ▣ Bank filtration- Log credit removal
- ▣ Eliminate turbidity, algae and other microorganisms
- ▣ Increased capacity of existing gravel well fields
- ▣ Reduce operating and maintenance cost, eliminate debris common with surface water intakes
- ▣ Consistent temperature and quality
- ▣ Eliminate odor and susceptibility to invasive plant infestation
- ▣ Lower construction and operating costs
- ▣ Minimize impacts to recreational users, fisheries and aquatic life
- ▣ Reduced permitting and time
- ▣ Ability to penetrate man made obstacles such as seawalls

Applications

- ▣ Fresh water intakes beneath river and lake beds
- ▣ Saltwater intakes beneath ocean floor
- ▣ Offset well head from wetlands, buildings and floodplains
- ▣ Single well pumping capacities up to 6000 gpm
- ▣ Intake diameters up to 40 inches
- ▣ Utilize aquifers beneath river and lakes to provided pre-filtration and enhanced raw water quality
- ▣ Tap aquifers from a distance where land constraints prevent drill rig access

For additional information, contact Gary Smith P.G. 207-751-0762



Drumlin Environmental, LLC

Hydrogeologic and Engineering Consultants

October 31, 2013

John Storer, Superintendent
Auburn Water District
P.O. Box 414
268 Court Street
Auburn, Maine 04212-0414

Subject: Evaluation of Groundwater Resources for AWD

Dear John,

Thank you for getting in touch to discuss the process of evaluating the potential use of groundwater sources to augment your Lake Auburn source of supply. As we have discussed, there are potential advantages to having groundwater wells as part of your source mix, whether for seasonal or year-round use. There are also several possible configurations available, including wells that draw solely from an upland aquifer, or wells that are potentially under the influence of surface water.

Based on our discussions to date, we understand that you would like to present your Board of Trustees with a budgetary estimate to undertake the initial phases of work to (a) evaluate the potential groundwater yield that may be available to AWD for development and (b) develop a strategy to prioritize and undertake the hydrogeologic explorations to support development of one or more groundwater sources.

Exploration for groundwater sources can be approached in a variety of ways, but 4 general phases cover the overall process.

1. Reconnaissance and Evaluation of Available Data;
2. Initial Field Exploration to Validate Favorable Areas Identified During Phase 1;
3. Initial Pumping Tests to Determine the Short-Term and Long-Term Safe Yield of an Aquifer; and,
4. Final Design, Construction, Pumping and Permitting of a Production Well

This letter outlines our thoughts on Phases 1 & 2 of the process and an appropriate budget for these phases.

Phase 1: Data Evaluation & Reconnaissance. A number of studies and evaluations of the geology and hydrology of the area around Lake Auburn have been conducted by a variety of entities over the years. This information should be compiled and evaluated to take advantage of all available information and data. During this initial phase of evaluation, a reconnaissance should also be conducted of potentially favorable areas based on the review of available information.

In addition to the standard geologic and hydrogeologic mapping done by the Maine Geological Survey (MGS), the 2003 Water Budget Study conducted by the US Geological Survey (USGS) provides valuable information on the potential yield of the aquifer underlying Townsend Brook on the north side of the Lake. This study found that during the drought in 2001, groundwater-fed baseflow in Townsend Brook was on the order of 0.6 million gallons per day (MGD), which suggests that the underlying aquifer has significant development potential.

There have also been previous investigations south of the Lake, in the area mapped by the MGS as the Gracelawn delta. Based on our limited review of geologic data from this area, it appears that the configuration of the sand and gravel deposits and the bedrock surface in relation to the Lake is likely to be an important factor in understanding interactions between the groundwater and surface water and the potential groundwater yield from this area.

As part of the initial evaluation of available information, it would also be useful to screen other areas in Auburn to determine whether there are areas with high yield potential. While there are no other large mapped aquifers in Auburn, there may be areas along the Little Androscoggin River that may have some potential for development as groundwater under the influence of surface water.

Prior to undertaking this initial evaluation, it would be beneficial to refine the goals and objectives so that the work can be appropriately focused. Factors such as proximity to the existing mains and potential yield (with a goal of 3 MGD) and other factors identified by the District would help prioritize the exploration areas for Phase 2.

We would recommend that the District establish a budget of \$4,000 to \$6,000 for this phase of the project.

Phase 2: Exploration of Favorable Area(s). The Phase 1 evaluation would prioritize the areas for potential exploration in Phase 2. Field explorations that may be appropriate for target areas include geophysics (e.g., seismic refraction to determine bedrock topography), test well drilling (to collect geologic samples and install small diameter wells to estimate groundwater quality and aquifer properties) and collection of stream flow and groundwater level data to map groundwater flow and groundwater-surface water interactions.

To the north of the Lake, it is likely that Phase 2 activities would focus on test well drilling and gathering data on the interactions of groundwater and Townsend Brook in order to understand the potential volume of groundwater available from the aquifer and to determine a strategy to develop this resource (single well, multiple wells, etc.)

Along the south shore of the Lake, we have discussed the potential for developing a groundwater “intake” that draws on groundwater under the influence of surface water by establishing a hydrologic connection to the Lake. An important factor in the feasibility of this approach is identifying bedrock valleys where the sand and gravel deposits connect to the lake. Seismic refraction would be an efficient and cost-effective tool to guide subsequent Phase 2 test well drilling. If potentially favorable connections are identified between the sand and gravel and the Lake, Phase 2 work may also be extended to include drilling in the Lake (or this additional work may be conducted in Phase 3).

There are a variety of factors that would influence a Phase 2 budget, including whether a single area is targeted or multiple areas are explored, access to land, etc. If the District wanted to conduct Phase 1 and Phase 2 work in 2014 at a moderate pace, then budgeting \$20,000 to \$30,000 for Phase 2 would provide sufficient funds to answer important questions about the feasibility of developing the most favorable area. If the District would like to have funding to pursue this more aggressively in 2014, a budget of \$40,000 to \$50,000 would allow exploration of multiple areas or more extensive investigation of a top priority area.

We agree that conducting a thorough evaluation of the District's potential for developing groundwater resources is a good investment in light of the quality, operational and other challenges that the District has faced and will continue to face with its Lake Auburn source. I hope that the thoughts outlined in this letter are helpful. We would be glad to continue to support your efforts on this front. Please call any time to talk further.

Very truly yours

Drumlin Environmental, LLC

A handwritten signature in black ink, appearing to read "M. D. Reynolds".

Matthew D. Reynolds, P.E., C.G.

Cc: Sid Hazelton, AWD

December 10, 2013

Mr. John Storer, PE, Superintendent
Auburn Water District
P.O. Box 414
Auburn, ME 04212-0414

Re: Preliminary Water Supply Feasibility Analysis

Dear John:

Following our meeting with you on October 31st, we have been considering the most advantageous first steps for the District to perform in regards to identifying and locating groundwater wells suitable for water supply. We recommend the District undertake a pre-screening analysis of water supply alternatives. The analysis would compile available information into one document for easy future reference and to aid in selecting the next options for further study and evaluation. We envision providing a series of GIS based overlay maps as well as technical analysis on potential recharge, well yields, and preliminary concepts for preferred well development scenarios. Guidance on budget development and a discussion of permitting requirements would also be included.

Such screening level analysis provides an understanding of the hydrogeologic conditions and infrastructure needs for commissioners, staff and other interested parties. The screening analysis is meant to provide guidance on the probability of success and initiate the consideration of the economics for source development.

The tasks generally undertaken include the following:

Task 1 Data Compilation and Analysis

Both published and unpublished data will be compiled with relevant information provided on a series of base maps. These maps will be built in GIS and at a minimum will include

- Soils mapping, surficial geology and bedrock outcrop
- Delineation of potentially productive aquifer deposits
- Sensitive environmental receptors
- Water level information, where available
- Subsurface data including well logs, excavation activities, geophysical data etc.
- Drainage basin boundaries / recharge boundary analysis
- Land ownership
- Municipal infrastructure
- Potential contamination sites

These data sets will be evaluated to determine favorable deposits, quantify potential yield, and assess environmental conditions that may impact permitting efforts.

Task 2 Scenario Development (sources of supply)

Successful development of subsurface water supply systems (wells, radial collector wells, infiltration galleries etc.) depend on total available recharge within a basin or watershed, induced infiltration from a surface water body and storage volumes within permeable aquifer deposits. Additionally, contributing areas must be free from water quality impacts. Quantifying withdrawals and impacts to wetland resources and stream flow has also become an increasingly sensitive topic. Field visits and review of published data to date suggests that potential subsurface systems include vertical wells, infiltration galleries, radial collectors, and potential angle wells, at a number of locations. We will develop a matrix of development scenarios and critical issues and will score and rank each scenario. Calculations will be made to determine potential recharge and estimated safe yield, impacts to wetlands and waterways, and separation distances from potential contamination sources. A second matrix showing costs for design, permitting, construction and operation will be developed. Based on the two matrices, a ranking for each source scenario will be developed.

Task 3 Technical Memorandum

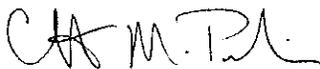
All data, maps and the matrices will be summarized in a technical memorandum. The memorandum will characterize potential success of each scenario in meeting all or portions of the required system demand (estimated at an average of 3 million gallons per day). The basis of the economic analysis and permitting complexity will be described. Weston & Sampson personnel will also be available to attend a meeting to discuss and explain the results of the evaluation. The memorandum will provide overlay maps in a 24x36 format, digital files for all data collected, and conclusions and recommendations on future efforts for permitting and design of the preferred scenarios.

Schedule and Cost

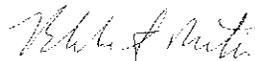
We estimate that the above effort can be completed in four to six weeks and would require an anticipated budget of \$2,800.00.

If you have any questions about the scope, benefits of the project or would like to discuss this approach in greater detail, please do not hesitate to call me.

Very truly yours,
WESTON & SAMPSON ENGINEERS, INC.



Christopher Perkins, PE.
Regional Manager



Blake A. Martin
Vice President, Water Resources

MEMORANDUM

TO: John B. Storer, P.E.

FROM: Jeffrey McClure, P.E.
Blake Martin

DATE: November 14, 2013

SUBJECT: Preliminary Hydrogeologic Feasibility Study, Budget Estimate

Thank you for the opportunity to review the algae concerns in Lake Auburn and view potential hydrogeologically important sites surrounding the lake. We offer the below scope of service and budget estimates for the District to perform an investigation into groundwater resources surrounding Lake Auburn.

Weston & Sampson recommends a two phased approach to determine potential yield, preliminary water quality, and infrastructure needs of a new ground water supply system. The initial phase of work generally includes data collection, field mapping and selection of test drilling locations and drilling methods. Small diameter test borings will be installed at locations demonstrating favorable unconsolidated deposits and sufficient recharge or induced infiltration (i.e. river bank filtration) to support a 3 MGD supply. Test drilling results, water quality analysis and limited pumping tests will be used to evaluate available parcels for yield and infrastructure needs.

This first phase of the subsurface investigation will be summarized in a technical report which will include preliminary groundwater modeling and engineering analysis of construction costs for associated piping facilities and system connections. Conceptual plans will be developed for the source approval process and for treatment and conveyance systems for the proposed water supply. The report will also outline testing procedures for a large diameter well (or wells) including horizontal collectors, angle wells or vertical well systems to satisfy permitting and final design. The drilling and testing of any large diameter test wells is considered the second phase of this study.

We recommend that the initial study and test borings be budgeted at approximately \$75,000 with 10-15k for field work and 30-40k for drilling and water quality analysis, and 10-20k for engineering analysis and a summary report.

The second phase is difficult to budget without an understanding of the well(s) being constructed, however a typical large-sized production test well is typically \$150,000 - \$200,000 to drill, pump test, and permit. Depending on in situ conditions, the District may need three individual wells, or more, to meet 3 mgd.

AUBURN WATER DISTRICT 2014 BUDGET

Proposed Final Draft
December 18, 2013

For Final Approval at Trustee Meeting of December 18, 2013

Trustees:

KC Geiger, President
Preston Chapman, Treasurer
James Wilkins
Robert Cavanagh
Richard Whiting
Lee Upton
Mayor's Representative, Tizz Crowley

Officers:

John B. Storer, Superintendent
Sid Hazelton, District Engineer
Greg Leighton, Financial Advisor

FINAL 12-18-13

AUBURN WATER DISTRICT

2014 Budget

	Actual 2011	Actual 2012	Budget 2013	PROJECTED 2013	BUDGET 2014	Notes
Residential	\$1,202,956	\$1,204,128	\$1,207,000	\$1,183,804	\$1,270,814	Per Rate Filing for 1/1/14 Increase
Commercial	\$362,499	\$366,997	\$372,000	\$370,127	\$403,498	Per Rate Filing for 1/1/14 Increase
Industrial	\$398,910	\$438,117	\$442,380	\$466,500	\$508,560	Per Rate Filing for 1/1/14 Increase
Public Authorities	\$108,175	\$118,989	\$119,400	\$93,699	\$102,147	Per Rate Filing for 1/1/14 Increase
Seasonal	\$11,032	\$11,189	\$11,189	\$10,775	\$11,391	Per Rate Filing for 1/1/14 Increase
Total Metered Water Sales	\$2,083,572	\$2,139,420	\$2,151,969	\$2,124,905	\$2,296,409	8.1%
Rents from Property	51,720	54,165	54,165	54,466	54,466	Rent on Towers
Interest Income	28,991	19,754	17,000	12,408	13,000	Interest Income, Finance Fees
Merchandise & Jobbing	83,408	47,000	30,000	42,244	42,500	Jobbing & CIAC
Public Fire Protection	556,916	556,918	556,918	556,916	611,494	Public or "City" Hydrant Charges including Poland
Private Fire Protection	272,250	272,745	273,845	275,637	302,066	Private sprinklers and hydrants
Other Revenues	63,929	50,828	51,000	50,983	51,000	50K from ASD for meters plus Lewiston Motive Water
Total Revenues	\$3,140,786	\$3,140,830	\$3,134,897	\$3,117,559	\$3,370,935	8.1%
Payroll	644,438	634,557	661,872	699,595	713,082	See Labor Details
UV Treatment Plant	213,358	240,957	254,731	236,002	258,841	See Details on Page 2
Chloramine Facility	0	0	0	5,600	8,075	See Details on Page 2
Laboratory	31,401	42,810	40,781	51,300	36,000	See Details on Page 2
Transmission/Distribution	186,951	170,108	153,903	158,093	159,885	See Details on Page 2
Administration	471,703	486,022	506,735	492,678	516,775	See Details on Page 3
Vehicle Maintenance	63,483	67,191	69,830	77,700	88,925	See Vehicle Details
Gull Management	76,120	97,533	87,599	79,477	84,377	50% shared cost with Lewiston, 3 yr avg
Watershed Protection	154,270	116,517	187,558	187,558	212,500	See Watershed Budget
Interest Payments	211,267	200,910	186,810	186,186	204,734	See Debt Schedules
Total Expenses	\$2,052,991	\$2,056,605	\$2,149,819	\$2,174,189	\$2,283,194	5.0%
Net from Operations - Principal	\$1,087,795	\$1,084,225	\$985,078	\$943,370	\$1,087,741	See Debt Schedules
Surplus from Operations	\$363,685	\$274,375	\$169,875	\$128,167	\$256,247	
General Equipment	44,270	36,759	258,300	173,266	153,250	See Equipment Details
Capital Projects	149,617	275,212	555,000	539,692	1,646,250	See Capital Details
Change in Cash after Capital	\$168,798	(\$37,596)	(\$643,425)	(\$584,791)	(\$1,543,253)	
Total Expenses	2,821,371	2,903,214	3,223,322	3,162,658	3,267,938	Total Expenses, Bond Payments, General Equipment

AUBURN WATER DISTRICT
2014 Budget

	Actual 2011	Actual 2012	Budget 2013	PROJECTED 2013	BUDGET 2014	Notes
UV TREATMENT PLANT						
Treatment Chemicals	\$58,262	\$76,473	\$94,815	\$73,044	\$92,000	Chlorine, Fluoride, Polyphosphate, CO2 (First Full Year with CO2)
Power	150,115	150,046	130,414	122,258	123,481	Electricity for pumping water, UV Power & Pumps - Net of Lewiston
Contracted Maintenance	4,298	18,411	23,131	18,700	18,000	Generators, HVAC, UV, Sprinklers, IT, Cleaning
Materials & Supplies	744	1,000	1,030	10,000	13,000	Analyzer Reagents, Buffers, Seals, Pumps, Etc
Propane	4,237	-4,973	5,341	12,000	12,360	Propane at UV Treatment Plant
TOTAL:	\$217,656	\$240,957	\$254,731	\$236,002	\$258,841	
CHLORAMINE FACILITY						
Power	0	0	0	2,100	3,000	Electricity for pumping water
Propane	0	0	0	1,000	2,500	Propane at Chloramine Facility
All Other	0	0	0	2,500	2,575	Supplies, Maintenance, Other
TOTAL:	\$0	\$0	\$0	\$5,600	\$8,075	
LAB						
Contracted Services	14,252	14,831	22,085	24,800	22,000	Contracted Lab Work (HETL, Etc), Alternate Year Certification
Supplies	17,149	27,979	18,696	26,500	14,000	HACH, Idexx, VWR Supplies for Internal Lab
TOTAL:	\$31,401	\$42,810	\$40,781	\$51,300	\$36,000	
TRANSMISSION/ DISTRIBUTION						
Maint of Mains	\$70,749	\$76,007	\$67,519	\$55,733	\$67,496	Materials & Supplies, Paving, Dig Safe, Misc (3 year avg)
Dist System - Power	11,349	11,727	13,751	12,010	12,130	Power - Court Street, Reservoirs
Dist System - Fuel, Misc	14,026	20,893	16,950	22,000	18,973	Propane for Buildings - Utiliti, Other Misc Maint (3 year avg)
Dist System - Services	12,019	22,580	15,000	21,000	18,533	All materials for repairs & maint. of approx. 6,300 services
Dist System - Meters	2,859	4,217	4,400	4,100	3,725	All materials for repairs & maint. of approx. 6,300 meters
Dist System - Hydrants	2,512	1,977	2,000	5,000	3,163	All materials for repairs & maint. of approx. 560 hydrants
Dist System - All Other	9,767	4,168	8,532	7,250	8,500	Cell Phones, ROWs, Other Misc
Dist System - Dues & Training	16,451	13,283	12,816	16,000	15,245	Assoc. Dues, Training & Subscriptions. Measure the Lake (3 year avg)
Other - Misc	3,604	9,392	4,935	4,000	4,120	SCADA, Phone, Misc Other
Other - Building Maint	7,916	5,864	8,000	11,000	8,000	Office (Bisson), Repairs (Thayer), Sprinklers, Trash, Re-Key Doors (2014)
TOTAL:	\$151,252	\$170,108	\$153,903	\$158,093	\$159,885	

AUBURN WATER DISTRICT

2014 Budget

	Actual 2011	Actual 2012	BUDGET 2013	PROJECTED 2013	BUDGET 2014	Notes
ADMINISTRATION						
Employer FICA Payments	57,873	63,153	64,410	67,825	73,142	Wages x 7.65%
Unemployment Insurance	1,597	2,155	2,638	3,596	3,668	Maine Municipal
MSRS Retirement	34,988	35,363	35,934	37,081	37,452	ME-PERS
ICMA (401 Plan) Retirement	26,116	32,290	32,597	34,185	35,211	6% rate for participants
Misc. & Clothing Allowance	5,736	13,912	4,855	6,751	6,819	Retiree Life, Clothing, Misc (2012 includes HR Assistance)
Shared EE w/Lewiston	6,036	7,189	6,782	7,410	7,484	Dan Rodrigue
Health Insurance	191,769	187,480	208,288	207,741	224,528	PPO-500 with HRA Account at 33% Utilization - 4% Increase
Billed TO Lewiston	(12,993)	(24,196)	(19,500)	(28,160)	(38,400)	MJ, Rod Hill & Mike Broadbent
Billed TO ASD	(20,275)	(20,227)	(20,000)	(17,606)	(17,500)	Billed to Auburn Sewer Monthly
Sub-Total EE Benefits	290,847	297,119	316,004	318,823	332,403	
Regulatory Expenses	\$7,212	\$15,770	\$18,125	\$18,715	\$22,000	MPUC, Public Advocate & DWP Annual Fees
Electricity	3,200	3,166	3,235	2,370	2,394	Power for Office Building
Supplies	8,556	3,660	4,864	4,465	4,510	Paper, computer supplies, & forms
Legal & Audit	35,034	27,657	28,580	29,600	29,896	Accounting (G Leighton), Audit (Horton, McFarland), Legal
Customer Billing & Accounting	9,634	3,786	10,486	9,180	9,272	NDS - Software, Postage & Bills, Bad Debts
Machine Maintenance	2,519	2,308	2,424	2,415	2,439	Maint. Contracts for computer/copier/fax/postage
Telephone	1,823	1,519	2,778	1,250	1,263	Office telephone lines
Miscellaneous	55,321	75,209	61,416	54,755	59,798	Jobbing, Software, Dues, Postage, Newsletter (2x/yr)
Vehicle Insurance	7,909	8,236	8,483	8,825	9,090	Automobile Insurance, all vehicles/ MMA
Liability & Property Insurance	14,621	13,238	13,900	8,150	8,558	Liability, Fire, & Umbrella Insurance/MMA
Workmen's Compensation	28,115	24,213	25,995	20,210	20,816	Net of Reimbursements, Dividend
Other Insurances	6,912	10,141	10,445	13,920	14,338	Directors & Officers Insurance/ MMA
TOTAL:	\$471,703	\$486,022	\$506,735	\$492,678	\$516,775	

**AUBURN WATER DISTRICT
2014 Budget**

	Actual 2011	Actual 2012	BUDGET 2013	Projected 2013	BUDGET 2014	Projected 2015	Projected 2016	Projected 2017
Principal	\$682,778	\$809,850	\$815,203	\$815,203	\$831,494	\$732,500	\$741,116	\$745,462
Interest	\$218,930	\$200,911	\$186,810	\$186,186	\$204,734	\$159,960	\$149,183	\$137,566
TOTAL:	\$901,708	\$1,010,761	\$1,002,013	\$1,001,389	\$1,036,228	\$892,460	\$890,299	\$883,028

BONDS & NOTES

CURRENT BONDED INDEBTEDNESS:

<u>Issue Date</u>	<u>Balance</u>	<u>Principal</u>	<u>Interest</u>	<u>Term</u>	<u>Interest</u>	<u>Notes</u>
23-May-02	\$868,224	\$90,461	\$38,148	20 years	4.86%	General Improvements
23-May-02	\$995,400	\$124,425	\$12,946	20 years	0.00%	General Improvements
1-Dec-07	\$492,915	\$31,709	\$9,692	20 years	1.59%	Little Androscoggin River 24" Main
18-Jun-08	\$386,394	\$23,580	\$6,026	20 years	1.25%	Clean & Line Mains
20-May-09	\$1,837,138	\$118,525	\$5,926	20 years	0.00%	UV Phase I, Phase II Design, Rehab Mains
20-May-09	\$887,961	\$57,288	\$2,864	20 years	0.00%	UV Phase I, Phase II Design, Rehab Mains
28-Oct-10	\$2,458,843	\$119,851	\$68,278	20 years	4.50%	UV Phase II & Meter Replacement
28-Oct-10	\$1,247,292	\$248,108	\$24,715	15 years	1.00%	Refinance Old Bonds (1994, 1998, 2005)
10-Dec-10	\$323,395	\$17,547	\$4,227	20 years	1.00%	Chloramination Facility
23-May-14	\$0	\$0	\$31,912	20 years	4.05%	\$2M Bond for Treatment
TOTAL CURRENT BONDS:	\$9,497,562	\$831,494	\$204,734			

AUBURN WATER DISTRICT - LONG TERM DEBT PAYMENT SCHEDULE

Year	2002 (c)		2002 (b)		2008 (a)		2008 (b)		2009 (b)		2010-ReFI		2010-Chloramines		2010-LUV-Meters		TOTAL		
	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Yearly Totals
2002	57,846.00	33,504.80	124,425.00	0.00	29,300.00	12,232.72	22,160.00	7,525.16	8,750.00	437.50	8,750.00	437.50	8,750.00	437.50	8,750.00	437.50	8,750.00	437.50	33,504.80
2003	59,581.00	74,864.98	124,425.00	12,943.54	29,768.00	11,766.34	22,437.00	7,246.35	17,500.00	875.00	17,500.00	875.00	17,500.00	875.00	17,500.00	875.00	17,500.00	875.00	124,425.00
2004	61,369.00	73,047.76	124,425.00	12,942.08	30,241.00	11,292.41	22,718.00	6,964.07	18,012.50	3,400.63	18,012.50	3,400.63	18,012.50	3,400.63	18,012.50	3,400.63	18,012.50	3,400.63	124,425.00
2005	63,287.00	71,176.00	124,425.00	12,944.40	30,722.00	10,810.84	23,002.00	6,678.23	18,525.00	5,926.26	18,525.00	5,926.26	18,525.00	5,926.26	18,525.00	5,926.26	18,525.00	5,926.26	124,425.00
2006	65,343.00	69,166.64	124,425.00	12,946.74	31,202.00	10,321.88	23,289.00	6,398.70	19,037.50	5,926.26	19,037.50	5,926.26	19,037.50	5,926.26	19,037.50	5,926.26	19,037.50	5,926.26	124,425.00
2007	67,631.00	67,010.32	124,425.00	12,953.32	31,709.00	9,824.69	23,575.00	6,095.75	19,525.00	5,926.26	19,525.00	5,926.26	19,525.00	5,926.26	19,525.00	5,926.26	19,525.00	5,926.26	124,425.00
2008	70,336.00	64,610.42	124,425.00	12,963.53	32,213.00	9,320.15	23,875.00	5,799.07	20,000.00	5,926.26	20,000.00	5,926.26	20,000.00	5,926.26	20,000.00	5,926.26	20,000.00	5,926.26	124,425.00
2009	73,149.00	61,760.82	124,425.00	12,976.74	32,726.00	8,807.32	24,174.00	5,498.70	20,475.00	5,926.26	20,475.00	5,926.26	20,475.00	5,926.26	20,475.00	5,926.26	20,475.00	5,926.26	124,425.00
2010	76,148.00	58,796.28	124,425.00	12,992.57	33,248.00	8,296.36	24,475.00	5,194.49	20,900.00	5,926.26	20,900.00	5,926.26	20,900.00	5,926.26	20,900.00	5,926.26	20,900.00	5,926.26	124,425.00
2011	79,346.00	55,822.69	124,425.00	12,970.45	33,776.00	7,797.00	24,782.00	4,886.58	21,325.00	5,926.26	21,325.00	5,926.26	21,325.00	5,926.26	21,325.00	5,926.26	21,325.00	5,926.26	124,425.00
2012	82,758.00	44,000.40	124,425.00	12,972.45	34,314.00	7,219.30	25,091.00	4,574.73	21,750.00	5,926.26	21,750.00	5,926.26	21,750.00	5,926.26	21,750.00	5,926.26	21,750.00	5,926.26	124,425.00
2013	86,482.00	43,030.86	124,425.00	12,978.65	34,861.00	6,673.05	25,405.00	4,259.05	22,175.00	5,926.26	22,175.00	5,926.26	22,175.00	5,926.26	22,175.00	5,926.26	22,175.00	5,926.26	124,425.00
2014	90,461.00	38,849.32	124,425.00	12,990.86	35,416.00	6,118.08	25,723.00	3,939.42	22,600.00	5,926.26	22,600.00	5,926.26	22,600.00	5,926.26	22,600.00	5,926.26	22,600.00	5,926.26	124,425.00
2015	95,097.00	34,434.13	124,425.00	13,002.32	35,979.00	5,564.21	26,044.00	3,615.75	23,025.00	5,926.26	23,025.00	5,926.26	23,025.00	5,926.26	23,025.00	5,926.26	23,025.00	5,926.26	124,425.00
2016	99,971.00	29,222.83	124,425.00	12,999.96	36,552.00	4,981.44	26,369.00	3,288.03	23,450.00	5,926.26	23,450.00	5,926.26	23,450.00	5,926.26	23,450.00	5,926.26	23,450.00	5,926.26	124,425.00
2017	105,094.00	23,675.81	124,425.00	12,987.45	37,134.00	4,399.54	26,700.00	2,956.30	23,875.00	5,926.26	23,875.00	5,926.26	23,875.00	5,926.26	23,875.00	5,926.26	23,875.00	5,926.26	124,425.00
2018	110,480.00	17,845.09	124,425.00	12,986.20	37,725.00	3,808.35	27,033.00	2,620.32	24,300.00	5,926.26	24,300.00	5,926.26	24,300.00	5,926.26	24,300.00	5,926.26	24,300.00	5,926.26	124,425.00
2019	116,226.00	11,736.14	124,425.00	12,993.30	38,335.00	3,207.80	27,371.00	2,280.19	24,725.00	5,926.26	24,725.00	5,926.26	24,725.00	5,926.26	24,725.00	5,926.26	24,725.00	5,926.26	124,425.00
2020	122,269.00	7,586.02	124,425.00	12,995.00	38,936.00	2,597.66	27,713.00	1,935.60	25,150.00	5,926.26	25,150.00	5,926.26	25,150.00	5,926.26	25,150.00	5,926.26	25,150.00	5,926.26	124,425.00
2021	128,627.00	4,126.46	124,425.00	12,999.24	39,536.00	2,000.00	28,059.00	1,597.09	25,575.00	5,926.26	25,575.00	5,926.26	25,575.00	5,926.26	25,575.00	5,926.26	25,575.00	5,926.26	124,425.00
2022																			
2023																			
2024																			
2025																			
2026																			
2027																			
2028																			
2029																			
2030																			
TOTAL	1,711,530.00	872,267.79	2,488,500.00	2,465,510.61	673,000.00	153,659.04	500,000.00	95,229.73	2,168,450.00	108,422.68	1,066,180.00	53,308.84	1,963,614.43	265,268.36	2,800,000.00	60,641.02	13,746,244.43	2,779,864.98	16,526,109.41

	2011 Actual	2012 Actual	2013 Budget	Estimated 2013 Actual	2014 Budget
Expenditures:					
Auburn Water District	12,713.87	12,779.12	20,000.00	18,000.00	13,000.00
Lewiston Water Division	6,080.00	9,999.00	10,000.00	7,000.00	10,000.00
Executive Administration	6,994.17	7,087.37	6,000.00	6,500.00	6,500.00
Contingency	-	-	250.00	-	0.00
Source Protection Management	9,322.50	36,592.58	35,300.00	32,361.00	54,000.00
Forestry	6,046.43	4,427.07	5,100.00	6,584.00	3,100.00
Outside Services	3,090.00	4,357.74	4,400.00	5,700.00	5,500.00
Sanitary Facilities	3,208.50	3,304.00	3,360.00	3,353.00	3,360.00
Repairs to Property & Equipment	17,565.05	11,637.48	17,000.00	17,000.00	9,000.00
Public Education	4,362.55	738.31	76,000.00	62,405.00	72,750.00
Insurances	6,426.50	7,927.33	6,250.00	9,188.00	11,090.00
Legal	9,426.06	1,231.24	4,000.00	6,243.00	5,500.00
Audit/Financial Services	5,791.26	6,091.26	6,392.00	6,192.00	6,592.00
Property Taxes	3,105.07	3,713.05	3,860.00	3,805.00	3,940.00
Operational Supplies	-	-	6,100.00	6,335.00	2,100.00
Miscellaneous	1,781.91	985.39	2,405.00	2,065.00	2,250.00
Total Operating Expenditures	95,913.87	110,870.94	206,417.00	192,731.00	208,682.00
Capital Expenditures:					
Pontoon Motor		7,400.00			
GIS Flyover			10,000.00	10,000.00	
Boat Lift			6,000.00	5,830.00	
Forestry Plan				10,000.00	
Dash Boat			15,000.00		
Total Capital Expenditures	-	7,400.00	31,000.00	25,830.00	-
Total Expenditures	95,913.87	118,270.94	237,417.00	218,561.00	208,682.00
Revenues:					
Contributions - AWD	54,270.00	70,607.00	62,558.00	62,558.00	87,500.00
Contributions - LWD	54,270.00	70,607.00	62,558.00	62,558.00	87,500.00
Fund Balance Carryforward			100,000.00		24,450.00
Sale of Timber/Assets	29,725.90	20,346.91	7,000.00	20,967.00	4,000.00
Intergovernmental	3,850.00	5,000.00	5,000.00	5,805.00	5,000.00
Interest	368.98	273.45	301.00	215.00	232.00
Total Revenues	142,484.88	166,834.36	237,417.00	152,103.00	208,682.00
Surplus	46,571.01	48,563.42	0.00	-66,458.00	0.00
Total contributions from each entity:					
Operations	54,270.00	70,607.00	62,558.00	62,558.00	87,500.00
Land Acquisition	100,000.00	70,000.00	125,000.00	125,000.00	125,000.00
	154,270.00	140,607.00	187,558.00	187,558.00	212,500.00
					13.30%
Water Withdrawal Revenue	877.54	966.55	850.00	1,042.00	1,000.00
Accumulative Balance	4,232.06	5,198.61		6,240.61	7,240.61

Health Insurance Summary

CURRENT (2013) Health Insurance Cost
PLAN = PPO-500

Employee	District	Plan	Monthly Total Premium	Monthly Employee Cost	Monthly District Cost
Bates	AWD	Family	\$1,434.33	\$215.15	\$1,219.18
Bell	AWD	Emp & Sp.	\$1,434.33	\$215.15	\$1,219.18
Bourea	AWD	Family	\$1,434.33	\$215.15	\$1,219.18
Broadbent	AWD	Family	\$1,434.33	\$215.15	\$1,219.18
Dillingham	AWD	Emp & Sp.	\$1,434.33	\$215.15	\$1,219.18
Forin	AWD	Family	\$1,434.33	\$215.15	\$1,219.18
Hill	AWD	Family	\$1,434.33	\$215.15	\$1,219.18
Holmes	AWD	Single	\$639.42	\$95.91	\$543.50
Lajoie	AWD	Family	\$1,434.33	\$215.15	\$1,219.18
Lane	AWD	Emp & Child	\$1,043.33	\$156.50	\$886.83
Leavitt	AWD	Family	\$1,434.33	\$215.15	\$1,219.18
Martin	AWD	Emp & Sp.	\$1,434.33	\$215.15	\$1,219.18
Stevens	AWD	Family	\$1,434.33	\$215.15	\$1,219.18
Storer	AWD	Single	\$639.42	\$95.91	\$543.50
Trabu	AWD	Single	\$639.42	\$95.91	\$543.50
Replica D.T	AWD	Family	\$1,434.33	\$215.15	\$1,219.18
Whitlock	AWD	Emp & Sp.	\$1,434.33	\$215.15	\$1,219.18
Mayers	ASD	Opt-Out	\$0.00	\$0.00	\$0.00
Desjardins	ASD	Opt-Out	\$0.00	\$0.00	\$0.00
Drinwater	ASD	Emp & Sp.	\$1,434.33	\$215.15	\$1,219.18
Fairs	ASD	Family	\$1,434.33	\$215.15	\$1,219.18
Hamann	ASD	Emp & Child	\$1,043.33	\$156.50	\$886.83
Hazzleton	ASD	Family	\$1,434.33	\$215.15	\$1,219.18
Jabart	ASD	Family	\$1,434.33	\$215.15	\$1,219.18
Millet	ASD	Family	\$1,434.33	\$215.15	\$1,219.18
MONTHLY EXPENSE:			\$29,822.92	\$4,473.44	\$25,349.48
ANNUAL EXPENSE:			\$357,875.00	\$53,681.25	\$304,193.75
ASD Annual share:			27.5%		\$83,793.00
AWD Annual Share:			72.5%		\$220,400.75
TOTAL:					\$304,193.75

3 Single	Set Up HRA Account	
6 Emp/Sp/Child		
13 Family		
HRA Fees		
	Total =	\$64,000.00

ASD share:	29.3%	\$93,144.72
AWD Share:	70.7%	\$224,451.61
TOTAL:		\$317,596.33

Worst Case - 100% Utilization

ASD Cost:	29.3%	\$111,914.65
AWD Cost:	70.7%	\$269,681.68
TOTAL PLAN COST:		\$381,596.33

Scenario w/ 33% Utilization

ASD Cost:	29.3%	\$99,401.36
AWD Cost:	70.7%	\$239,526.30
TOTAL PLAN COST - 2014:		\$338,928.67

Scenario w/ 33% Utilization

ASD Cost:	29.3%	\$99,401.36
AWD Cost:	70.7%	\$239,526.30
TOTAL PLAN COST - 2014:		\$338,928.67

Scenario w/ 33% Utilization

ASD Cost:	29.3%	\$99,401.36
AWD Cost:	70.7%	\$239,526.30
TOTAL PLAN COST - 2014:		\$338,928.67



Recommendation for 2014

Vehicle
Summary

AUBURN WATER DISTRICT
AUBURN SEWERAGE DISTRICT
2014 Budget

FINAL 12-18-13

	Actual 2011	Actual 2012	BUDGET 2013	Projected 2013	BUDGET 2014	Notes
VEHICLES WATER						
Unit # 16, 2000 Chevy Pickup	1,910	609	1,743	1,500	3,340	Gas & Maintenance
Unit # 19, 2002 GMC Sierra 1500 P/U	1,920	3,409	2,973	1,500	2,276	Gas & Maintenance
Unit # 22, 2003 Ford Focus Wagon	401	702	1,743	650	3,500	Gas & Maintenance
Unit # 23, 2004 GMC 8 cy Dump Truck	427	5,235	3,075	2,500	8,721	Gas & Maintenance
Unit # 24, 2005 Chevy 1 Ton Utility	6,523	10,340	10,019	8,500	5,000	Replacing in 2014
Unit # 25, 2005 Chevy Silverado	2,014	1,804	2,255	1,300	1,706	Gas & Maintenance
Unit # 26, 2006 Chevy 1 Ton 2 WD	3,867	5,075	5,228	3,500	4,147	Gas & Maintenance
Unit # 28, 2007 Ford 1 Ton Utility	5,067	7,280	5,945	6,100	10,149	Gas & Maintenance
Unit # 29, 2008 Chevy Colorado	3,739	4,027	3,895	7,500	5,089	Gas & Maintenance
Unit # 30, 2008 JD Backhoe-Loader	17,272	3,961	4,818	3,700	3,831	Gas & Maintenance
Unit # 31, 2010 Ford Transit Van	2,434	2,614	2,870	2,000	2,349	Gas & Maintenance
Unit # 32, 2011 Ford F-350 P/U	3,316	4,863	5,330	3,100	3,760	Gas & Maintenance
Unit # 33, 2012 Ford Service Truck	0	1,943	2,050	3,000	1,648	Gas & Maintenance
Unit # 34, 2004 Dump Truck	0	0	0	8,000	8,000	Gas & Maintenance
Unit # 36, 2013 Ford 150	0	0	0	1,000	3,000	Gas & Maintenance
Unit # XX, New Mini-Loader	0	0	0	0	3,000	Gas & Maintenance
All Other Miscellaneous Transportation	5,254	3,287	7,688	2,000	5,000	Trailers, Tools, Etc
Labor on Vehicles & Equipment	9,339	12,042	10,200	21,850	14,410	In-House Work on Equip
TOTAL:	\$63,483	\$67,191	\$69,830	\$77,700	\$88,925	

	Actual 2011	Actual 2012	BUDGET 2013	Projected 2013	BUDGET 2014	Notes
VEHICLES SEWER						
Unit #21, 2002 Chevy Service Truck	5,055	4,107	4,911	4,150	3,500	Replacing in 2014
Unit #27, 2006 Chevy Plow Truck	2,914	5,665	3,588	5,500	4,693	Gas & Maintenance
Leased Vacuum Truck	0	0	6,500	5,000	7,850	Gas & Maintenance
All Other Vehicle Related	512	377	844	650	513	Durand Flusher
TOTAL:	\$8,481	\$10,149	\$15,843	\$15,300	\$16,556	

**AUBURN WATER DISTRICT
AUBURN SEWERAGE DISTRICT
2014 Equipment Budget**

2014 Equipment Budget	BUDGET COST	AWD SHARE	ASD SHARE	LEW SHARE	Notes
<u>Water Operations</u>					
L35 mini-loader	\$75,000	\$37,500	\$37,500	\$0	Multi-use, snow removal, load @ reservoir, trench backfilling
Plow for one-ton dump (#32)	\$6,000	\$6,000	\$0	\$0	Plowing reservoirs, hydrants, Spring Road
Utility Truck	\$35,000	\$35,000	\$0	\$0	Replace T-24, year 2005, high mileage
Cost of Service Study	\$30,000	\$15,000	\$15,000	\$0	Cost of Service Study, Rate Design (Chris Woodcock)
	<u>\$146,000</u>	<u>\$93,500</u>	<u>\$52,500</u>	<u>\$0</u>	
<u>Sewer Operations</u>					
Utility Truck	\$45,000	\$0	\$45,000	\$0	Replace T-21, include crane for pump removal
Vacuum truck & flusher	\$0	\$0	\$68,500	\$0	Capital Lease - 5 Years @ \$68,500 per year - 2014 = Year 2
	<u>\$45,000</u>	<u>\$0</u>	<u>\$113,500</u>	<u>\$0</u>	
<u>SCADA & Electrical</u>					
Generator at Ipswich	\$5,000	\$2,500	\$2,500	\$0	SCADA Reliability for data transmission
SCADA Tablets	\$15,000	\$7,500	\$7,500	\$0	New Tablets for SCADA Use
SCADA Laptop	\$2,500	\$1,250	\$1,250	\$0	Replacement Computer for SCADA
	<u>\$22,500</u>	<u>\$11,250</u>	<u>\$11,250</u>	<u>\$0</u>	
<u>UV Plant & Lab</u>					
Entrance gate	\$20,000	\$10,000	\$0	\$10,000	Automatic gate w/ card reader
Concrete walkways	\$20,000	\$10,000	\$0	\$10,000	Share 50/50 with Lewiston
Tissue Culture Microscope	\$8,000	\$4,000	\$0	\$4,000	Lab Equipment
Process Analyzers	\$8,000	\$4,000	\$0	\$4,000	Lab Equipment
	<u>\$56,000</u>	<u>\$28,000</u>	<u>\$0</u>	<u>\$28,000</u>	
<u>Office & Administrative</u>					
Computers	\$8,000	\$4,000	\$4,000	\$0	Replace Desktop Computers in Office (No XP Support)
Digital Imaging System	\$15,000	\$7,500	\$7,500	\$0	Konica KIP 700 Digital Imaging System (Scan, Maps, Etc)
Office rehab	\$8,000	\$4,000	\$4,000	\$0	Remove woodstove, renovate old lab office, garage storage
E.O.P. lighting	\$10,000	\$5,000	\$5,000	\$0	Replace 90 troffers, \$3,100 annual savings - 20,000 kwhr's
	<u>\$41,000</u>	<u>\$20,500</u>	<u>\$20,500</u>	<u>\$0</u>	
TOTAL 2013:	<u>\$310,500</u>	<u>\$153,250</u>	<u>\$197,750</u>	<u>\$28,000</u>	

AUBURN WATER DISTRICT AUBURN SEWERAGE DISTRICT

Capital Projects Summary

2014 Project Capital Improvement Projects (not budgeted in regular O&M)

<u>2014 Water District Projects</u>	BUDGET COST	Priority COST	Future COST	<u>Notes</u>
<u>MAINS & INFRASTRUCTURE</u>				
S. Main - Cook back to Bolster	\$216,000	\$216,000	\$0	City Repaving, All New, 1800 feet
Hotel Road - Minot back to Steevens Mill Rd	\$240,000	\$240,000	\$0	City Repaving, All New, 2400 feet
Littlefield Bridge Removal	\$26,500	\$26,500	\$0	\$53,000 Total, Split 50/50 with ASD
Poland Road - Hammond Lumber towards Manley	\$350,000	\$0	\$350,000	Poor Condition - Needs Replacement
Valview	\$200,000	\$0	\$200,000	Poor Condition - Needs Replacement
Silva	\$75,000	\$0	\$75,000	Deteriorated Galvanized Line
	Sub-Total =	\$1,107,500	\$482,500	\$625,000
<u>LAKE STUDY & REMEDIATION</u>				
Temp Labor/Assistance	\$6,250	\$6,250	\$0	1 Intern - Field Technician
Bates College - Data Buoy & Research	\$16,500	\$16,500	\$0	Realtime Data Buoy, Gloeotrichia Research
VLMP	\$6,000	\$6,000	\$0	Baseline Monitoring in Watershed
Dr. Ken Wagner	\$5,000	\$5,000	\$0	Ongoing Algae Consultation
Lake Testing	\$30,000	\$30,000	\$0	Outsourced phosphorus, chlorophyll, nitrates
Lake Treatment	\$1,000,000	\$1,000,000	\$0	Nutrient binder or phosphorus stripping
	Sub-Total =	\$1,063,750	\$1,063,750	\$0
Groundwater Exploration *	\$100,000	\$100,000	\$0	Alternate - dependent on Lake treatment
	WATER TOTALS:	\$2,271,250	\$1,646,250	\$625,000

<u>2014 Sewer District Projects</u>	BUDGET COST	Priority COST	Future COST	<u>Notes</u>
i&i Remediation Projects & CSO Work	\$2,600,000	\$250,000	\$2,350,000	5yr CSO Plan Updated. Begin Implementations
i&i Additional Investigation	\$75,000	\$75,000	\$0	Additional smoke-testing and evaluation
Clean Interceptor	\$10,000	\$10,000	\$0	Remove debris from 36-inch Interceptor - In-House
Sewer Liner - Academy Street	\$54,000	\$54,000	\$0	Re-Line: 1250 feet of 10-12" sewer main
Sewer Liner - James Street	\$47,000	\$47,000	\$0	Re-Line: 1050 feet of 12" sewer main
Sewer Liner - Newbury Street	\$30,000	\$30,000	\$0	Re-Line: 720 feet of 10-12" sewer main
Sewer Liner - 3rd Street	\$20,000	\$20,000	\$0	Re-Line: 415 feet of 8" sewer main
Sewer Liner - Western View	\$15,000	\$0	\$15,000	Re-Line: 300 feet of 8" sewer main
Replace Sewer Main - 5th Street	\$45,000	\$45,000	\$0	Replace: 400 feet of 12" sewer main
Sewer Liner - S Main (Roy to Ipswich)	\$180,000	\$0	\$180,000	Re-Line: 4000 feet of 12" sewer main - Future Project
E5 & E6 Stations	\$30,000	\$30,000	\$0	Valve Pits
Rehab Taylor Pond West Side Stations	\$25,000	\$25,000	\$0	New pumps W-3, New electrical & controls W-6
E-2 Station Upgrade	\$45,000	\$45,000	\$0	New pumps & electrical service and VFD's
Littlefield Bridge Removal	\$26,500	\$26,500	\$0	\$53,000 total, split 50/50 with water
	TOTAL:	\$3,202,500	\$657,500	\$2,545,000