

LAKE WHATCOM WATER AND SEWER DISTRICT 1220 LAKEWAY DRIVE BELLINGHAM, WASHINGTON 98229

REGULAR MEETING OF THE BOARD OF COMMISSIONERS

AGENDA

December 28, 2016

8:00 a.m. – Regular Session

- 1. CALL TO ORDER
- PUBLIC COMMENT OPPORTUNITY
 At this time, members of the public may address the Commission. Please state your name prior to making comments.
- 3. ADDITIONS, DELETIONS, OR CHANGES TO THE AGENDA
- 4. CONSENT AGENDA
- 5. SPECIFIC ITEMS OF BUSINESS:
 - A. Draft 2017 Budget
 - B. Non-union Staff COLA for 2017
 - C. Summary of Existing District Projects
 - D. Capital Improvement Project List
- 6. OTHER BUSINESS
- 7. MANAGER'S REPORT
- 8. PUBLIC COMMENT OPPORTUNITY
- 9. ADJOURNMENT



LAKE WHATCOM WATER AND SEWER DISTRICT

AGENDA BILL

DATE SUBMITTED:	December 19, 2016							
TO BOARD OF COMMISSIONERS								
FROM: Patrick Sorensen	MANAGER APPROVAL Yaz's Fewe							
MEETING AGENDA DATE:	December 28, 2016							
AGENDA ITEM NUMBER:	5.A.							
SUBJECT:	Draft 2017 Budget							
LIST DOCUMENTS PROVIDED →	1. Draft 2017 Budget							
NUMBER OF PAGES INCLUDING AGENDA BILL:	2.							
	3.							
TYPE OF ACTION REQUESTED	RESOLUTION FORMAL ACTION/ INFORMATIONAL/ MOTION OTHER OTHER							

BACKGROUND / EXPLANATION OF IMPACT

At the December 14, 2016 meeting, the Board discussed the proposed Budget for 2017 in depth and requested several changes. Attached is the Draft 2017 Budget with the requested changes.

FISCAL IMPACT

None at this time.

RECOMMENDED BOARD ACTION

Review and consider the proposed Budget for 2017.

PROPOSED MOTION

To adopt the 2017 Budget as presented.



LAKE WHATCOM WATER AND SEWER DISTRICT

2017 ANNUAL BUDGET



FY 2017 BUDGET

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Organization Chart
Personnel Summary



FY 2017 Budget

Lake Whatcom Water & Sewer District 1220 Lakeway Drive Bellingham, Washington 98229

Approved: <u>December 14, 2016</u>

Board of Commissioners:

Laura Weide, President
Todd Citron, Secretary
John Carter, Commissioner
Curt Casey, Commissioner
Bruce Ford, Commissioner

General Manager Patrick Sorensen

December 14, 2016



LAKE WHATCOM WATER AND SEWER DISTRICT 1220 LAKEWAY DRIVE BELLINGHAM, WASHINGTON 98229

(360) 734-9224 FAX 738-8250

December 14, 2016

Board of Commissioners Lake Whatcom Water and Sewer District 1220 Lakeway Drive Bellingham, WA 98229

Re: Proposed 2017 Budget

Dear Commissioners:

Attached are a copy of the proposed 2017 budget and a summary of related topical issues for your consideration and discussion:

Expenditure & Revenue Highlights

Overall net expenditures are proposed to increase by approximately 3.75% over last year's approved 2016 Budget. One of the primary reasons for this includes labor cost increases. A cost of living increase of 2.4% and step increases for those qualified is provided for in the proposed budget. This is consistent with the terms of our labor agreement with AFSCME Local 114WD.

The District is entering into the second year of a three year contract in January. Another component of our labor costs includes an 11% increase in health and life insurance rates. The District purchases its insurance through the State's Public Employees Benefits Board (PEBB). This is the first significant increase in rates over the last three years. Rate increases in general within the private sector and with other public entities have increased by as much as 20% or more throughout the U.S. and this region. In addition, the employer cost to the State of Washington's retirement system (PERS) will be increasing by 3.3% in January.

In keeping with the District's succession plan in addressing upcoming employee retirements over the next three years we are recommending that a new full time Utility Systems Support Specialist position be added in mid-year 2017 in preparation of the pending retirement of our existing Specialist position in 2018. This is a critical position that will require training over a period of time in advance of the pending retirement. In addition, we are also budgeting for the planned promotion of an existing Maintenance Worker II position to a Maintenance Worker Lead position. This position was created in late 2016 in conjunction with our succession planning efforts and previously approved by the Board of Commissioners. General liability insurance will also be increasing by 7% in 2017. Because

of projected revenue increases Washington Department of Revenue business and occupation taxes (B&O Tax) will increase by 4%. Other operating expenses are projected to increase through the normal rate of inflation.

As described above, overall revenue in 2017 is projected to increase by approximately 4%. As called for within the District's adopted water and sewer rate plan, water rates will increase by 8.75% in January while sewer rates will increase by 2.5%. These rates are connected to projected operating and capital costs outlined in the previously adopted comprehensive planning process. The new rates were adopted previously in 2014 following a 5-year rate study. These rates were again re-evaluated this fall for their adequacy. In addition, we are conservatively budgeting for only 10 new connections in 2017. We planned for 5 connections in 2016 and realized 19. Remaining ULID No.18 payments, which are nearly paid off have been decreasing each year, and are projected to bring in approximately \$550,000 over 2017. Again, these funds are unrestricted in their use as the original loan has been paid off, and continue to be available for general operations.

Operating Reserves (Working Capital)

An operating reserve is designated to provide a liquidity cushion; it protects the utility from the risk of short-term variation in the timing of revenue collection or payment of expenses. Like other types of reserves, operating reserves also serve another purpose; they help smooth rate increases over time. In 2017 we are proposing 60 days of sewer and 90 days of water expenses which is within the industry standard of 45 - 60 days for sewer utilities and 60 - 90 days for water utilities. In 2016 our operating reserve was 45 days of sewer expenses. We are increasing this reserve by 15 days.

Capital Contingencies (Water and Sewer/Stormwater)

In addition to protecting against variations in the timing of operating costs and revenues, it is prudent to maintain a capital contingency reserve to meet unexpected emergency capital outlays. We have traditionally used replacement costs to derive the targeted reserve dollar amount which equates to 1% (up from .5% in FY 2016) of the replacement cost of fixed assets. In the 2017 budget we provide for a \$750,000 sewer reserve and a \$440,000 water reserve. Both exceed the minimum capital contingency requirement.

Rate Fund System Reinvestment

The District has a policy of setting aside a certain amount of rate revenue each year for system reinvestment. Funding depreciation expense meets several standards for responsible rates: financial integrity, rate equity, and adequacy of capital funding. For 2017 the District has budgeted system reinvestment at \$1,588,000.

Projects and Significant Activities in 2016

Each year the District initiates projects from its ongoing 6-year Capital Improvement Program that are critical to maintaining our existing water and sewer systems. These projects are identified within the District's Water and Wastewater Comprehensive Plan's and within the long-range financial and rate plan. The largest and most time consuming project over the last three years has been the Geneva AC Water Main Replacement Project. Initiated in 2015 the project was completed in 2016. Approximately 2.5 miles of water lines were replaced in the streets of the Geneva neighborhood.

Design and pre-bid preparation work for the new Division 22 water tank in Sudden Valley was also initiated in 2015. Though it will not be fully completed until 2017, much of the work was completed in 2016. The Strawberry Point Sewer Pump Station replacement project was also completed in 2016. Both the Geneva AC and the Division 22projects were financed through a low interest \$3.3 million Washington State Department of Health (WDOH) loan received previously.

The District also completed a first time seismic assessment of its existing 5 steel water tank reservoirs. This effort will provide direction to us in the future as we plan for upgrading identified deficiencies within our comprehensive planning process. In 2016 the District also started design to the Country Club Sewer Pump Station. In addition, the District received a \$30,000 grant from the WDOH to study the financial feasibility of consolidating its Eagleridge and Agate Heights water systems along with a number of small private systems along the Northshore of Lake Whatcom. This work was initiated in the fall of 2016 and should be completed during the coming summer.

The District also initiated the Northshore Water Quality Sampling program in the late fall which will run into the summer of 2017 in order to evaluate the impact of existing onsite sewage disposal systems along the shore line. This commitment is an extension of the District's prior years goal to evaluate the value of connecting 80 + homes along Northshore Road and the shore line that are served by these existing older septic systems in an urbanized area. This is an evolutionary process of study and evaluation that will likely involve the City of Bellingham and Whatcom County. Finally, the District refunded its 2009 bond issue saving approximately \$1.1 million by issuing a 2016 bond at a lower rate and in turn paying off a \$2 million loan nearly 20 years early to the City of Bellingham for our share of required wastewater treatment plant improvements. Each of these is but a sample of the important work undertaken in 2016.

Looking Forward Into 2017

In 2017 the District will move forward on completing and closing out the Division 22 Water Reservoir. In addition to moving forward to the North Shore water system consolidation study and the water quality study the District will also be updating our water comprehensive plan in the new year. In 2017 the District is scheduled to both design and upgrade the Country Club Sewer Pump Station. Potentially this may involve elliminating the pump station. We will also be initiating the permitting and design work associated with both the Lakewood and Geneva Sewer Pump Stations. Financially, we are scheduled to replace 3 older vehicles in 2017.

Each of these highlighted projects fall within the framework of the District's existing critical planning documents such as our Water and Sewer Comprehensive Plans and the previously adopted water and sewer rate schedule. Together these documents along with the policy direction provided by the Board of Commissioners serve the District in matching up needed resources to implement critical capital improvements and ongoing maintenance requirements.

In Conclusion

Again, the District's financial condition remains healthy and solvent. We follow long established conservative financial budgeting practices. Debt service requirements continue to be met. Resources are being saved for future capital requirements and unforeseen

emergencies. The on-going effort of planning and preparing for the future along with the operational maintenance requirements of the District are being met. This continues to be a result of the dedication and diligence exhibited by the Board of Commissioners in establishing governing policies and by the commitment and efficiency of staff in carrying out these policies. As always, recognition needs to be given to the employees of the District who are responsible for doing a great job in managing the resources we are entrusted with on behalf of the ratepayers.

Respectfully submitted,

Patrick Sorensen General Manager



OPERATING FUND SUMMARY 401

This fund is maintained as the primary operating fund of the District. The majority of the revenue is derived from rates charged to water and sewer customers. Other revenue sources are interest income, late payment fees, recording fees, permit fees and miscellaneous charges and fees. All fees and charges are set by the Board of Commissioners. Funds collected are used to pay for operating and maintenance expenditures in accordance with the annual operating budget.



SYSTEM REINVESTMENT FUND SUMMARY 420

The System Reinvestment Fund is a special fund intended to receive and disburse funds for capital construction projects. This fund is primarily funded through interfund income from the General Fund. It is additionally funded annually in an amount established through the rate study. Other income is in the form of grants, loans, latecomer fees and permits. The System Reinvestment Fund expenses are derived from the "Capital Improvement and Maintenance Plan" attached to the fiscal year 2017 budget.



SEWER/STORM WATER CONTINGENCY FUND SUMMARY 425

The Sewer/Storm Water Contingency Fund was created to ensure that unforeseen projects related to sewer system and storm water system expenses will have funding, as approved by the Board. The funding level is established at 1% of utility plant replacement cost.

WATER CONTINGENCY FUND SUMMARY 426

The Water Contingency Fund was created to ensure that unforeseen projects related to the water system will have funding, as approved by the Board. The funding level is established at 1% of utility plant replacement cost.



2016 BOND CAPITAL PROJECTS FUND 431

The 2016 Bond Capital Projects Fund was created to track the bond issue proceeds. Funds were utilized to refund the remaining 2009 issue, pay off the City of Bellingham Post Point portion and finance two capital projects.

DWSRF PROJECTS FUND SUMMARY 440 (DRINKING WATER STATE REVOLVING FUND)

The DWSRF Projects Fund is a special fund for the utilization of two Drinking Water State Revolving Fund loans. One project replaces aging water mains including all of the asbestos concrete (AC) water mains in the Geneva service area with ductile iron (DI) water mains. The other project constructs a new .5 MG (million gallon) reservoir to keep up with population growth primarily due to infilling in Geneva and Sudden Valley. These projects will be finalized during the 2017 budget year.



DEBT SERVICE FUND SUMMARY 450

The Debt Service Fund serves to provide redemption of outstanding debt incurred. The 2016 Bond issue interest is paid semi-annually, and the principal is paid annually from General Fund revenues. This fund also serves to provide redemption of long term water project loans. Principal and interest are paid entirely from General Fund revenues. A "Revenue Bonds and Loan Funds Summary" is included in the budget document.

BOND RESERVE FUND SUMMARY 460

This fund was established by the covenants of the 2016 bond sale and is restricted by definition. A reserve limitation is required to be held in the Reserve Fund until the outstanding 2016 bonds are paid in full. The bond reserve is fully funded.



LAKE WHATCOM WATER AND SEWER FUND SUMMARY 2017

PROPOSED 2017 YEAR END BALANCE ALLOCATED TO OPERATING RESERVES AVAILABLE 2017 YEAR END BALANCE	CASH/INVESTMENTS 2016 CARRYOVER	2017EXPENDITURES AND TRANSFERS OUT	2017 REVENUES AND TRANSFERS IN		A SEWER OF
\$1,119,289 -\$800,000 \$319,289	1,750,000	(6,928,728)	6,298,017	OPERATING	401
\$		(1,668,000)	1,668,000	SYSTEM REINVESTMENT	420
\$780,550	887,000	(210,200)	103,750	WATER	425 SEWER/ STORM
\$442,500	440,000		2,500	WATER	426
8	156,923	(156,923)	•	2016 BOND FUND	431
\$3	828,150	(1,058,100)	229,950	DWSRF	440
\$	22,990	(913,162)	890,172	DEBT	450
\$776,850 \$3,119,189	773,200	(200)	3,850	RESERVE (RESTRICTED)	188
\$3,119,189	4,858,263	(200) (10,935,313)	9,196,239	TOTAL	

LAKE WHATCOM WATER AND SEWER DISTRICT YEAR 2017 TRANSFERS

TOTAL TRANSFERS		DESCRIPTION
	401 1,598,000 420 401 890,172 450 401 200,000 425	FROM FUND
\$ 2,688,172	1,598,000 890,172 200,000	AMOUNT TO FUN
		₽
\$ 2,688,172	1,598,000 890,172 200,000	AMOUNT

* Per Resolution 806 effective 1/1/2015 Scheduled ennual rate increase		2% [1%	TOTAL REVENUES	-80	401-395-20-00 Insurance recovery 401-395-40-00 Sale of Capital Assets	401-378-10-20 Bank fees Permits Operation portion (10 new connection permits)		401-368-10-00-80 ULID 18 Principal Payments 401-368-10-00 Sale of scrap metal and similar		401-381-11-40 Invactment Inforces		401-343-50-19 Sewer Service Other		REVENUES	OPERATING FUND - 401	Description
			5,470,742	89,280	F 000	1,545	3,967		7,639	64,178	39,825	3,480,670	1,744,440		2014	Actual
			5,885,037	73,517	15,943	31 005	1,720		824	59,921	\rightarrow	3,680,523	1,986,211		2015	Actual
			6,049,026	60,000	10,00	200			1,00		30,000	3,740,663			2016	Adopted
	61% Sewer Service 36% Water Sales 1% Fees/Charges 2% Permits, Other	Legend:	6,298,017		30,000		2,500					3,8			2017	Budget

			166,468	CANADA I AMARIA I AMA
•			14,760	401-53X-10-44 WA State Dept of Revenue Teves
50,000	46,000	47,297	49,212	401-53X-10-43 Membership/ince
270.000	231,500	227,893	300,258	
3.000				01
20.000				
1.000				Whatevan County Emorgan Management
22,000				Charlote Evan Teamy
2,000				Generality and Testing
2,500				Master Mater
1,500				nnovyza - Engineering
1,500				ESRI - ARC GIS
500				IT Pipes
1,000				Rockwell - Engineering/Operations
1,000				GIS Parthership
8,000				Auto Desk - Engineering
9,000				Cartegraph - Engineering/Operations
-,000				SCADA/PLC Support - Engineering/Operations
1,000				Camera van Sonware
7,000				Wisdi Cingingering
7.500				Wilson Enthoders
2,000				GE Scodes Content (Notes in Maritan (19)
5,500				South White Property of the Pr
600				Landscaping service
7,700				Pest control
1,500				Building custodial
1,000				Building security for offices
20,000				Watchguard
00,000				3D - Computer support
2,000				Legal Counsel
0,000				Docuware/Web site maintenance and upgrade
22,000				CPA (Internal audit and Financial statements)
30,000				WA State Auditor
20,000				Web Check services
30,000				BAS Financial Software
1,700				Data Pro (Time clock system)
7 700				Answering Service
4,000				Data Bar (Statement processing)
	00,000	17,00	00,107	County Auditor Filing Fees (Simplifile)
	SE 000	£2 27A	60 134	Water Quality Assurance Programs (TOTAL)
			+	Interlocal - Invasive Species
20,000	20,000	27,760	17,405	Interlocal - Lake Whatcom Management Program
	1,500	27.75	47 405	Web pay/Bank Fees
	21,000	1,00	4 544	
	24,700	22 746	22,100	2
T	UBC 20C	191 599	507.598	Admin Personnel Benefits (Medical, Retirement etc
+	200 204	24A 029	1 437 711	
				401-53X-10-10
				EXPENDITURES
				OPERATING FUND = 401
/ LnZ sebong	20.10	CIOZ IBMSW 4-107 IBMSW-	ALL DATE INDICATE	
	Adopted	Antiol South	Actual 2014	Description

1,700,000				2017 YEAR END ALLOCATED TO OPERATING RESERVES	
(6,928,728)	(6,192,903)	(5,095,083)	(3,342,337)	2016 BALANCE CARRYOVER	
6,298,017	6,049,026	5,470,741	5,470,742	EXPENDITIBES	
				ODEDATING DEVENIES	OPERATING FUND
6,928,728	6,192,903	5,095,083	5,342,337	TOTAL EXPENDITURES	
	215,4/0	177,185	00,338	A A TITLE TO THE PARTY OF THE P	
-	250,000	1	200	Transfers Out to Water near Debt Senting From 470	
890,172	443,050	448,252	447,450	Transfer Out to Dept Service Fuel 450	
		85,095		Transfers Out DWSW- Projects Fund 440	
ı	600,000			i ransiers Out to Water Contingency Fund 426	
100,000				I ransfers Out to Sewer/Storm Water Contingency Fund 425	
1,598,000	530,000	392,000	947,000	Transfers Out to System Reinvestment Fund 420	TRANSFERS
4,340,556	4,154,383	4,052,551	3,882,548	OPERATING EXPENDITURES	
	120,420	124,000		MALLETT ME TO THE PROPERTY OF	
	120 426	134,000		Post Point Interest Payments	401-592-35-83
4,000	72 343	80 880	.,01	Post Point Principal Payments	401-591-35-77
4 000	000,00	2 820	1 911	Laundry	401-53X-80-49
200,000	195 000	188 528	202 182	General Utilities	401-53X-80-47
10.00	1,000	-,000	131	Emergency Preparedness	401-53X-80-35-02
3 500	2500	1,808	2.208	Safety Supplies Boots	401-53X-80-35-01
10,000	13,000	17 346	6 121	Safety Supplies	401-53X-80-35
10.00	30,000	27 817	32 830	Fuel	401-53X-80-32
414 030	355 900	349 954	•		401-53X-80-20
071 7	908,270	967 141		Operations Payroll (2.4% cola plus step increases - 2017)	401-53X-80-10
815,000	600,000	564 405	674.017	Sewer City of Bellingham Treatment Fee	401-535-60-47
40,000	40,000	37,083	34 595	Water City of Beilingham	401-534-60-47
0,0	10,000	2 748	10 485	Operations Contracted	401-53X-60-41
5,000	5,000	11 633	5.360	Insurance Claims	401-53X-50-49
130,000	55,000	72 502	65 725	Operations Repair/Maint	401-53X-50-48
180 000	145 000	142 319	140.958	Maintenance Supplies	401-53X-50-31
1 00	1 000	100	-	Tultion reimbursement	401-53X-40-43-01
35,000	35,000	28 446	20.118	Training & Travel	401-53X-40-43
20.800	191 500	186 096	•	WA State Dept of RevenueTaxes/Permits	401-53X-10-49-02
15 000	12,000	11.077		Memberships/Dues	401-53X-10-49-01
1 000	1 000	712	800	Admin Misc.	401-53X-10-49
138 000	125,000	121 322	105.538	Property Insurance	401-53X-10-46
2 000	2000	1.796	2.310	Admin Lease	401-53X-10-45
Budget 2017	2016	Actual ZUTS	Actual 2014	reset i mini	

PROPOSED 2017 YEAR END BALANCE	CASH/INVESTMENTS BALANCE CARRYOVED	REVENUES	SYSTEM REINVESTMENT FIND	TOTAL EXPENDITURES		New 2017 Capital Projects (see CIP detail - 2017)	Active Projects to be completed in 2017	Michigan Anna Comment Comment of the		420-594-38-63 Capital Order/Source Sections			420-534-10-41 DEA Contracted Services	I GIAF KEVENORU	TOTAL DEVENUES	420-397-10-00 Transfers in from Operating Fund 401	420-379-10-40	420-343-40-19 DEA Permits	420-369-90-20 Prior Year Relimburgement	024 - Old 1 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10	SYSTEM REINVESTMENT EININ AND		Description
	(1,049,373)	1,049,738		1,049,373				194,215	750,766	104,392				1,049,738		947,000	64,096	38,642					Actual 2014 Actual 2015
1	(439,198)	439,555		439,198			-	12,493	290,788	135,917				439,555		392,000	47,555						ctual 2015
	(570,000)	570,000		570,000						570,000				570,000		530,000	40,000						Adopted 2016
		1,668,000	1	1,668,000	ONC'DRO	005,77	777 500	•	1	,	a			1,668,000		1,598,000	70,000					Ġ	Budget 2017

Active Capital Improvement Projects

Grant I.	Category Project # Project Title / Tasks	
Grant I can and Bond Eundad Braingto	Proje to C	
	(values Projected Budget to Completion	
	(values updated 11/8/2016) Budget etion Spent to Date F	
	Arnount Remaining	
	Notes	

					30,000.00	69	Funding by DOH Grant \$		
	29,696.00	69	304.00 \$	69	30,000.00	69	Northshore Water System Consolidation	C1613	Water
					1,738,789.00	69	Total Project Funding \$ 1,738,789.00		
Amendment application in progress Bond planned for \$800k					440,939.00	69 6	Balance Funded by 2016 Revenue Bond		
					994,850.00	A 69	DWSRE I can Amendment		
	912,772.15	69	813,166.85	69	1,738,789.00	49	Total Project Cost \$ 1,738,789.00 \$ 813,166.85 \$ 912,772.15		
Amendment application in progress					3,000.00	မာ	DWSRF Loan Fee - Amendment		
I hru pay estimate #3	394,300.00 \$ 807,945.00	4	394,300,00	6	9,850,00	€9 €	DWSRF Loan Fee		
	102,761.73	9 66	100,002.27	A 4	1 400 505 00	A 6	Construction - T Baily		
	2,065.42	69	32,934.58	9 69	35,000.00	n (n	Permit fees, advertising, legal, printing Engineering Consultant - Gray & Osborna		
							Division 22 Reservoir	C1401	Water
			Cloecis			0			

Vorthshore Water Q	
ality	
Sampling	Sewer/Storm
	Water
	Contingency
	Fund Projects
	y)

		ł		ı		į		
	209,402,35	69	11,956.80	€9	221,359.15	69 69	Grand Total for Sewer/Storm Water Contingency Fund Projects \$ 221,359.15 \$ 11,956.80 \$ 209,402.35	
County storm water treatment project	\$ 134,012.15	69		69	134,012.15 \$	69	2	Storm
	75,390.20	69	11,956.80	69	87,347.00	69	Project Total	
	7,095.20 68,295.00	()	11,956.80 \$	ର ର	19,052.00 \$ 68,295.00 \$	en en	PH1 - Herrera Sampling & Analysis Plan \$ 19,052.00 \$ 11,956.80 \$ 7,095.20 PH2 - Herrera Implement Sampling & Analysis \$ 68,295.00 \$ - \$ 68,295.00	
							Sewer CT607 Northshore Water Quality Sampling	Sev

					Sewer C1611				C1606	Sewer C1603		Sewer C1908			Water C1505			•
	Grand Total for Rate Funded Projects \$ 1,009,178.50 \$ 231,828.82	Construction - Estimate	Construction Full Construction - Estimate	PH1 - BHC Design, Permitting, Bidding	Country Club Sewer Pump Station	Little Strawberry Water Leak on Bridge	Replace SCADA Workstation Hardware	water system Fight Opdate	What State District Generally	Maring-Tomb Stationary Country	CON Construction College	Whatcom Falls MH Repair	Geolesi	BHC Consultants	Reservoir Seismic Vulnerability Assessment	Reservoir Site Security	Lowe dewer PS VFD	
	d Projects																	Rate Fu
	(A	€9	69	(A)	1	6A	H	69	6	₩.	69		69	69		69	69	ī
	1,009,178.50	400,000.00	80,000.00	153,093.00		10.000.00	10,000.00	100,000.00	40,000.00	126,886.39	35,228.00		3,953.11	35,018.00		5.000.00	10,000.00	Rate Funded Projects
ı	69	69	69	49	•	5A ·	€9	69	69	69	69		69	€9	4	69	69	डि
	231,828.82	9		999.70	1		7,328.48		33,217.21	121,039.09	23,724.55		3,953.11	35,018.00			6,548.68	
I	69	69	69	69	•	A	69	69	49	(A	69		69	69	•	А	(A)	
	777,349.68	400,000.00	80,000.00	152,093.30	10,000.00	10,000,00	2.671.52	100,000.00	6,782.79	5,847.30	11,503.45		ř	ì	0,000.00	5 000 00	3,451.32	
										Thru final pay estimate								

Lake Whatcom Water and Sewer District - Capital Improvement Plan 2017 thru 2022

2018

Program Area / CIP Project # / CIP Project Name

AO	0174	0163	0161	0137	2	0150	01	21	18	00	8	00	8	8	8	100	8	8	18	8	8	8	18	8	18	00	00	90	Sewer System		٧.	χ(\ (Κ	EC	A(both water and sewer
A0010	ı						0128c F	0128b F	0056c L	0056b (0056a (0055b F	0055a F	0053c	0053b I	0053a I	0050b		0044c	0044b	0044a	0038c	0038b	0038a	0032c	0032Ь	0032a	stem		V0004	V0003	V0002	ı	E0001	A0005	er and :
Undate Sewer Comprehensive Plan (Current Plan Dated 6 1/201/1)	Install Ball Check Valves - 2 at Airport, 1 at Beaver	Euclid Sewer Pump Station - Replace Controls, Add Transfer Switch, and Stationary Generator	Stationary Generator Closed Loop Cooling Retrofit - North Point, SV, Flat Car, Beaver	install ball check valves at Cable, Kanch House, Flat Car, Beaver	hetall Ball Charle Value at Call Bank III Replacement	Beaver and Flat Car I evel Transmitter Benjacement	Procure Additional Backup Generator - 82KW Portable Generator	Procure Additional Backup Generator - Strawberry Canyon Extension Cord	Lakewood Pump Station - Construction	Lakewood Pump Station - Design and Bidding	Lakewood Pump Station - Predesign and Shorelines Permitting	Rocky Ridge Pump Station - Construction	Rocky Ridge Pump Station - Design and Bidding	Rocky Ridge Pump Station - Predesign and Shorelines Permitting	Dellesta Pump Station - Construction	Dellesta Pump Station - Design and Bidding	Dellesta Pump Station - Predesign and Shorelines Permitting	Par Lane Pump Station - Construction	Par Lane Pump Station - Permitting, Design, Bidding	Edgewater Pump Station - Construction	Edgewater Pump Station - Design and Bidding	Edgewater Pump Station - Predesign and Shorelines Permitting	Geneva Pump Station - Construction	Geneva Pump Station - Design and Bidding	Geneva Pump Station - Predesign and Shorelines Permitting	Agate Bay Pump Station - Construction	Agate Bay Pump Station - Design and Bidding	Agate Bay Pump Station - Predesign and Shorelines Permitting			Replace Light Truck	Replace Locator / Meter Reading Van	Replace Administrative Staff Vehicle (3 cars in fleet)	Replace Tool Truck (6 tool trucks in fleet)	Replace Backhoe (budget estimate for new unit)	Accounting & Administration Server - Replace/Update Hardware, Network Security, & OS	Sewer
									4						4					7	1									Subtotal						ecurity, & OS	
	10,000	154,500	206,000	103,000	000,000	7000	61.800	20,000	475,000	100,000	100,000	500,000	100,000	100,000	475,000	100,000	000,000	400,000	175,000	475,000	100,000	100,000	475,000	100,000	100,000	500,000	100,000	100,000		410,108	30,000	28,000	26,000	130,000	166,108	30,000	
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Cost Es		W0007	W0005	W0003	W0002d	W0002b	W0002a	0149	0141	0130	0125	0108	0060Ь	0060a	stem		S0001b	S0001a	Area / C
* Note: Cost Estimates in 2017 Dollars Grand Total	Subtotal	SVWTP Filter 1&2 Media - Replace	Reservoirs - Inspection & Maintenance	SVWTP Filter 3&4 Media - Replace	Water Meters - Radio Read Module Replacement	Water System Rehab and Replacement Projects	Water System Rehab and Replacement Projects	SVWTP Chemical Feed Pumps, Benchtop Turbidimeter	SVWTP Floor Coating	Eagleridge Booster Station Controls Reconfiguration and PLC Programming	Mechanical Staff Gauge for SVWTP Clearwell Reservoir	Replace SVWTP Booster Station Roof	Eagleridge Fire Pump Control Upgrade - Construction	Eagleridge Fire Pump Control Upgrade - Develop project scope and estimate		Subtotal	EPA Capacity, Management, Operations, & Maintenance (CMOM) Projects - Sewer I&I	EPA Capacity, Management, Operations, & Maintenance (CMOM) Projects - Sewer I&I	Program Area / CIP Project # / CIP Project Name
otal	otal		:													otal			Fund
7,950,162	1,345,795	22,148	25,000	22,148	660,000	80,000	400,000	7,500	5,000	50,000	4,000	30,000	35,000	5,000		6,194,259	25,000	820,000	d Total
890,500	251,500				110,000	40,000		7,500	5,000	50,000	4,000	30,000		5,000		505,000	25,000		2017
1,585,800	210,000		25,000		110,000	40,000							35,000			1,375,800		164,000	2018
1,347,959	210,000				110,000		100,000									1,107,959		164,000	2019
1,342,256	232,148			22,148	110,000		100,000									864,000		164,000	2020
1,446,148	232,148	22,148			110,000		100,000									1,214,000		164,000	2021
1,337,500	210,000				110,000		100,000							0	23	1,127,500		164,000	2022

Project Name:	Geneva Pump Station Replacement
CIP #:	0038

Asset Register:	LWWSD → Sev	ver → Pump Sta	tions → Gen	eva		
Failure Mode:	Capacity	Level of Sen	vice <u>Mo</u>	rtality	E	fficiency
Business Risk Exposure:	30	= 10	x 3 x 1 (PoF	x CoF x I	Redunda	ancy)
Remaining Life:	-2 years	Consumed Life:	42 years		ctive fe:	40 years

PURPOSE and DESCRIPTION OF THE PROJECT

Project includes retrofitting existing Smith & Loveless wet well mounted pump station with new pumps, controls, telemetry, and pole mounted work light manually switched at control panel.

The existing pump station was installed in 1974. Two existing 7.5 HP pumps each have a design point of 100 GPM at 65-eet TDH. Check valves are inaccessible for maintenance or cleaning. If a check valve ever jams, it would be a major project to access them for service. The retrofit is part of a District wide pump station plan to replace all 30+ year old equipment.

This pump station is located adjacent to Lake Whatcom and pumps into the gravity collection system to be re-pumped by Cable St PS. The wet well level will be monitored via pressure transducer with backup high/low floats. Pumps can be single speed. The wet well diameter is six-feet and the power service is currently 3-phase/ 230V.

Budget Estimate (Based on Boulevard, Strawberry Pt., & Country Club Costs)

Phase A – begin 2 years before construction Predesign, Shoreline Permit:

\$100,000

Phase B – begin 1 year before construction

Design, Bidding:

\$100,000

Phase C – construction year

Services During Construction:

\$75,000

Construction:

\$400,000

Grand Project Total:

\$675,000

Historical Pump Station Replacement Cost Data

Boulevard (2014)	
Predesign and Permitting	\$90k
Design and Bidding	\$100k
Services During Construction	\$90k
Construction	\$353k
Total	\$633k
Strawberry Pt (2016)	
Predesign and Permitting	\$103k
Design and Bidding	\$95k
Services During Construction	\$50k
Construction	\$400k
Total	\$648k
Country Club (2016)	
Predesign, Permitting, Design, Bidding	\$153k

Cost estimate in 2017 dollars.

For further information about this project call Bill Hunter.

- Created 8/1/2006.
- Revised 8/2/2006 by MMM: Revised project scope, added budget.
- Revised 8/3/2006 by BH: Added to purpose.
- Revised 8/28/2006 by MMM: Revised PS description.
- Revised 12/6/2007 by BH: Adjusted budget to reflect recent Plum/Strawberry Canyon project costs.
- Revised 8/6/2009 by BH: Adjusted budget to reflect recent Tomb PS project.
- Revised 10/4/2011 by BH: Updated budget numbers to be a bit more conservative.
- Revised 12/5/2016 by BH: Updated budget numbers base on recent pump station projects.

Project Name:	Lakewood Pump Station Replacement
CIP #:	0056

Asset Register:	LWWSD → Sew	ver → Pump Sta	tions → Lake	wood	
Failure Mode:	Capacity	Level of Ser	vice <u>Mor</u>	tality E	fficiency
Business Risk Exposure:	30	= 10	x 3 x 1 (PoF	x CoF x Redund	ancy)
Remaining Life:	-2 years	Consumed Life:	42 years	Effective Life:	40 years

PURPOSE and DESCRIPTION OF THE PROJECT

Project includes retrofitting existing Smith & Loveless wet well mounted pump station with new submersible pumps, controls, telemetry, and pole mounted work light manually switched at control panel.

The existing pump station was installed in 1974. Two existing 15 HP pumps each have a design point of 100 GPM at 85-feet TDH. Check valves are inaccessible for maintenance or cleaning. If a check valve ever jams, it would be a major project to access them for service. The retrofit is part of a District wide pump station plan to replace all 30+ year old equipment.

The wet well diameter is -feet and the power service is currently 3-phase/ 230V. The service area for this very small (about 5 residences and the WWU Lakewood facility). It is repumped by Airport PS.

Budget Estimate (Based on Boulevard, Strawberry Pt., & Country Club Costs)

Phase A – begin 2 years before construction

Predesign, Shoreline Permit: \$100,000

Phase B – begin 1 year before construction

Design, Bidding: \$100,000

Phase C – construction year

Services During Construction: \$75,000

> Construction: \$400,000

Grand Project Total: \$675,000

Boulevard (2014)	
Predesign and Permitting	\$90k
Design and Bidding	\$100k
Services During Construction	\$90k
Construction	\$353k
Total	\$633k
Strawberry Pt (2016)	
Predesign and Permitting	\$103k
Design and Bidding	\$95k
Services During Construction	\$50k
Construction	\$400k
Total	\$648k
Country Club (2016)	
Predesign, Permitting, Design, Bidding	\$153k

Cost estimate in 2017 dollars.

For further information about this project call Bill Hunter.

- Created 8/2/2006.
- Revised 8/2/2006 by MMM: Revised project scope, added budget.
- Revised 8/3/2006 by BH: Added to purpose.
- Revised 12/6/2007 by BH: Adjusted budget up slightly.
- Revised 8/6/2009 by BH: Adjusted budget to reflect recent Tomb PS project.
- Revised 10/4/2011 by BH: Updated budget numbers to be a bit more conservative.
- Revised 12/5/2016 by BH: Updated budget numbers base on recent pump station projects.

Project Name:	Eagleridge Fire Pump Control Upgrade
CIP#:	0060

Asset Register:	LWWSD → Wate	er → Pump Sta	itions →	Eagleridge		
Failure Mode:	Capacity	Level of Serv	rice	Mortality	E	ficiency
Business Risk Exposure:	20	= 10	x 2 x 1 (PoF x CoF x l	Redunda	ıncy)
Remaining Life:	-6	Consumed Life:	26		ctive fe:	20

PURPOSE and DESCRIPTION OF THE PROJECT

Update fire pump controls and electrical service. The update increases reliability of the fire pumps to deliver fire fighting water, at the expense of operating to the point of fire pump/motor failure. Current electrical code values delivery of water to protect life and property more than protecting the mechanical/electrical components.

Existing fire pumps have starters that have automatic overload protection which is set very close to full load running amps. An automatic shutdown of fire pumps could occur during fire pump operation. Existing disconnects are not rated for use as service equipment. Disconnecting means must be lockable in the closed position. Existing overcurrent protective devices are 80 amp breakers. Current code calls for overcurrent protection for full lock rotor current. Each motor is approximately 218 amps. For detailed project information, see report by Ken Zangari dated April 24, 2006.

Project includes control and service updates to increase reliability of fire pumps per current electrical code.

Budget Estimate

0060a - 2017

Develop Scope and Cost Estimate:

\$5,000

0060b – **2018** (scope and cost estimates to be developed in 0060a, numbers below are order of magnitude estimates)

Construction:

\$30,000

Contract Administration:

\$5,000

Total:

\$40,000

For further information about this project call Bill Hunter.

- Created 7/21/2006 by BH.
- Updated 12/5/2016 by BH. Created initial action item to get a better handle on actual scope of work and a construction cost estimate)

Project Name:	Sudden Valley WTP Pump Station Roof	
CIP#:	0108	

Asset Register:	LWWSD → Water → South Shore → Sudden Valley WTP						
Failure Mode:	Capacity	Level of Service Mortality Efficiency					
Business Risk Exposure:	90	= 9 x 10 x 1 (PoF x CoF x Redundancy)					
Remaining Life:	6	Consumed 24 Effective Life:			30		

PURPOSE and DESCRIPTION OF THE PROJECT

The SVWTP Pump Station roof needs to be upgraded. The existing roof is approximately 2000 square feet in area, and constructed of asphalt shingles. The replacement roof will be constructed of a 26 gauge metal with a corrosion resistant coating. The benefits of a metal roof compared to a composition shingle roof include, withstanding high winds, less weight putting less stress on the structure, fire proof resulting in lower insurance rates and increased safety, environmentally friendly, 100% recyclable, and longevity.

Budget Estimate

Phase 1 - Engineering

Engineering (Plans, Specs & Est.): \$0

Phase 2 - Construction

Bid & Contract Administration & Inspection: \$0

Construction: \$30,000 Subtotal: \$30,000

Total: \$30,000

Cost in 2012 dollars.

For further information about this project contact Carl Hathcock.

- Created 11/19/2012 by CH.
- Updated 12/5/2016 by BH. Adjusted cost estimate to account for inflation from 2012.

Project Name:	Staff Gauge at SVWTP Contact Tank
CIP#:	0125

Asset Register:	LWWSD → Water → Treatment Plant → Sudden Valley						
Failure Mode:	Capacity	Capacity Level of Service Mortality Efficiency					
Business Risk Exposure:	= _ x _ x _ (PoF x CoF x Redundancy)						
Remaining Life:	N/A	Consumed N/A Effective Life:					

PURPOSE and DESCRIPTION OF THE PROJECT

Install a staff gauge, liquid level indicator, at the Sudden Valley Water Treatment Plant to provide a visual indicator of the stored water level.

The water level at the SVWTP contact tank is currently measured and monitored through the District's SCADA system. The installation of a staff gauge at the reservoir will provide a way to quickly determine the water level without use of a computer. Changes in the water level of the tank will raise or lower a float, which will move an indicator cable to display a level on a gaugeboard mounted to the exterior of the tank. The gauge will be visible from the treatment plant parking lot so that all staff can see the gauge and will be able to easily identify a water storage issue.

Budget Estimate: \$4,000 (2017 dollars)

Assumes installation by District crew.

For further information about this project call Bill Hunter

Revision History

Created 12/6/2015 by KH.

Project Name:	Procure Additional Backup Generators
CIP#:	0128

Asset Register:	LWWSD → Sewer → Pump Stations							
Failure Mode:	Capacity	Level of Service Mortality Efficiency						
Business Risk Exposure:	9	= 3 x 3 x 1 (PoF x CoF x Redundancy)						
Remaining Life:	N/A	Consumed Life:	N/A		30			

PURPOSE and DESCRIPTION OF THE PROJECT

Several recent wind storm and wide spread power outage events (August 29th storm and a couple in October/November 2015) highlighted a challenge and urgency for District crews to get portable generators to several smaller but critical sewer pump stations.

Staff recommends procuring an additional generator, installing a permanent extension cord at Strawberry Canyon, and installing a stationary generator to serve both Marin and Tomb.

Phase A (2016):

Completed in 2016

Phase B (2017):

The station is situated at the end of a long narrow dead end culde-sac in Sudden Valley. Maneuvering a generator into position is difficult. The original concept was to install a permanent extension cord at Strawberry Canyon sewer pump station with a receptacle at a location to simplify and expedite portable generator hookup. As staff looked into the details of this concept, the possible receptacle locations did not provide the benefit originally thought. The pump motors run off a typical single phase 240v system similar to that of a residence. Staff explored a different solution that installs a small propane generator and auto transfer switch. The alternate solution is a little more capital, but provides a huge benefit of a permanent stationary generator and frees up a larger and more expensive portable generator for use at other stations.

Phase C (2018):

Procure an additional portable generator.

Budget Estimate

Phase B (2017):

\$15,000

Propane powered stationary generator

\$ 5,000

Slab, site work, field wiring

\$20,000

Total estimate

Phase C (2018):

\$60,000 (82KW trailered generator from GSA)

Assumes site prep and installation by District crews. Cost estimate in 2017 dollars. For further information about this project call Bill Hunter

- Created 12/2/2015 by BH.
- Updated 12/5/2016 by BH. Revised Phase C scope of work.

Project Name:	Eagleridge Booster Station Controls Reconfiguration and PLC Programming
CIP#:	0130

Asset Register:	LWWSD → Water → Pump Stations → Eagleridge							
Failure Mode:	Capacity	Level of Service Mortality Efficiency						
Business Risk Exposure:	20	= 10 x 2 x 1 (PoF x CoF x Redundancy)						
Remaining Life:	-6	Consumed 26 Effective 20				20		

PURPOSE and DESCRIPTION OF THE PROJECT

Eagleridge Booster Station, installed in 1990, is a closed-zone, packaged booster pump station, which includes pumps, control panels, and instrumentation. LWWSD does not currently have the ability to monitor and control the booster pump station through its on-site telemetry system and remote Supervisory Control and Data Acquisition System (SCADA) as the packaged pump station is a standalone system, which does not interface with the SCADA system. This project involves preparing schematic electrical plans for interfacing the packaged pump station control system with the existing telemetry system, and to provide control system software development services for the on-site telemetry system.

LWWSD will be performing the electrical construction work associated with the control system upgrades, in-house. A controls engineering consultant will provide on-site field assistance with testing, implementing, and commissioning the control system software upgrades.

Budget Estimate

Controls Engineering and Programming

Design Schematics: \$8,000 PLC Programming, O&M Manuals: \$35,000

Electrical Permits, Materials, Etc: \$7,000

Total: \$50,000

For further information about this project call Bill Hunter.

- Created 1/22/2015 by BH.
- Updated 12/6/2016 by BH. Updated budget estimate based on consultant estimate for proposed scope of work.

Project Name:	SVWTP Floor Coating
CIP #:	0141

Asset Register:	LWWSD → Water → Treatment Plant → Sudden Valley						
Failure Mode:	Capacity	Level of Service Mortality Efficiency					
Business Risk Exposure:		= _x _x _ (PoF x CoF x Redundancy)					
Remaining Life:		Consumed Effective Life:					

PURPOSE and DESCRIPTION OF THE PROJECT

Clean, repair and coat concrete floor surfaces in the Sudden Valley Water Treatment Plant with an epoxy based concrete floor paint and urethane top coat.

The existing concrete floor in the treatment plant is the original concrete from the early 1970's construction of the plant. The existing concrete floor is degrading with moderate amounts of cracking and peeling. The aged surface is difficult to clean, slippery when wet and the cracks are an avenue for pests within the treatment plant. The proposed epoxy floor coating project will begin with crack sealing and surface preparation and rehabilitation of the peeled areas. The proposed epoxy based floor coating will contain an aggregate to provide surface traction and a chemical resistant urethane coating for durability, resistance to chemicals and for ease in cleaning and maintaining the coating.

Budget Estimate: \$5,000 (2017 dollars)

Assumes work to be done by District crew.

- Created 12/18/2015 by BH.
- Updated 12/6/2016 by KH.

Project Name:	SVWTP Benchtop Turbidimeter and Spare Chemical Feed Pumps
CIP#:	0149

Asset Register:	LWWSD → Water → Treatment Plants → SVWTP						
Failure Mode:	Capacity	Level of Service Mortality Efficiency					
Business Risk Exposure:	N/A	= _ x _ x _1 (PoF x CoF x Redundancy)					
Remaining Life:	N/A	Consumed N/A Effective Life:					

PURPOSE and DESCRIPTION OF THE PROJECT

This project procures spare chemical feed pumps for Sudden Valley and Agate Water Treatment Plants. It also includes purchasing a benchtop turbidimeter which will be required by the Washington State Department of Health to grab sample verify readings from the continuous turbimeters.

Budget Estimate:

SVWTP Spare Chemical Feed Pumps	\$3,500
Agate WTP Spare Chemical Feed Pumps	\$2,000
SVWTP Benchtop Turbidimeter	\$2,000

Total \$7,500

Cost estimate in 2017 dollars.

For further information about this project call Bill Hunter or Kevin Cook.

Revision History

Created 12/6/2016 by BH.

Project Name:	Beaver and Flat Car Level Transmitter Replacement
CIP#:	0150

Asset Register:	LWWSD → Sewer → Pump Stations → Lakewood						
Failure Mode:	Capacity	Level of Service Mortality		ality	Efficiency		
Business Risk Exposure:	20	= 10 x 2 x 1 (PoF x CoF x Redundancy)					
Remaining Life:	1 year	Consumed Life:	14 years	Effective Life:	15 years		

PURPOSE and DESCRIPTION OF THE PROJECT

Three pump stations installed with the Lake Louise Road Sewer Interceptor Project in 2002 are all controlled using ultra-sonic level transmitters. In early 2016 the level transmitter at Sudden Valley Sewer Pump Station began to fail requiring an emergency construction contract to make repairs. This project replaces similar transmitters at the two other stations - Flat Car and Beaver.

Budget Estimate

The cost for the C1609 Sudden Valley Pump Station Emergency Repair Project was about \$25,000.

The estimate for Flat Car and Beaver is $2 \times \$25k = \$50k$

Cost estimate in 2017 dollars.

For further information about this project call Bill Hunter.

Revision History

Created 12/5/2016 by BH.

Project Name:	Accounting & Administrative Server – Replace/Update Hardware, Network Security, & OS
CIP#:	A0005

Asset Register:	LWWSD → Gen	LWWSD → General → Admin Building → IT				
Failure Mode:	Capacity	Level of Service Mortality Efficiency			ficiency	
Business Risk Exposure:	30	= 10 x 3 x 1 (PoF x CoF x Redundancy)				
Remaining Life:	0 years	Consumed Life:	3 years		ctive fe:	3 years

PURPOSE and DESCRIPTION OF THE PROJECT

Replace/update accounting and administrative server, network security firewalls, and operating systems. Information technology professionals typically recommend a server hardware refresh cycle every 3 to 4 years as best practice.

The District currently utilizes a single server running several virtualized servers. The servers are essential to daily operations including accounting and customer service (BIAS), electronic document management of district archive files (Docuware), computerize maintenance management system (Cartegraph), geographic information system (GIS), data files, and shared calendars.

District customers, Board of Commissioners, and management expect a very high level of service delivered by the server. Continuous service with no more than one 4-hour or longer unplanned outage during business hours per year is management's level of service goal. To meet this level of service, replacement of server hardware should follow industry best practice of a 3-year replacement cycle.

Budget Estimate: \$15,000.00 (2017 dollars)

For further information about this project call Bill Hunter.

- Created 7/19/2006.
- Update 8/2/2006.
- Update description 11/7/2012. Bill Hunter.
- Updated 12/5/2016 by BH. Updated budget estimate.

Project Name:	EPA Capacity, Management, Operations, & Maintenance (CMOM) Projects – Sewer I&I
CIP#:	S0001

Asset Register:	LWWSD → Sew	LWWSD → Sewer → Collection System			
Failure Mode:	Capacity	Level of Service Mortality <u>Efficiency</u>			
Business Risk Exposure:	15	= 3 x 5 x 1 (PoF x CoF x Redundancy)			
Remaining Life:		Consumed Life:		ctive fe:	

PURPOSE and DESCRIPTION OF THE PROJECT

Combines several separate District projects into one annual project. The goal is to find and repair inflow and infiltration (I&I) sources. District crews camera sewer mains during wet season months searching for I&I.

The annual project scope and focus will vary based on the type of high priority items discovered during the previous wet season. Types of work include: sewer main slip lining (spot repairs and full lengths), pressure grouting service tees, pressure grouting manhole leaks/voids, rebuild/seal manholes, smoke testing, and other efforts to reduce I&I.

Engineering (Plans, Specs & Est.):

District Staff

Bid & Contract Administration:

District Staff

Construction:

\$164,800 (annual target)

Annual Budget:

2017 Reduced to \$25,000 to allocate more \$ for other major sewer

projects (Geneva and Lakewood Pump stations)

2018 and beyond = \$164,000

Cost estimate in 2017 dollars.

For further information about this project call Bill Hunter.

- 10/26/2011. Combined separate I&I related projects into one annual project budget. Bill Hunter. Footnote: October 2011 Pro-Vac Estimate (Hank) for Smoke Testing: \$0.65/LF and can test approximately 10,000 LF per day.
- 11/18/2013. Minor budget updates. Bill Hunter.
- 12/6/2016. Updated budget for year 2017. BH.

Project Name:	Replace Tool Trucks
CIP#:	V0001

Asset Register:	LWWSD → General → Vehicles and Equipment → Tool Truck					
Failure Mode:	Capacity	y <u>Level of Service</u> <u>Mortality</u> Efficiency				ficiency
Business Risk Exposure:	N/A	= _ x _ x _ (PoF x CoF x Redundancy)				
Remaining Life:	N/A	Consumed Life:	N/A		ctive fe:	N/A

PURPOSE and DESCRIPTION OF THE PROJECT

Project includes replacing a Tool Truck approximately every 3 years. There are 6 Tool trucks currently in the fleet.

The District has targeted a 15 to 18 year replacement schedule. The trucks are well maintained and should last their targeted service life. The replacement cycle assumes trucks may need to have a few major repairs but the overall cost is less than purchasing trucks on a more frequent schedule.

Existing tool trucks average 12,000 – 15,000 miles per year. After 15-years of service a truck would have 180,000 to 225,000 miles.

Budget Estimate: \$65,000 (2017 dollars)

Revision History

• Updated 12/5/2016 by BH. Updated description and budget estimate based on current state bid prices.

Project Name:	Replace Administrative Staff Vehicle
CIP#:	V0002

Asset Register:	LWWSD → General → Vehicles and Equipment → Staff Vehicle				
Failure Mode:	Capacity	Level of Service Mortality Efficiency			
Business Risk Exposure:	N/A	= _x _x _ (PoF x CoF x Redundancy)			
Remaining Life:	N/A	Consumed Life:	N/A	Effective Life:	N/A

PURPOSE and DESCRIPTION OF THE PROJECT

Project includes replacement of Administrative Staff passenger vehicles

As of 12/6/2016 there are 3 administrative staff vehicles. The target service life is 12 years. One replacement vehicle every 4 years will meet this target. The oldest vehicle will be taken out of service and auctioned as surplus.

Vehicles in Service	Age	Mileage as of 12/6/2016	Average Annual Mileage
2000 Mazda Protégé 2006 Chevrolet Impala	16 10	60,590 42,685 33.178	3,788 4,268 6,636
2011 Ford Escape	อ	33,170	0,030

Budget Estimate:

\$26,000 (2017 dollars)

- Created 7/19/2006. RM.
- Updated 9/20/2010. Revised cost estimate based on 2010 State Bid price for Ford Escape. Revised replacement frequency. BH.
- Updated 12/6/2016 by BH. Updated description, vehicle list and stats, estimate based on state bid prices for a Ford Escape.

Project Name:	Replace Meter Reading Van
CIP#:	V0003

Asset Register:	LWWSD → General → Vehicles and Equipment → Meter Reading Van					
Failure Mode:	Capacity	Level of Service Mortality Efficiency				ficiency
Business Risk Exposure:	N/A	= _ x _ x _ (PoF x CoF x Redundancy)				
Remaining Life:	N/A	Consumed Life:	N/A		ctive fe:	N/A

PURPOSE and DESCRIPTION OF THE PROJECT

Project includes replacement of the Meter Reading Van. The van is utilized every day and all day by the Utility System Support Specialist to perform field customer service, meter reading, maintenance, and utility locates.

The existing van purchased in June 2006 is starting to exhibit heavy wear and tear along with increased repairs and maintenance requirements. A 10-year target service life appears to be about the sweet spot in terms of getting the best value out of the asset before reliability becomes an issue.

Budget Estimate: \$28,000 (2017 dollars)

For further information about this project call Rich Munson.

- Created 7/19/2006.
- Updated 12/5/2016 by BH. Updated description and budget estimate based on state bid prices.

Project Name:	Water System Rehabilitation and Replacement Projects
CIP#:	W0002

Asset Register:	LWWSD → Wa	ter → Distribution	System			
Failure Mode:	Capacity	Level of Service	ce Mort	ality	Ef	ficiency
Business Risk Exposure:	18	= 9 x :	2 x 1 (PoF x	CoF x F	Redunda	ncy)
Remaining Life:		Consumed Life:				

PURPOSE and DESCRIPTION OF THE PROJECT

Combines several separate District projects into one recurring annual project. The intent is to rehabilitate or replace aging water distribution system mains, service lines, hydrants, and valves.

As infrastructure is assessed and found nearing end of useful life, it will be scheduled for renewal using this annual project budget. The annual project scope and focus will vary based on the type of high priority items discovered during the previous year.

Target Water System Reinvestment (per 2016 rate study)

2017 \$200k 2018 \$210k 2019 \$220k 2020 \$230k 2021 \$240k 2022 \$250k

For 2017, the Water System Rehab and Replacement Projects include:

\$110,000 for Water Meter Radio Read Module Replacement (assumes 667 new units at \$165/each)

\$40,000 for additional water main blow off assemblies, repair and maintenance to existing blow off assemblies, capping and abandoning dead-end water mains without current service connections, maintenance and addition of water main gate valves, and replacement of Lakeway/Scenic booster pumps with pressure reducing valves.

The 2017 Capital Improvement Plan utilizes the balance of the annual target water system reinvestment for specific water system improvement projects that are individually named and described in the 2017 Capital Improvement Plan.

Cost estimates in 2017 dollars.

For further information about this project call Bill Hunter.

- Created 8/2/2006.
- 11/20/2013. Combined separate water related projects into one recurring annual project budget. Bill Hunter.
- Updated 12/5/2016 by BH. Revised target amounts and updated scope for 2017.

Project Name:	Install Ball Check Valves – 2 at Airport, 1 at Beaver
CIP#:	0174

Asset Register:	LWWSD → Sew	er → Pump Stat	ions → Airpo	rt & Beaver	
Failure Mode:	Capacity	Level of Serv	rice Mort	ality <u>E</u>	fficiency
Business Risk Exposure:	12	= 6 >	2 x 1 (PoF x	CoF x Redund	ancy)
Remaining Life:	6 year	Consumed Life:	14 years	Effective Life:	20 years

PURPOSE and DESCRIPTION OF THE PROJECT

Replace 2 existing 4" swing check valves and switches at Airport Sewer Pump Station and 1 10" switch check valve and switch at Beaver Sewer Pump Station.

The switches on the Airport swing check valves are causing nuisance alarms for District crew. The amount of motion the swing check moves is small and sometimes is not enough to trip a switch that verifies pumps are operating causing an alarm.

The swing checks at Beaver sewer pump station require biannual cleaning and maintenance. Crew would like to test a ball check to see if they are nearly maintenance free as in applications on smaller stations.

Budget Estimate:

(2) 4" Ball Check Valves	\$3,000
(1) 10" Ball Check Valve	\$7,000
Total	\$10,000

Cost estimate in 2017 dollars.

For further information about this project call Bill Hunter.

Revision History

Created 12/20/2016 by BH.

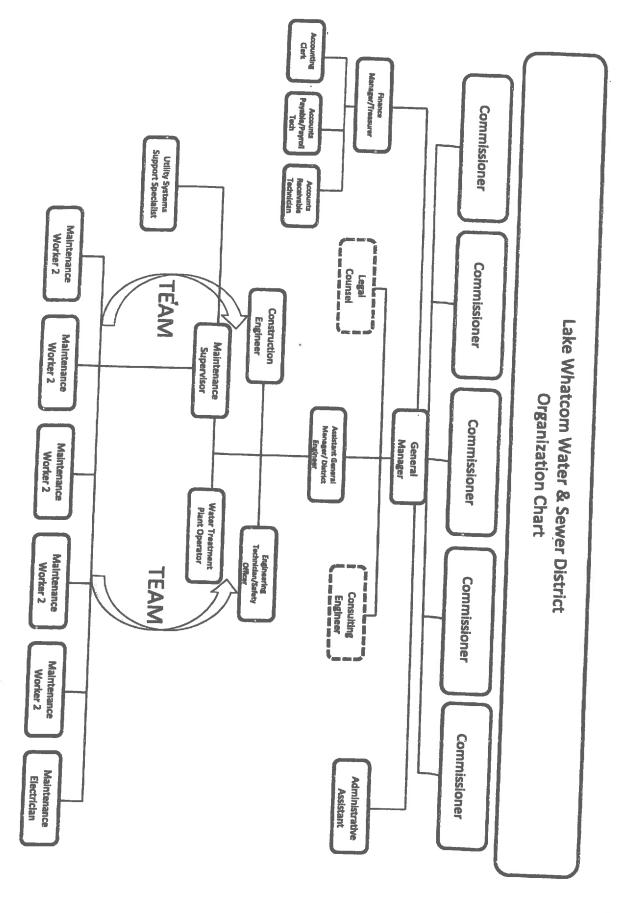
149 600				PROPOSED 2017 YEAR END BALANCE	
440.000				CASHINVESTMENTS BALANCE CARRYOVER	
- 1	(160,000)			EXPENDITURES	
2.500	600.000			REVENUES	WATER CONTINGENCY FUND
	160,000				
	100,000			TOTAL EXPENDITURES	
	6000			Transfer Out to Operating Fund 101	426-597-10-00-26
				Capital Outlay - Water Systems	426-694-38-63-26
				Investment Service Charges	426-535-10-41-26
4,000	000,000				
2 500	600,000	•		TOTAL REVENUES	
1,000	600,000			Transfers In from Operating Fund 401	420-03/-10-00-20
3 200				Investment Interest .5%	426-301-11-00-26
					ADE 261-11 00 28
					WATER CONTINGENCY FUND 426
700,000					
700,700				PROPOSED 2017 YEAR END BALANCE	
200,000	1.20,000	13,550		CASH/INVESTMENTS BALANCE CARRYOVER	
(210,200)	(190.200)	(1.497)	(9,844)	EXPENDITURES	
103.750	5.020	4,345	869		SEMENOS ORM WATER CONTINGENCY FUND
210 200	190.200	1.497	9.844	TOTAL EXPENDITURES	
		1,300		Machinery/Equipment	123-391-36-64
					125 504 20 24
135.000	135,000			Cedar Hills Storm Drain Relocate	
75.000	20.000			North Shore Sampling	
	25,000			SV Sewer Pump Station Emergency Repairs	
	10,000			OVCA CUVERS	
200	200	197	190	investment Service Charges	100 CO 10 TE
	1		9,654	Stormwater Comp Plan (See Active Projects C1315 PH2)	425-535-10-41 425-535-10-41
700,700	3,040	4,040			10F F2F 40 44
100	7 000	27.5.7	200	TOTAL REVENUES	
100,000				The state of the s	
3,750	5,020	4345	2008	Transfers in from Operating Find 401	425-397-10-00-10
			2	Investment Interest 5%	425-361-11-00-25
				INCY FUND: 420	SENERS ORM WATER CONTINGENCY FUND - 423
					SEMEDISTORIUM TED COMPANI
Budget 2017	2016	Actual 2015	Actual 2014 Actual 2015	Description	
	Adopted				

				Adonted	
	Description	Actual 2014	Actual 2014 Actual 2015	2016	Budget 2017
2016 BOND CAPITAL PROJECTS FUND 431					
431-391-20-00 431-391-20-00	Bond proceeds			200 000	
431-392-00-00-00	Bond premium			0,409,492	
	TOTAL REVENUES			923,843	
				7,333,335	
431-391-33-77-31	City of Bellingham Post Point Principal			2	
431-592-35-83-31	City of Bellingham Post Point Interest			2,219,591	
431-592-38-00-00	2016 Bond Issuance Costs			8,570	
431-599-38-00-00	2009 Refunded Bonds			3.803.391	
431-504-38-83-31					
101 007 00 00 01	Capital Outlay - Strawberry Point Pump Station			371,850	156,923
431-897-10-00-36	Transfer Out to Division 22 Reservoir Project Fund 440			828,150	
	TOTAL EXPENDITURES			7 000 000	
				,,000,000	130,023
2010 BOND CAPITAL PROJECTS FUND	REVENUES			7.333.335	
	EXPENDITURES			7.333.335	(156 923)
	CASH/INVESTMENTS BALANCE CARRYOVER				150,0
	PROPOSED 2017 YEAR END BALANCE				-
DWSRF PROJECTS FUND - 440					
440-333-88-48-41					
440-333-66-46-42	Geneva AC Mains	175,649	1,844,943		
	Division 22 Reservoir		44,718	994,850	229,950
440-397-10-40	Transfers In from 2016 Bond Fund 431				
	Transfers In from Operating Fund 401 for Div 22		Anon	020,150	8
	Transfers In from Operating Fund 401 For Geneva AC Mains		80,510		
	TOTAL DESCRIPTION				
	CONTRACTOR	175,649	1,974,756	1,823,000	229,950
440-594-34-62	Division 22 Reservoir	42 048	3	1 000	
440-594-34-63	Geneva AC Mains	175.649	2.279.861	1,023,000	1,000,100
			1		
	TOTAL EXPENDITURES	217,697	2,293,302	1,823,000	1,058,100
DWSRF PROJECTS FUND	REVENUES				
	EXPENDITURES	RPG'C/L	7,974,756	1,823,000	229,950
	CASH/INVESTMENTS BALANCE CARRYOVER	(417,007)	(200,002,2)	(1,623,000)	(1,058,100)
Expenditures offset by draws so projects	PROPOSED 2017 YEAR END BALANCE				- 040,130
Experioralise of set by draws as projects progress.				_	

		PROPOSED 2017 YEAR END BAI ANCE	
(565,435) (538,541)	(512,562)	CASH/INVESTMENTS BALANCE CARRYOVER	
565,437 664,028	512,789	EXPENDITURES	
		REVENUES	DEBT SERVICE FUND
565,435 538,541	512,562	TOTAL LANGE CONTROL CO	
		TOTAL EXPENDITIBES	
192,830	1	2016 Bond Interest Payments	
202 750	212 150	Z009 Bond Interest Payments	450-592-35-83-51
1		2010 Bond Principal Payments	450-592-35-83-50
245 000 250 000	235.000	2009 Bond Principal Payments	450-591-35-72-51
6,930 6,615	8,505		AEO EO1 35 70 EO
	715	Debt Service Interest Loan 064	450-582-34-83-73
	4	Debt Service Interest Loan 119	450-502-04-03-72
		Debt Service Interest Div 22 Reservoir	450-592-34-03-42
47,232 41,624	707'14	Debt Service Interest Geneva AC Mains	4E0 E03 34 63 45
	47 353	Redemption of Long Term Debt Loan 064	450-502-24-92-44
†	9 040	Redemption of Long Term Debt Loan 119	450-591-34-77-73
		Redemption of Long Term Debt Div 22 Reservoir	450-591-34-77-79
		Redemption of Long Term Debt Geneva AC Mains	450-591-34-77-42
200			450-591-34-77-41
A CO		Bond Admin Fee	440-000-10-41-000
565,437 664,028	512,789		450 535 10 44 50
		TOTAL REVENUES	
	447,450	SHAWARD - LA-NIN I Rinneys	
117,185 2	65,339	Transfers in from Operating Fund 401 - available to the form of th	450-397-10-00-50
5,508		Transfers In from Operating Front And Washell	450-397-10-00-70
		2016 Bond Proceeds	450-391-20-00-50
			DEBT SERVICE FUND - 450
Actual 2014 Actual 2015 2016	Actual Z014		
Adopted		Description	

	Description	Actual 2014 Actual 2015	Actual 2015	Adopted 2016	Budget 2017
BOND RESERVE FUND (RESTRICTED) - 460					
460-361-11-00	Investment Interset 5%				
460-397-10-00-60	Transfers In from Operating Fund 401	2,860	9,813	10,000 250,000	3,850
	TOTAL REVENUES	2,860	9,813	260,000	3,850
460-535-10-41	Investment Service Charges	205	197	200	200
BOND RESERVE FUND (RESTRICTED)	TOTAL EXPENDITURES	205	197	200	200
	EXPENDITURES CASIJINVESTMENTS BALANCE CARRYOVER BBODGED 2017 VEAB END DATA ACCT	2,860 (205)	9,813 (197)	260,000 (200)	3,850 (200) 773,200
					776,850

Effective July 11, 2012



PERSONNEL SUMMARY

2017 BUDGET DATA

	2017 BUDGET DA	IA				
POSITION	NO. OF EMPLOYEES	ANNUAL GROSS	ADM	IINISTRATION	C	PERATIONS
General Manager Asst. Manager/Engineer Finance Manager/Treasurer Administrative Assistant	1 1 1	\$ 150,436 128,860 108,370 77,018	\$	150,436 128,860 108,370		
Accounts Receivable Accounts Payable/Payroll Accounting Clerk Commissioners	1 1 0.5	63,365 63,365 22,838 25,000		77,018 63,365 63,365 22,838		
Construction Engineer Engineering Tech/Safety Officer Utility Systems Specialist Water Treatment Plant Operator	1 1 1	93,642 77,018 69,861		25,000	\$	93,642 77,018 69,861
Maintenance Supervisor Maintenance Worker 2 Maintenance Worker 1 Maintenance Electrician	1 4.5 1	80,873 98,317 310,842 51,854				80,873 98,317 310,842 51,854
Overtime Stand-By	1	89,137 40,000 40,000			_	89,137 40,000 40,000
Sub-Totals	18	\$1,590,796	\$	639,252	\$_	951,544
Social Security PERS Unemployment Worker's Comp (L&I) Medical/Dental Benefits		\$ 121,696 196,038 6,175 27,066 299,934	\$	48,903 76,904 2,275 5,046	\$	72,793 119,133 3,900 22,020
Def Comp Match Sick Leave Buy Out Longevity		21,937 4,594		123,274 8,346 2,982		176,660 13,591 1,612
HRA VEBA		1,920 <u>5,400</u>		2,100		1,920 3,300
Sub-Totals		\$ 684,760	\$	269,830	\$	414,929
GRAND TOTALS		\$2,275,556	\$	909,082	\$ 1	1,366,473



AGENDA BILL

DATE SUBMITTED:	December 20, 2	2016		
TO BOARD OF COMMISSIONERS			A	
FROM: Patrick Sorensen	MANAGER A	PPROVAL PROVAL	Ame	
MEETING AGENDA DATE:	December 28, 2	016		
AGENDA ITEM NUMBER:	5.B.			
SUBJECT:	Non-union Staf	f COLA for 2017		
LIST DOCUMENTS PROVIDED ⇒	1.			
NUMBER OF PAGES INCLUDING AGENDA BILL:	2.			
	3.			
TYPE OF ACTION REQUESTED	RESOLUTION	FORMAL ACTION/ MOTION 🛛	INFORMATIONAL/ OTHER □	

BACKGROUND / EXPLANATION OF IMPACT

Traditionally the non-represented employees have received the same annual COLA increase as the represented (union) employees. Non-union employees include the District Engineer/Assistant General Manager, Finance Manager/Treasurer, General Manager, Administrative Assistant and the Maintenance Supervisor. For 2017 the represented employee's COLA will be 2.4%.

FISCAL IMPACT

Based upon the proposed 2.4% COLA increase for the five non-represented employees the cost is \$13,195.36. This amount like the COLA for the represented employees is allowed for in the 2017 Budget.

RECOMMENDED BOARD ACTION

That the five non-represented employees receive the same COLA increase for 2017 as the represented employees will receive, which is 2.4%.

PROPOSED MOTION

To authorize a 2.4% COLA for the five non-represented employees, effective January 1, 2017.



AGENDA BILL

DATE SUBMITTED:	December 19, 2016			
TO BOARD OF COMMISSIONERS				
FROM: Bill Hunter and Staff	MANAGER APPROVAL			
MEETING AGENDA DATE:	December 28, 2016			
AGENDA ITEM NUMBER:	5.C.			
SUBJECT:	Summary of Existing District Projects			
LIST DOCUMENTS PROVIDED	1. December 2016 Summary of Existing District Projects			
□ NUMBER OF PAGES	2.			
INCLUDING AGENDA BILL:	3.			
TYPE OF ACTION REQUESTED	RESOLUTION FORMAL ACTION / INFORMATIONAL / OTHER ☑			

BACKGROUND / EXPLANATION OF IMPACT

Staff presentation of Summary of Existing District Projects and priorities.

FISCAL IMPACT

Not applicable at this time.

RECOMMENDED BOARD ACTION

Review and discuss

PROPOSED MOTION

Not applicable at this time.

LAKE WHATCOM WATER AND SEWER DISTRICT Summary of Existing District Projects

Meeting Date	Effective	Date	Prepar	ed by
December 28, 2016	December 2	0, 2016	LE/	ВН
Status of Water and System Car	pacities			
	South Shore ID# 95910	Eagleridge ID #08118	Agate Heights ID# 52957	Johnson Well ID# 04782
DOH Approved #	3935	85	54	2
Connected ERUs	3807	68	44	2
Remaining Capacity (ERUs)	128	17	10	0
Commitments - Not yet connect	ed			
Permitted ERUs Under Construction	10	0	0	0
Pre-paid Connection Certificates and Expired Permits	11	2	5	0
Water Availabilities (trailing 12 months)	17	0	0	0
Subtotal	38	2	5	0
Available ERUs	90	15	5	0

Hai, T	**Completed Capital Projects in 2016**
C1207	Reservoir Overflow Drains to Daylight
C1402	Geneva Area A/C Mains
C1405	Strawberry Point Sewer Pump Station Improvements
C1412	Facility Improvements
C1502	Sudden Valley Water Treatment Plant Spare Acidification Unit
C1503	SVWTP Clear well Overflow
C1505	Reservoir Seismic Vulnerability Assessment
C1601	General Engineering Services
C1602	Asset Management System Upgrade
C1609	Sudden Valley Sewer Pump Station Emergency Repairs
C1604a	LWB/Airport Isolation Valve
C1604b	Detention Basin Gate Valve Extension
C1608	SVCA Culvert Replacements

	State Required Report Status		
Reporting	Name of Report & Preparer	Completed	When Due
	Chlorination Report Agate Heights (Kevin)	Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	Postmarked by 10 th of month
MONTHLY	Surface Water Treatment Rule Report (SVWTP) (Kevin)	Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	Postmarked by 10 th of month
	Department of Revenue (Debi)	Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	Due end of following month
ANNUALLY	Community Right to Know (Hazardous Materials) (Rich)	January 25, 2016	Due by March 31st
ANTOALLI	WA State Cross Connection Report (Rich)	May 5, 2016	Due Annually May

Reporting	Name of Report & Preparer	Completed	When Due
MONTHLY	Chlorination Report Agate Heights (Kevin)	Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	Postmarked by 10 th of month
	OSHA 300 Log (Rich)	Completed January 27, 2016	Due by Feb 1st

	State Red	quired Report Status	
Reporting	Name of Report & Preparer	Completed	When Due
	Water Use Efficiency Performance Report (Kevin)	June 30,2016	Due by July 1st
ANNUALLY	Consumer Confidence Reports (Kevin)	May 2016	 Geneva- 5/16 Sudden Valley 5/16 Eagleridge – 5/16 Agate Hghts – 5/16
	Hazardous Waste Activity Report (Rich)	February 29, 2016	Due by March 31st
	Report Number of Sewer ERUs to City of Bellingham	Completed 1/15/2016	Due by January 15th
OTHER	CPR/First Aid Training (Rich)	Completed 6/10/2015	Due Biennially Next Due 2017
O THER	Flagging Card Training (Rich)	Completed 8/3/2016	Due Triennially Next Due 2019

SAFETY PROGRAM SUMMARY

Completed by Rich Munson

Summary of Annual Safety Training			
	Enrollments	Completions	% Complete
Engineering - Managers	34	34	100%
Engineering - Staff	19	19	100%
Field Crew	182	182	100%
Field Crew - Managers	26	26	100%
Office Managers	20	11	55%
Office - Staff	48	48	100%

Weekly Crew Safety Meetings

Safety meetings for the field crew take place every Tuesday or Wednesday at 5:00 p.m.

Dates of Safety Committee Meetings		
January 14, 2016	October 13, 2016	
February 11, 2016	November 15, 2016	
March 9, 2016	December 15, 2016	
April 11, 2016		
May 12, 2016		
June 9, 2016		

Summary of Work-Related Injuries & Illn	esses	-6541		ALC:N
Year	2016	2015	2014	2013
Total Number of Work Related Injuries Defined as a work related injury or illness that results in: Death Medical treatment beyond first aid Loss of consciousness Significant injury or illness diagnosed by a licensed health care professional	0	1	1	11

Days away from work (off work)Restricted work or job transfer				
Total Number of Work Related Injuries Defined as a work related injury or illness that results in: Death Medical treatment beyond first aid Loss of consciousness Significant injury or illness diagnosed by a licensed health care professional Days away from work (off work) Restricted work or job transfer	0	1	1	11
Total Number of Days of Job Transfer or Restriction (Light duty or other medical restriction)	0	0	0	5
Total Number of Days Away From Work (At home, in hospital, not at work)	0	0	0	13
Near misses	0			

	Developer Extern	sion Agreements
D1601	Geneva Woods Developer Extension	
SCOPE	Water and sewer improvements for 6 was	ter and sewer connections.
SIGN DATE	***************************************	EXPIRATION DATE 7/27/2019
Prior to Co	ommencing Construction	Prior to Final Acceptance
☐ 2. Rein☐ 3. Copy☐ 4. Pay☐ 5. Copi☐ 6. Copi☐ 7. Pay☐ 8. Payr☐ 9. Pay☐ 10. Pay☐ 11. Dis	rict Engineer approves design nbursement of District Engineer review costs y of insurance policy guarantee deposit ies of recorded easement ies of permits conformance deposit ment and performance bond 25% general facilities fees ys initial facilities inspection deposit trict issue Notice to Proceed w/Construction	District inspects & approves facilities as complete. Record drawings Seasements and title insurance Maintenance Bond Seasements and title insurance Seasements and tit
Tasks/Note	es:	
• 4/14/20 to the	developer. 016 Board approved addition of 6 th lot to D	lots. er developer extension agreement prior to delivering EA. Staff and Legal Counsel preparing DEA
 7/14/2016 Plans received from developer. 7/28/2016 DEA executed and recorded at Auditor's office 7/28/2016 Plans transmitted to Wilson for review and comment. 8/1/2016 Wilson completed fire flow analysis – no issues. About 3030 GPM fire flow available after improvements. 8/16/2016 District received revised plans from developer. 8/17/2016 Wilson reviews plans and requests copy of proposed easements for review. 		
8/22/209/7/201	016 District returns plan review comments 16 Draft easements are good to record. Re	and easement comments to developer. eturned originals to developer for recording.

Lake Whatcom Water & Sewer District Capital Improvment Projects Staff Report

C1214 Dead End Blow Offs

Install blow offs at water main dead ends.

01 Administration

11/28/2012	Crews researching and inspecting dead end mains.	Compiling list of dead ends with proposed
	Installation sketches.	

- 1/5/2016 Staff and field crew researched, compiled, and prioritized a list of approximately 32 sites that need modifications. The top 15 sites are scheduled and budgeted to be completed in 2016. Work will be performed by District crews.
- 3/1/2016 Installation of fire hydrant stortz adapters in vicinity of Geneva School complete.
- 8/9/2016 Crews completed work at 2 locations. (Alder Ct. and Arrow Root Pl.)

C1306 LLR Sewer Air-Vac Valve Replacement

Replace iron/steel air-vac valves with nylon valves.

01 Administration

- 4/3/2013 Staff solicited quotes from local suppliers. Ordered and received 9 valves from HD Supply (low quote). There are a total of 14 valves on the force main. Remaining 5 valves will be budgeted and purchased in 2014. Crews will begin installing new valves this spring.
- 10/2/2013 Crews have replaced a couple valves that failed on other forcemains using this inventory.

C1401 Division 22 Reservoir

Add new Division 22 Reservoir. Funded by DWSRF Loan. Loan Amount = \$994,850 at 1.5% for 20 years + 4 years for construction.

predesign report to at 1st Board meeting in November.

scheduled to make a presentation to the Board at the 3/25/2015 meeting.

04 Predesign and Permitting

geotechnical borings.

10/2/2013	DWSRF loan contract will be executed by State on 10/8/2013. Staff will work with Grey and Osborne to prepare scope of work and fee. Scope/fee will be presented to Board tentatively at 11/13/2013 meeting for review/approval.
11/6/2013	Loan contract is executed. Execution date was 10/9/2013.
1/29/2014	Board approved scope of work and fee for Predesign work.
2/4/2014	Staff and G&O compiling AE agreement and exhibits for execution.
3/6/2014	Signed AE agreements received from consultant. District attorney doing final review. Agreements will then be executed by Patrick.
4/1/2014	G&O and staff had project kick-off meeting. G&O compiling list of information/data to begin predesign work. Topo survey will begin in a couple weeks.
5/7/2014	Consultant has performed topographic/boundary survey. Staff compiling water system data needed for consultants predesign work.
8/5/2014	G&O working on reservoir sizing after receiving water system data/info from staff. DOH cultural review in progress.
8/23/2014	Published Notice to the Public of Intent to Request Release of Funds in Bellingham Herald. This is

required as part of the cultural review process. Have to wait 30 days before beginning test pits or

Predesign progress meeting with G&O and District staff. Staff reviewed first 3 chapters of predesign report. G&O will update few minor items and continue final predesign tasks. Set goal to present

Staff provided G&O remaining data and info in February to complete the predesign report. G&O is

9/23/2014

3/3/2015

	3/25/2015	G&O presented predesign report to board. There was overall concensus with the plan. Staff and G&O will proceed with permitting and coordination with SCVA.
	4/30/2015	District submitted pre-application meeting packet to Whatcom County. Pre-App meeting scheduled for 11am on 5/21/2015.
	5/21/2015	Pre-Application Meeting at Whatcom County - 11am. District and G&O attended. Reviewed permitting requirements with County staff.
	6/1/2015	Received County's Pre-Application Meeting Findings. Staff and G&O working on Conditional Use Permit application. Staff will coordinate with County for onsite critical areas review (look for wetlands).
	7/1/2015	Received comments from DOH on project report. G&O and staff will respond to comments. G&O and staff are working on the conditional use permit application.
	7/29/2015	Conditional Use Permit and Variance Permit applications submitted to Whatcom County.
	8/4/2015	Staff working with G&O on scope of work for next project phase - detailed design, plans, specs, estimates, and bidding.
	9/2/2015	Whatcom County is processing Condition Use and Variance Permit application.
	9/2/2015	G&O working to address DOH project report comments.
	10/8/2015	County still processing CUP and Variance permits. G&O is working with State DOH to address minor comments on pre-design report.
	12/9/2015	Hearing for CUP and Variance at 130pm in County Counicl Chambers.
		A Memorandum in Support of CUP and Variance Applications and a Declaration by G&O were submitted to the Whatcom County Hearing Examiner. The documents were prepared by Bob Carmichael with assistance from G&O and District staff.
07		ru Bidding
	9/30/2015	2nd Advertisement for Bids published in Bellingham Herald and Seattle DJC
	11/3/2015	G&O working on updated construction cost estimates and steel vs concrete technical memorandum.
	11/24/2015	Technical memo review at Board meeting. Verified steel reservoir as originall decided in the pre-design report is still the preferred alternative.
	12/2/2015	G&O working on detailed design and plans.
	1/5/2016	G&O continues development of detailed plans and specs.
	2/5/2016	50% plan review with G&O and District staff/crew.
	2/25/2016	G&O submitted revised pre-design report with updated ERU tables and responses to DOH review comments. G&O working on detailed plans and specs.
	3/29/2016	90% plan and spec review done. Plans submitted to DOH for review. G&O working on final documents.
	3/31/2016	Conference call with DOH indicates pre-design report for requested capacity will be approved. DOH is working on approval letter.
	4/6/2016	G&O working on final documents. Pending completion of Commerce Dept and DOH reviews, bid advertisement dates will be set.
	5/5/2016	1st Advertisement for Bids published in Bellingham Herald and Seattle DJC
	5/12/2016	Advertisement for Bids published in Bellingham Herald and Seattle DJC
	5/18/2016	Pre-bid meeting 10am
	6/2/2016	Bid Opening 11am
	6/2/2016 6/8/2016	
10		Bid Opening 11am Tentative Contract Award at Board Meeting
10	6/8/2016	Bid Opening 11am Tentative Contract Award at Board Meeting
10	6/8/2016 Construct	Bid Opening 11am Tentative Contract Award at Board Meeting ion Contractor has begun construction work. Trees have been cut. Timber will be delivered to Sudden
10	6/8/2016 Construct 8/8/2016 9/8/2016	Bid Opening 11am Tentative Contract Award at Board Meeting tion Contractor has begun construction work. Trees have been cut. Timber will be delivered to Sudden Valley. Contractor will remove stumps this week. Contractor has excavated down to footing subgrade. Geotechnical engineer reviewed site
10	6/8/2016 Construct 8/8/2016 9/8/2016 10/17/2016	Bid Opening 11am Tentative Contract Award at Board Meeting ion Contractor has begun construction work. Trees have been cut. Timber will be delivered to Sudden Valley. Contractor will remove stumps this week. Contractor has excavated down to footing subgrade. Geotechnical engineer reviewed site conditions. Contractor working on ring-wall footings.
10	6/8/2016 Construct 8/8/2016 9/8/2016 10/17/2016 11/21/2016	Bid Opening 11am Tentative Contract Award at Board Meeting tion Contractor has begun construction work. Trees have been cut. Timber will be delivered to Sudden Valley. Contractor will remove stumps this week. Contractor has excavated down to footing subgrade. Geotechnical engineer reviewed site conditions. Contractor working on ring-wall footings. Concrete ring wall and asphalt floor pad complete. Contractor beginning to layout steel floor panels.

Replace rotophase with VFD.

01 Administration

Staff obtaining quotes for VFD's from vendor. District electrician reviewing electrical panel space requirements and proposed VFD dimensions.

1/22/2015 VFD's received by District. District crew will install in pump station.

C1504 Reservoir Site Security

Install site security system as 1 reservoir site. Pilot project to evaluate equipment, configuration, and telemetry options.

01 Administration

5/4/2015 District staff have done initial research on available security camera systems and motion detection. List of equipment and options is in development. Initial pilot site will be the SVWTP.

12/21/2016 Staff ordered equipment. Should arrive soon. Equipment will be installed at SVWTP. Motion detection from camera system will be integrated into SCADA system for alarm monitoring by District crews.

C1506B 2015 Sewer System Rehab

Recurring annual project that aims to rehabilitate or replace aging sewer system mains and manholes, and search for inflow and infiltration. Work includes smoke testing, manhole and main repairs. C1506B = Whatcom Falls Manhole.

4/18/2016 Plans have been accepted by City and are in review.

01 Administration

3/19/2015	Staff, Wilson, and City of Bellingham met onsite to review project objectives. The manhole located near the entrace of Whatcom Fall park is severelly corroded by H2S from the District LLRI outfall. The manole is made of brick and need to be replaced.	
3/26/2015	District executes task order with Wilson to assist with developing detailed plans and notes for the manhole replacement. District staff will advertise, and contract the work, as well as perform contract administration. Wilson will provide technical assistance/submittal review as needed.	
3/31/2015	Staff working on a solution to get old-Flat Car sewer pump station going. Flow must be diverted from the LLRI in order to install the new manhole at Whatcom Falls park later this summer.	
4/1/2015	Wilson proceeding with topo and manhole structure survey and design.	
5/4/2015	District staff, Wilson, and City have been coordinating for replacement of Whatcom Falls Park manhole replacement.	
8/4/2015	Wilson finalizing plans, details, and notes for submittal to City of Bellingham for review and approval.	
9/2/2015	Bellingham is requiring formal project submittal for review. Staff and Wilson are preparing application and documents for submittal to City. Project will not be ready for construction this year.	
1/5/2016	District staff working with City operations Department to review manhole rehabilitation plans and specs.	
4/6/2016	Wilson is refining design to accomodate temporary bypass pumping that will be needed during construction.	

10 Construction

8/9/2016	Contractor is building pre-cast manhole. Submittals are in progress. Work tentativley to begin later half of August.
9/8/2016	New manhole has been installed. New District forcemain alignment has been installed. Contractor working on backfilling excavation and site restoration.
10/6/2016	Punch list inspection with City, District, and Contractor. Two minor items noted: Contractor needs to redo the asphalt patch and regrade around manhole rim to accommodate City mowers.
11/21/2016	Last two punch list items are schedule for week of November 28.

12/21/2016 District received notice from City that all punch list items have been completed to their satisfaction.

C1603 Marina-Tomb Stationary Generator

Install stationary emergency backup generator to serve both Marina and Tomb sewer pump stations.

01 Administration

4/5/2016	Issued purchase order to RH2 to assist District with sizing and selecting stationary generator from GSA. Scope also includes PLC programming to incorporation generator alarms.
4/6/2016	Staff coordinating with SVCA on site requirements, landscaping, screening, etc.
4/12/2016	District staff met onsite with SVCA staff to coordinate location, siting, and screening of stationary generator.
4/28/2016	RH2 finished sizing generator. Recommended generator size is 100kw. District staff is selecting generator, components, and options for purchase through GSA.
6/2/2016	Staff finalizing generator options and quote with GSA vendor.
8/4/2016	Generator and transfer switch ordered. Scheduled arrive in about 2 months.
10/10/2016	Generator delivered to site.
10/18/2016	Staff obtained permit from County for concrete slab. Crews installed transfer switch on electrical rack. Crews preparing to start on excavation and concrete forms.
11/21/2016	Underground electrical work done, auto-transfer switch installed, concrete slab has been poured and is curing. District crews plan to set generator on slab week of November 28.
12/21/2016	Generator has been installed on slab. Site work has been stabilized for winter. District crews working on completing electrical wiring and startup of generator.

C1605 Water System Plan Update

Update District's Water System Plan. Current edition expires 3-15-2017.

01 Administration

Wednesday, December 21,2016

5/3/2016	State DOH would like to meet with the District and consultant to coordinate the water system plan update prior to beginning work. The intent is to coordinate the scope of work for the plan update.
8/16/2016	Meeting with Wilson and DOH to coordination scope of work. Wilson developing scope and fee for task order.
9/8/2016	Wilson developed scope of work after coordination with District staff and DOH. Scope/fee will be present at next board meeting for approval.
9/20/2016	Task Order with Wilson Engineering executed. Wilson will start work soon.

C1606 Replace SCADA Workstation Hardware

Replace computer hardware the runs SCADA system at shop and SVWTP.

01 Administration

2/4/2016	Hardware has been ordered and received. hardware.	Staff working on configuration and setup of new

2/29/2016 Integration of the 1st of 4 replacement computers is done. Staff is in process of integrating other machines.

C1607 Northshore Water Quality Sampling

Water quality sampling plan to evaluate impact of existing onsite sewage disposal system at the end of Northshore road.

01 Administration

1	Administration		
	3/30/2016	Request for Proposals advertised in Seattle Daily Journal of Commerce	
	4/28/2016	Request for Proposal advertised in Seattle Daily Journal of Commerce	
	5/1/2016	Request for Proposals advertised in Bellingham Herald	
	5/24/2016	Proposals due 4pm. Received one proposal.	
	7/27/2016	Agreement with consultant has been executed.	
	9/8/2016	Staff received preliminary draft plan from consultant and will share with board	
	10/3/2016	Workshop with County and City to review draft sampling plan.	
	10/19/2016	Consultant working on sampling plan revisions based on workshop comments with City and County.	
	11/21/2016	Consultant will start sampling during next good rain event.	

C1610 Little Strawberry Water Leak on Bridge

Water main has small leak. Leak is in a section of main that is mounted to a bridge on Little Strawberry.

01 Administration

4/6/2016 Staff evaluating alternatives to get within reach of pipe to find and repair leak.

C1611 Country Club Sewer Pump Station

Rehabilitation of Country Club Sewer Pump Station.

01 Administration

4/6/2016	Selection of consultant is in conjuction with general engineering services F	₹FQ

8/9/2016 Staff working with BHC to develop scope of work

9/8/2016 AE agreement finalized and being routed for execution. Scope/fee was approved by board on 8/31/2016. Work to begin as soon as agreement is executed.

11/2/2016 District attended Center Condo Owner's Association board meeting to present and coordinate the project. Association gave District needed letter of authorization to pursue Whatcom County permits for construction - of either option (pump station or direction drill).

12/21/2016 AE Agreement Amendment being routed for execution that includes scope for geotech test borings to determine directional drilling feasibility. BHC and GeoEngineers are scheduling work and preparing permit applications.

02 Predesign

10/11/2016 Held predesign meeting with BHC and District staff. BHC beginning preliminary design.

11/21/2016 Staff and BHC working on scope amendment to investigate horizontal direction drilling as the primary option. This option has the potential to eliminate the need for the pump station.

03 Permitting

10/20/2016 Pre-Application meeting with Whatcom County to review anticipated permitting requirements.

11/7/2016 District and GeoEngineers met wet Whatcom County Critical Areas Biologist to review potential critical areas.

C1612 Cedar Hills Water Main Relocate

Relocate water main for Whatcom County. County is installing stormwater treatment systems to remove phosphorus.

01 Administration

4/6/2016 Staff coordinating with County and Wilson to relocate water main to accomodate stormwater treatment system.

5/3/2016 District working with County to execute an interlocal agreement to establish cost sharing terms. Agreement will be similar to recent Cable Street reconstruction project.

Wednesday, December 21,2016

5/25/2016 Board authorizes interlocal agreement with County and fund project using the storm/sewer contigency fund.

6/2/2016 Staff coordinating with County and Wilson as needed.

10 Construction

8/9/2016 Water utility relocated are done. County contractor is now working on the storm water filter systems.

9/8/2016 Contractor still working on stormwater facilities.

11/21/2016 County's construction appears complete. District waiting for invoice from County.

C1613 Northshore Water System Consolidation

DOH water system consolidation feasibility grant to explore opportunity to consolidate small water systems.

01 Administration

4/6/2016 District received notice that grant funding was approved for the feasibility study. Staff coordinating with DOH for grant contracts.

8/9/2016 Staff working with Wilson on a task order scope of work.

9/8/2016 Task order scope/fee approved by board on 8/31/2016. Once task order has been executed, Wilson will begin work.

10/19/2016 Wilson working on study.

12/15/2016 Staff met with Wilson to review conceptual designs, options, and costs. Staff gave Wilson feedback for them to continue with the feasibility study.

Number of Projects 14



AGENDA BILL

DATE SUBMITTED:	December 19, 2016			
TO BOARD OF COMMISSIONERS	O11			
FROM: Bill Hunter	MANAGER APPROVAL Took How			
MEETING AGENDA DATE:	December 28, 2016			
AGENDA ITEM NUMBER:	5.D.			
SUBJECT:	Capital Improvement Project List			
LIST DOCUMENTS PROVIDED ⇒	Capital Improvement Project List			
NUMBER OF PAGES INCLUDING AGENDA BILL:	2.			
	3.			
TYPE OF ACTION REQUESTED	RESOLUTION FORMAL ACTION / INFORMATIONAL / OTHER ⊠			

BACKGROUND / EXPLANATION OF IMPACT

At the December 14, 2016 meeting, the Board asked for more information regarding future and unfunded capital improvement projects that are beyond the 6-year Capital Improvement Plan (CIP) presented in the 2017 budget.

Attached is a Capital Improvement Project List. They are unscheduled projects, meaning the projects have not been assigned a target year for construction or a specific funding source. The District funds most projects by rate revenue at approximately \$1.1 million per year. Larger project funding has historically been through low-interest state loans, revenue bonds, grants, and utility local improvement districts.

Note the "Business Risk Exposure" column on the right. The District is utilizing this asset management concept to compare the relative importance of a project to all other District projects. It is a scale from 100 (having the most risk) to 1 (having the least risk).

Staff utilizes this list several different ways:

- 1. Each year during budget preparation, all projects are discussed with engineering, maintenance and operations staff to assess project importance and priority relative to all other projects.
- 2. During water and sewer comprehensive plan updates, larger projects are scheduled and included these plans.

FISCAL IMPACT

None.

RECOMMENDED BOARD ACTION

None.

PROPOSED MOTION

None.



Capital Improvement Project List Unscheduled Projects

CIP#	Project Name	Cost Est in	Year \$	Business Risk Exposure
Both V	Vater and Sewer			
0169	Centimeter-Grade GPS Receiver	\$15,000.00	in 2015	1
0167	Front Loader with Forks to Replace Old Backhoe	\$100,000.00	in 2016	1
0134	Kubota Jack Hammer Attachment (need to get quote)	\$10,000.00	in 2016	1
0168	Genie Lift T250 - Trailer Mounted	\$30,000.00	in 2015	1
0143	Public Art at Cable Street (need to develop scope/fee and see if Board is interested)	\$10,000.00	in 2016	1
0142	Upgrade Shop Security Cameras and Coverage	\$15,000.00	in 2016	1
0100	Car-Port Along Fence to Cover District Vehicles/Equipment	\$250,000.00	in 2012	1
	Subto	al \$430,000.00	_	
Sewer	System			
0124	Rehabilitate Old Flat Car Sewer Pump Station - Construction	\$75,000.00	in 2015	42
0151	Pigging - Lake Whatcom Boulevard Interceptor	\$50,000.00	in 2016	21
0152	Pigging - Lake Louise Road Interceptor	\$40,000.00	in 2016	21
0153	Pigging - Cable Street Force Main	\$35,000.00	in 2016	21
0171	Sudden Valley Sewer Pump Station - Recondition Electrical Controls	\$150,000.00	in 0	18
0154	Pigging - Plum Basin Gravity Outlet at Lake Whatcom Boulevard Interceptor	\$20,000.00	in 2016	18
0172	Flat Car Sewer Pump Station - Recondition Electrical Controls	\$150,000.00	in 0	16
0173	Beaver Sewer Pump Station- Recondition Electrical Controls	\$150,000.00	in 0	16
0160	Sudden Valley Sewer Pump Station - Recondition Drywell Pumps and Motors	\$20,000.00	in 2016	14
0170	Telemtry-SCADA Reconfiguration between Beaver and Flat Car	\$25,000.00	in 2015	14
0162	Lowe Sewer Pump Station - Retrofit Overhead Power to Underground Power	\$50,000.00	in 2016	12
0156	Austin Sewer Pump Station - Install Ball Check Valves and Flow Meter	\$15,000.00	in 2016	12
0155	Lake Whatcom Boulevard - Replace ~200LF at Gravity Outlet	\$50,000.00	in 2016	9
0158	Airport Sewer Pump Station - Stationary Generator	\$40,000.00	in 2016	9
0159	Airport Sewer Pump Station - Increase Pump Capacity (higher head pumps)	\$30,000.00	in 2016	4
	Subtot	00.000,000\$ le		
Water :	System			
0146	1971 Division 22 0.5MG Reservoir Seismic Retrofit - Priority 3	\$367,000.00	in 2016	70
0144	1992 SVWTP 0.235MG Chlorine Contact Tank Seismic Retrofit - Priority 2	\$156,000.00	in 2016	70
0145	1971 Division 7 1.0MG Reservoir Seismic Retrofit - Priority 1	\$721,000.00	in 2016	70
0147	1973 Division 30 0.15MG Reservoir Seismic Retrofit - Priority 4	\$541,000.00	in 2016	60
0148	1979 Geneva 0.5MG Reservoir Seismic Retrofit - Priority 5	\$505,000.00	in 2016	50
0084	Agate Heights Treatment Plant Additional Capacity	\$485,000.00	in 2013	40
0164	1010 Lakeview Street - Demo Old Concrete Reservoir	\$100,000.00	in 2016	30
0110	Security - Intrusion Alarms at Reserviors, Cameras as SVWTP AHWTP	\$10,000.00	in 2015	18
0083	SVWTP - Transfer and Transmission Pump VFD's	\$425,000.00	in 2009	15
0115	Division 7 and Geneva Reservoir Coating and Structural Repairs (Place-Holder. Need to develop cost est.)	\$500,000.00	in 2015	12

CIP#	Project Name	Cost Est in Y	ear \$	Business Risk Exposure
0166	SVWTP - Convert from Chlorine Gas to Liquid	\$100,000.00	in 2016	1
0165	SVWTP - Spare Transfer Pump	\$10,000.00	in 2016	1
0136	Guillotine Pipe Saw for Ductile Iron (need to get quote)	\$10,000.00	in 2016	1
0135	Automatic Valve Excerciser (need to get quote)	\$25,000.00	in 2016	1
		Subtotal \$3,955,000.00	_	



AGENDA BILL

DATE SUBMITTED:	December 19, 2016		
TO BOARD OF COMMISSIONERS	O_{II}		
FROM: Patrick Sorensen	MANAGER APPROVAL Cost. Acu		
MEETING AGENDA DATE:	December 28, 2016		
AGENDA ITEM NUMBER:	7.0		
SUBJECT:	Manager's Report		
LIST DOCUMENTS PROVIDED ⇒	1. Manager's Report		
NUMBER OF PAGES INCLUDING AGENDA BILL:	2.		
	3.		
TYPE OF ACTION REQUESTED	RESOLUTION FORMAL ACTION INFORMATIONAL MOTION □ OTHER □		

BACKGROUND / EXPLANATION OF IMPACT

Updated information from the General Manager in advance of the Board meeting.

FISCAL IMPACT

None

RECOMMENDED BOARD ACTION

None required.

PROPOSED MOTION

None

General Manager Comments

December 28, 2016

Board Meeting

8:00 a.m.

Important Upcoming Dates:

- Meetings Associated with the Lake Whatcom Management Program:
 - Policy Group Meeting: The next meeting will be held in February 2017. The date and location has not been officially set, though I expect it to be in the same location and at the same time.
 - Management Meeting: A meeting between the Mayor, County Executive and the General Manager is scheduled for January 19, 2017 at 1:30 p.m. in City Hall. The topic will be to reconcile city, county, and district budgets as they relate to our responsibilities for Lake Whatcom. We will also be addressing the potential for City and County participation in the District's North Shore water testing project.
- Next Regular Board Meeting: The next regular meeting will be held on Wednesday, January 11, 2017 at 6:30 p.m.
- <u>Employee Staff Meeting</u>: The next staff meeting is set for **Thursday**, **January 12**, **2017 at 8:00 a.m.** in the Board Room. Commissioner Carter is scheduled to attend this meeting.
- Employee Safety Committee Meeting: The next meeting is set for January 12, 2017 at 9:00 a.m. in the small conference room.
- Washington Association of Sewer & Water Districts (WASWD) Section III Meeting: The next Section III meeting will be held at Bob's Burger & Brew in Tulalip off I-5 at 6:15 p.m. on January 10, 2017.
- Whatcom Water District's Caucus Meeting: The next Caucus meeting is set for January 18, 2017 at 1:00 p.m. in the Board Room.

Other:

- Committee Meeting Reports as Needed: This is a place holder for Board and staff members to report on recent committee meetings, such as the Lake Whatcom Policy Group, since the last Board Meeting.
- 2017 Commissioners Workshop: The Washington Association of Sewer & Water District's 2017 Commissioner's Workshop is scheduled for Saturday February 4, 2017 in Lynwood at the Embassy Suites. This is an all-day activity. A copy of the announcement is attached along with a link to the agenda and topics. Please let either Lyn or I know if you are interested in attending.