



CITY OF EDGEWOOD COUNCIL STUDY SESSION AGENDA

December 4, 2018 – 7:00 PM ♦ City Hall – 2224 104th Avenue East ♦ Edgewood, WA

1. CALL TO ORDER

Pledge of Allegiance & Roll Call

2. COUNCIL BUSINESS

- A.  **Interview** - Parks and Recreation Advisory Board (PRAB)
- B. **Discussion**(*no material*) - Connect over Coffee
- C.  **Review/Discussion** - 3rd Quarter Financial Statements
- D.  **Review/Discussion** - 2019 Final Budget Ordinance
- E.  **Review/Discussion** - Final Stormwater Management Plan (SWMP)
- F.  **Review/Discussion** - Establishing Monetary Penalties for Violations of Speed Limits
- G.  **Review/Discussion** - Affirmation of Open Space Classification

3. OTHER COUNCIL ITEMS

4. ADJOURN

Study Sessions are meetings for Council to review upcoming and pertinent business of the City, no action is taken by the City Council. Study Sessions are open to the public, but public input is reserved for the regular Council meetings

This meeting is accessible to persons with disabilities. For individuals who may require special accommodations, please contact City Hall at (253) 952.3299, 24 hours in advance.



City Of Edgewood Council Agenda Summary Sheet

SUBJECT: Interview for Parks and Recreation Advisory Board to fill vacant position		Agenda Item #:		2A
		For Agenda of:		December 4, 2018
		Department:		Public Works
		Prepared by:		Jeremy Metzler
ATTACHMENTS (list): ☒ Current PRAB Membership Roster				
Review of Materials:				
Mayor, Daryl Eiding	☒	Expenditure Required:	<u> \$0 </u>	
Asst. City Administrator, Dave Gray	☒	Amount Budgeted:	<u> \$0 </u>	
City Attorney, Carol Morris	☒	Appropriation Required:	<u> \$0 </u>	
City Clerk, Rachel Pitzel	☒	Timeline: N/A		
Community Development Director, Darren Groth	☒			
Public Works, Jeremy Metzler	☒			
Fiscal Note/Consideration: N/A				
SUMMARY STATEMENT:				
In accordance with Section 2.31.020 of the Edgewood Municipal Code (EMC), appointment to the Parks and Recreation Advisory Board (aka PRAB) shall follow the City Council Rules of Procedures, which require applications and interviews for each applicant. The City Council shall interview candidates in a panel format, with all candidates participating in the interview session concurrently. The Mayor shall call on each Council Member to ask questions. Upon completing the interviews, each Council Member will announce their candidate rankings and the City Clerk shall tally the rankings. The rankings shall be provided to the Council and shall be used by the Mayor for consideration in the appointment process. At the Mayor's discretion, the appointment process may take place at a regularly scheduled Council meeting or a special Council meeting following the interview session. The Mayor shall appoint or reappoint and the Council shall confirm or deny the appointments proposed by the Mayor. At this time, we have received one new applicant for the one currently vacant position.				
COUNCIL COMMITTEE REVIEW AND RECOMMENDATION: N/A				
RECOMMENDED ACTION: Receive a briefing, hold a discussion, conduct interview, and make a recommendation to the Mayor regarding the candidate seeking appointment to PRAB position 3.				
ALTERNATIVES TO RECOMMENDED ACTION: Forward to future study session for further discussion.				



CITY OF EDGEWOOD
PARKS AND RECREATION ADVISORY BOARD
CURRENT ROSTER

Revised Sept. 2018

Brian Levenhagen, Chair

Chair Term ends 9/30/2019

Position 1 – *Term ending September 30, 2019*

Diane Kerlin

Position 2 – *Term ending September 30, 2019*

Vacant

Position 3 – *Term ending September 30, 2019*

Caitlyn Remington

Position 4 – *Term ending September 30, 2020*

Jeff Southard

Vice Chair – Term ending September 30, 2019

Position 5 – *Term ending September 30, 2020*

Linda Howard

Position 6 – *Term ending September 30, 2020*

Anne Percival

Position 7 – *Term ending September 30, 2020*



City Of Edgewood Council Agenda Summary Sheet

SUBJECT: Third Quarter (Q3) Interim Financial Position Reports	Agenda Item #:	2C	
	For Agenda of:	December 4, 2018	
	Prepared by:	Stephanie Goff & Dave Gray	
ATTACHMENTS (list): ☒ Q3 Position Statement ☒ Q3 Revenue & Expenditure Line Item Detail Reports (Budget to Actual)			
Approval of Materials:			
Mayor, Daryl Eidinger	☒	Expenditure Required:	N/A
Asst. City Administrator, Dave Gray	☒	Amount Budgeted:	N/A
City Attorney, Carol Morris	☒	Appropriation Required:	N/A
City Clerk, Rachel Pitzel	☒	Timeline: Study Session Review 12/04/18 Regular Council Mtg. authorizing to release 12/11/18	
Community Development Director, Darren Groth	☒		
Public Works, Jeremy Metzler	☒		
Police Chief, Micah Lundborg	☒		
Fiscal Note/Consideration: The activity covered in this staff report is financial reporting disclosure. It requires nor authorizes spending or any change to the budget or appropriations authorized by Council for fiscal year 2018.			
SUMMARY STATEMENT: Quarterly Reporting: - Council has chosen to receive formalized financial position statements quarterly throughout the fiscal year. The Mayor will advise Council of any interim financial concern if/when they occur. Council and the Public have full access to any interim financial data including the City's month end closing documents, as well as any ongoing financial documents such as invoices paid or receipts received, all of which are public records and available by contacting staff. The goal is to provide total access of all financial documentation and tracking information at any point on any day, while streamlining the information into a formalized standardized quarterly update that gives Council and the Public a succinct picture of the City's financial health. - Quarterly financial disclosure documents will be posted to the City website, after review by Council in a Study session and Council's authorization to distribute to the public in a Regular Council Meeting. This ensures interim financial data released to the public has been vetted by Council, and that Council has the information necessary to communicate effectively with members of the community about the City's financial health. - The Mayor and/or the Council have the ability to modify the presentation format and/or the timing of the release of financial information at any time or on an ad hoc basis.			
RECOMMENDED ACTION: Request the Mayor move the Agenda Bill forward to the Regular Council Meeting Consent Agenda, authorizing the Mayor to release the attached reports to the public on behalf of the Council.			
ALTERNATIVES TO RECOMMENDED ACTION: 1) Do not adopt 2) Forward to Study Session for further review			

CITY OF EDGEWOOD
QUARTERLY FINANCIAL DISCLOSURE TO THE COUNCIL
THIRD QUARTER 2018 REVIEW OF FINANCIAL POSITION

General Statement of Financial Position:

The City has a strong Fund Balance position for all current expense funds for General Government operations, Street and Surface Water operations, Equipment Replacement needs and the ability to fund 2018 Budgeted Operational and Capital needs, including labor driven costs appropriated by Council in Budget Amendment 4 of approximately \$240,644 (should hiring occur timely).

The General Fund cash balance is estimated to be \$4,132,227.67 by year end. The substantive increase over 2017-year end, in large part is due to large inflows of onetime fees. We should be spending down the balance as we produce the staff and consultant work to complete the planning and inspection regulatory activities required of the projects the revenue represents. Swings in that activity have been generating swings in the cash balances that we've not seen in our recent past. Completion of a new cash flow model is on the list for 2nd quarter 2019 to accommodate our ability to forecast more accurately and further out.

While the Lakehaven Water & Sewer District legal action has been frustrating (local government suing local government) it has not had a substantive impact on either legal costs (City Attorney is now an employee) or revenue (estimated Lakehaven Utility Tax revenue is less than eight (8) thousand dollars). Utility Tax Revenue actual to forecast is looking to be slightly higher. It is taking longer to alert all the various companies providing service to Edgewood to the fact the tax has been imposed. Cell phone companies in particular have multiple company names and it's been a challenge to find who to talk to directly about making the remittance. We have, as you directed, been forgiving about our ability to impose penalties while we get the word out. I think once a company makes the first payment, they will be timely going forward.

The Strategic Reserve Fund balance, which can only be expended via Council resolution, is forecast to be \$1,017,073.76 at the end of 2018. The 2019 Budget calls out transferring \$333,333 from the unreserved General Fund to the Strategic Reserve Fund with the new year. I will be bringing forward for your consideration, new bond investment information to reauthorize the purchase of long term government securities to improve the interest return on the fund. Three of the staggered investments you authorized in 2016 mature by year end. Now that rates are beginning to climb and Utility Tax revenue has started backfilling the onetime fee revenue the City was dependent upon in prior years, accruing higher returns on our reserves seem prudent. With Impact Fee and REET revenue continuing to be robust, the potential need to reach into the reserve seems less likely.

Capital Expenditure activity continues slower than projected due to increasing operational workloads. The City has completed the City Hall parking lot and is getting close to completion of the catering kitchen in the leased area. We have accepted the proposal for both CivicPlus web page and CivicClerk council chamber software that will make significant improvements in our on-line ability to provide information, streamline the minutes and audio attributes of our public meetings and with your blessing, bring streaming video to the web page. Citizens will be able to watch the meetings from home through our web site live or at a time convenient to them. We hope to get the contracts in front of you before year end.

Debt Service for the City Hall bond is fully funded for 2018 via ongoing 2018 Budgeted revenues and the Sewer LID is overfunded from early payoffs of various parcels. I have not completed the cash flow analysis to determine the appropriate amount for a pay down. It looks to be in the 2 million range. As it's costing us more to carry the debt than we earn on the free cash, I will renew my effort to get that work tasked and bring you the analysis for review and action early in 2019. I hope to hand off the process of feeding the model to staff beginning in 2019, part of the staffing-up goal we've discussed at length. This will see the City able to make multiple pay downs, monthly if warranted, and save even more debt service money.

Impact Fees continue to build as a result of the exponential building boom in the City. The Park Impact Fee balance is forecast to be about \$2,442,073.38 and a Traffic Impact Fee balance of \$3,018,233.09 by year end 2018. Both funds are forecast to continue their robust cash infusion through the 2019 fiscal year.

Dave Gray
Assistant City Administrator

Stephanie Goff
Accounting Manager

Quarterly Reporting:

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- The Mayor and/or the Council have the ability to modify the presentation format and/or the timing of the release of financial information at any time or on an ad hoc basis.

Budget Amendments:

Adjustments to the Budget, which are a normal governmental process, happen through a formalized Budget Amendment presented to Council by the Mayor, specifically amending budget line items, requiring approval of a Budget Amendment Ordinance by the City Council.

City of Edgewood

3RD QUARTER FINANCIAL POSITION BUDGET TO ACTUAL

Negative variance = more revenue than forecast (good).

Account Number	Description	Budget 2017	Actual 2017	Budget 2018	Actual 2018	Variance \$	Variance %
001-000-000-308-80-00-01	Beginning Unreserved Fund Balance	\$1,435,000.00	\$1,363,469.00	\$0.00	\$0.00	\$0.00	0%
	001-000-000-30 Total	\$1,435,000.00	\$1,363,469.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-311-10-00-01	Property Tax	\$1,577,690.00	\$1,577,736.84	\$1,685,619.00	\$941,127.87	\$744,491.13	44%
001-000-000-311-30-00-01	Sale of Tax Title Property	\$0.00	\$3,082.39	\$0.00	\$0.00	\$0.00	0%
001-000-000-313-11-00-01	Sales & Use Tax	\$875,000.00	\$1,045,838.19	\$993,000.00	\$892,949.93	\$100,050.07	10%
001-000-000-313-17-10-02	Local Parks - Sales/Use Tax	\$85,000.00	\$98,236.12	\$90,177.00	\$81,762.79	\$8,414.21	9%
001-000-000-313-71-00-01	Local Criminal Justice	\$150,000.00	\$171,544.83	\$150,000.00	\$145,708.50	\$4,291.50	3%
001-000-000-316-40-00-01	Utility Tax - Natural Gas	\$0.00	\$0.00	\$0.00	\$13,608.12	(\$13,608.12)	0%
001-000-000-316-40-00-02	Utility Tax - Electricity	\$0.00	\$0.00	\$0.00	\$86,454.72	(\$86,454.72)	0%
001-000-000-316-40-00-03	Utility Tax - Telephone	\$0.00	\$0.00	\$0.00	\$16,569.70	(\$16,569.70)	0%
001-000-000-316-40-00-04	Utility Tax - Cable	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-316-40-00-05	Utility Tax - Garbage	\$0.00	\$0.00	\$0.00	\$16,174.53	(\$16,174.53)	0%
001-000-000-316-40-00-07	Utility Tax - Water	\$0.00	\$0.00	\$0.00	\$16,001.37	(\$16,001.37)	0%
001-000-000-317-20-00-01	Leasehold Excise Tax Revenue	\$0.00	\$95.18	\$0.00	\$211.54	(\$211.54)	0%
001-000-000-317-40-00-01	Timber Excise Tax	\$0.00	\$0.00	\$0.00	\$10.44	(\$10.44)	-100%
	001-000-000-31 Total	\$2,687,690.00	\$2,896,533.55	\$2,918,796.00	\$2,210,579.51	\$708,216.49	24%
001-000-000-321-60-00-04	Conditional Use Permit	\$3,820.00	\$6,330.00	\$6,330.00	\$2,865.00	\$3,465.00	55%
001-000-000-321-60-00-05	Temporary Use Permit	\$2,826.67	\$915.00	\$2,827.00	\$1,085.00	\$1,742.00	62%
001-000-000-321-60-00-06	Sign Permit	\$1,141.96	\$0.00	\$0.00	\$35.10	(\$35.10)	-100%
001-000-000-321-91-00-01	Cable Franchise Fees	\$175,000.00	\$187,533.62	\$183,000.00	\$135,197.86	\$47,802.14	26%
001-000-000-321-99-00-01	Business Licensing	\$29,945.04	\$37,688.76	\$29,000.00	\$31,046.71	(\$2,046.71)	-7%
001-000-000-322-10-00-01	Building Permit	\$260,000.00	\$492,621.94	\$310,000.00	\$544,024.75	(\$234,024.75)	-75%
001-000-000-322-10-00-02	Mechanical Permit	\$40,000.00	\$56,802.41	\$60,000.00	\$83,165.50	(\$23,165.50)	-39%
001-000-000-322-10-00-03	Plumbing Permit	\$60,000.00	\$64,653.31	\$67,000.00	\$115,400.00	(\$48,400.00)	-72%
001-000-000-322-10-00-04	Conditional Use Permit	\$14,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-322-10-00-05	Temporary Use Permit	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-322-10-00-06	Other/Miscellaneous Permits	\$2,000.00	\$1,571.25	\$2,000.00	\$0.00	\$2,000.00	100%
	001-000-000-32 Total	\$589,233.67	\$848,116.29	\$660,157.00	\$912,819.92	(\$252,662.92)	-38%
001-000-000-333-20-60-01	U.S. Dept. of Transp. Grant	\$0.00	\$0.00	\$0.00	\$1,395.00	(\$1,395.00)	-100%
001-000-000-336-00-98-01	City Assistance	\$123,523.00	\$116,997.38	\$91,594.00	\$93,806.78	(\$2,212.78)	-2%
001-000-000-336-06-21-01	Local Criminal Justice - Pop.	\$3,000.00	\$2,752.32	\$3,028.00	\$2,249.09	\$778.91	26%
001-000-000-336-06-25-01	Criminal Justice-Contract Svs.	\$16,000.00	\$16,992.40	\$16,582.00	\$13,885.02	\$2,696.98	16%
001-000-000-336-06-26-01	Criminal Justice-Special Prog.	\$10,000.00	\$9,989.81	\$10,758.00	\$8,135.28	\$2,622.72	24%
001-000-000-336-06-41-01	Marijuana Enforcement	\$8.32	\$0.00	\$8.00	\$0.00	\$8.00	100%
001-000-000-336-06-51-01	DUI Cities	\$1,500.00	\$1,475.35	\$1,458.00	\$1,155.34	\$302.66	21%
001-000-000-336-06-94-01	Liquor Excise Tax	\$45,000.00	\$46,924.00	\$46,397.00	\$38,389.17	\$8,007.83	17%
001-000-000-336-06-95-01	Liquor Board Profits	\$90,000.00	\$82,191.31	\$82,446.00	\$64,757.54	\$17,688.46	21%
001-000-000-338-71-00-00	L & I Internship	\$2,187.50	\$0.00	\$2,188.00	\$0.00	\$2,188.00	100%

	001-000-000-33 Total	\$291,218.82	\$277,322.57	\$254,459.00	\$223,773.22	\$30,685.78	12%
001-000-000-341-81-00-02	Duplication Services	\$500.00	\$234.00	\$8,200.00	\$56.20	\$8,143.80	99%
001-000-000-341-81-00-03	Publication Services	\$0.00	\$16,800.00	\$0.00	\$9,000.00	(\$9,000.00)	-100%
001-000-000-341-82-00-01	Engineering Fees	\$290,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-342-10-00-00	Law Enforcement Services	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-81-00-01	Zoning & Subdivision Fees &	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-81-00-05	Final Short Plat	\$3,500.00	\$4,305.00	\$3,000.00	\$2,870.00	\$130.00	4%
001-000-000-345-81-00-06	Preliminary Short Plat	\$10,000.00	\$7,900.00	\$5,500.00	\$16,870.00	(\$11,370.00)	-207%
001-000-000-345-81-00-07	Clearing and Grading	\$4,000.00	\$5,651.22	\$3,000.00	\$1,659.30	\$1,340.70	45%
001-000-000-345-81-00-08	Preliminary Subdivision	\$35,000.00	\$36,880.00	\$17,000.00	\$4,920.00	\$12,080.00	71%
001-000-000-345-81-00-09	Boundary Line Adjustment	\$5,000.00	\$10,710.00	\$5,000.00	\$4,590.00	\$410.00	8%
001-000-000-345-81-00-10	Final Subdivision	\$5,000.00	\$4,700.00	\$4,700.00	\$7,050.00	(\$2,350.00)	-50%
001-000-000-345-81-00-11	Binding Site Plan - Admin.	\$0.00	\$1,435.00	\$1,400.00	\$0.00	\$1,400.00	100%
001-000-000-345-83-00-01	Plan Review & Inspection Fees &	\$240,000.00	\$454,192.75	\$350,000.00	\$281,630.29	\$68,369.71	20%
001-000-000-345-83-00-02	Planning Review Fee	\$0.00	\$6,956.57	\$6,900.00	\$4,037.96	\$2,862.04	41%
001-000-000-345-83-00-03	Inspection Fee	\$0.00	\$710.00	\$500.00	\$420.00	\$80.00	16%
001-000-000-345-83-00-04	Stormwater Inspection	\$0.00	\$19,630.90	\$15,000.00	\$11,982.21	\$3,017.79	20%
001-000-000-345-83-00-05	Energy Code Review	\$15,000.00	\$22,512.00	\$20,000.00	\$35,560.50	(\$15,560.50)	-78%
001-000-000-345-83-00-06	Traffic Eng-Peer Review Fees	\$0.00	\$33,501.11	\$0.00	\$13,725.00	(\$13,725.00)	-100%
001-000-000-345-85-00-01	TIF Administrative Fees	\$20,000.00	\$32,065.45	\$25,000.00	\$83,555.25	(\$58,555.25)	-234%
001-000-000-345-85-00-02	Concurrency Fees	\$0.00	\$0.00	\$0.00	\$13,047.50	(\$13,047.50)	-100%
001-000-000-345-89-00-01	Other/Environmental Review Fees & Services	\$0.00	\$48,695.86	\$50,000.00	\$50,688.21	(\$688.21)	-1%
001-000-000-345-89-00-02	SW Engineering/Plan Review Fees	\$20,000.00	\$10,485.00	\$16,000.00	\$19,279.60	(\$3,279.60)	-20%
001-000-000-345-89-00-04	SEPA - Major	\$28,000.00	\$65,597.50	\$45,000.00	\$17,870.00	\$27,130.00	60%
001-000-000-345-89-00-07	Posting Sign Fee	\$1,000.00	\$1,260.00	\$1,000.00	\$1,200.00	(\$200.00)	-20%
001-000-000-345-89-00-08	SW Administrative Fee	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-89-00-10	Design Standards Review	\$15,000.00	\$37,925.00	\$40,000.00	\$2,050.00	\$37,950.00	95%
001-000-000-345-89-00-13	Pre-Dev. Conference	\$20,000.00	\$15,490.00	\$13,000.00	\$15,350.00	(\$2,350.00)	-18%
001-000-000-345-89-00-14	Comp Plan Amendment	\$0.00	\$11,020.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-89-00-15	Right of Way Permit	\$0.00	\$250.00	\$61,000.00	\$22,860.40	\$38,139.60	63%
001-000-000-345-89-00-17	Driveway Access Review Fee	\$2,000.00	\$4,625.00	\$4,000.00	\$2,250.00	\$1,750.00	44%
001-000-000-345-89-00-18	Site Development	\$30,000.00	\$54,870.00	\$43,000.00	\$27,780.00	\$15,220.00	35%
001-000-000-345-89-00-20	Traffic Engineering Fee	\$0.00	\$27,618.10	\$30,000.00	\$0.00	\$30,000.00	100%
001-000-000-345-89-00-22	Admin Interpretation/Decision	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-89-00-23	Administrative Variance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-89-00-24	Building Permit Ext.	\$0.00	\$741.75	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-89-00-25	Pre-Application - Minor	\$0.00	\$985.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-89-00-26	Billable Staff Time	\$0.00	\$3,905.00	\$0.00	\$430.00	(\$430.00)	-100%
001-000-000-345-89-00-27	Hearing Examiner Reconsider	\$0.00	\$4,135.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-89-00-28	Subdivision Community Meeting	\$0.00	\$1,280.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-345-89-00-31	Critical Areas Checklist	\$0.00	\$630.00	\$0.00	\$630.00	(\$630.00)	-100%
001-000-000-345-89-00-32	Developer Agreement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%

001-000-000-345-89-00-34	Site Plan Review	\$0.00	\$0.00	\$0.00	\$2,450.00	(\$2,450.00)	0%
001-000-000-345-89-00-35	Critical Areas Review	\$0.00	\$90.00	\$0.00	\$90.00	(\$90.00)	-100%
001-000-000-347-30-00-01	Edgemont Park Facility Fee	\$2,150.00	\$2,200.00	\$2,400.00	\$1,910.00	\$490.00	20%
	001-000-000-34 Total	\$746,650.00	\$950,187.21	\$770,600.00	\$655,812.42	\$114,787.58	15%
001-000-000-356-50-00-01	Restitution - Investigative Fund Assess	\$0.00	\$152.29	\$0.00	\$184.86	(\$184.86)	0%
	001-000-000-35 Total	\$0.00	\$152.29	\$0.00	\$184.86	(\$184.86)	0%
001-000-000-361-11-00-01	Interest Savings Account	\$0.00	\$358.47	\$0.00	\$4,185.95	(\$4,185.95)	-100%
001-000-000-361-11-00-02	Investment Pool Interest	\$5,000.00	\$6,213.44	\$6,500.00	\$1,800.59	\$4,699.41	72%
001-000-000-361-11-00-03	Interest on Property Tax	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-361-11-00-40	Interest Income - Bonds	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	-100%
001-000-000-361-40-00-01	Other Interest	\$500.00	\$858.26	\$750.00	\$1,249.33	(\$499.33)	-67%
001-000-000-361-40-00-02	Interest on Interfund Loan	\$692.71	\$779.53	\$0.00	\$0.00	\$0.00	0%
001-000-000-362-40-00-01	Facilities Rental - Mtg Rm & Com Rm	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-362-50-00-01	Facilities Rental - Long Term	\$0.00	\$0.00	\$0.00	\$21,000.00	(\$21,000.00)	-100%
001-000-000-369-10-00-01	Sale of Surplus Equipment	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-369-81-00-01	Cashier Over/Short	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-369-91-00-01	NSF Returned Check Fee	\$0.00	\$160.00	\$40.00	\$40.00	\$0.00	0%
001-000-000-369-91-00-02	Reimbursement of City Expenses	\$0.00	\$28,180.49	\$3,800.00	\$9,678.88	(\$5,878.88)	-155%
001-000-000-369-91-00-03	Misc. Revenue	\$0.00	\$202.04	\$182.00	\$246.09	(\$64.09)	-35%
	001-000-000-36 Total	\$6,192.71	\$36,952.23	\$11,272.00	\$38,200.84	(\$26,928.84)	-239%
001-000-000-381-10-00-01	Interfund Loan Received/Repaid	\$400,000.00	\$400,000.00	\$0.00	\$0.00	\$0.00	0%
	001-000-000-38 Total	\$400,000.00	\$400,000.00	\$0.00	\$0.00	\$0.00	0%
001-086-000-386-10-00-01	Assignment of Funds	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-086-000-386-10-00-04	State Building Code Fee	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-086-000-386-10-00-05	Animal Licenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-086-000-386-10-00-06	Fire Plan Review	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-086-000-38 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$6,155,985.20	\$6,772,733.14	\$4,615,284.00	\$4,041,370.77	\$573,913.23	12%
005-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$1,000,003.00	\$1,002,519.00	\$0.00	\$0.00	\$0.00	0%
	005-000-000-30 Total	\$1,000,003.00	\$1,002,519.00	\$0.00	\$0.00	\$0.00	0%
005-000-000-361-11-00-02	Investment Pool Interest	\$500.00	\$1,379.54	\$221.00	\$150.47	\$70.53	32%
005-000-000-361-11-00-40	Interest Income - Bonds	\$1,500.00	\$5,737.50	\$7,500.00	\$7,287.50	\$212.50	3%
	005-000-000-36 Total	\$2,000.00	\$7,117.04	\$7,721.00	\$7,437.97	\$283.03	4%
	Fund Total	\$1,002,003.00	\$1,009,636.04	\$7,721.00	\$7,437.97	\$283.03	4%
101-000-000-308-00-00-01	Beginning Fund Balance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$125,000.00	\$258,165.00	\$0.00	\$0.00	\$0.00	0%
	101-000-000-30 Total	\$125,000.00	\$258,165.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-317-60-00-01	Received from ETB - Veh License Fees	\$0.00	\$193,465.80	\$190,000.00	\$159,246.45	\$30,753.55	16%
	101-000-000-31 Total	\$0.00	\$193,465.80	\$190,000.00	\$159,246.45	\$30,753.55	16%
101-000-000-322-40-00-02	Street Vacation	\$0.00	\$0.00	\$0.00	\$6,750.00	(\$6,750.00)	0%

101-000-000-322-40-00-04	Right-of-Way Permit	\$0.00	\$75,518.68	\$0.00	(\$692.00)	\$692.00	0%
	101-000-000-32 Total	\$0.00	\$75,518.68	\$0.00	\$6,058.00	(\$6,058.00)	0%
101-000-000-336-00-71-01	Multimodal Transpo City	\$0.00	\$10,234.74	\$0.00	\$10,997.45	(\$10,997.45)	-100%
101-000-000-336-00-87-01	MV Fuel Tax-City Streets	\$217,000.00	\$24,751.95	\$226,323.00	\$9,622.87	\$216,700.13	96%
101-000-000-336-00-87-02	MVFT Refund Cities	\$0.00	\$186,080.17	\$0.00	\$159,386.49	(\$159,386.49)	-100%
	101-000-000-33 Total	\$217,000.00	\$221,066.86	\$226,323.00	\$180,006.81	\$46,316.19	20%
101-000-000-344-10-00-01	Road/Street Services (TBD Work)	\$168,000.00	\$1,861.12	\$0.00	\$167.50	(\$167.50)	-100%
101-000-000-344-10-00-02	Traffic Eng. Peer Review	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-344-10-00-03	Admin. Fee - Traffic Eng.	\$0.00	\$441.30	\$0.00	\$220.65	(\$220.65)	0%
	101-000-000-34 Total	\$168,000.00	\$2,302.42	\$0.00	\$388.15	(\$388.15)	-100%
101-000-000-361-11-00-02	Investment Pool Interest	\$26.43	\$243.36	\$195.00	\$0.00	\$195.00	100%
101-000-000-369-40-00-01	Judgements and Settlements	\$0.00	\$0.00	\$0.00	\$2,016.26	(\$2,016.26)	-100%
	101-000-000-36 Total	\$26.43	\$243.36	\$195.00	\$2,016.26	(\$1,821.26)	-934%
101-000-000-397-00-00-04	Oper. Trn. - MCR-REET2	\$0.00	\$220,000.00	\$0.00	\$0.00	\$0.00	0%
	101-000-000-39 Total	\$0.00	\$220,000.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$510,026.43	\$970,762.12	\$416,518.00	\$347,715.67	\$68,802.33	17%
110-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$700,000.00	\$851,654.00	\$0.00	\$0.00	\$0.00	0%
	110-000-000-30 Total	\$700,000.00	\$851,654.00	\$0.00	\$0.00	\$0.00	0%
110-000-000-345-85-00-01	Park Impact Fee	\$200,000.00	\$477,260.00	\$440,000.00	\$1,032,078.00	(\$592,078.00)	-135%
	110-000-000-34 Total	\$200,000.00	\$477,260.00	\$440,000.00	\$1,032,078.00	(\$592,078.00)	-135%
110-000-000-361-11-00-02	Investment Pool Interest	\$45.69	\$420.84	\$335.00	\$6,951.00	(\$6,616.00)	-1975%
	110-000-000-36 Total	\$45.69	\$420.84	\$335.00	\$6,951.00	(\$6,616.00)	-1975%
	Fund Total	\$900,045.69	\$1,329,334.84	\$440,335.00	\$1,039,029.00	(\$598,694.00)	-136%
111-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$425,090.00	\$564,443.00	\$0.00	\$0.00	\$0.00	0%
	111-000-000-30 Total	\$425,090.00	\$564,443.00	\$0.00	\$0.00	\$0.00	0%
111-000-000-345-85-00-01	Traffic Mitigation Impact Fees	\$269,279.18	\$647,635.00	\$560,000.00	\$1,675,518.00	(\$1,115,518.00)	-199%
	111-000-000-34 Total	\$269,279.18	\$647,635.00	\$560,000.00	\$1,675,518.00	(\$1,115,518.00)	-199%
111-000-000-361-11-00-02	Investment Pool Interest	\$7.74	\$0.00	\$7.74	\$16,165.70	(\$16,157.96)	-208759%
	111-000-000-36 Total	\$7.74	\$0.00	\$7.74	\$16,165.70	(\$16,157.96)	-208759%
	Fund Total	\$694,376.92	\$1,212,078.00	\$560,007.74	\$1,691,683.70	(\$1,131,675.96)	-202%
130-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$33,389.00	\$100,280.00	\$0.00	\$0.00	\$0.00	0%
	130-000-000-30 Total	\$33,389.00	\$100,280.00	\$0.00	\$0.00	\$0.00	0%
130-000-000-318-34-00-01	Real Estate Excise Tax (REET1)	\$250,000.00	\$372,890.24	\$340,000.00	\$383,022.59	(\$43,022.59)	-13%
	130-000-000-31 Total	\$250,000.00	\$372,890.24	\$340,000.00	\$383,022.59	(\$43,022.59)	-13%
130-000-000-361-11-00-02	Investment Pool Interest	\$7.38	\$68.19	\$60.00	\$0.00	\$60.00	100%
	130-000-000-36 Total	\$7.38	\$68.19	\$60.00	\$0.00	\$60.00	100%
	Fund Total	\$283,396.38	\$473,238.43	\$340,060.00	\$383,022.59	(\$42,962.59)	-13%
132-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$78,936.00	\$145,536.00	\$0.00	\$0.00	\$0.00	0%
	132-000-000-30 Total	\$78,936.00	\$145,536.00	\$0.00	\$0.00	\$0.00	0%
132-000-000-318-34-00-01	Real Estate Excise Tax (REET 2)	\$250,000.00	\$372,889.82	\$340,000.00	\$383,022.01	(\$43,022.01)	-13%

	132-000-000-31 Total	\$250,000.00	\$372,889.82	\$340,000.00	\$383,022.01	(\$43,022.01)	-13%
132-000-000-361-11-00-02	Investment Pool Interest	\$24.03	\$221.12	\$176.00	\$0.00	\$176.00	100%
	132-000-000-36 Total	\$24.03	\$221.12	\$176.00	\$0.00	\$176.00	100%
	Fund Total	\$328,960.03	\$518,646.94	\$340,176.00	\$383,022.01	(\$42,846.01)	-13%
201-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$0.00	\$10,723.00	\$0.00	\$0.00	\$0.00	0%
	201-000-000-30 Total	\$0.00	\$10,723.00	\$0.00	\$0.00	\$0.00	0%
201-000-000-397-00-00-01	Oper. Trn. - General Fund	\$186,063.00	\$136,063.00	\$119,938.00	\$0.00	\$119,938.00	100%
201-000-000-397-00-00-03	Transfer In - Sewer	\$123.00	\$123.00	\$123.00	\$0.00	\$123.00	100%
201-000-000-397-00-00-04	Transfer In - Surface Water	\$12,044.00	\$12,044.00	\$12,044.00	\$0.00	\$12,044.00	100%
201-000-000-397-00-00-07	Oper. Trn. - MCR-REET1	\$203,690.00	\$253,690.00	\$359,895.00	\$0.00	\$359,895.00	100%
	201-000-000-39 Total	\$401,920.00	\$401,920.00	\$492,000.00	\$0.00	\$492,000.00	100%
	Fund Total	\$401,920.00	\$412,643.00	\$492,000.00	\$0.00	\$492,000.00	100%
310-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$132,250.00	\$141,680.00	\$0.00	\$0.00	\$0.00	0%
	310-000-000-30 Total	\$132,250.00	\$141,680.00	\$0.00	\$0.00	\$0.00	0%
310-000-000-361-11-00-02	Investment Pool Interest	\$26.91	\$318.82	\$254.00	\$0.00	\$254.00	100%
	310-000-000-36 Total	\$26.91	\$318.82	\$254.00	\$0.00	\$254.00	100%
310-000-000-397-00-00-04	Oper. Trn. - PIF	\$100,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
310-000-000-397-00-00-09	Oper. Trn. - SWM	\$10,000.00	\$15,000.00	\$0.00	\$0.00	\$0.00	0%
	310-000-000-39 Total	\$110,000.00	\$15,000.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$242,276.91	\$156,998.82	\$254.00	\$0.00	\$254.00	100%
340-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$12,011.00	\$9,294.00	\$0.00	\$0.00	\$0.00	0%
	340-000-000-30 Total	\$12,011.00	\$9,294.00	\$0.00	\$0.00	\$0.00	0%
340-000-000-333-20-20-05	STPUL HLP 3290(010) Jovita	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
340-000-000-334-03-60-01	State Grant - WSDOT	\$415,857.05	\$415,857.05	\$0.00	\$0.00	\$0.00	0%
340-000-000-334-03-80-01	State TIB Grant	\$0.00	\$21,879.00	\$0.00	\$0.00	\$0.00	0%
	340-000-000-33 Total	\$415,857.05	\$437,736.05	\$0.00	\$0.00	\$0.00	0%
340-000-000-381-10-00-01	Interfund Loan Received	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	340-000-000-38 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
340-000-000-397-00-00-01	Oper. Trn. - General Fund	\$0.00	\$24,000.00	\$0.00	\$0.00	\$0.00	0%
	340-000-000-39 Total	\$0.00	\$24,000.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$427,868.05	\$471,030.05	\$0.00	\$0.00	\$0.00	0%
341-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$0.00	\$250,000.00	\$0.00	\$0.00	\$0.00	0%
	341-000-000-30 Total	\$0.00	\$250,000.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$0.00	\$250,000.00	\$0.00	\$0.00	\$0.00	0%
350-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$1,811.00	\$1,811.00	\$0.00	\$0.00	\$0.00	0%
	350-000-000-30 Total	\$1,811.00	\$1,811.00	\$0.00	\$0.00	\$0.00	0%
350-000-000-381-10-00-01	Interfund Loan Received	\$0.00	\$0.00	\$2.00	\$0.00	\$2.00	100%
	350-000-000-38 Total	\$0.00	\$0.00	\$2.00	\$0.00	\$2.00	100%
	Fund Total	\$1,811.00	\$1,811.00	\$2.00	\$0.00	\$2.00	100%

401-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$26,758.00	\$32,503.00	\$0.00	\$0.00	\$0.00	0%
	401-000-000-30 Total	\$26,758.00	\$32,503.00	\$0.00	\$0.00	\$0.00	0%
401-000-000-343-50-00-01	Sewer Revenue	\$15,000.00	\$32,091.39	\$35,000.00	\$35,880.45	(\$880.45)	-3%
	401-000-000-34 Total	\$15,000.00	\$32,091.39	\$35,000.00	\$35,880.45	(\$880.45)	-3%
	Fund Total	\$41,758.00	\$64,594.39	\$35,000.00	\$35,880.45	(\$880.45)	-3%
410-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$979,806.00	\$696,251.00	\$0.00	\$0.00	\$0.00	0%
	410-000-000-30 Total	\$979,806.00	\$696,251.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-334-03-10-01	Dept of Ecology Grant Revenue	\$25,000.00	\$25,000.00	\$25,000.00	\$50,000.00	(\$25,000.00)	-100%
410-000-000-337-00-00-01	Opportunity Fund Project Revenue	\$10,961.35	\$10,961.35	\$0.00	\$0.00	\$0.00	0%
	410-000-000-33 Total	\$35,961.35	\$35,961.35	\$25,000.00	\$50,000.00	(\$25,000.00)	-100%
410-000-000-343-10-00-01	Surface Water Fees	\$661,550.00	\$661,219.04	\$760,000.00	\$510,427.10	\$249,572.90	33%
410-000-000-343-83-00-01	Storm Drainage Fees & Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-345-89-00-01	SW Plan Reviews	\$0.00	\$25,170.00	\$0.00	\$0.00	\$0.00	0%
	410-000-000-34 Total	\$661,550.00	\$686,389.04	\$760,000.00	\$510,427.10	\$249,572.90	33%
410-000-000-361-11-00-02	Investment Pool Interest	\$161.34	\$1,485.97	\$2,000.00	\$0.00	\$2,000.00	100%
410-000-000-361-11-00-40	Interest Earnings - Bond	\$1,175.34	\$0.00	\$0.00	\$0.00	\$0.00	0%
	410-000-000-36 Total	\$1,336.68	\$1,485.97	\$2,000.00	\$0.00	\$2,000.00	100%
	Fund Total	\$1,678,654.03	\$1,420,087.36	\$787,000.00	\$560,427.10	\$226,572.90	29%
411-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$520,833.00	\$2,415,049.00	\$0.00	\$0.00	\$0.00	0%
	411-000-000-30 Total	\$520,833.00	\$2,415,049.00	\$0.00	\$0.00	\$0.00	0%
411-000-000-359-00-00-02	LID No. 1 Penalties Received	\$79,936.17	\$49,212.54	\$76,075.00	\$61,577.68	\$14,497.32	19%
	411-000-000-35 Total	\$79,936.17	\$49,212.54	\$76,075.00	\$61,577.68	\$14,497.32	19%
411-000-000-361-11-00-02	Investment Pool Interest	\$1,143.63	\$10,533.44	\$3,080.00	\$0.00	\$3,080.00	100%
411-000-000-361-40-00-01	LID No. 1 Interest Received	\$610,341.00	\$485,098.47	\$487,523.00	\$590,729.70	(\$103,206.70)	-21%
411-000-000-368-10-00-01	LID #1 Principal Received	\$4,203,638.20	\$2,310,639.18	\$676,401.00	\$973,895.23	(\$297,494.23)	-44%
411-000-000-369-91-00-03	Misc. Revenue	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	411-000-000-36 Total	\$4,815,122.83	\$2,806,271.09	\$1,167,004.00	\$1,564,624.93	(\$397,620.93)	-34%
	Fund Total	\$5,415,892.00	\$5,270,532.63	\$1,243,079.00	\$1,626,202.61	(\$383,123.61)	-31%
412-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$236,232.00	\$236,232.00	\$0.00	\$0.00	\$0.00	0%
	412-000-000-30 Total	\$236,232.00	\$236,232.00	\$0.00	\$0.00	\$0.00	0%
412-000-000-361-11-00-02	Investment Pool Interest	\$0.00	\$0.00	\$0.00	\$4,726.01	(\$4,726.01)	0%
	412-000-000-36 Total	\$0.00	\$0.00	\$0.00	\$4,726.01	(\$4,726.01)	-100%
412-000-000-397-00-00-01	Transfer In - Temp. LID Fund	\$0.00	\$118,116.00	\$0.00	\$0.00	\$0.00	0%
	412-000-000-39 Total	\$0.00	\$118,116.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$236,232.00	\$354,348.00	\$0.00	\$4,726.01	(\$4,726.01)	-100%
501-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$50,377.00	\$53,058.00	\$0.00	\$0.00	\$0.00	0%
	501-000-000-30 Total	\$50,377.00	\$53,058.00	\$0.00	\$0.00	\$0.00	0%
501-000-000-361-11-00-02	Investment Pool Interest	\$64.89	\$597.71	\$500.00	\$0.00	\$500.00	100%
501-000-000-362-00-00-01	Comcast PEG Fees	\$0.00	\$17,873.25	\$43,000.00	\$8,569.28	\$34,430.72	80%

	501-000-000-36 Total	\$64.89	\$18,470.96	\$43,500.00	\$8,569.28	\$34,930.72	80%
501-000-000-397-00-00-01	Oper. Trn. - In	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	501-000-000-39 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$50,441.89	\$71,528.96	\$43,500.00	\$8,569.28	\$34,930.72	80%
630-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	630-000-000-30 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
630-000-000-317-60-00-01	Transportation Benefit Dist Vehicle Fee	\$146,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	630-000-000-31 Total	\$146,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$146,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
640-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$0.00	\$116,442.00	\$0.00	\$0.00	\$0.00	0%
	640-000-000-30 Total	\$0.00	\$116,442.00	\$0.00	\$0.00	\$0.00	0%
640-000-000-389-10-00-01	Assignment of Funds-Deposits in Lieu of Bond	\$0.00	\$178,895.21	\$0.00	\$166,066.22	(\$166,066.22)	0%
	640-000-000-38 Total	\$0.00	\$178,895.21	\$0.00	\$166,066.22	(\$166,066.22)	0%
	Fund Total	\$0.00	\$295,337.21	\$0.00	\$166,066.22	(\$166,066.22)	-100%
642-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$0.00	\$45,868.00	\$0.00	\$0.00	\$0.00	0%
	642-000-000-30 Total	\$0.00	\$45,868.00	\$0.00	\$0.00	\$0.00	0%
642-000-000-389-20-00-02	Retainage-Contractor	\$0.00	\$212.50	\$0.00	\$0.00	\$0.00	0%
	642-000-000-38 Total	\$0.00	\$212.50	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$0.00	\$46,080.50	\$0.00	\$0.00	\$0.00	0%
650-000-000-308-10-00-01	Beginning Reserved Fund Balance	\$0.00	\$700.00	\$0.00	\$0.00	\$0.00	0%
	650-000-000-30 Total	\$0.00	\$700.00	\$0.00	\$0.00	\$0.00	0%
650-000-000-389-10-00-08	Sign Deposit	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
650-000-000-389-10-00-09	Suspense	\$0.00	\$41.41	\$0.00	\$1,827.03	(\$1,827.03)	0%
650-000-000-389-30-00-04	State Building Code Fee	\$0.00	\$1,205.50	\$0.00	\$1,776.50	(\$1,776.50)	0%
650-000-000-389-30-00-05	Animal Licenses	\$0.00	\$3,185.00	\$0.00	\$3,047.00	(\$3,047.00)	0%
650-000-000-389-30-00-06	Fire Plan Review	\$0.00	\$29,784.81	\$0.00	\$35,515.06	(\$35,515.06)	0%
	650-000-000-38 Total	\$0.00	\$34,216.72	\$0.00	\$42,165.59	(\$42,165.59)	0%
	Fund Total	\$0.00	\$34,916.72	\$0.00	\$42,165.59	(\$42,165.59)	
	Grand Total	\$18,517,647.53	\$21,136,338.15	\$9,320,936.74	\$10,337,318.97		

City of Edgewood

3RD QUARTER FINANCIAL POSITION BUDGET TO ACTUAL - EXPENSES

Negative variance = less spent than budgeted.

Account Number	Description	Budget 2017	Actual 2017	Budget 2018	Actual 2018	Variance \$	Variance %
001-000-000-508-00-00-01	Ending Fund Balance	\$0.00	\$2,597,862.41	\$0.00	\$0.00	\$0.00	0%
	001-000-000-50 Total	\$0.00	\$2,597,862.41	\$0.00	\$0.00	\$0.00	0%
001-000-000-552-40-51-00	L&I Internship Training expenditures	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-000-000-55 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-581-10-00-00	Interfund Loan Made	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-000-000-58 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-597-00-00-03	Oper. Trn.-Equip Rep	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-000-000-597-00-00-10	Oper. Trn. - Civic Center	\$0.00	\$136,063.00	\$0.00	\$0.00	\$0.00	0%
	001-000-000-59 Total	\$0.00	\$136,063.00	\$0.00	\$0.00	\$0.00	0%
001-011-000-511-60-10-99	Allocated Labor	\$0.00	\$51,266.78	\$0.00	\$32,806.00	\$32,806.00	0%
001-011-000-511-60-11-01	Salaries and Wages	\$50,400.00	\$0.00	\$52,500.00	\$0.00	(\$52,500.00)	-100%
001-011-000-511-60-20-99	Allocated Benefits	\$0.00	\$21,030.13	\$0.00	\$848.27	\$848.27	0%
001-011-000-511-60-21-01	Medicare	\$795.00	\$0.00	\$824.00	\$0.00	(\$824.00)	-100%
001-011-000-511-60-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-011-000-511-60-21-07	Labor & Industries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-011-000-511-60-30-99	Allocated Goods	\$0.00	\$1,136.14	\$0.00	\$0.00	\$0.00	0%
001-011-000-511-60-31-01	Office & Operational Supplies	\$400.00	\$77.48	\$400.00	\$55.50	(\$344.50)	-86%
001-011-000-511-60-31-05	Supplies-Misc	\$500.00	\$284.50	\$0.00	\$0.00	\$0.00	0%
001-011-000-511-60-40-99	Allocated Services	\$0.00	\$27,654.55	\$0.00	\$0.00	\$0.00	0%
001-011-000-511-60-41-01	Professional Services	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-011-000-511-60-43-01	Travel/Training Costs	\$750.00	\$0.00	\$750.00	\$183.36	(\$566.64)	-76%
001-011-000-511-60-43-02	Lodging Charges	\$750.00	\$0.00	\$750.00	\$0.00	(\$750.00)	-100%
001-011-000-511-60-43-03	Mileage Reimbursement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-011-000-511-60-43-04	Meals Expense	\$250.00	\$101.28	\$750.00	\$38.00	(\$712.00)	-95%
001-011-000-511-60-49-01	Memberships	\$150.00	\$50.00	\$150.00	\$0.00	(\$150.00)	-100%
001-011-000-511-60-49-03	Registration	\$500.00	\$0.00	\$500.00	\$0.00	(\$500.00)	-100%
001-011-000-511-60-49-04	Subscriptions	\$400.00	\$27.44	\$400.00	\$0.00	(\$400.00)	-100%
	001-011-000-51 Total	\$54,895.00	\$101,628.30	\$57,024.00	\$33,931.13	(\$23,092.87)	-40%
001-011-000-594-11-64-01	Office Furniture	\$35,974.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-011-000-59 Total	\$35,974.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-013-000-513-10-10-99	Allocated Labor	\$0.00	\$121,901.00	\$0.00	\$47,160.00	\$47,160.00	0%
001-013-000-513-10-11-01	Salaries and Wages	\$119,970.71	\$0.00	\$64,728.00	\$0.00	(\$64,728.00)	-100%
001-013-000-513-10-20-99	Allocated Benefits	\$0.00	\$50,004.96	\$0.00	\$14,792.77	\$14,792.77	0%
001-013-000-513-10-21-01	Medicare	\$39,272.40	\$0.00	\$19,383.15	\$0.00	(\$19,383.15)	-100%

001-013-000-513-10-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-013-000-513-10-21-07	Labor & Industries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-013-000-513-10-21-10	Medical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-013-000-513-10-30-99	Allocated Goods	\$0.00	\$2,701.50	\$0.00	\$0.00	\$0.00	0%
001-013-000-513-10-31-05	Supplies-Misc	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-013-000-513-10-40-99	Allocated Services	\$0.00	\$65,756.37	\$0.00	\$0.00	\$0.00	0%
001-013-000-513-10-43-01	Travel/Training Costs	\$1,500.00	\$50.00	\$1,500.00	\$433.62	(\$1,066.38)	-71%
001-013-000-513-10-43-02	Lodging Charges	\$750.00	\$330.44	\$750.00	\$0.00	(\$750.00)	-100%
001-013-000-513-10-43-03	Mileage Reimbursement	\$250.00	\$313.51	\$250.00	\$378.23	\$128.23	51%
001-013-000-513-10-43-04	Meals Expense	\$350.00	\$771.34	\$850.00	\$302.60	(\$547.40)	-64%
001-013-000-513-10-43-05	Parking	\$150.00	\$0.00	\$150.00	\$0.00	(\$150.00)	-100%
001-013-000-513-10-49-01	Memberships	\$160.00	\$0.00	\$160.00	\$0.00	(\$160.00)	-100%
001-013-000-513-10-49-03	Registration	\$250.00	\$400.00	\$250.00	\$0.00	(\$250.00)	-100%
001-013-000-513-10-49-04	Subscriptions	\$50.00	\$0.00	\$50.00	\$0.00	(\$50.00)	-100%
	001-013-000-51 Total	\$163,203.11	\$242,229.12	\$88,071.15	\$63,067.22	(\$25,003.93)	-28%
001-013-000-594-13-64-01	Office Furniture	\$85,537.62	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-013-000-59 Total	\$85,537.62	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-511-30-41-02	Legal Publications	\$5,000.00	\$5,309.08	\$5,000.00	\$3,230.75	(\$1,769.25)	-35%
001-014-000-511-30-41-03	COE Permits to COE	\$0.00	\$22,750.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-10-99	Allocated Labor	\$0.00	\$161,775.16	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-11-01	Salaries and Wages	\$99,570.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-20-99	Allocated Benefits	\$0.00	\$66,361.72	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-21-01	Medicare	\$44,703.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-21-05	PERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-21-07	Labor & Industries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-21-08	Unemployment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-21-10	Medical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-30-99	Allocated Goods	\$0.00	\$3,585.16	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-31-01	Office & Operational Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-31-05	Supplies-Misc	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-40-99	Allocated Services	\$0.00	\$87,265.46	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-41-01	Professional Services	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-20-42-05	Bank & Bond Fees	\$0.00	\$802.00	\$0.00	\$350.58	\$350.58	0%
001-014-000-514-20-43-01	Training & Travel Costs	\$3,500.00	\$1,436.94	\$0.00	\$3,161.53	\$3,161.53	0%
001-014-000-514-20-43-02	Lodging Charges	\$0.00	\$384.33	\$0.00	\$406.54	\$406.54	0%
001-014-000-514-20-43-03	Mileage Reimbursement	\$250.00	\$84.95	\$0.00	\$137.23	\$137.23	0%
001-014-000-514-20-43-04	Meals Expense	\$0.00	\$475.79	\$0.00	\$122.85	\$122.85	0%
001-014-000-514-20-49-01	Memberships	\$350.00	\$125.00	\$0.00	\$949.87	\$949.87	0%

001-014-000-514-20-49-03	Registration	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-23-41-01	Accounting & Auditing Services	\$0.00	\$3,003.10	\$12,800.00	\$0.00	(\$12,800.00)	-100%
001-014-000-514-30-11-01	Salaries & Wages	\$59,381.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-21-01	Medicare	\$30,689.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-21-05	PERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-21-07	Labor & Industries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-21-08	Unemployment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-21-10	Medical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-31-01	Operational Supplies	\$300.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-31-05	Supplies-Misc	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-41-01	Professional Services	\$1,500.00	\$6,841.08	\$0.00	\$4,042.81	\$4,042.81	0%
001-014-000-514-30-42-06	Website Services	\$0.00	\$350.00	\$0.00	\$350.00	\$350.00	0%
001-014-000-514-30-43-01	Training & Travel Costs	\$200.00	\$99.00	\$0.00	\$788.15	\$788.15	0%
001-014-000-514-30-43-02	Lodging	\$600.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-43-03	Mileage Reimbursement	\$150.00	\$128.40	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-43-04	Meals Expense	\$150.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-44-01	Legal Publication	\$500.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-30-49-01	Memberships	\$480.00	\$379.00	\$0.00	\$210.00	\$210.00	0%
001-014-000-514-30-49-03	Registration	\$350.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-40-51-01	Election Costs	\$4,000.00	\$5,715.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-514-90-51-01	Voter Registration	\$18,500.00	\$15,504.09	\$0.00	\$20,643.00	\$20,643.00	0%
001-014-000-518-10-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-518-10-49-01	Memberships	\$0.00	\$185.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-518-80-31-01	IT Operating Supplies	\$1,296.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-518-80-41-01	Contracted IT Services	\$26,000.00	\$24,295.20	\$26,780.00	\$16,559.73	(\$10,220.27)	-38%
001-014-000-518-80-41-02	Web Site Services	\$4,500.00	\$2,100.00	\$2,200.00	\$1,800.00	(\$400.00)	-18%
001-014-000-518-80-48-01	IT Repair & Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$0.00	(\$5,000.00)	-100%
001-014-000-518-80-49-03	Computer Subscriptions	\$13,518.00	\$44,997.80	\$41,084.00	\$35,139.89	(\$5,944.11)	-14%
	001-014-000-51 Total	\$320,487.00	\$453,953.26	\$92,864.00	\$87,892.93	(\$4,971.07)	-5%
001-014-000-594-14-64-01	Office Furniture	\$71,148.12	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-014-000-594-14-64-02	Central File Equipment	\$32,679.20	\$9,420.87	\$0.00	\$0.00	\$0.00	0%
001-014-000-594-14-64-03	Software - Computer	\$42,369.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-014-000-59 Total	\$146,196.32	\$9,420.87	\$0.00	\$0.00	\$0.00	0%
001-015-000-515-41-41-01	Legal Services-External	\$140,000.00	\$104,748.89	\$110,000.00	\$132,954.72	\$22,954.72	21%
001-015-000-515-41-41-14	Hearing Examiner Legal Fees	\$25,000.00	\$18,281.02	\$25,000.00	\$2,359.77	(\$22,640.23)	-91%
001-015-000-515-41-41-15	Code Enforcement Legal Fees	\$15,000.00	\$0.00	\$15,000.00	\$0.00	(\$15,000.00)	-100%
	001-015-000-51 Total	\$180,000.00	\$123,029.91	\$150,000.00	\$135,314.49	(\$14,685.51)	-10%
001-018-000-512-50-51-01	Court Services	\$22,000.00	\$13,500.00	\$24,000.00	\$9,000.00	(\$15,000.00)	-63%

001-018-000-518-10-11-01	Salaries & Wages	\$93,973.29	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-10-21-01	Medicare	\$44,745.87	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-10-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-10-21-05	PERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-10-21-07	Labor & Industries	\$0.00	(\$936.22)	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-10-21-08	Unemployment	\$0.00	\$2,060.56	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-10-21-10	Medical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-10-31-01	Operational Supplies	\$15,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-20-11-01	Salaries & Wages	\$0.00	\$1,139,261.70	\$852,111.00	\$878,623.61	\$26,512.61	3%
001-018-000-518-20-21-01	Medicare	\$0.00	\$16,529.68	\$12,356.00	\$12,745.01	\$389.01	3%
001-018-000-518-20-21-02	Social Security Replacement	\$0.00	\$63,405.84	\$52,831.00	\$50,092.62	(\$2,738.38)	-5%
001-018-000-518-20-21-05	PERS	\$0.00	\$112,458.32	\$103,573.00	\$97,478.89	(\$6,094.11)	-6%
001-018-000-518-20-21-07	Labor & Industries	\$0.00	\$9,012.47	\$14,236.00	\$7,596.49	(\$6,639.51)	-47%
001-018-000-518-20-21-08	Unemployment	\$0.00	\$8,340.28	\$15,338.00	\$6,743.91	(\$8,594.09)	-56%
001-018-000-518-20-21-10	Medical	\$0.00	\$258,504.62	\$230,998.00	\$224,588.94	(\$6,409.06)	-3%
001-018-000-518-20-31-01	Office & Operational Supplies	\$0.00	\$13,802.63	\$15,000.00	\$8,792.51	(\$6,207.49)	-41%
001-018-000-518-20-35-01	Small Tools/Minor Equipment	\$500.00	\$400.52	\$500.00	\$266.15	(\$233.85)	-47%
001-018-000-518-20-35-02	Office Furniture	\$0.00	\$1,078.10	\$1,200.00	\$0.00	(\$1,200.00)	-100%
001-018-000-518-20-41-01	Professional Service	\$12,800.00	\$2,966.36	\$0.00	\$17,212.79	\$17,212.79	0%
001-018-000-518-20-42-01	Telephone Charges	\$0.00	\$1,497.86	\$0.00	\$705.19	\$705.19	0%
001-018-000-518-20-42-02	Postage	\$7,000.00	\$4,731.99	\$7,000.00	\$3,769.75	(\$3,230.25)	-46%
001-018-000-518-20-43-01	Travel/Training Costs	\$0.00	\$1,113.25	\$0.00	\$130.15	\$130.15	0%
001-018-000-518-20-43-04	Employee Meals	\$0.00	\$0.00	\$0.00	\$302.50	\$302.50	0%
001-018-000-518-20-45-03	Postage Meter Lease	\$870.00	\$852.95	\$870.00	\$640.44	(\$229.56)	-26%
001-018-000-518-20-45-06	Copier Lease	\$3,500.00	\$3,251.19	\$3,700.00	\$0.00	(\$3,700.00)	-100%
001-018-000-518-20-47-01	Electricity	\$45,000.00	\$52,720.37	\$45,000.00	\$33,765.13	(\$11,234.87)	-25%
001-018-000-518-20-47-02	Water	\$10,900.00	\$2,581.40	\$10,900.00	\$0.00	(\$10,900.00)	-100%
001-018-000-518-20-47-04	Sewer Charges	\$0.00	\$0.00	\$1,100.00	\$0.00	(\$1,100.00)	-100%
001-018-000-518-20-47-50	LID Interest Payment	\$0.00	\$28,894.21	\$0.00	\$26,967.93	\$26,967.93	0%
001-018-000-518-20-47-60	LID Principal Payment	\$0.00	\$45,324.25	\$0.00	\$45,324.25	\$45,324.25	0%
001-018-000-518-20-49-01	Memberships	\$0.00	\$628.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-20-49-05	Printing & Binding	\$25,000.00	\$20,728.07	\$25,000.00	\$9,830.01	(\$15,169.99)	-61%
001-018-000-518-20-49-11	City Employee Team Building	\$0.00	\$0.00	\$3,500.00	\$0.00	(\$3,500.00)	-100%
001-018-000-518-30-11-01	Salaries & Wages	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-21-01	Medicare	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-21-05	PERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-21-07	L&I	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-21-08	Unemployment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%

001-018-000-518-30-21-10	Medical	\$0.00	(\$0.03)	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-31-01	Office & Operational Supplies	\$0.00	\$2,325.45	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-32-01	Fuel	\$400.00	\$6,486.09	\$6,000.00	\$4,666.79	(\$1,333.21)	-22%
001-018-000-518-30-32-02	Supplies/Parts - Vehicles	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-35-01	Small Tools/Minor Equip.	\$0.00	\$1,154.84	\$0.00	\$209.40	\$209.40	0%
001-018-000-518-30-41-01	Professional Services	\$0.00	\$15,905.89	\$0.00	\$11,193.48	\$11,193.48	0%
001-018-000-518-30-41-05	Alarm Monitoring	\$0.00	\$943.18	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-42-01	Telecommunications Charges	\$10,800.00	\$17,883.77	\$20,000.00	\$14,197.18	(\$5,802.82)	-29%
001-018-000-518-30-42-03	Postage	\$0.00	\$2,000.00	\$0.00	\$1,000.00	\$1,000.00	0%
001-018-000-518-30-45-06	Copier Lease	\$5,000.00	\$6,873.98	\$2,500.00	\$7,129.28	\$4,629.28	185%
001-018-000-518-30-45-07	Operating Permits	\$400.00	\$173.80	\$400.00	\$243.10	(\$156.90)	-39%
001-018-000-518-30-46-01	Alarm Monitoring	\$2,000.00	\$593.54	\$2,000.00	\$523.48	(\$1,476.52)	-74%
001-018-000-518-30-47-01	Electricity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-30-47-02	Water	\$0.00	\$3,806.01	\$0.00	\$7,097.71	\$7,097.71	0%
001-018-000-518-30-47-04	Sewer Charges	\$1,100.00	\$883.69	\$0.00	\$543.61	\$543.61	0%
001-018-000-518-30-48-03	Maintenance/Repairs - Buildings	\$90,000.00	\$106,066.89	\$97,000.00	\$36,706.97	(\$60,293.03)	-62%
001-018-000-518-30-48-04	Repairs to Facility	\$0.00	\$0.00	\$0.00	\$4,121.25	\$4,121.25	0%
001-018-000-518-30-48-06	Equipment Repairs	\$10,000.00	\$4,228.35	\$6,500.00	\$829.42	(\$5,670.58)	-87%
001-018-000-518-30-48-07	Maintenance & Repairs-Vehicles	\$0.00	\$7,978.95	\$0.00	\$1,173.83	\$1,173.83	0%
001-018-000-518-30-51-03	Surface Water Charge	\$240.00	\$189.07	\$240.00	\$622.66	\$382.66	159%
001-018-000-518-85-31-03	Computer Hardware	\$0.00	\$10,788.65	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-85-48-03	Computer Maintenance-Permitting SW	\$0.00	\$879.20	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-85-49-03	Computer Subscriptions	\$0.00	\$0.00	\$0.00	\$1,043.10	\$1,043.10	0%
001-018-000-518-85-49-04	Subscriptions	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-518-90-10-99	Allocated Labor	\$0.00	(\$1,024,702.97)	\$0.00	(\$878,623.61)	(\$878,623.61)	0%
001-018-000-518-90-20-99	Allocated Benefits	\$0.00	(\$428,547.21)	\$0.00	(\$399,245.86)	(\$399,245.86)	0%
001-018-000-518-90-30-99	Allocated Goods	\$0.00	(\$23,152.07)	\$0.00	(\$13,934.85)	(\$13,934.85)	0%
001-018-000-518-90-40-99	Allocated Services	\$0.00	(\$563,538.25)	\$0.00	(\$547,345.90)	(\$547,345.90)	0%
001-018-000-518-90-46-50	WCIA Insurance Premium	\$48,095.92	\$46,477.00	\$56,175.00	\$68,136.00	\$11,961.00	21%
001-018-000-518-90-49-51	Puget Sound Clean Air Dues	\$6,000.00	\$6,734.00	\$7,200.00	\$7,058.00	(\$142.00)	-2%
001-018-000-518-90-49-52	Puget Sound Regional Council	\$1,303.00	\$3,762.55	\$3,375.00	\$4,028.55	\$653.55	19%
001-018-000-518-90-49-53	AWC Dues	\$6,268.00	\$6,382.00	\$6,764.00	\$6,968.00	\$204.00	3%
001-018-000-518-90-49-55	Pierce County Regional Council	\$387.55	\$0.00	\$400.00	\$0.00	(\$400.00)	-100%
001-018-000-518-90-49-57	Chamber Dues	\$500.00	\$500.00	\$500.00	\$0.00	(\$500.00)	-100%
	001-018-000-51 Total	\$463,783.63	\$15,784.77	\$1,628,267.00	(\$227,082.14)	(\$1,855,349.14)	-114%
001-018-000-525-60-51-01	Emergency Services	\$8,421.02	\$8,274.75	\$9,000.00	\$8,857.00	(\$143.00)	-2%
	001-018-000-52 Total	\$8,421.02	\$8,274.75	\$9,000.00	\$8,857.00	(\$143.00)	-2%
001-018-000-554-30-51-01	Animal Control Services	\$38,719.10	\$43,961.30	\$49,495.00	\$26,180.28	(\$23,314.72)	-47%

	001-018-000-55 Total	\$38,719.10	\$43,961.30	\$49,495.00	\$26,180.28	(\$23,314.72)	-47%
001-018-000-591-18-79-01	LID NO. 1 Principal	\$45,324.25	\$0.00	\$45,324.25	\$0.00	(\$45,324.25)	-100%
001-018-000-591-18-82-01	LID Interest Payment	\$30,820.49	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-592-18-82-01	LID NO. 1 Interest	\$0.00	\$0.00	\$30,820.49	\$0.00	(\$30,820.49)	-100%
001-018-000-594-18-63-01	Cap Exp-City Hall Reader Board	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-594-18-64-02	Cap Exp-Computer Hardware	\$16,500.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-594-18-64-03	Cap Exp-Computer Software	\$4,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-018-000-594-18-64-05	Cap Exp-Council Chamber Video Equipment	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-018-000-59 Total	\$136,644.74	\$0.00	\$76,144.74	\$0.00	(\$76,144.74)	-100%
001-019-000-514-23-41-01	State Auditor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-019-000-518-90-10-99	Allocated Labor	\$0.00	\$0.00	\$0.00	\$170,114.07	\$170,114.07	0%
001-019-000-518-90-11-01	Salaries & Wages	\$0.00	\$0.00	\$230,622.15	\$0.00	(\$230,622.15)	-100%
001-019-000-518-90-20-99	Allocated Benefits	\$0.00	\$0.00	\$0.00	\$81,707.83	\$81,707.83	0%
001-019-000-518-90-21-01	Benefits	\$0.00	\$0.00	\$116,197.75	\$0.00	(\$116,197.75)	-100%
001-019-000-518-90-30-99	Allocated Goods	\$0.00	\$0.00	\$138,062.97	\$2,968.12	(\$135,094.85)	-98%
001-019-000-518-90-40-99	Allocated Services	\$0.00	\$0.00	\$0.00	\$116,584.68	\$116,584.68	0%
001-019-000-518-90-41-01	Gen'l Gov't-Professional Services	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-019-000-51 Total	\$0.00	\$0.00	\$484,882.87	\$371,374.70	(\$113,508.17)	-23%
001-019-000-594-18-63-01	Gen'l Govt-Cap Exp-City Campus Improvements	\$0.00	\$0.00	\$0.00	\$39,604.95	\$39,604.95	0%
	001-019-000-59 Total	\$0.00	\$0.00	\$0.00	\$39,604.95	\$39,604.95	0%
001-021-000-521-10-49-01	Dues & Memberships	\$270.00	\$150.00	\$270.00	\$0.00	(\$270.00)	-100%
001-021-000-521-10-52-01	Intergov. Chemical Dependency	\$2,100.00	\$2,585.47	\$2,100.00	\$2,041.85	(\$58.15)	-3%
001-021-000-521-20-21-07	L&I Volunteers	\$100.00	\$16.31	\$100.00	\$0.00	(\$100.00)	-100%
001-021-000-521-20-31-01	Office & Operational Supplies	\$150.00	\$771.04	\$150.00	\$327.01	\$177.01	118%
001-021-000-521-20-31-05	Supplies-Misc	\$0.00	\$0.00	\$0.00	\$115.55	\$115.55	0%
001-021-000-521-20-31-11	Signs	\$0.00	\$0.00	\$0.00	\$89.16	\$89.16	0%
001-021-000-521-20-35-01	Small Tools/Minor Equipment	\$150.00	\$42.24	\$150.00	\$0.00	(\$150.00)	-100%
001-021-000-521-20-42-01	Telephone Charges	\$0.00	\$150.00	\$0.00	\$0.00	\$0.00	0%
001-021-000-521-20-43-02	Lodging	\$720.00	\$557.40	\$720.00	\$0.00	(\$720.00)	-100%
001-021-000-521-20-43-04	Meals Expense	\$200.00	\$145.00	\$200.00	\$25.00	(\$175.00)	-88%
001-021-000-521-20-49-01	Memberships	\$0.00	\$0.00	\$0.00	\$320.00	\$320.00	0%
001-021-000-521-20-49-03	Registration	\$400.00	\$0.00	\$400.00	\$0.00	(\$400.00)	-100%
001-021-000-521-20-51-01	Police Services	\$1,960,615.00	\$1,859,249.95	\$2,010,095.55	\$1,507,332.78	(\$502,762.77)	-25%
001-021-000-521-20-51-02	Police Overtime	\$50,000.00	\$41,136.59	\$50,000.00	\$8,133.59	(\$41,866.41)	-84%
001-021-000-521-30-41-01	Crime Prevention-Professional Services	\$0.00	\$0.00	\$0.00	\$150.00	\$150.00	0%
001-021-000-521-40-43-01	Training/Travel Costs	\$0.00	\$150.00	\$0.00	\$0.00	\$0.00	0%
001-021-000-521-50-48-03	Facilities-Maintenance/Repairs	\$4,094.83	\$4,094.83	\$0.00	\$0.00	\$0.00	0%

001-021-000-521-70-35-01	Traffic Policing-Small Tools/Minor Equipment	\$0.00	\$0.00	\$0.00	\$1,533.11	\$1,533.11	0%
001-021-000-523-60-51-01	Jail Services	\$17,500.00	\$16,880.30	\$17,500.00	\$15,059.90	(\$2,440.10)	-14%
	001-021-000-52 Total	\$2,036,299.83	\$1,925,929.13	\$2,081,685.55	\$1,535,127.95	(\$546,557.60)	-26%
001-058-000-558-50-10-99	Allocated Labor	\$0.00	\$222,156.03	\$0.00	\$265,154.33	\$265,154.33	0%
001-058-000-558-50-11-01	Salaries and Wages	\$217,919.59	\$0.00	\$359,467.38	\$0.00	(\$359,467.38)	-100%
001-058-000-558-50-20-99	Allocated Benefits	\$0.00	\$91,130.54	\$0.00	\$127,356.80	\$127,356.80	0%
001-058-000-558-50-21-01	Medicare	\$105,374.72	\$0.00	\$181,115.74	\$0.00	(\$181,115.74)	-100%
001-058-000-558-50-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-21-05	PERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-21-07	Labor & Industries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-21-08	Unemployment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-21-10	Medical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-30-99	Allocated Goods	\$0.00	\$4,923.29	\$0.00	\$4,626.37	\$4,626.37	0%
001-058-000-558-50-31-01	Office & Operational Supplies	\$0.00	\$1,412.26	\$0.00	\$2,889.79	\$2,889.79	0%
001-058-000-558-50-31-03	Office Forms	\$0.00	\$459.91	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-31-05	Supplies-Misc	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-32-01	Fuel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-35-01	Small Tools/Minor Equipment	\$800.00	\$630.32	\$800.00	\$121.75	(\$678.25)	-85%
001-058-000-558-50-40-99	Allocated Services	\$0.00	\$119,836.38	\$0.00	\$181,718.84	\$181,718.84	0%
001-058-000-558-50-41-01	Professional Service	\$0.00	\$13,870.64	\$0.00	\$7,748.40	\$7,748.40	0%
001-058-000-558-50-41-04	Contracted Labor	\$40,000.00	\$0.00	\$40,000.00	\$0.00	(\$40,000.00)	-100%
001-058-000-558-50-42-01	Telephone Charges	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-43-01	Training/Travel Costs	\$0.00	\$2,303.99	\$0.00	\$4,989.55	\$4,989.55	0%
001-058-000-558-50-43-02	Lodging Charges	\$0.00	\$350.91	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-43-04	Meals Expense	\$0.00	\$295.08	\$0.00	\$63.18	\$63.18	0%
001-058-000-558-50-48-03	Maintenance & Repairs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-49-01	Memberships	\$1,500.00	\$290.00	\$1,500.00	\$415.00	(\$1,085.00)	-72%
001-058-000-558-50-49-03	Registration	\$500.00	\$850.00	\$500.00	\$0.00	(\$500.00)	-100%
001-058-000-558-50-49-04	Subscriptions	\$1,200.00	\$0.00	\$1,200.00	\$517.84	(\$682.16)	-57%
001-058-000-558-50-49-05	Printing & Binding	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-50-95-01	Interfund Operating Rentals	\$155,886.33	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-10-99	Allocated Labor	\$0.00	\$127,597.31	\$0.00	\$86,255.02	\$86,255.02	0%
001-058-000-558-60-11-01	Salaries and Wages	\$125,092.52	\$0.00	\$116,935.17	\$0.00	(\$116,935.17)	-100%
001-058-000-558-60-20-99	Allocated Benefits	\$0.00	\$52,341.65	\$0.00	\$41,429.32	\$41,429.32	0%
001-058-000-558-60-21-01	Medicare	\$46,316.50	\$0.00	\$58,917.17	\$0.00	(\$58,917.17)	-100%
001-058-000-558-60-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-21-05	PERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-21-07	Labor & Industries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%

001-058-000-558-60-21-08	Unemployment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-21-10	Medical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-30-99	Allocated Goods	\$0.00	\$2,827.73	\$0.00	\$1,504.96	\$1,504.96	0%
001-058-000-558-60-31-01	Office & Operational Supplies	\$0.00	\$374.78	\$0.00	\$375.84	\$375.84	0%
001-058-000-558-60-31-04	Office Publications	\$0.00	\$504.56	\$0.00	\$21.37	\$21.37	0%
001-058-000-558-60-31-05	Supplies-Misc	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-31-07	Maps	\$3,000.00	\$0.00	\$3,000.00	\$0.00	(\$3,000.00)	-100%
001-058-000-558-60-31-11	Signs	\$2,000.00	\$419.71	\$2,000.00	\$891.89	(\$1,108.11)	-55%
001-058-000-558-60-32-01	Fuel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-35-01	Small Tools/Minor Equipment	\$250.00	\$0.00	\$250.00	\$0.00	(\$250.00)	-100%
001-058-000-558-60-40-99	Allocated Services	\$0.00	\$68,829.10	\$0.00	\$59,113.36	\$59,113.36	0%
001-058-000-558-60-41-01	Reim.Engineering - Prof. Serv	\$290,000.00	\$79,923.10	\$240,000.00	\$34,744.06	(\$205,255.94)	-86%
001-058-000-558-60-41-03	Prof. Services (Non-reimbursable)	\$190,000.00	\$110,183.91	\$15,000.00	\$21,591.63	\$6,591.63	44%
001-058-000-558-60-41-08	Legal Notices/Publications	\$15,000.00	\$17,743.94	\$15,000.00	\$4,844.96	(\$10,155.04)	-68%
001-058-000-558-60-41-19	Ortho Photos	\$3,200.00	\$0.00	\$3,200.00	\$0.00	(\$3,200.00)	-100%
001-058-000-558-60-41-21	Professional Serv-Local Store Mkt Plan	\$0.00	\$0.00	\$50,000.00	\$25,000.00	(\$25,000.00)	-50%
001-058-000-558-60-41-23	Professional Serv-GMA	\$35,000.00	\$49,893.28	\$35,000.00	\$0.00	(\$35,000.00)	-100%
001-058-000-558-60-42-01	Telephone Charges	\$0.00	\$56.21	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-42-02	Postage	\$0.00	\$47.50	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-43-01	Training/Travel Costs	\$2,500.00	\$194.38	\$2,500.00	\$644.51	(\$1,855.49)	-74%
001-058-000-558-60-43-02	Lodging Charges	\$1,000.00	\$0.00	\$1,000.00	\$0.00	(\$1,000.00)	-100%
001-058-000-558-60-43-03	Mileage Reimbursement	\$600.00	\$0.00	\$600.00	\$0.00	(\$600.00)	-100%
001-058-000-558-60-43-04	Meals Expense	\$500.00	\$114.68	\$500.00	\$38.00	(\$462.00)	-92%
001-058-000-558-60-48-03	Maintenance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-49-01	Memberships	\$4,000.00	\$1,028.00	\$4,000.00	\$1,419.00	(\$2,581.00)	-65%
001-058-000-558-60-49-03	Registration	\$2,000.00	\$0.00	\$2,000.00	\$0.00	(\$2,000.00)	-100%
001-058-000-558-60-49-05	Printing & Binding	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-60-51-01	Pierce County Recording Fees	\$5,000.00	\$75.00	\$5,000.00	\$78.00	(\$4,922.00)	-98%
001-058-000-558-60-95-01	Interfund Operating Rentals	\$89,534.71	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-058-000-558-70-41-26	Economic Development Services	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-058-000-55 Total	\$1,338,174.37	\$970,664.19	\$1,139,485.46	\$873,553.77	(\$265,931.69)	-23%
001-058-000-597-50-00-99	Transfers-Central Services Allocation	\$0.00	\$0.00	\$215,196.74	\$0.00	(\$215,196.74)	-100%
001-058-000-597-60-00-99	Transfers-Central Services Allocation	\$0.00	\$0.00	\$70,003.76	\$0.00	(\$70,003.76)	-100%
	001-058-000-59 Total	\$0.00	\$0.00	\$285,200.50	\$0.00	(\$285,200.50)	-100%
001-076-000-573-90-31-01	Operational Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-10-99	Allocated Labor	\$0.00	\$61,520.13	\$0.00	\$59,899.32	\$59,899.32	0%

001-076-000-576-80-11-01	Salaries and Wages	\$59,902.00	\$0.00	\$81,204.98	\$0.00	(\$81,204.98)	-100%
001-076-000-576-80-20-99	Allocated Benefits	\$0.00	\$25,236.15	\$0.00	\$28,770.36	\$28,770.36	0%
001-076-000-576-80-21-01	Medicare	\$31,076.95	\$0.00	\$40,914.70	\$0.00	(\$40,914.70)	-100%
001-076-000-576-80-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-21-05	PERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-21-07	Labor & Industries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-21-08	Unemployment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-21-10	Medical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-30-99	Allocated Goods	\$0.00	\$1,363.37	\$0.00	\$1,045.11	\$1,045.11	0%
001-076-000-576-80-31-01	Operational Supplies	\$3,500.00	\$1,168.39	\$3,500.00	\$371.25	(\$3,128.75)	-89%
001-076-000-576-80-31-02	Recreation Activities & Events	\$2,750.00	\$76.95	\$2,750.00	\$1,569.44	(\$1,180.56)	-43%
001-076-000-576-80-31-09	Chemicals	\$500.00	\$235.90	\$500.00	\$155.22	(\$344.78)	-69%
001-076-000-576-80-31-10	Outdoor Gear	\$800.00	\$149.70	\$800.00	\$14.07	(\$785.93)	-98%
001-076-000-576-80-31-11	Signs	\$0.00	\$41.51	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-32-01	Fuel	\$1,000.00	\$355.44	\$1,000.00	\$341.60	(\$658.40)	-66%
001-076-000-576-80-35-01	Small Tools/Minor Equipment	\$1,500.00	\$2,462.18	\$1,500.00	\$126.77	(\$1,373.23)	-92%
001-076-000-576-80-35-05	Park Equipment	\$5,000.00	\$3,786.88	\$5,000.00	\$200.70	(\$4,799.30)	-96%
001-076-000-576-80-40-99	Allocated Services	\$0.00	\$33,185.46	\$0.00	\$41,050.94	\$41,050.94	0%
001-076-000-576-80-41-01	Professional Services	\$2,500.00	\$3,064.55	\$2,500.00	\$154.50	(\$2,345.50)	-94%
001-076-000-576-80-41-10	Parks Maintenance	\$0.00	\$483.56	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-42-01	Telephone Charges	\$0.00	\$199.44	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-43-01	Travel/Training Costs	\$0.00	\$0.00	\$0.00	\$649.00	\$649.00	0%
001-076-000-576-80-45-03	Operating Rentals	\$3,500.00	\$4,416.32	\$3,500.00	\$3,496.09	(\$3.91)	0%
001-076-000-576-80-47-01	Electricity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-47-03	Waste Disposal	\$0.00	\$40.92	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-48-01	Equipment Repair & Maintenance	\$1,500.00	\$3,070.89	\$1,500.00	\$0.00	(\$1,500.00)	-100%
001-076-000-576-80-48-04	Equipment Repairs	\$0.00	\$15.39	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-48-05	Maintenance-Tank Pumping	\$10,000.00	\$1,852.71	\$10,000.00	\$0.00	(\$10,000.00)	-100%
001-076-000-576-80-49-01	Memberships	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-076-000-576-80-49-03	Registration	\$1,000.00	\$0.00	\$1,000.00	\$0.00	(\$1,000.00)	-100%
001-076-000-576-80-51-03	Surface Water Fee	\$1,000.00	\$1,205.90	\$1,000.00	\$1,669.29	\$669.29	67%
001-076-000-576-80-95-01	Interfund Operating Rental	\$43,168.52	\$0.00	\$0.00	\$0.00	\$0.00	0%
	001-076-000-57 Total	\$168,697.47	\$143,931.74	\$156,669.68	\$139,513.66	(\$17,156.02)	-11%
001-076-000-597-80-00-99	Transfers-Central Services Allocation	\$0.00	\$0.00	\$48,613.72	\$0.00	(\$48,613.72)	-100%
	001-076-000-59 Total	\$0.00	\$0.00	\$48,613.72	\$0.00	(\$48,613.72)	-100%
001-086-000-586-10-00-04	State Building Code Fee	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-086-000-586-10-00-05	Animal Licenses	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
001-086-000-586-10-00-06	Fire Plan Review	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%

	001-086-000-58 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$5,177,033.21	\$6,772,732.75	\$6,347,403.67	\$3,087,335.94	(\$3,260,067.73)	-51%
005-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$1,009,635.79	\$0.00	\$0.00	\$0.00	0%
	005-000-000-50 Total	\$0.00	\$1,009,635.79	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$0.00	\$1,009,635.79	\$0.00	\$0.00	\$0.00	0%
101-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$246,074.45	\$0.00	\$0.00	\$0.00	0%
	101-000-000-50 Total	\$0.00	\$246,074.45	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-30-31-01	Roadway-Operational Supplies	\$5,000.00	\$7,663.83	\$5,000.00	\$269.66	(\$4,730.34)	-95%
101-000-000-542-30-32-01	Roadway-Fuel	\$4,000.00	\$78.33	\$4,000.00	\$0.00	(\$4,000.00)	-100%
101-000-000-542-30-35-01	Roadway-Small Tools & Minor Equipment	\$0.00	\$848.52	\$0.00	\$1,812.29	\$1,812.29	0%
101-000-000-542-30-41-04	Roadway-Contracted Labor	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-30-41-10	Roadway-Prof Svcs-Intergov Contract	\$0.00	\$287,290.05	\$0.00	\$7,796.58	\$7,796.58	0%
101-000-000-542-30-48-03	Roadway-Maintenance/Cleaning	\$1,500.00	\$0.00	\$1,500.00	\$0.00	(\$1,500.00)	-100%
101-000-000-542-30-51-03	Surface Water Charge	\$2,956.50	\$0.00	\$2,956.50	\$0.00	(\$2,956.50)	-100%
101-000-000-542-38-41-02	Roadway-Road Maint (Intergov contract)	\$400,000.00	\$7,510.42	\$400,000.00	\$1,667.41	(\$398,332.59)	-100%
101-000-000-542-40-41-02	Drainage-Prof Svcs- Contractor	\$0.00	\$4,673.50	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-63-35-01	Street Lighting-Small Tools/Minor Equipment	\$0.00	\$0.00	\$0.00	\$208.76	\$208.76	0%
101-000-000-542-63-47-01	Street Lighting-Electricity	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-64-31-01	Traffic Control Devices-Office & Operational Supplies	\$0.00	\$0.00	\$0.00	\$28.08	\$28.08	0%
101-000-000-542-64-31-10	Traffic Control Devices-School Zone Flashers	\$0.00	\$0.00	\$0.00	\$320.00	\$320.00	0%
101-000-000-542-64-31-11	Traffic Control Devices-Signs	\$0.00	\$6,646.43	\$0.00	\$6,617.67	\$6,617.67	0%
101-000-000-542-64-41-02	Traffic Control Devices-Traffic Operations (Contract)	\$35,000.00	\$71,284.25	\$35,000.00	\$2,326.73	(\$32,673.27)	-93%
101-000-000-542-64-41-19	Traffic Control Devices-Guardrails	\$15,000.00	\$29,534.65	\$15,000.00	\$15,590.20	\$590.20	4%
101-000-000-542-66-41-03	Snow & Ice Control-Prof Svcs	\$0.00	(\$1,039.63)	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-70-31-09	Roadside-Supplies- Chemicals	\$1,000.00	\$0.00	\$1,000.00	\$0.00	(\$1,000.00)	-100%
101-000-000-542-70-41-04	Roadside-ROW Veg Maint (Intergov)	\$5,800.00	\$134,812.77	\$0.00	\$1,755.15	\$1,755.15	0%
101-000-000-542-70-48-04	Roadside- ROW Veg Maint Contractor	\$10,500.00	\$16,700.14	\$16,300.00	\$8,100.06	(\$8,199.94)	-50%
101-000-000-542-90-10-99	Allocated Labor	\$0.00	\$70,001.67	\$0.00	\$78,268.45	\$78,268.45	0%
101-000-000-542-90-11-01	Admin/Overhead-Salaries and Wages	\$88,219.54	\$0.00	\$106,107.84	\$0.00	(\$106,107.84)	-100%
101-000-000-542-90-20-99	Allocated Benefits	\$0.00	\$36,919.55	\$0.00	\$37,593.27	\$37,593.27	0%
101-000-000-542-90-21-01	Admin/Overhead-Medicare	\$39,245.26	\$0.00	\$53,461.87	\$0.00	(\$53,461.87)	-100%
101-000-000-542-90-21-02	Admin/Overhead-Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%

101-000-000-542-90-21-05	Admin/Overhead-PERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-90-21-07	Admin/Overhead-Labor & Industries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-90-21-08	Admin/Overhead-Unemployment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-90-21-10	Admin/Overhead-Medical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-90-30-99	Allocated Goods	\$0.00	\$1,994.56	\$0.00	\$1,365.62	\$1,365.62	0%
101-000-000-542-90-31-01	Admin/Overhead-Office Supplies	\$0.00	\$0.00	\$0.00	\$12.00	\$12.00	0%
101-000-000-542-90-31-10	Admin/Overhead-Outdoor Gear	\$300.00	\$0.00	\$300.00	\$35.10	(\$264.90)	-88%
101-000-000-542-90-35-01	Admin/Overhead-Small Tools & Minor Equipment	\$1,000.00	\$122.34	\$1,000.00	\$306.93	(\$693.07)	-69%
101-000-000-542-90-40-99	Allocated Services	\$0.00	\$48,549.10	\$0.00	\$53,639.90	\$53,639.90	0%
101-000-000-542-90-42-01	Admin/Overhead-Telephone	\$750.00	\$199.44	\$750.00	\$0.00	(\$750.00)	-100%
101-000-000-542-90-43-01	Travel/Training Costs	\$0.00	\$0.00	\$1,000.00	\$1,120.00	\$120.00	12%
101-000-000-542-90-43-03	Admin/Overhead-Mileage Reimbursement	\$150.00	\$897.38	\$150.00	\$702.63	\$552.63	368%
101-000-000-542-90-49-01	Admin/Overhead-Memberships	\$2,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
101-000-000-542-90-49-09	Miscellaneous	\$0.00	\$0.00	\$1,000.00	\$0.00	(\$1,000.00)	-100%
101-000-000-542-90-94-01	Interfund Operating Rental	\$63,153.95	\$0.00	\$0.00	\$0.00	\$0.00	0%
	101-000-000-54 Total	\$675,575.25	\$724,687.30	\$644,526.21	\$219,536.49	(\$424,989.72)	-66%
101-000-000-597-00-00-99	Transfers-Central Services Allocation	\$0.00	\$0.00	\$63,521.93	\$0.00	(\$63,521.93)	-100%
	101-000-000-59 Total	\$0.00	\$0.00	\$63,521.93	\$0.00	(\$63,521.93)	-100%
	Fund Total	\$675,575.25	\$970,761.75	\$708,048.14	\$219,536.49	(\$488,511.65)	-69%
110-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$1,329,334.38	\$0.00	\$0.00	\$0.00	0%
	110-000-000-50 Total	\$0.00	\$1,329,334.38	\$0.00	\$0.00	\$0.00	0%
110-000-000-597-00-00-01	Oper. Trn. - General Fund (Park Plan)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
110-000-000-597-00-00-04	Oper. Trn. - Capital Parks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	110-000-000-59 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$0.00	\$1,329,334.38	\$0.00	\$0.00	\$0.00	0%
111-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$1,212,078.39	\$0.00	\$0.00	\$0.00	0%
	111-000-000-50 Total	\$0.00	\$1,212,078.39	\$0.00	\$0.00	\$0.00	0%
111-000-000-597-00-00-01	Oper. Trn. - General Fund TIF Admin Fee	\$13,744.00	\$0.00	\$13,744.00	\$0.00	(\$13,744.00)	-100%
111-000-000-597-00-00-05	Transfer Out - Fund 341	\$0.00	\$0.00	\$150,000.00	\$0.00	(\$150,000.00)	-100%
	111-000-000-59 Total	\$13,744.00	\$0.00	\$163,744.00	\$0.00	(\$163,744.00)	-100%
	Fund Total	\$13,744.00	\$1,212,078.39	\$163,744.00	\$0.00	(\$163,744.00)	-100%
130-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$204,548.52	\$0.00	\$0.00	\$0.00	0%
	130-000-000-50 Total	\$0.00	\$204,548.52	\$0.00	\$0.00	\$0.00	0%
130-000-000-597-00-00-10	Oper Trans - Civic Center Bond	\$268,690.00	\$268,690.00	\$359,895.00	\$0.00	(\$359,895.00)	-100%
130-000-000-597-00-00-11	Oper Trans - GG Facilities	\$0.00	\$0.00	\$97,539.00	\$0.00	(\$97,539.00)	-100%

	130-000-000-59 Total	\$268,690.00	\$268,690.00	\$457,434.00	\$0.00	(\$457,434.00)	-100%
	Fund Total	\$268,690.00	\$473,238.52	\$457,434.00	\$0.00	(\$457,434.00)	-100%
132-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$274,647.13	\$0.00	\$0.00	\$0.00	0%
	132-000-000-50 Total	\$0.00	\$274,647.13	\$0.00	\$0.00	\$0.00	0%
132-000-000-597-00-00-03	Oper. Trn. - Street Fund	\$244,000.00	\$220,000.00	\$250,000.00	\$0.00	(\$250,000.00)	-100%
132-000-000-597-00-00-04	Transfer Out - Fund 341 Cap Roads	\$0.00	\$24,000.00	\$222,461.00	\$0.00	(\$222,461.00)	-100%
132-000-000-597-00-00-05	Trans Out - Sewer Fund	\$0.00	\$0.00	\$53,856.00	\$0.00	(\$53,856.00)	-100%
	132-000-000-59 Total	\$244,000.00	\$244,000.00	\$526,317.00	\$0.00	(\$526,317.00)	-100%
	Fund Total	\$244,000.00	\$518,647.13	\$526,317.00	\$0.00	(\$526,317.00)	-100%
201-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$29,239.47	\$0.00	\$0.00	\$0.00	0%
	201-000-000-50 Total	\$0.00	\$29,239.47	\$0.00	\$0.00	\$0.00	0%
201-000-000-591-18-71-01	Bond Repayment - Principal	\$260,000.00	\$303,608.54	\$348,080.00	\$0.00	(\$348,080.00)	-100%
201-000-000-592-18-83-01	Interest on Bonds	\$141,920.00	\$79,795.31	\$141,920.00	\$34,081.53	(\$107,838.47)	-76%
	201-000-000-59 Total	\$401,920.00	\$383,403.85	\$490,000.00	\$34,081.53	(\$455,918.47)	-93%
	Fund Total	\$401,920.00	\$412,643.32	\$490,000.00	\$34,081.53	(\$455,918.47)	-93%
310-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$109,707.62	\$0.00	\$0.00	\$0.00	0%
	310-000-000-50 Total	\$0.00	\$109,707.62	\$0.00	\$0.00	\$0.00	0%
310-000-000-594-76-41-03	Professional Svs.-Property	\$42,500.00	\$10,301.74	\$0.00	\$0.00	\$0.00	0%
310-000-000-594-76-62-06	Park Equipment	\$25,000.00	\$856.30	\$25,000.00	\$0.00	(\$25,000.00)	-100%
310-000-000-594-76-63-01	Park Improvements	\$50,000.00	\$35,979.06	\$10,000.00	\$1,338.75	(\$8,661.25)	-87%
310-000-000-594-76-63-02	Improvements - Nelson Farm	\$25,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
310-000-000-594-76-63-04	Interurban Trail Phase III	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
310-000-000-594-76-63-05	Improvements - Mort Farm Passive Park	\$0.00	\$154.50	\$0.00	\$0.00	\$0.00	0%
	310-000-000-59 Total	\$142,500.00	\$47,291.60	\$35,000.00	\$1,338.75	(\$33,661.25)	-96%
	Fund Total	\$142,500.00	\$156,999.22	\$35,000.00	\$1,338.75	(\$33,661.25)	-96%
340-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$30,944.72	\$0.00	\$0.00	\$0.00	0%
	340-000-000-50 Total	\$0.00	\$30,944.72	\$0.00	\$0.00	\$0.00	0%
340-000-000-581-20-00-01	Interfund Loan Repayment	\$400,000.00	\$400,000.00	\$0.00	\$0.00	\$0.00	0%
	340-000-000-58 Total	\$400,000.00	\$400,000.00	\$0.00	\$0.00	\$0.00	0%
340-000-000-591-35-78-02	Principal PWTF Loan Payment	\$0.00	\$13,186.93	\$0.00	\$13,186.93	\$13,186.93	0%
340-000-000-591-95-72-01	Interest PWTF Loan Payment	\$0.00	\$494.51	\$0.00	\$461.54	\$461.54	0%
340-000-000-591-95-72-02	Interfund Loan Interest	\$692.71	\$692.71	\$0.00	\$0.00	\$0.00	0%
340-000-000-595-10-41-03	Design Eng - Meridian Overlay	\$20,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
340-000-000-595-10-41-04	Design Eng - Jovita Overlay	\$15,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
340-000-000-595-10-41-06	Public Works Facility Acquisition	\$0.00	\$0.00	\$250,000.00	\$270,595.93	\$20,595.93	8%
340-000-000-595-10-63-01	Capital Improvements-Engineering	\$0.00	\$4,996.25	\$15,000.00	\$11,497.93	(\$3,502.07)	-23%
340-000-000-595-30-63-03	Improvements - Other	\$0.00	\$10,000.00	\$0.00	\$12,429.64	\$12,429.64	0%

340-000-000-595-30-63-04	Edgewood Drive Improvements	\$0.00	\$0.00	\$150,000.00	\$250.00	(\$149,750.00)	-100%
340-000-000-595-60-63-01	Pedestrian Safety Improvements	\$0.00	\$0.00	\$60,000.00	\$4,385.00	(\$55,615.00)	-93%
340-000-000-595-63-63-01	Improvements-Street Lighting	\$0.00	\$0.00	\$0.00	\$15,602.83	\$15,602.83	0%
340-000-000-595-64-63-01	Traffic Control Devices-Other Improvements	\$0.00	\$0.00	\$0.00	\$117.65	\$117.65	0%
340-000-000-595-80-41-01	STPUL HLP 3290(010) Jovita Seismic Walls Design	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
340-000-000-595-80-41-02	STPUL HLP 3290(010) Jovita Seismic Walls Construction Mgmt	\$0.00	\$6,464.60	\$0.00	\$0.00	\$0.00	0%
340-000-000-595-80-63-01	STPUL HLP 3290(010) Jovita Seismic Walls Construction	\$0.00	\$4,250.00	\$0.00	\$0.00	\$0.00	0%
	340-000-000-59 Total	\$35,692.71	\$40,085.00	\$475,000.00	\$328,527.45	(\$146,472.55)	-31%
	Fund Total	\$435,692.71	\$471,029.72	\$475,000.00	\$328,527.45	(\$146,472.55)	-31%
341-000-000-508-10-00-01	Ending Reserve Fund Balance	\$0.00	\$250,000.00	\$0.00	\$0.00	\$0.00	0%
	341-000-000-50 Total	\$0.00	\$250,000.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$0.00	\$250,000.00	\$0.00	\$0.00	\$0.00	0%
350-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$1,810.59	\$0.00	\$0.00	\$0.00	0%
	350-000-000-50 Total	\$0.00	\$1,810.59	\$0.00	\$0.00	\$0.00	0%
350-000-000-591-95-78-02	PWTF Principal	\$0.00	\$0.00	\$13,186.93	\$0.00	(\$13,186.93)	-100%
350-000-000-592-95-82-01	Interfund Loan Interest	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
350-000-000-592-95-83-02	PWTF Interest	\$527.48	\$0.00	\$527.48	\$0.00	(\$527.48)	-100%
	350-000-000-59 Total	\$527.48	\$0.00	\$13,714.41	\$0.00	(\$13,714.41)	-100%
	Fund Total	\$527.48	\$1,810.59	\$13,714.41	\$0.00	(\$13,714.41)	-100%
401-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$60,361.11	\$0.00	\$0.00	\$0.00	0%
	401-000-000-50 Total	\$0.00	\$60,361.11	\$0.00	\$0.00	\$0.00	0%
401-000-000-535-10-41-01	Professional Services	\$0.00	\$0.00	\$53,856.00	\$0.00	(\$53,856.00)	-100%
401-000-000-535-10-41-51	State Taxes	\$0.00	\$0.00	\$0.00	\$1,236.16	\$1,236.16	0%
	401-000-000-53 Total	\$0.00	\$0.00	\$53,856.00	\$1,236.16	(\$52,619.84)	-98%
401-000-000-589-90-00-00	Nonexpenditure Suspense	\$0.00	\$4,110.14	\$0.00	\$0.00	\$0.00	0%
	401-000-000-58 Total	\$0.00	\$4,110.14	\$0.00	\$0.00	\$0.00	0%
401-000-000-594-35-63-04	Improvements - Lift Station	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
401-000-000-594-35-63-05	Improvements - Northwood School Mitigation	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
401-000-000-597-00-00-02	Transfer Out - Civic Center Bond	\$123.00	\$123.00	\$123.00	\$0.00	(\$123.00)	-100%
	401-000-000-59 Total	\$40,123.00	\$123.00	\$123.00	\$0.00	(\$123.00)	-100%
	Fund Total	\$40,123.00	\$64,594.25	\$53,979.00	\$1,236.16	(\$52,742.84)	-98%
410-000-000-508-10-00-01	Ending Reserve Fund Balance	\$0.00	\$145,403.41	\$0.00	\$0.00	\$0.00	0%
	410-000-000-50 Total	\$0.00	\$145,403.41	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-00-10-99	Allocated Labor	\$0.00	\$208,484.89	\$0.00	\$138,966.42	\$138,966.42	0%
410-000-000-531-00-20-99	Allocated Benefits	\$0.00	\$85,522.51	\$0.00	\$66,747.24	\$66,747.24	0%

410-000-000-531-00-30-99	Allocated Goods	\$0.00	\$4,620.32	\$0.00	\$2,424.66	\$2,424.66	0%
410-000-000-531-00-40-99	Allocated Services	\$0.00	\$112,461.83	\$0.00	\$95,238.19	\$95,238.19	0%
410-000-000-531-38-11-01	Salaries and Wages	\$204,934.17	\$0.00	\$188,395.56	\$0.00	(\$188,395.56)	-100%
410-000-000-531-38-21-01	Medicare	\$95,606.60	\$0.00	\$94,922.10	\$0.00	(\$94,922.10)	-100%
410-000-000-531-38-21-02	Social Security Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-21-05	PERS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-21-07	Labor & Industries	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-21-08	Unemployment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-21-10	Medical	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-31-01	Operational Supplies	\$2,000.00	\$1,982.17	\$2,000.00	\$1,136.75	(\$863.25)	-43%
410-000-000-531-38-31-09	Chemicals	\$1,000.00	\$5,166.21	\$6,000.00	\$0.00	(\$6,000.00)	-100%
410-000-000-531-38-31-10	Outdoor Gear	\$500.00	\$92.20	\$500.00	\$117.46	(\$382.54)	-77%
410-000-000-531-38-32-01	Fuel	\$1,000.00	\$0.00	\$1,000.00	\$0.00	(\$1,000.00)	-100%
410-000-000-531-38-35-04	Software - Computer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-35-05	Equipment - Surface Water	\$1,000.00	\$1,740.53	\$2,000.00	\$9,245.89	\$7,245.89	362%
410-000-000-531-38-41-01	Professional Service	\$15,000.00	\$9,824.19	\$15,000.00	\$4,360.71	(\$10,639.29)	-71%
410-000-000-531-38-41-02	Prof. Service-Plan Update	\$120,000.00	\$140,627.97	\$15,000.00	\$46,001.57	\$31,001.57	207%
410-000-000-531-38-41-03	Professional Service - SR161	\$7,500.00	\$0.00	\$2,000.00	\$0.00	(\$2,000.00)	-100%
410-000-000-531-38-41-04	Storm Drainage-Ponds Maint	\$25,000.00	\$6,101.80	\$10,000.00	\$0.00	(\$10,000.00)	-100%
410-000-000-531-38-41-05	Storm Drainage-Erosion Maint	\$0.00	\$2,427.33	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-41-06	Storm Drainage-ROW Veg Maint	\$0.00	\$53,752.50	\$0.00	\$49,538.37	\$49,538.37	0%
410-000-000-531-38-41-07	Storm Drainage-Polution Control	\$2,500.00	\$19,050.50	\$25,000.00	\$1,821.55	(\$23,178.45)	-93%
410-000-000-531-38-41-10	Storm Drainage-Ditch Maint	\$150,000.00	\$111,553.12	\$120,000.00	\$142,159.66	\$22,159.66	18%
410-000-000-531-38-41-12	Storm Drainage-Drain Maint	\$250,000.00	\$43,102.78	\$120,000.00	\$4,410.20	(\$115,589.80)	-96%
410-000-000-531-38-41-13	Storm Drainage-Structure Maint	\$151,074.48	\$395,096.40	\$200,000.00	\$50,801.91	(\$149,198.09)	-75%
410-000-000-531-38-42-01	Telephone Charges	\$0.00	\$166.21	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-43-01	Training/Travel Costs	\$2,000.00	\$379.73	\$1,500.00	\$587.88	(\$912.12)	-61%
410-000-000-531-38-43-02	Professional Licenses & Certification	\$0.00	\$116.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-43-03	Mileage Reimbursement	\$500.00	\$2,254.37	\$0.00	\$1,235.16	\$1,235.16	0%
410-000-000-531-38-45-03	Operating Rentals	\$0.00	\$478.06	\$0.00	\$0.00	\$0.00	0%
410-000-000-531-38-47-01	Dump Site Fees	\$500.00	\$0.00	\$500.00	\$0.00	(\$500.00)	-100%
410-000-000-531-38-48-01	Repair & Maintenance Costs	\$750.00	\$0.00	\$750.00	\$0.00	(\$750.00)	-100%
410-000-000-531-38-48-04	Equipment Repairs	\$500.00	\$0.00	\$500.00	\$0.00	(\$500.00)	-100%
410-000-000-531-38-49-01	Memberships	\$500.00	\$370.00	\$500.00	\$799.00	\$299.00	60%
410-000-000-531-38-49-02	Non NPDES Permit Fees	\$14,000.00	\$6,779.00	\$6,650.00	\$6,629.00	(\$21.00)	0%
410-000-000-531-38-49-09	Misc. Fees & Charges	\$1,000.00	\$824.58	\$500.00	\$1,366.11	\$866.11	173%
410-000-000-531-38-51-02	Storm Drainage-NPDES Permit Fees-Intergov	\$6,500.00	\$7,122.15	\$7,600.00	\$4,088.79	(\$3,511.21)	-46%
410-000-000-531-38-94-01	Interfund Operating Rental	\$146,293.32	\$0.00	\$0.00	\$0.00	\$0.00	0%

	410-000-000-53 Total	\$1,199,658.57	\$1,220,097.35	\$820,317.66	\$627,676.52	(\$192,641.14)	-23%
410-000-000-594-31-61-01	Land	\$0.00	\$1,100.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-594-31-63-07	Land Impr-Jovita Rehab/Seismic Walls	\$0.00	\$3,250.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-594-31-64-04	Equipment	\$335,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-594-31-64-60	Land Impr-Closed Depression Basin Plan	\$0.00	\$9,135.90	\$0.00	\$0.00	\$0.00	0%
410-000-000-594-31-64-64	Infrastructure Spot Improvement	\$0.00	\$29,056.71	\$0.00	\$0.00	\$0.00	0%
410-000-000-597-00-00-02	Transfer Out - Civic Center Bond	\$12,044.00	\$12,044.00	\$12,044.00	\$0.00	(\$12,044.00)	-100%
410-000-000-597-00-00-09	Transfer to CP-Parks	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
410-000-000-597-00-00-99	Transfers-Central Services Allocation	\$0.00	\$0.00	\$112,783.83	\$0.00	(\$112,783.83)	-100%
	410-000-000-59 Total	\$347,044.00	\$54,586.61	\$124,827.83	\$0.00	(\$124,827.83)	-100%
	Fund Total	\$1,546,702.57	\$1,420,087.37	\$945,145.49	\$627,676.52	(\$317,468.97)	-34%
411-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$609,099.73	\$0.00	\$0.00	\$0.00	0%
	411-000-000-50 Total	\$0.00	\$609,099.73	\$0.00	\$0.00	\$0.00	0%
411-000-000-515-41-41-02	Legal Services	\$15,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	411-000-000-51 Total	\$15,000.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
411-000-000-535-10-41-01	Professional Services	\$6,000.00	\$6,557.24	\$6,000.00	\$4,072.04	(\$1,927.96)	-32%
	411-000-000-53 Total	\$6,000.00	\$6,557.24	\$6,000.00	\$4,072.04	(\$1,927.96)	-32%
411-000-000-591-35-71-01	USDA-RD GO Principal Payments	\$2,524,080.20	\$2,445,123.20	\$78,957.00	\$0.00	(\$78,957.00)	-100%
411-000-000-591-35-73-01	USDA-RD LID Principal Payments	\$1,494,251.00	\$1,514,020.00	\$494,251.00	\$0.00	(\$494,251.00)	-100%
411-000-000-591-35-78-01	Principal USDA/RD Loan Payment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
411-000-000-591-35-78-02	Principal PWTF Loan Payment	\$29,411.76	\$29,411.76	\$29,411.76	\$29,411.77	\$0.01	0%
411-000-000-592-35-83-02	Interest PWTF Loan Payment	\$1,912.00	\$1,764.71	\$1,912.00	\$1,617.65	(\$294.35)	-15%
411-000-000-592-35-83-03	USDA/RD Loan Interest Payment	\$607,953.00	\$546,439.86	\$607,953.00	\$0.00	(\$607,953.00)	-100%
411-000-000-597-00-00-02	Transfer Out - LID Bond Reserve	\$118,116.00	\$118,116.00	\$0.00	\$0.00	\$0.00	0%
	411-000-000-59 Total	\$4,775,723.96	\$4,654,875.53	\$1,212,484.76	\$31,029.42	(\$1,181,455.34)	-97%
	Fund Total	\$4,796,723.96	\$5,270,532.50	\$1,218,484.76	\$35,101.46	(\$1,183,383.30)	-97%
412-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$354,348.00	\$118,116.00	\$0.00	(\$118,116.00)	-100%
	412-000-000-50 Total	\$0.00	\$354,348.00	\$118,116.00	\$0.00	(\$118,116.00)	-100%
	Fund Total	\$0.00	\$354,348.00	\$118,116.00	\$0.00	(\$118,116.00)	-100%
501-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$60,478.03	\$0.00	\$0.00	\$0.00	0%
	501-000-000-50 Total	\$0.00	\$60,478.03	\$0.00	\$0.00	\$0.00	0%
501-000-000-591-59-75-02	Security, Communication Upgrades	\$0.00	\$5,222.93	\$200,000.00	\$81,608.33	(\$118,391.67)	-59%
501-000-000-591-59-75-03	City Equipment	\$0.00	\$5,828.25	\$40,797.00	\$7,586.27	(\$33,210.73)	-81%
	501-000-000-59 Total	\$0.00	\$11,051.18	\$240,797.00	\$89,194.60	(\$151,602.40)	-63%
	Fund Total	\$0.00	\$71,529.21	\$240,797.00	\$89,194.60	(\$151,602.40)	-63%

630-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	0%
	630-000-000-50 Total	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	0%
630-000-000-542-30-51-01	Road/Street Intergovernmental Services	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
630-000-000-542-90-41-01	Legal Fees	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
630-000-000-542-90-46-50	WCIA Insurance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
630-000-000-544-70-51-00	Road/Street Op-Misc. Intergovernment/Ciy Reimbursement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
630-000-000-544-90-41-00	Legal Services	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
630-000-000-544-90-49-00	Bank Fees	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	630-000-000-54 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$0.00	\$0.02	\$0.00	\$0.00	\$0.00	0%
640-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$166,930.33	\$0.00	\$0.00	\$0.00	0%
	640-000-000-50 Total	\$0.00	\$166,930.33	\$0.00	\$0.00	\$0.00	0%
640-000-000-589-10-00-01	Assignment of Funds-Deposits in Lieu of Bond	\$0.00	\$128,407.03	\$0.00	\$79,429.84	\$79,429.84	0%
	640-000-000-58 Total	\$0.00	\$128,407.03	\$0.00	\$79,429.84	\$79,429.84	0%
	Fund Total	\$0.00	\$295,337.36	\$0.00	\$79,429.84	\$79,429.84	0%
642-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
	642-000-000-50 Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0%
642-000-000-589-10-00-02	Retainage-Contractor	\$0.00	\$46,080.25	\$0.00	\$0.00	\$0.00	0%
	642-000-000-58 Total	\$0.00	\$46,080.25	\$0.00	\$0.00	\$0.00	0%
	Fund Total	\$0.00	\$46,080.25	\$0.00	\$0.00	\$0.00	0%
650-000-000-508-10-00-01	Ending Reserved Fund Balance	\$0.00	\$735.77	\$0.00	\$0.00	\$0.00	0%
	650-000-000-50 Total	\$0.00	\$735.77	\$0.00	\$0.00	\$0.00	0%
650-000-000-589-10-00-04	State Bldg Code Fee	\$0.00	\$1,178.50	\$0.00	\$917.00	\$917.00	0%
650-000-000-589-10-00-05	Animal Licenses	\$0.00	\$3,449.00	\$0.00	\$1,758.00	\$1,758.00	0%
650-000-000-589-10-00-06	Fire Plan Review	\$0.00	\$29,500.31	\$0.00	\$14,150.12	\$14,150.12	0%
650-000-000-589-10-00-09	Suspense	\$0.00	\$52.84	\$0.00	\$1,236.97	\$1,236.97	0%
	650-000-000-58 Total	\$0.00	\$34,180.65	\$0.00	\$18,062.09	\$18,062.09	0%
	Fund Total	\$0.00	\$34,916.42	\$0.00	\$18,062.09	\$18,062.09	0%
	Grand Total	\$13,743,232.18	\$21,136,336.94	\$11,793,183.47	\$4,521,520.83	(\$7,271,662.64)	-62%



City Of Edgewood Council Agenda Summary Sheet

SUBJECT: 2019 Annual Budget Ordinance		Agenda Item #: 2D	
		For Agenda of: December 4, 2018	
		Prepared by: Dave Gray	
ATTACHMENTS (list): ☒ DRAFT Ordinance - 2019 Annual Budget Ordinance ☒ Exhibit A 2019 Authorized Salary Schedule			
Approval of Materials:			
Mayor, Daryl Eidinger	☒	Expenditure Required:	\$31,922,343
Asst. City Administrator, Dave Gray	☒	Amount Budgeted:	\$31,922,343
City Attorney, Carol Morris	☒	Appropriation Required:	\$31,922,343
City Clerk, Rachel Pitzel	☒	Timeline: 1st Public Hearing 11/13/18 2nd Public Hearing 11/27/18 RCM Council Action 12/11/18	
Community Development Director, Darren Groth	☒		
Public Works, Jeremy Metzler	☒		
Police Chief, Micah Lundborg	☒		
Fiscal Note/Consideration: The Mayor respectfully submits for Council action, the 2019 Fiscal Budget Ordinance itemizing total appropriations by individual fund in the sum total of \$31,922,343. The ordinance details the not to exceed amounts by fund. Budget amendments, submitted via ordinance for Council review and action, throughout the 2019 fiscal year, are required to modify any expenditures in excess of this budget ordinance.			
SUMMARY STATEMENT: Annually the Mayor prepares a fiscal year budget for review by Council in numerous study sessions and presented to the public in two public hearing, inviting participation by members of the community in how public funds are expended. The appropriations by fund are detailed in various forms. The lowest level is a line item detail, showing specific revenues and expenditures for all activities utilizing public funds for the provision of goods, services and capital improvements segmented into operational departments. The next level up is what the Council has termed the "Waterfall Model", which shows the cash flows from beginning fund balance, annual revenues and expenditures by fund segment, and anticipated ending fund balance. The third level up, which will be produced for the first time with the publication of the 2019 Annual Budget, is the Budget in Brief. This is designed specifically for the public to readily visualize all City sources and uses of public funding to provide city services and maintain city assets and infrastructure. All three levels of documentation are made available via the City web page, can be downloaded, and are available for review at City Hall during regular business hours. Every other year the Washington State Auditor's Office performs an in-depth review of all financial activity within the City, including financial transactions and financial controls and processes, issuing an annual audit and accountability report. These reports are available on-line at the State Auditors web page, which may be accessed through the City web page, and are available for review at City Hall during regular business hours.			
COUNCIL COMMITTEE REVIEW AND RECOMMENDATION:			
RECOMMENDED ACTION: Request the Mayor present the final 2019 Budget Ordinance for review and action at the December 11 th Regular Council Meeting. ALTERNATIVES TO RECOMMENDED ACTION: 1) Do not adopt 2) Forward to Study Session for further review			

ORDINANCE NO. 18-0XXX

**AN ORDINANCE OF THE CITY OF EDGEWOOD,
WASHINGTON, ADOPTING THE BUDGET AND
SALARY SCHEDULE FOR THE 2019 FISCAL YEAR**

WHEREAS State law, Chapter 35A.33 RCW, requires the City of Edgewood adopt an annual budget and provides procedures for such; and

WHEREAS a preliminary budget for the fiscal year 2019 has been prepared and filed in the Office of the City Clerk for the City of Edgewood; and

WHEREAS the City Council of the City of Edgewood held public hearings on November 13th and November 27, 2018 regarding the proposed budget and revenues and has deliberated and made adjustments and changes deemed necessary and proper;

**NOW THEREFORE THE CITY COUNCIL OF THE CITY OF EDGEWOOD,
WASHINGTON, DOES ORDAIN AS FOLLOWS:**

Section1. 2018 Budget Adoption and Funds Appropriated. The 2019 Annual Budget for the City of Edgewood, Washington, on file in the Office of the City Clerk, covering the period of January 1, 2019 through December 31, 2019, with regular revenues and unencumbered fund balances of \$31,922,343 and expenditures and ending fund balances of \$31,922,343, is hereby approved and adopted. The respective amounts for the several funds of the City of Edgewood are hereby fixed and adopted as follows:

General Fund (001)	\$11,183,426
Street Fund (101)	\$1,036,590
Strategic Reserve Fund (005)	\$1,361,529
Park Impact Fee Fund (110)	\$3,874,558
Traffic Mitigation Impact Fund (111)	\$5,353,580
Municipal Capital Reserve— REET1 Fund (130)	\$660,116
Municipal Capital Reserve — REET2 Fund (132)	\$715,187
Civic Center Bond Fund (201)	\$431,410
Capital Parks Fund (310)	\$413,369
Capital Roads Fund (340)	\$666,644
Capital Roads TIB Fund (350)	\$251,811
Sewer Utility Fund (401)	\$214,220
Surface Water Fund (410)	\$1,355,214
Temporary LID Fund (411)	\$3,520,806
LID Bond Reserve Fund (412)	\$595,306
ER&R Fund (501)	<u>\$288,577</u>
Total	<u>\$31,922,343</u>

Section 2. 2019 Salary Schedule. The 2019 Salary Schedule for authorized positions, attached hereto as Exhibit A of this Ordinance, is hereby adopted by reference.

Section 3. Transmittal. The City Clerk is hereby authorized and directed to transmit a certified copy of this ordinance to the Association of Washington Cities, the Auditor of the State of Washington, and Municipal Research Services Center.

Section 4. Severability. Should any section, paragraph, sentence, clause, or phrase of this ordinance, or its application to any person or circumstance, be declared unconstitutional or otherwise invalid for any reason, or should any portion of this ordinance be preempted by state or federal law or regulation, such decision or preemption shall not affect the validity of the remaining portions of this ordinance or its application to other persons or circumstances.

Section 5. Effective Date. A summary of this ordinance shall be published in the official newspaper of the City and this ordinance shall take effect and be in full force five (5) days after the date of publication.

Presented to Council for Public Hearing on November 13, 2018

Presented to Council at a Public Hearing on November 27, 2018

**ADOPTED BY THE CITY COUNCIL OF THE CITY OF EDGEWOOD
THIS 11th DAY OF DECEMBER, 2018**

Mayor Daryl Eiding

ATTEST/AUTHENTICATED:

City Clerk Rachel Pitzel

APPROVED AS TO FORM:

City Attorney Carol Morris

Date of Publication: *December 13, 2018*

Effective Date: *December 18, 2018*

EXHIBIT "A"						
2019						
CITY OF EDGEWOOD						
SALARY RANGE PLAN						
ORDINANCE 18-XXXX 2019 BUDGET						
2018 Wage Rate, AWC Comp Adjusted plus 2.3% as the 2019 COLA						
FULL TIME CLASSIFICATIONS:		2019 Monthly Wage Range				
	Job Title	Step 1	Step 2	Step 3	Step 4	Step 5
FT-19-01	Administrative Assistant	\$4,122	\$4,263	\$4,403	\$4,544	\$4,684
FT-19-02	Communications Coordinator/Deputy Clerk	\$4,739	\$4,900	\$5,062	\$5,224	\$5,385
FT-19-02	Permit Coordinator	\$4,739	\$4,900	\$5,062	\$5,224	\$5,385
FT-19-02	Public Works Maintenance Tech	\$4,739	\$4,900	\$5,062	\$5,224	\$5,385
FT-19-02	Accounting Tech	\$4,739	\$4,900	\$5,062	\$5,224	\$5,385
FT-19-03	Public Works Maintenance Tech II	\$4,941	\$5,109	\$5,277	\$5,446	\$5,614
FT-19-04	Planning Technician	\$5,171	\$5,347	\$5,524	\$5,700	\$5,876
FT-19-05	ROW Inspector	\$5,171	\$5,347	\$5,524	\$5,700	\$5,876
FT-19-06	Engineering Tech	\$5,611	\$5,802	\$5,994	\$6,185	\$6,376
FT-19-07	Associate Planner	\$5,780	\$5,978	\$6,175	\$6,372	\$6,569
FT-19-07	Code Compliance Specialist	\$5,780	\$5,978	\$6,175	\$6,372	\$6,569
FT-19-08	Combination Inspector	\$6,238	\$6,450	\$6,663	\$6,876	\$7,088
FT-19-09	Accounting Manager	\$6,729	\$6,959	\$7,188	\$7,418	\$7,647
FT-19-09	Office Manager	\$6,729	\$6,959	\$7,188	\$7,418	\$7,647
FT-19-09	Building Inspector/Plans Examiner	\$6,729	\$6,959	\$7,188	\$7,418	\$7,647
FT-19-10	Senior Planner	\$6,974	\$7,212	\$7,450	\$7,687	\$7,925
FT-19-11	Building Official	\$7,783	\$8,048	\$8,313	\$8,579	\$8,844
FT-19-12	Senior Engineer	\$7,916	\$8,186	\$8,456	\$8,725	\$8,995
FT-19-13	Public Works Superintendent	\$8,109	\$8,386	\$8,662	\$8,939	\$9,215
FT-19-14	City Clerk/ HR Director	\$8,764	\$9,063	\$9,361	\$9,660	\$9,959
FT-19-14	Public Works Director, PE	\$8,764	\$9,063	\$9,361	\$9,660	\$9,959
FT-19-14	Community Development Director	\$8,764	\$9,063	\$9,361	\$9,660	\$9,959
FT-19-14	Finance Director	\$8,764	\$9,063	\$9,361	\$9,660	\$9,959
FT-19-15	Assistant City Administrator	\$9,523	\$9,847	\$10,172	\$10,497	\$10,821
All Steps are 3% lower than the higher step. All Comparables are at step 5 (AWC averages are step 5).						
All Hourly Compensation Rates are based upon the Monthly Rate Divided by 173.33 Hours.						



City Of Edgewood Council Agenda Summary Sheet

SUBJECT: Comprehensive Surface Water Management Plan Update		Agenda Item #:		2E
		For Agenda of:		December 4, 2018
		Prepared by:		Jeremy Metzler
ATTACHMENTS (list): ☒ Ordinance 18-0527 ☒ Final SWMP				
Approval of Materials:				
Mayor, Daryl Eidinger	☒	Expenditure Required:	N/A	
Asst. City Administrator, Dave Gray	☒	Amount Budgeted:	N/A	
City Attorney, Carol Morris	☒	Appropriation Required:	N/A	
City Clerk, Rachel Pitzel	☒	Timeline: Council Action – December 11, 2018		
Community Development Director, Darren Groth	☒			
Public Works, Jeremy Metzler	☒			
Fiscal Note/Consideration: The Surface Water Management Plan (SWMP) Update is fully paid for with Surface Water Utility Funds.				
SUMMARY STATEMENT: Staff reviewed the SWMP Update and recommended revisions with City Council, Mt. View – Edgewood Water Company, the public, other regulatory agencies and the Planning Commission over the past several months, soliciting comment, objections, preferences and general stakeholder direction. Council requested revisions to the final draft SWMP at the September 4, 2018 study session, including removal of Underground Injection Control (UIC) capital projects. A contract amendment was authorized by Council on October 9, 2018 to complete these revisions, Herrera has now completed the contracted work, and attached is the final document for Council consideration. Included in the attached document is the final Financial Analysis from FCS Group (SWMP Appendix E). As presented to Council at the May 1, 2018 Study Session by FCS Group, existing Surface Water Rates do not adequately cover ongoing operations and maintenance costs and do not fund any level of capital improvements. There is an analysis of what a System Development Charge (SDC) may look like. If desired, a SDC would provide equity between existing and new customers, and would serve to provide an equitable source of capital funding (beyond user rates). Considering the revisions to the capital improvement plan and anticipated reduction in program costs, the FCS analysis now recommends a SDC of \$810 per equivalent service unit (ESU). An ESU is defined in Edgewood Municipal Code as a single family residence, and each residential unit is equivalent to 2640 square feet of impervious area. Updating the SWMP is necessary to ensure a viable utility over the long-term, which manages both ongoing maintenance and capital improvement needs.				
COUNCIL COMMITTEE REVIEW AND RECOMMENDATION: N/A				
RECOMMENDED ACTION: Review final SWMP document and consider adoption at next Regular Council Meeting. ALTERNATIVES TO RECOMMENDED ACTION: Bring revised materials to next study session for further discussion.				

ORDINANCE NO. 18-0527

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF EDGEWOOD, WASHINGTON, RELATING TO SURFACE WATER MANAGEMENT, ADOPTING THE 2018 SURFACE WATER MANAGEMENT PLAN UPDATE

WHEREAS, the City is required to adopt a Surface Water Management Plan (SWMP); and

WHEREAS, the Surface Water Management Plan must be updated on a regular basis and incorporated into the City's Comprehensive Plan; and

WHEREAS, the City's consultant completed the 2018 SWMP Update; and

WHEREAS, the City's SEPA Responsible Official issued a Determination of Non-Significance on August 3, 2018 for the Surface Water Management Plan Update, which was not appealed; and

WHEREAS, a public hearing on the 2018 SWMP Update was held on August 28, 2018; and

WHEREAS, additional plan revisions were made following said hearing and Council consideration, removing Underground Injection Control (UIC) capital projects from the 2018 SWMP Update; and

WHEREAS, the final revised 2018 SWMP Update was presented to the Council at their December 4, 2018 study session; and

WHEREAS, the City Council considered adoption of the 2018 SWMP Update during its regular meeting of December 11, 2018;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF EDGEWOOD, WASHINGTON, HEREBY ORDAINS AS FOLLOWS:

Section 1. The City Council does hereby adopt the 2018 Comprehensive Surface Water Management Plan (SWMP) Update, a copy of which is attached as Exhibit A and incorporated herein by reference.

Section 2. Effective Date. This Ordinance will take effect five days after publication as required by law.

ADOPTED THIS 11TH DAY OF DECEMBER, 2018.

Daryl Eidinger, Mayor

ATTEST:

Rachel Pitzel, City Clerk

APPROVED AS TO FORM:

Carol Morris, City Attorney

Date of Publication: December 13, 2018
Effective Date: December 18, 2018

DRAFT

Exhibit A
Surface Water Management Plan

DRAFT

COMPREHENSIVE SURFACE WATER MANAGEMENT PLAN – CITY OF EDGEWOOD



Prepared for
City of Edgewood
Public Works Department

Prepared by
Herrera Environmental Consultants, Inc.



Note:

Some pages in this document have been purposely skipped or blank pages inserted so that this document will copy correctly when duplexed.

COMPREHENSIVE SURFACE WATER MANAGEMENT PLAN – CITY OF EDGEWOOD

Prepared for
City of Edgewood



Public Works Department
2224 104th Avenue East
Edgewood, Washington 98372

Prepared by
Herrera Environmental Consultants, Inc.
1220 Fourth Avenue Northeast
Olympia, Washington 98506
Telephone: 360-292-1221

FINAL
November 27, 2018

CONTENTS

Acknowledgements.....	v
1. Introduction.....	1
1.1. Purpose of this Plan	2
1.2. Regulatory Drivers	2
1.3. Goals and Policies	3
1.4. Plan Development	6
2. Study Area Characteristics.....	7
2.1. Drainage Basin Characteristics	7
2.2. Geology and Soils	12
2.3. Land Use and Zoning.....	12
2.4. Surface Water Resources.....	20
2.4.1. Streams	20
2.4.2. Closed Depression Basins or Potholes.....	23
2.5. Critical and Hazard Areas.....	25
2.5.1. Wetlands, Riparian Habitat, and Salmon Bearing Streams	25
2.5.2. Natural Hazards.....	29
2.5.3. Groundwater Resources	31
2.6. Expected Future Conditions.....	33
2.6.1. Climate Change.....	33
2.6.2. Population Growth and Annexations	35
2.7. Stormwater System Characteristics	36
2.7.1. Stormwater System Features.....	36
2.7.2. Stormwater System Maintenance	36
3. Identified Problems and Recommendations	39
3.1. Pothole Flooding.....	39
3.1.1. Edgewood Bowl Pothole	42
3.1.2. Lake Chalet Pothole	42
3.1.3. Pinedale Pond/114th Avenue Pothole.....	42
3.1.4. 108th Avenue Pothole.....	42
3.1.5. Surprise Lake Pothole.....	42
3.1.6. 122nd Avenue Pothole.....	43
3.2. Stream Planning and Protection	43

3.3. Other Identified Flooding Projects	44
3.4. Program Review and Updates.....	46
4. Stormwater Management Program	47
4.1. NPDES Phase II Permit Compliance	47
4.1.1. Public Education and Outreach	48
4.1.2. Public Involvement and Participation.....	49
4.1.3. Illicit Discharge Detection and Elimination (IDDE)	49
4.1.4. Controlling Runoff from New Development, Redevelopment, and Construction Sites.....	50
4.1.5. Municipal Operations and Maintenance.....	52
4.1.6. Compliance with Total Maximum Daily Loads (TMDLs)	52
4.1.7. Monitoring and Assessment	53
4.1.8. Reporting	53
4.1.9. Preparation for the Next Permit	53
4.2. Underground Injection Control (UICs)	55
4.3. Asset Management.....	56
4.4. Preparing for Climate Change.....	57
5. Plan Implementation.....	59
5.1. Stormwater Program Activities	59
5.2. Staffing and Responsibilities.....	65
5.3. Equipment Resources.....	65
5.4. Capital Improvement Program	66
6. References.....	71

APPENDICES

Appendix A	Technical Memorandum: City of Edgewood Stormwater Program Gap Analysis and Needs Assessment
Appendix B	Characteristics of Edgewood's Closed Depression Basins or Potholes
Appendix C	Project Summary Sheets (for projects scheduled for implementation under this plan)
Appendix D	Subbasin Inventory Data for Edgewood
Appendix E	Stormwater Utility Financial Analysis

TABLES

Table 2-1.	Drainage Basin Size and Impervious Surface Characteristics.....	8
Table 2-2.	Land Use Characteristics and Percent of Edgewood Zoned for each Category in 2015.....	15
Table 2-3.	Zoning Designations by Drainage Basin in Edgewood.	17
Table 2-4.	Catchment Size, Pothole Size, and Flooded Area Comparison.	23
Table 2-5.	Critical Areas in Edgewood Drainage Basins.	27
Table 2-6.	Predicted Climate Change for Edgewood Area (interpreted from Mauger et al. 2015).	34
Table 2-7.	Expected Responses to Stormwater Management Components from Predicted Climate Change Effects.	35
Table 2-8.	Summary of Key Features of the City of Edgewood’s Stormwater System.	36
Table 3-1.	CIP Projects Identified to Address Pothole Flooding. ^a	41
Table 3-2.	CIP Projects Related to Stream Protection and Planning.....	43
Table 3-3.	CIP Projects Related to Localized Flooding.	45
Table 5-1.	High Priority Program Activities and Costs.....	60
Table 5-2.	Lower Priority Programs Activities and Costs.	62
Table 5-3.	Anticipated Future Required Program Needs and Tasks.....	64
Table 5-4.	Current (2017) and Recommended City of Edgewood SWMP Staff Support.....	65
Table 5-5.	Capital Improvement Project (CIP) List for Edgewood’s Stormwater Plan.....	67

FIGURES

Figure 2-1. Subbasin Boundaries in the City of Edgewood.	9
Figure 2-2. Geologic Units as Mapped for the City of Edgewood.	14
Figure 2-3. 2015 Mapped Zoning Designations in the City of Edgewood.	19
Figure 2-4. Surface Water Features in the City of Edgewood.	21
Figure 2-5. Wetlands and Salmon Bearing Streams.	26
Figure 2-6. Mapped Flood and Landslide Hazards in the City of Edgewood.	30
Figure 2-7. Vulnerable Aquifer Recharge Areas and Wellhead Protection Areas.	32
Figure 2-8. Mapped Stormwater System Infrastructure in the City of Edgewood.	37
Figure 3-1. Locations of Proposed Stormwater Capital Improvement Projects.	40
Figure 5-1. Comparison of Population Densities for Nearby Small Cities.	69
Figure 5-2. Stormwater Fee Revenue Generated from Non-Residential Customers as a Percent of Total Fee Revenue.	69

ACKNOWLEDGEMENTS

This Comprehensive Surface Water Management Plan was produced through the combined efforts, ideas, and cooperation of the following Edgewood City staff, appointed and elected officials, and consultants.

City of Edgewood

Daryl Eiding	Mayor
Dave Gray	Assistant City Administrator
Jeremy Metzler, PE	Public Works Director
Darren Groth	Community Development Director
Mark Creley	City Council
Ryan Day	City Council
Tyron Christopherson	City Council
Rosanne Tomin	City Council
Stephanie (Shook) Hunter	City Council
John C. West	City Council
Nate Lowry	City Council

Consultants

Herrera Environmental Consultants, Inc.

Joy Michaud	Project Manager/Plan Development
Matt Fontaine	CIP Development and Prioritization
Meghan Mullen	Engineering and Plan Support
Brian Busiek	CIP Design Review
Jennifer Schmidt	Geographic Information Systems Lead
Rebecca Dugopolski	Data Gaps and Needs Assessment Analyst

FCS Group

John Ghuilarducci	Financial Analysis Project Manager
Tage Aker	Financial Analysis Support
Mathew Hobson	Financial Analysis Support

Associated Earth Sciences, Incorporated

Curtis Koger	Hydrogeologist
--------------	----------------

1. INTRODUCTION

Historically, stormwater management referred to management of underground pipes and conveyance networks to enhance draining and reduce flooding. However, urban development over the past century has adversely affected both the volume of runoff generated and the quality of that stormwater runoff. The increased volume of runoff generated can impact erosion, flooding, and stream flows, as well as reduce groundwater recharge. The increased delivery of pollutants can impact stream and groundwater quality and therefore the health of aquatic life and the condition of our drinking water. As a consequence, stormwater management at a city level has become more complex and includes many components, from maintaining the infrastructure of pipes, catch basins, and treatment devices, to programs to educate residents and businesses about reducing pollutants, to creating ways to reduce the volume of stormwater generated and the amount of pollutants it carries.

The National Pollutant Discharge Elimination System (NPDES) is the program that addresses impacts from discharge of pollutants from sources such as stormwater. In Washington State the NPDES program is administered by the State Department of Ecology (Ecology) through authorization from the United States Environmental Protection Agency (EPA). The City of Edgewood's (City) stormwater program is regulated via Ecology's Phase II Western Washington Municipal Stormwater Permit (the Permit). The Permit includes extensive requirements related to stormwater program management, system design requirements, operations and maintenance, and more. In addition to the Permit, the City has obligations associated with the Puyallup River Total Maximum Daily Load (the TMDL) that relate to the management of stormwater.

Effective stormwater management can control runoff to create a developed landscape that behaves more like pre-development conditions by retaining runoff and by providing stormwater treatment. This Comprehensive Surface Water Management Plan (CSWMP) lays out a stormwater management program that reflects the unique features of Edgewood's environment, meets the needs of current and anticipated regulatory requirements (primarily requirements of the NPDES program), and identifies Capital Improvement Program (CIP) projects that address existing problems. It also outlines the staffing, equipment and financial resources needed for the City to fully implement the plan.



Public involvement.

1.1. PURPOSE OF THIS PLAN

The purpose of this plan is to guide the City's stormwater management program in a manner that protects public and private infrastructure; provides protection for natural resources; is consistent with applicable local, state, and federal regulations; and establishes an equitable stormwater utility rate that reflects these needs. The plan:

- Establishes goals for stormwater management in the city (Section 1)
- Provides background information on the area and stormwater system (Section 2)
- Describes stormwater and surface water problems the City is experiencing and potential solutions (Section 3)
- Describes the different components of the stormwater management program and recommendations for improvement (Section 4)
- Provides a plan for implementation that identifies resource needs and focuses on efficient use of limited resources (Section 5)
- Provides a financial analysis to support the highest priority needs (Section 6)

The information provided in the different sections of this report is supported by a number of appendices:

- Appendix A provides detail on the City's existing stormwater program and provides detailed recommendations for improvement.
- Appendix B summarizes size and flooding characteristics of Edgewood's potholes.
- Appendices C and D contain project summary sheets and cost estimates for each of the CIP projects identified during this planning effort.
- Appendix D contains the subbasin inventory for the City, essentially a compilation of the GIS data derived for each of the subbasins.

1.2. REGULATORY DRIVERS

Due to the critical importance of stormwater and its relationship to the protection of natural resources there are many regulatory drivers, the following describes those that are most relevant to the development of this CSWMP:

- The primary regulatory driver for Edgewood's stormwater program is, and will continue to be, the Permit. The Permit is driven by the federal Clean Water Act. It has extensive requirements related to stormwater program management, system design requirements,

operations and maintenance, and more. Section 4 of this CSWMP details the specific Permit requirements and their impact on the City's CSWMP. (The existing Permit became effective in August 2013 and covers the years from 2013 -2019. This comprehensive plan will also be in effect for the as yet to be approved 2019 Permit. Preliminary draft language that has been released for the 2019–2023 NPDES Phase II Permit (Ecology 2017). The draft includes significant changes in terms of requirements related to watershed planning, characterization of outfalls, and expansion of source control programs.

- State surface water and groundwater quality standards require the City to manage discharges from stormwater systems in a manner that supports achieving these standards.
- There is a Total Maximum Daily Load (TMDL) for the Puyallup watershed which includes Jovita Creek; a stream for which a small part flows through Edgewood. In addition to participating in the TMDL Implementation group, the TMDL requires that Edgewood implement Illicit Discharge Detection Elimination (IDDE) activities in the Jovita Creek basin.
- The federal Endangered Species Act (ESA) protects listed species and prohibits activities that might result in a loss or "take" of a listed species. This includes activities related to the City's stormwater program.
- The Washington State Growth Management Act (GMA) requires the City to inventory and protect environmentally critical areas (such as steep slopes, wetlands, and streams) (Chapter 36.70A of the Revised Code of Washington). The GMA also requires the City to develop comprehensive plans to ensure environmentally responsible and economically sustainable development, including planning for stormwater-related capital facilities. The state regulation addressing Underground Injection Control (UIC) wells defines how wells will be assessed and constructed and requires extra protection for those determined to be a high threat to groundwater. Many stormwater facilities are defined as wells if they infiltrate directly to the ground.
- Several sections of the Edgewood Municipal Code (EMC) govern aspects of stormwater management for new development and redevelopment project sites.

1.3. GOALS AND POLICIES

The following goals and policies from the City's Comprehensive Plan are relevant to this CSWMP and the operations of the stormwater utility.

- Goal NA.II. Protect and enhance water quality.
- Goal NA.IV. Protect and enhance fish and wildlife

- Goal NA.V. Minimize risks to people, property, and the environment posed by geological and flood hazard areas.
- Goal LU.III. Promote development that respects and preserves the natural environment.
 - Policy LU.III.f. Protect the quality and quantity of water resources.
- Goal PR.V. Protect and manage natural areas for the enjoyment of current and future generations.
- Goal U.I. Ensure the location and design of utility facilities meets the community's needs.
- Goal U.II. Support the provision of quality utility services that are reliable, efficient, and financially and environmentally sustainable.
 - Policy U.II.c. Support timely expansion, maintenance, and replacement of utility facilities.
 - Policy U.II.d. Encourage the use of new technologies that will enhance the quality of utility services, and that are financially feasible and consistent with community needs.
 - Policy U.II.e. Support improvements in utility services that support local businesses and economic development.
 - Policy U.II.f. Encourage public education that reduces demand for utility services.
- Goal U.III. Work with regional partners to address regional utility issues.
- Goal CF.II. Provide adequate capital facilities that address past deficiencies, meet the needs of growth, and enhance the quality of life through acceptable level of service.
- Goal CF.III. Ensure that planned capital facilities are financially feasible.
- Goal CF.IV. Design and locate capital facilities with features and characteristics that support the environment, energy efficiency, aesthetics, technological innovation, cost-effectiveness, and sustainability.
- Goal CF.V. Maintain capital facilities so that they are reliable, functional, safe, sanitary, clean, attractive, and financially sustainable.

The following additional goals have been developed to guide the City's CSWMP. They support actions that will reduce flooding impacts, ensure stormwater is managed efficiently, and protect water resources:

- Implement, improve, and refine (adaptively manage) a surface water management program that protects the natural environment, reflects current regulations, is fiscally responsible, and that meets sustainability goals of the City.

- Build, maintain and repair the City's stormwater infrastructure in a cost-effective manner that supports attainment of the flow, water quality and financial goals of this surface water management plan.
- Ensure the regulations, policies, and guidance documents that provide the framework for the City's stormwater program (the stormwater manual, stormwater comprehensive plan, and City municipal code) are regularly updated.
- Operate the stormwater management program within the constraints of the stormwater utility budget and through active collaboration with other programs, agencies, and through leverage of other funding mechanisms.
- Comply with all applicable requirements from federal, state, and local governments related to water resource protection.
- Protect surface waters from the impacts of increased pollutant loads, flooding and erosion through fully supporting requirements of the adopted stormwater manual and by encouraging practices that reduce use of pesticides, fertilizers, and other contaminants and education to support proper disposal of wastes.
- Protect groundwater resources and supplies by regulating land use activities, requiring a higher level of stormwater treatment within wellhead protection areas, encouraging practices that promote responsible infiltration, preserve native soils and vegetation, and by encouraging use of low-impact vegetation.
- Guide regional development of the stormwater management and resource protection framework through participation in local and regional management and planning groups.
- Encourage engagement of the public in stormwater management through providing education, opportunities for involvement and stewardship, and soliciting public input to the stormwater management program.
- Focus on public education and training as first steps in addressing stormwater concerns and enforcement as needed.
- Prioritize the most beneficial and cost-effective projects and programs to ensure that available resources are used efficiently.
- Implement an equitable and logical stormwater utility rate structure.

1.4. PLAN DEVELOPMENT

The first step in development of this plan was to review the previous Surface Water Management Plans. Generally, earlier plans identified a similar series of problems including; erosion in streams, local conveyance flooding issues, steep slopes, and flooding of closed depression basins (potholes). During this initial data and document review stage, GIS and other pertinent data was acquired and reviewed in preparation for the project kickoff workshop.

City staff from multiple departments and key members of the consultant team attended a plan development workshop. The purpose of the workshop was to gather information on general background conditions in the city, the existing stormwater system, recent and planned stormwater facilities; and to discuss how the City is addressing meeting different components of the Permit. In addition, the team developed a list of problems and needs. In preparation for the workshop a detailed questionnaire about the City's stormwater program was distributed to participants to help gather staff input and perspectives on a consistent set of questions. The findings from the questionnaire were used to facilitate the workshop.

Following the workshop, progress toward development of this plan occurred on five fronts:

- Background characterization data was obtained and summarized to form the framework for the CSWMP.
- An evaluation of data gaps and needs related to complying with the Permit was carried out, including a summary of staffing, equipment, and budget needs to support the program.
- CIP's were identified and prioritized through discussions with the City and conceptual designs were prepared.
- A more detailed study (feasibility assessment) was developed for treating stormwater runoff in the pothole basins to a level equivalent to or better than the natural soil filtration process, and a grant application was prepared to support the effort.
- A financial analysis of the stormwater utility was completed to evaluate implementation of plan recommendations.

Information from these different efforts was then used to develop this CSWMP and to lay out a plan for its implementation.

2. STUDY AREA CHARACTERISTICS

Edgewood is located in Pierce County and is bordered by the cities of Puyallup, Sumner, Pacific, Fife, and Milton, and by areas of unincorporated King and Pierce Counties. The city encompasses approximately 8.5 square miles (5,540 acres). Most (80 percent) of the city is situated on the top of a steep sided plateau called the North Hill Plateau, while the remainder lies in the Puyallup River valley. The 2010 Census estimate of the city's population was 9,387. Edgewood's estimated population in 2015 was 10,734, representing a 9 percent growth over the six-year period (US Census Bureau 2016).

2.1. DRAINAGE BASIN CHARACTERISTICS

In the previous surface water management plan (Kato & Warren 1997), the city was divided into 14 subbasins delineated to the extent known by their hydrologic boundaries. Those subbasins have been revised slightly and re-sorted into 18 drainage subbasins using more recent Lidar mapping (Table 2-1 and Figure 2-1). These 18 subbasins have been divided into seven groups that reflect the either the main perennial stream basin that they are affiliated with or their similar geographic features.

Most of the project area is characterized as a plateau ranging from 300 to 500 feet in elevation with steep slopes to the west, south, and east above flat river valley floodplains around 40 to 70 feet in elevation. As described in the sections below, many of the subbasins convey water from the plateau through steep ravines to the valley bottom, which results in erosion and sedimentation concerns. Another feature of the city is that much of the plateau area is characterized by several closed depressions, known locally as potholes, which collect water during the wet season, frequently resulting in flooded roads, property, and houses during wet winters.

Table 2-1. Drainage Basin Size and Impervious Surface Characteristics.			
Basin Group/ Subbasins	Area Within the City (acres)	Impervious Surface	
		(acres)	(percent)
White River Basin			
North Slopes	274.3	23.1	8%
Central Slopes	75.2	3.7	5%
Southern Slopes	194.0	62.1	32%
Jovita Creek Basin			
Jovita Creek	622.4	121.1	19%
Puyallup River Basin			
Upper Wapato Creek	444.6	82.7	19%
Wapato Creek Basin			
Lower Wapato Creek	576.6	133.0	23%
Simons Creek Basin			
Simons Creek	529.2	130.5	25%
Tributary to Simons Creek	261.3	39.1	15%
Hylebos Creek Basin			
Surprise Lake Creek	474.7	86.3	18%
Surprise Lake	62.3	22.7	36%
Hylebos Creek	4.7	2.9	62%
Pothole Basins			
Edgewood Bowl Pothole	656.0	136.0	21%
Lake Chalet Pothole	136.0	36.5	27%
Pinedale Pond/114th Avenue Pothole	384.3	83.5	22%
108th Ave Pothole	225.9	49.2	22%
122nd Ave Pothole	347.7	60.5	17%
Surprise Lake Pothole	73.8	17.8	24%
Total	5,343.0	1,090.6	20%

White River Basin

The White River basin includes three subbasins: the North, Central, and Southern Slopes, which drain from the eastern edge of the city. They are similar in size and geography. Each subbasin consists of three distinct topographical areas: a small portion of the upland plateau, the steep slopes, and the flat lowland plain. Surface flow from these subbasins is carried to the White River via culverts, overland flow, and roadside ditches. The steeply sloped areas are mostly undeveloped and covered by second- or third-growth trees and brush. The flatter areas on the plateau are more developed, but this area comprises only a small portion of the basin. The steep, sandy side slopes have formed deep ravines. As would be expected due to the steep slopes, erosion and sedimentation are problematic and may increase as development within the basin increases.

Jovita Creek Basin

Jovita Creek basin is located in the northeast section of the city. It is one of the largest basins within the city; however, most of the contributing area lies outside of the city. Similar to other basins in Edgewood, a portion of the basin in the uplands (elevation above 300 feet) and a narrow, steep stream corridor leading to the valley floor (elevation around 70 feet).

The drainage basin for Jovita Creek is approximately 2.9 square miles; the majority of which extends north of Edgewood into unincorporated King County, approximately one third of the drainage basin (0.9 square miles) lies within the city. There are two main tributaries to Jovita Creek. The southern tributary is located north of Edgewood, east of Meridian Avenue and flows from a large wetland complex. The other tributary encompasses a much larger drainage area including Spider Lake, Fivemile Lake, and Trout Lake. Trout Lake in King County is an important source of base flow to the stream.

Except for the commercial area along Meridian Avenue East and Eighth Street East and the agricultural area on the valley floor, only few small subdivisions have been developed within the subbasin and within city limits. The large portion of the subbasin within unincorporated King County and the city of Pacific is more heavily developed. Thus, upstream watershed use that is outside of the City's purview is a driving factor in the condition of this subbasin.

Within the city, the main stem of Jovita Creek flows in a steep-sided canyon. At the mouth of the canyon, the stream flows adjacent to Jovita Creek Boulevard before its confluence with the Milwaukee Ditch (Soatan Creek), which flows southerly to the White River. The adjacent hill slopes in the canyon are subject to frequent slides caused by runoff from the plateau above, tree falls, unstable slopes, and high flows in the creek. Jovita Boulevard East has been washed out on several occasions due to flooding and sediment discharge from Jovita Creek.

Puyallup River Basin

The Puyallup River basin is the discharge point for the Upper Wapato Creek subbasin. A portion of this subbasin is located on the plateau. There is a very steep section with multiple steep ravines draining from the plateau toward the Pony Lake area, but the topography toward the east (in the southeastern corner of the city) is more moderately sloped as it moves from the plateau to the valley floor.

Wapato Creek Basin

The Wapato Creek basin within the city of Edgewood includes only the Lower Wapato Creek subbasin because the stormwater conveyance system has directed subbasins that might naturally have been directed toward Wapato Creek to the Puyallup. This subbasin conveys runoff from the south central area of the city to Wapato Creek. Similar to the other subbasins in Edgewood, the Lower Wapato Creek subbasin includes an upland region located on the plateau area that is connected to the valley by steep slopes. The sloped area remains undeveloped and

covered by second- or third-growth trees and brush. The most development in the basin occurs downstream in the flat valley. Erosion and sedimentation are concerns as the water is conveyed through the deep ravines on the steep slopes and this may increase as development within the plateau area of the basin increases.

Simons Creek Basin

Simons Creek basin includes two subbasins: Simons Creek, and Tributaries to Simons Creek. These two subbasins are located entirely within city limits in the southwest area of the city. Like much of Edgewood, most of the contributing area to these subbasins is situated on the plateau with a narrow, steep stream corridor leading to the valley floor. The most significant drainage feature in these subbasins is Simons Creek. The residential and commercial areas along Meridian Avenue comprise most of the impervious area in the basin.

Hylebos Creek Basin

The Hylebos Creek basin includes the Surprise Lake Creek, Surprise Lake, and Hylebos Creek subbasins. These subbasins are located in the northwest corner of the city. Surprise Lake subbasin is upstream of Surprise Lake and Surprise Lake Creek is downstream of the lake, all of it flows to Hylebos Creek. Surprise Lake itself (and much of the Surprise Lake subbasin) is located outside of the city of Edgewood in the city of Milton, along with most of the Hylebos Creek basin. The Surprise Lake and Surprise Lake Creek subbasins convey water from a fairly large drainage area on the upland plateau and then through the narrow, steep corridor of Surprise Lake Creek. Except for the commercial area along Meridian Avenue East, most of the subbasin areas within Edgewood are lightly developed compared to Milton, which includes some multi-family developments; this is especially true for the area surrounding Surprise Lake. As a result, roads and commercial developments comprise a high percentage of the man-made impervious area in the basin.

Pothole Basins

Unlike the other basins in the city, the following six pothole basins are located entirely on the plateau area and are entirely within the city limits: Edgewood Bowl Pothole, Lake Chalet Pothole, Pinedale Pond/114th Avenue Pothole, 108th Avenue Pothole, 122nd Avenue Pothole, and Surprise Lake Pothole basins. These are closed-depression basins; there are no natural flow paths that connect these subbasins with nearby stream systems. These basins contain undulating hills on the plateau and wetlands or other surface water features within the potholes themselves. Development density in the pothole basins is primarily low, with some more heavily developed areas within the Lake Chalet and Surprise Lake Potholes. The majority of impervious surface in the pothole subbasins comes from roads and single-family homes. Flooding in these subbasins already occurs with regular frequency. There is significant potential for future development throughout these basins, which is expected to result in more frequent and extensive flooding in the future.

2.2. GEOLOGY AND SOILS

The majority of the city of Edgewood is located on the upland called the North Hill plateau. This plateau is overlain with till that was formed as the glacier advanced during the Vashon glaciation 15,000 to 13,500 years ago. As the glacier retreated, water from the melting ice deposited over the till thick layers of sand and gravel called outwash. The outwash was left in irregular heaps and was pitted with hollows that became today's "potholes" (Kato & Warren 1997). Therefore, the upland area consists of Vashon till, which is dense, non-stratified silty sand to sandy silt with slow permeability in unweathered zones, and Vashon recessional outwash deposits, which includes well-sorted, stratified, unconsolidated coarse-grained sediment with rapid permeability. The steep valley walls bordering the plateau contain exposed outcrops deposited before the Vashon glaciation. These deposits include the Stuck drift, the Puyallup formation, and the Salmon Springs drift.

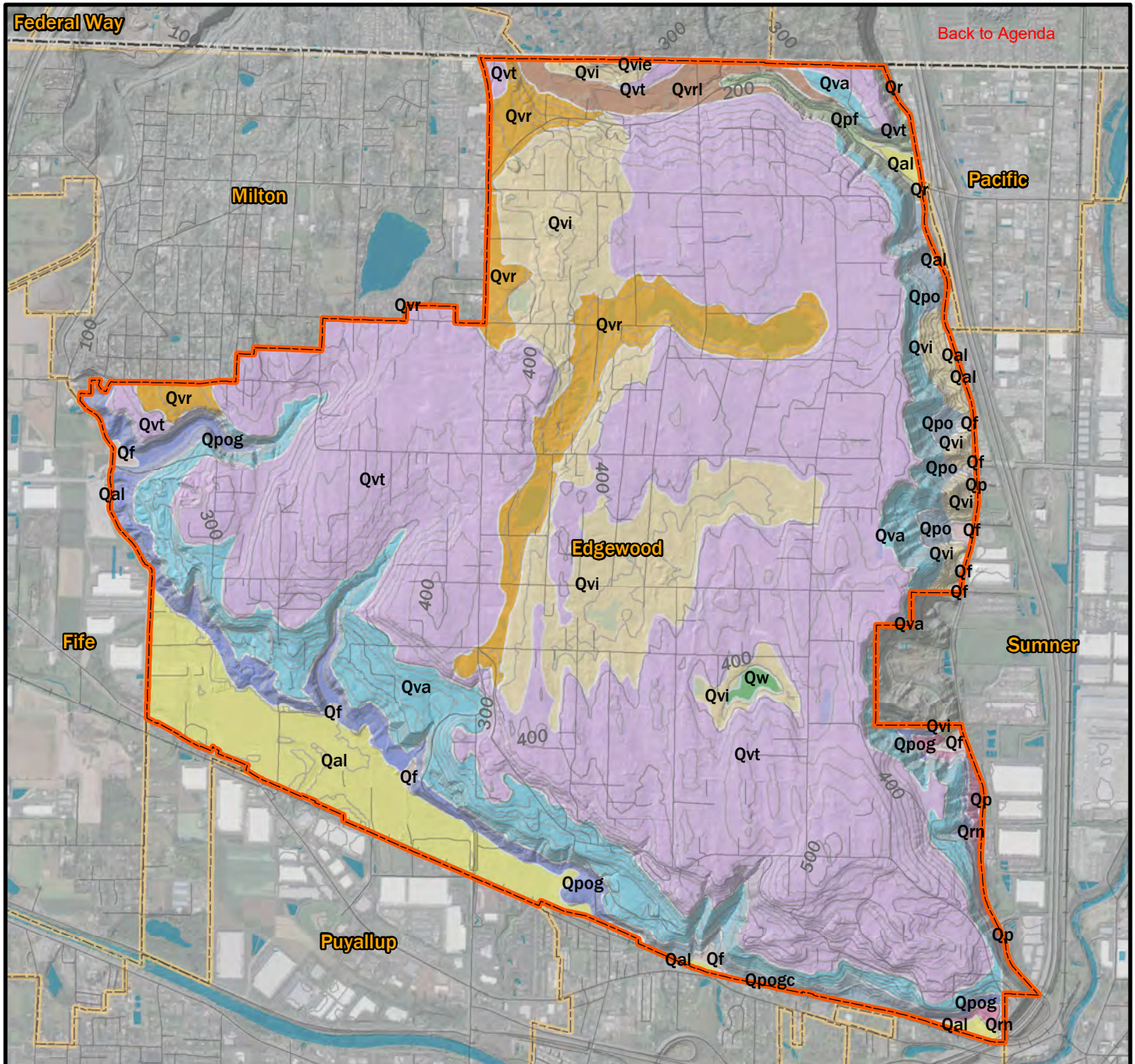
Soils are often categorized by hydrologic soil group (HSG) according to their ability to infiltrate water. Based on HSG classification most of the city would have soils amenable to infiltration. However, in the case of Edgewood and many other areas in the Puget Sound basin, it is the underlying geology not the soils that drive infiltration capacity. In much of the city there is a dense till layer that sits approximately 2 to 4 feet below the ground surface (Figure 2-2). This layer prevents water from seeping deeper into the ground. In fact, when surface soils are disturbed even this narrow soil layer can be lost or compromised leading to increased runoff and an increased potential for flooding.

2.3. LAND USE AND ZONING

Land use is linked with the percentage of impervious surface that, in combination with soil drainage properties, determines the amount of stormwater runoff generated by a parcel. Land use also impacts the type and concentration of pollutants that might be expected to accumulate on the land surface. Existing land use has not been mapped for the City, but in the case of Edgewood, existing zoning (as of 2015) is a fair surrogate measure. The City's zoning mapping was condensed into 12 generalized categories. Table 2-2 describes generalized development and typical runoff characteristics associated with each land use/zoning category, and Table 2-3 and Figure 2-3 show the distribution of zoning categories by drainage basin. In the future it can be expected that impervious surface will increase significantly as the population expands and the city densifies. Another important change will likely be growth in the number and type of businesses that occupy commercial/industrial zones.

Overall, land use (as defined by zoning) within the city is currently largely residential, with over 75 percent of the city zoned as low and moderate single family residential development. The following are some general land use patterns:

- Residential land use is by far the dominant land use type.
- Meridian Avenue East includes the highest density developments with town center, commercial, and mixed use residential land uses.
- The flatter areas in the White River and Puyallup River valleys contain pockets of industrial, commercial, and mixed use residential land uses on the outer edges of the city.
- The coverage of impervious surface in Edgewood is closely related to land use. In general, the areas with the most impervious surface tend to coincide with the higher density residential and commercial areas such as Meridian Avenue East (Jovita Creek, Surprise Lake Creek, Surprise Lake, and Surprise Lake Pothole basins) and the White River Valley (North Slopes Subbasin) (Table 2-3).



[Back to Agenda](#)

Legend

- | | | |
|----------------------|--|--|
| Edgewood city limits | Qf - Fan deposit | Qpogc - Pre-Olympia glacial deposit-coarse grained |
| City limits | Qvr - Vashon recessional outwash deposit | Qr - Reversely magnetized deposit |
| County boundary | Qvri - Vashon recessional lacustrine deposit | Qrn - Reversely magnetized deposit non-glacial |
| Waterbody | Qvi - Vashon ice-contact deposit | |
| Road | Qvie - Vashon eskers | |
| Contour (20 ft) | Qvt - Vashon glacial till | |
| Contour (100 ft) | Qva - Vashon advance outwash | |
| GeoLabel | Qpf - Pre-Fraser deposit | |
| Qw - Wetland deposit | Qpo - Pre-Olympia deposit | |
| Qp - Peat | Qpog - Pre-Olympia glacial deposit | |
| Qal - Alluvium | | |

Figure 2-2.
Geologic Units as Mapped for the
City of Edgewood.

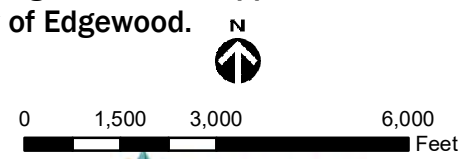
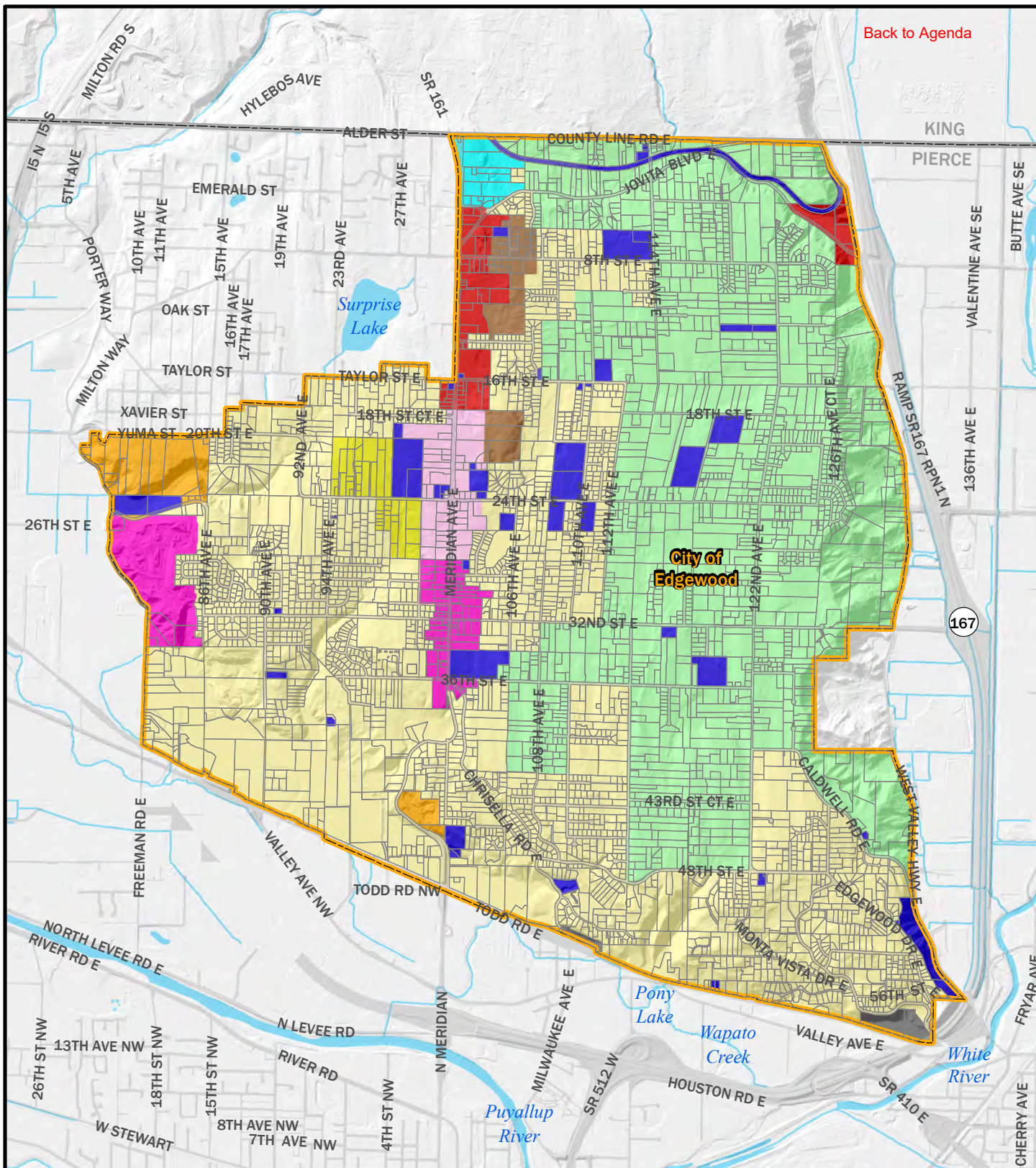


Table 2-2. Land Use Characteristics and Percent of Edgewood Zoned for each Category in 2015.

Land Use Category (zoning equivalent)	Generalized Properties	Zoning Area (percent)
Business Park	This land use accommodates a wide range of employment and commercial uses, including professional office, senior housing and apartments, light industrial and retail uses. Significant landscaping is emphasized in this zone, and impervious surface percentages are moderate.	0.7%
Commercial	Allowable use includes large format retail, auto-oriented uses, and regional scale commercial uses. Light industrial uses are also allowed. This land use provides a transition to the Town Center, and multifamily housing is allowed. Generally high percentage of impervious surface.	1.9%
Industrial	This land use provides for regional research, light manufacturing, warehousing, and other major regional employment uses. Industrial lands are limited to areas where regional transportation access is available. Generally high percentage of impervious surface.	0.3%
Mixed Residential – Low (MR-1)	Low residential density using a variety of urban housing types and designs, including small-lot detached dwellings, duplexes, and townhouses. Impervious surface percentages are low to moderate.	1.7%
Mixed Residential – Medium (MR-2)	Moderate residential density using a variety of urban housing types and designs, including small-lot detached dwellings, duplexes, and townhouses. Generally associated with a moderate percentage of impervious surface	1.2%
Mixed Use Residential	This land use includes a variety of medium density housing types and some commercial and professional office uses. This serves as a transition to areas of more intensive development. Impervious surfaces are moderate to high.	2.9%
Public	This land use provides for moderate-scale and large-scale activities relating to the purpose of state and local governmental entities and semi-public institutions providing necessary public services, including utilities and open spaces. Associated with a fairly high percentage of impervious surface, though parks and open spaces are associated with lower percentages of impervious surface.	3.9%
Public ROW^a	Includes highway ROWs. Generally associated with a high percentage of impervious surface, although planted areas within the ROW may allow for significant infiltration.	0.1%
Single Family – Low (SF-2)	This land use contains large residential lots with extensive tree coverage. The percentage of impervious surface is low.	38.8%
Single Family – Medium (SF-3)	Single family medium and high land use categories are the City's primary residential zones. The percentage of impervious surface is low to moderate.	45.5%
Single Family – High (SF-5)	Single family medium and high land use categories are the City's primary residential zones. The percentage of impervious surface is moderate.	1.2%
Town Center	The Town Center is an integral part of the City's economic development strategy emphasizing a planned mix of pedestrian-oriented commercial, business, and residential development. Impervious surface percentages are high.	1.7%

^a Visual inspection of land use areas with no land use designation indicates that these areas are part of the Public ROW and have been included in this category.

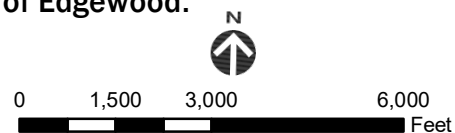
Table 2-3. Zoning Designations by Drainage Basin in Edgewood.																								
Basin Group/Subbasin	Business Park		Commercial		Industrial		Mixed Residential – Low (MR-1)		Mixed Residential – Moderate (MR-2)		Mixed Use Residential		Public		Public ROW		Single Family – Low (SF-2)		Single Family – Moderate (SF-3)		Single Family – High (SF-5)		Town Center	
	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)
White River Basin																								
North Slopes	0.0	0%	4.2	2%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	270.1	98%	0.0	0%	0.0	0%	0.0	0%
Central Slopes	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	75.2	100%	0.0	0%	0.0	0%	0.0	0%
Southern Slopes	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	18.6	10%	0.0	0%	35.5	18%	139.9	72%	0.0	0%	0.0	0%
Jovita Creek Basin																								
Jovita Creek	34.8	6%	33.6	5%	0.0	0%	0.0	0%	22.1	4%	0.0	0%	42.9	7%	0.0	0%	423.9	68%	65.2	10%	0.0	0%	0.0	0%
Puyallup River Basin																								
Upper Wapato Creek	0.0	0%	0.0	0%	18.3	4%	0.0	0%	0.0	0%	0.0	0%	2.0	0%	1.4	0%	69.5	16%	353.5	80%	0.0	0%	0.0	0%
Wapato Creek Basin																								
Lower Wapato Creek	0.0	0%	0.0	0%	0.1	0%	13.8	2%	0.0	0%	12.7	2%	8.9	2%	1.4	0%	24.6	4%	515.1	89%	0.0	0%	0.0	0%
Simons Creek Basin																								
Simons Creek	0.0	0%	0.0	0%	0.0	0%	0.0	0%	5.4	1%	15.6	3%	29.8	6%	0.0	0%	0.0	0%	366.4	69%	42.8	8%	69.3	13%
Tributary to Simons Creek	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	27.7	11%	9.8	4%	0.0	0%	0.7	0%	223.2	85%	0.0	0%	0.0	0%
Hylebos Creek Basin																								
Surprise Lake Creek	0.0	0%	0.0	0%	0.0	0%	76.8	16%	0.0	0%	76.7	16%	15.0	3%	0.0	0%	0.0	0%	278.2	59%	21.8	5%	6.2	1%
Surprise Lake	0.0	0%	42.9	69%	0.0	0%	0.0	0%	1.1	2%	0.0	0%	0.6	1%	1.0	2%	0.0	0%	15.0	24%	0.0	0%	1.8	3%
Hylebos Creek	4.7	100%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%
Pothole Basins																								
Edgewood Bowl Pothole	0.0	0%	0.0	0%	0.0	0%	0.0	0%	13.3	2%	0.0	0%	49.2	8%	0.0	0%	428.3	65%	165.1	25%	0.0	0%	0.1	0%
Lake Chalet Pothole	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	24.5	18%	14.5	11%	0.0	0%	0.6	0%	91.3	67%	0.0	0%	5.2	4%
Pinedale Pond/ 114th Avenue Pothole	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	5.7	1%	0.0	0%	350.4	91%	28.2	7%	0.0	0%	0.0	0%
108th Avenue Pothole	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.8	0%	0.0	0%	114.9	51%	110.2	49%	0.0	0%	0.0	0%
122nd Avenue Pothole	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	10.3	3%	0.0	0%	278.3	80%	59.1	17%	0.0	0%	0.0	0%
Surprise Lake Pothole	0.0	0%	23.0	31%	0.0	0%	0.0	0%	21.0	28%	0.0	0%	0.3	0%	0.0	0%	0.0	0%	21.4	29%	0.0	0%	8.1	11%
Total	39.5	1%	103.6	2%	18.4	0%	90.6	2%	62.8	1%	157.1	3%	208.2	4%	3.8	0%	2,072.0	39%	2,431.8	46%	64.6	1%	90.7	2%



Legend

	Tax parcel	Zoning			
	Edgewood city limits	SF-2	MR-1	BP	
	County boundary	SF-3	MR-2	I	
	Waterbody	SF-5	MUR	Public	
		C	TC	Public ROW	

Figure 2-3.
2015 Mapped Zoning Designations in
City of Edgewood.



2.4. SURFACE WATER RESOURCES

The key surface water features in Edgewood include four perennial streams and six closed depression basins, referred to as potholes. With the exception of the pothole called Lake Chalet, which retains water year-round, the potholes are a series of open-water wetlands during most of the year but become lake-like during the winter when they are filled by stormwater runoff. These water bodies, shown in Figure 2-4, are all within the Puyallup River Watershed, which is tributary to Commencement Bay in Puget Sound.

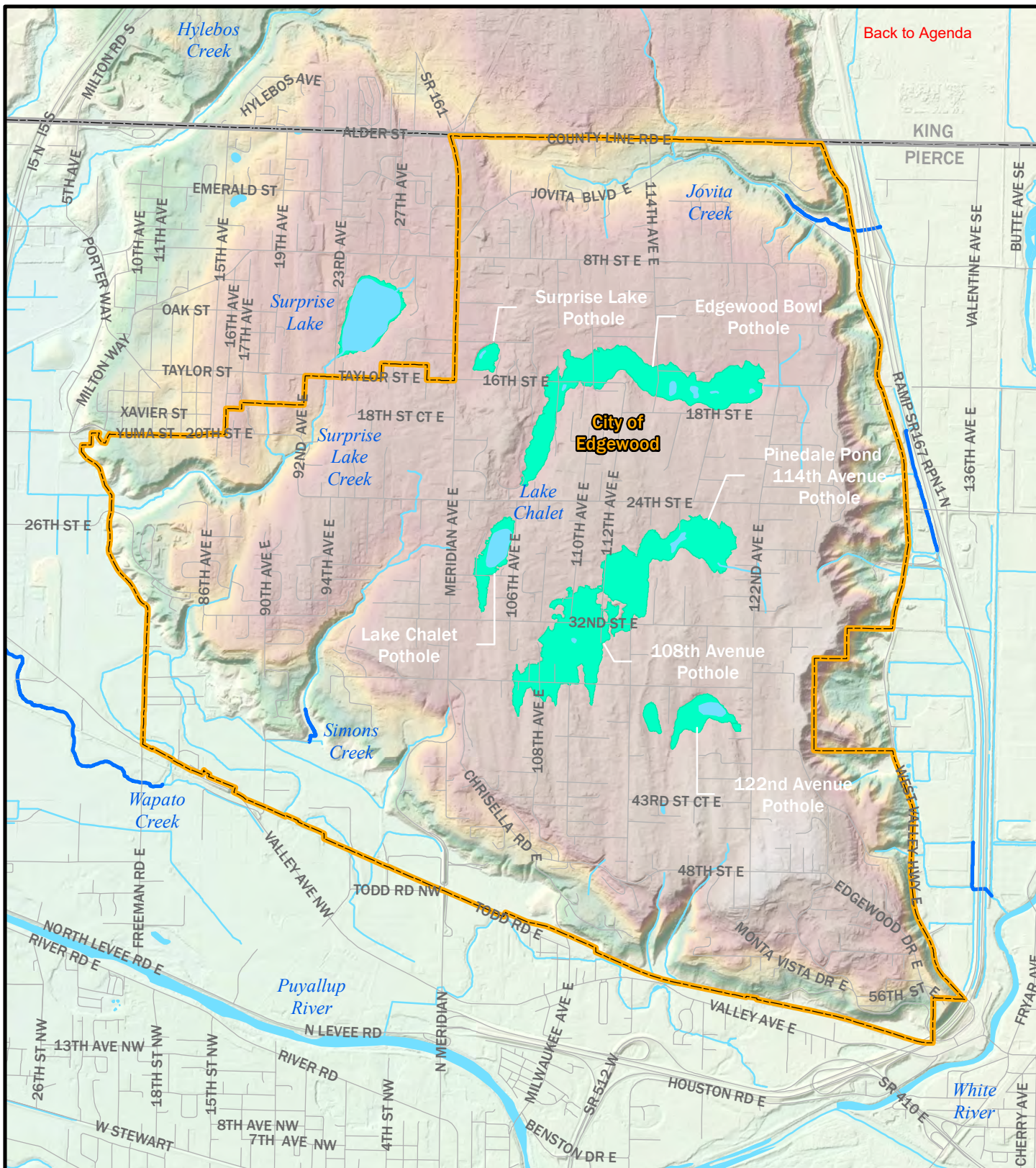
Brief information about each water body is provided below. Water quality is summarized in terms of the water body's inclusion on Washington State's most recent Water Quality Assessment (Ecology 2015). (Please note that the City has not collected any independent water quality data to-date, so additional water quality concerns may exist.) The Water Quality Assessment is a requirement of the Clean Water Act and is regulated by the US Environmental Protection Agency (EPA). Washington State Department of Ecology (Ecology) is responsible for implementing the Clean Water Act at the state level and conducts the biennial water quality assessment. In this assessment water bodies are grouped into five categories:

- Category 1: Meets tested standards for clean waters.
- Category 2: Waters of concern. (There may be some evidence of pollution but not enough to require a TMDL or clean-up plan.)
- Category 3: Insufficient data.
- Category 4: Polluted waters that do not require a clean-up plan. (Typically, this is because a plan is already in place or the impairment is related to flow rather than water quality.)
- Category 5: Polluted waters that require a TMDL, or other clean-up plan. (Traditionally referred to as the "303(d) list," Ecology 2015.)

2.4.1. Streams

Jovita Creek

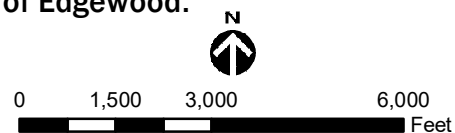
The drainage basin for Jovita Creek is approximately 2.9 square miles, the majority of which extends north of Edgewood into King County; approximately one-third of the drainage basin (0.9 square miles) lies within the city. There are two main tributaries to Jovita Creek. The southern tributary is located north of Edgewood, east of Meridian Avenue. The headwaters area consists of a large emergent wetland (Kato & Warren 1997). The other tributary flows from Trout Lake in King County and is an important source of base flow to the stream. Within the city, the main stem of Jovita Creek flows in a steep-sided canyon. At the mouth of the canyon, the stream flows adjacent to Jovita Creek Boulevard before its confluence with the White River. The adjacent hill slopes in the canyon are subject to frequent slides caused by runoff from the plateau above, tree falls, unstable slopes, and high flows in the creek. Jovita Boulevard East has been washed out on several occasions due to flooding and sediment discharge from Jovita Creek.



Legend

-  Edgewood city limits
-  County boundary
-  Untyped Stream/Drainage Course
-  Type F Stream (Fish Bearing)
-  Waterbody
-  Pothole
-  Road

Figure 2-4.
Surface Water Features in the
City of Edgewood.



Due to bacteria exceedances of state water quality standards, Jovita Creek is considered an “impaired water” and is therefore included on the Washington State 303(d) list and was included as part of the Puyallup River bacteria TMDL. Since there is a TMDL in place for the Puyallup it, and Jovita Creek, are listed as Category 4 waters, indicating that there is a pollutant of concern but that a plan is in place to address the issue. The City’s responsibilities under the TMDL are to track construction activities in the Jovita Creek basin and prioritize field screening for illicit discharges in this area.

Simons Creek

Formed in a steep ravine in the southern portion of Edgewood, Simons Creek is fed by stormwater runoff. Although the headwaters are near Lake Chalet, there is currently no direct hydrologic connection between the stream and the Lake Chalet Pothole. No homes or roads on the plateau are threatened by the stream, but residents on the valley floor experience frequent high sediment flows out of the ravine. After leaving the ravine, Simons Creek flattens out and flows approximately a mile before entering Wapato Creek.

Due to bacteria exceedances of state water quality standards, Simons Creek is considered an “impaired water” and is therefore included on the Washington State 303(d) list. Simon’s Creek is listed as Category 5 because there is no clean-up plan or TMDL in place to address this issue. There is also a Category 2 listing due to potential for benzene pollution, and it is listed as Category 4 due to low instream flow.

Surprise Lake Creek

Surprise Lake Creek is the outflow from Surprise Lake near the western boundary of the city. Most of the lower portion of this stream flows through a steep ravine; the slope decreases just east of Freeman Road. Then the stream is culverted across private property and enters a culvert under Freeman Road before joining Hylebos Creek (Kato & Warren 1997). The steep ravine through which the stream travels is subject to frequent slides and erosion. Surprise Lake Creek is listed as Category 5 for mercury and as Category 2 for potential pH impairment.

Wapato Creek

Although a significant portion of the city conveys water toward Wapato Creek, only a small portion of the stream lies in the southwest corner of the city. The stream is located in the flat river valley bottom flowing somewhat parallel to the Puyallup River. Several drainages convey runoff west from the southern slopes of the city into the Blair Waterway and then into Commencement Bay in Puget Sound. Wapato Creek is listed as impaired (Category 5) due to both high bacteria and low dissolved oxygen and also has documented low instream flows (Category 4).

2.4.2. Closed Depression Basins or Potholes

Edgewood contains six hydrologically isolated closed depression basins or “potholes” that have no natural outflow and are therefore prone to flooding during wet weather. As the soils in the watersheds contributing to these potholes become saturated, the water moves as surface and subsurface flow to the potholes, causing water levels to rise. About 35 percent of the total city area drains to these potholes (Kato & Warren 1997). Approximately 0.28 square miles (or 180 acres) becomes inundated during periods of prolonged wet weather, such as the winter of 2016–2017, impacting almost one-third of the city due to road closures and property damage. Flooding events have occurred with regular frequency in recent years, with at least three events over the past 10 years (J. Metzler, personal communication).

All of the potholes are mapped as wetlands. There are no specific water quality standards applied to wetlands, but state antidegradation criteria require that designated uses of wetlands, such as groundwater exchange and stormwater attenuation, be protected and that hydrologic conditions and wetland vegetation be maintained. Table 2-4 describes the physical characteristics of each pothole, while Appendix B includes descriptions of stormwater-related problems associated with each pothole.

Table 2-4. Catchment Size, Pothole Size, and Flooded Area Comparison.			
Pothole Name	Size of catchment (acres)	Size of Pothole (acres)^a	1997 Flooded Area (acres)^b
Edgewood Bowl Pothole	656	86	64
Lake Chalet	136	18	13
Pinedale Pond (114th Avenue) Pothole	384	59	48
108th Avenue Pothole	226	69	30
122nd Avenue Pothole	348	18	23
Surprise Lake Pothole	74	5	4.3

Note: All sizes are approximate based on elevations.

^a Size calculated from approximate pothole boundaries at flood stage provided by the City.

^b From Kato and Warren 1997

Edgewood Bowl

The largest of the potholes is locally referred to as the Edgewood Bowl. It lies in the northeast section of Edgewood (Figure 2-4) adjacent to the Jovita Creek and North Slopes (White River) subbasins. The western border is a ridge east of Meridian Avenue North; the adjacent watershed to the west is Surprise Lake. The pothole is approximately 86 acres in size with a contributing area of approximately 656 acres. There is standing water in the bottom of the pothole for most if not all of the year.

Infiltration is limited in this pothole by the underlying compacted soil layers (Figure 2-2). During years of high precipitation, waters in the individual low areas rise and form one large area of

standing water. During bad events, roads and driveways have been closed for months at a time. In 1997, the maximum flooded area was approximately 64 acres (Kato & Warren 1997).

Lake Chalet

Lake Chalet is located in a depression in west-central Edgewood. Fed by stormwater runoff, it retains water year-round. The pothole is approximately 18 acres in size with a contributing area of approximately 136 acres. During years of high precipitation, it frequently floods the adjacent low-lying areas. In 1997, the maximum flooded area was 13 acres (Kato & Warren 1997). A culvert south of the lake carries water between the lake and an adjacent depression, but there is no outlet control.

Pinedale Pond/114th Avenue Pothole

This pothole lies immediately south of the main Edgewood Bowl Pothole. The pothole is approximately 59 acres in size with a contributing area of approximately 384 acres. It is hydrologically separated from the larger pothole by a minor east-west running ridge in the vicinity of 24th Street East. The southern border is generally 32nd Street East with a short extension to 36th Street East. It exhibits the same characteristics and performance as the larger pothole. In 1997, the maximum flooded area for this pothole was approximately 48 acres.

108th Avenue Pothole

This pothole lies between the 122nd Avenue, Lake Chalet, and Pinedale Pond/114th Avenue Potholes. The pothole is approximately 69 acres in size with a contributing area of approximately 226 acres. A small area of this pothole remains wet year-round. The flat surrounding topography leads to large inundated areas: in 1997, the maximum flooded area was 30 acres.

Surprise Lake Pothole

Surprise Lake Pothole is the smallest of the Edgewood potholes and is located west of the Edgewood Bowl Pothole near Meridian Avenue and 16th Street East. The pothole is approximately 5 acres in size with a contributing area of approximately 74 acres. There is no standing water in this basin under dry weather conditions. Localized flooding can occur during heavy rainfall periods. The maximum flooded area in 1997 was 4 acres.

122nd Avenue Pothole

This smaller and steeper-sided pothole lies south of the Pinedale Pond/114th Avenue Pothole. The pothole is approximately 18 acres in size with a contributing area of approximately 348 acres. Its boundaries are defined generally by 32nd Street East to the north and 43rd Street Court East to the south. It is adjacent to the steep slopes on the eastern and southern edges of the city. It has wetland plants and areas of standing water, is fed by stormwater runoff, and its

only avenues of drainage are limited infiltration and evaporation. In 1997, the maximum flooded area was 23 acres.

2.5. CRITICAL AND HAZARD AREAS

Critical areas are designated to protect natural resources and prevent harm to the community from natural hazards. The term “natural resources” typically refers to streams, wetlands, fish and wildlife habitat, wetlands, critical aquifer recharge areas (CARAs), and wellhead protection areas (WHPAs). Generally speaking, natural hazards refer to geologically hazardous areas (e.g., steep slopes) and areas at risk for flooding. Critical areas are regulated at the state and county level. Edgewood’s critical areas ordinance (CAO) (No. 17-492) was amended and adopted in 2018. The following sections describe the natural resources (groundwater, wetlands, and habitat) protected by the CAO and the natural hazard areas that have been defined to protect the public from harm.

2.5.1. Wetlands, Riparian Habitat, and Salmon Bearing Streams

Wetland, riparian habitat, and salmon bearing streams are all considered critical habitat and the City’s Critical Areas Ordinance (CAO) and municipal code (EMC 14.30. and EMC 14.40.) are the primary mechanisms used for protecting these areas.

Mapped wetlands in the city are shown on Figure 2-5. Approximately 6.5 percent of the city is mapped as wetland, including areas along the stream corridors, floodplains in the valley, and within potholes on the plateau. Table 2-5 identifies the area of wetlands for each basin. The Edgewood Bowl and 108th Avenue Pothole basins have the largest percentage of wetland of all basins within the city.

Protection of riparian habitat is of high importance in Edgewood because many of the area’s streams provide critical habitat for salmon spawning and rearing. The Washington Department of Fish and Wildlife (WDFW) fish passage website (<<http://apps.wdfw.wa.gov/fishpassage/>>) documents the presence of salmonids and barriers to fish passage. Figure 2-5 shows the stream reaches used by salmon, and currently mapped barriers such as dams, weirs, and undersized culverts. The City has not completed an independent survey of culverts that may impede fish passage or limit potential fish habitat.

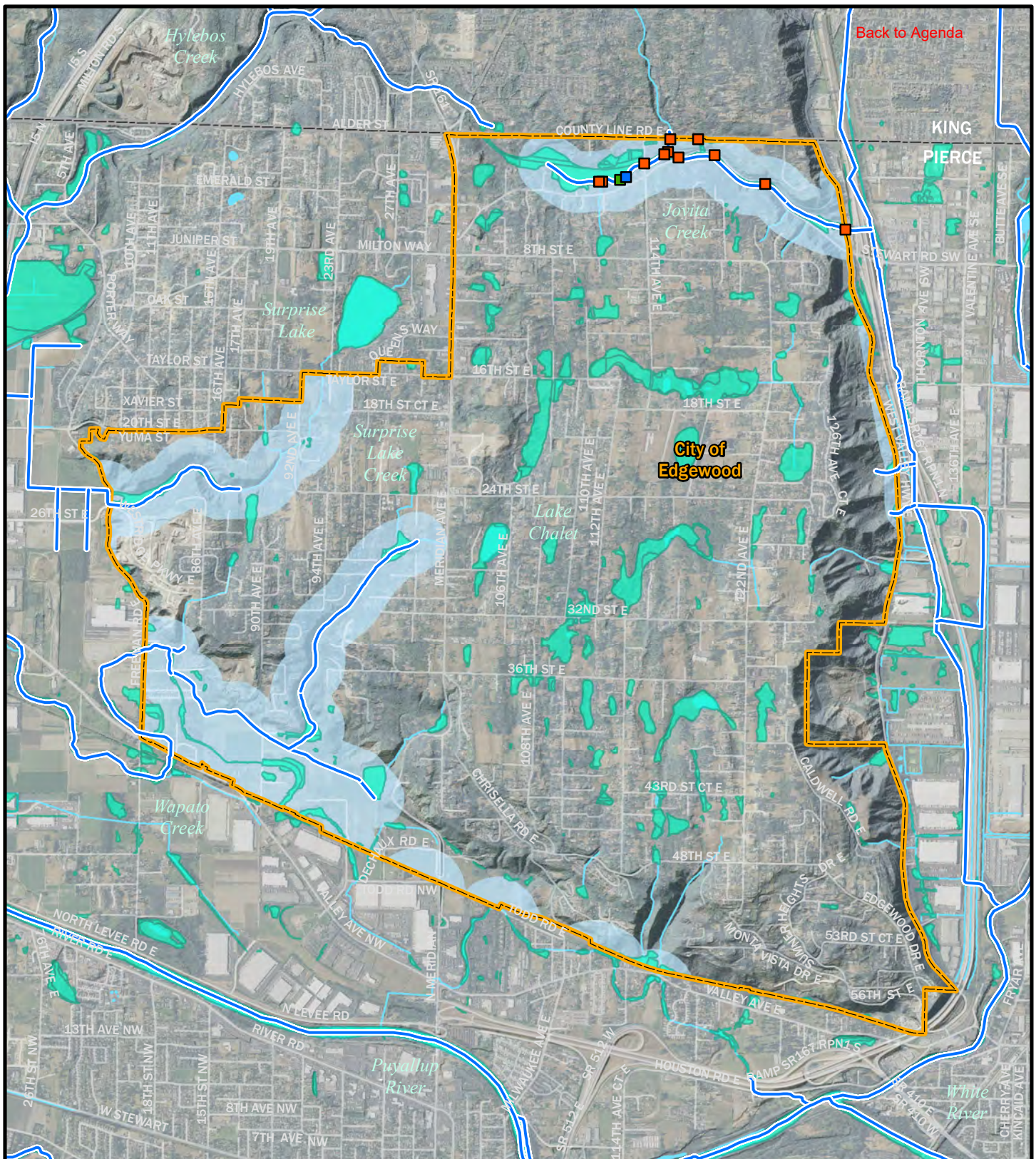


Table 2-5. Critical Areas in Edgewood Drainage Basins.																
Basin Group/Subbasin	Wetland		Stream Corridor		WHPAs		Vulnerable ARAs		Steep Slopes (>20%)		Steep Slopes (>40%)		FEMA 100 year Floodplain		Flood Hazard Area	
	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)	(ac)	(%)
White River Basin																
North Slopes	7.5	3%	29.8	11%	1.4	1%	3.7	1%	138.2	50%	9.9	3%	0.0	0%	0.0	0%
Central Slopes	2.7	4%	0.0	0%	0.0	0%	1.0	1%	46.1	61%	2.3	3%	0.0	0%	0.0	0%
Southern Slopes	1.2	1%	0.0	0%	0.0	0%	0.5	0%	53.7	28%	6.0	5%	0.0	0%	0.0	0%
Jovita Creek Basin																
Jovita Creek	59.0	9%	224.3	36%	434.3	70%	7.4	1%	60.1	10%	9.7	2%	12.6	2%	12.6	2%
Puyallup River Basin																
Upper Wapato Creek	16.9	4%	27.3	6%	4.7	1%	13.2	3%	107.3	24%	4.0	1%	0.0	0%	1.4	0%
Wapato Creek Basin																
Lower Wapato Creek	23.1	4%	177.4	31%	370.4	64%	181.1	31%	68.6	12%	4.2	1%	55.7	10%	75.8	13%
Simons Creek Basin																
Simons Creek	13.7	3%	233.6	44%	503.4	95%	37.7	7%	52.4	10%	6.6	1%	24.3	5%	24.3	5%
Tributary to Simons Creek	10.6	4%	78.1	30%	238.7	91%	56.6	22%	21.6	8%	1.0	0%	14.5	6%	18.1	7%
Hylebos Creek Basin																
Surprise Lake Creek	15.8	3%	216.9	46%	63.3	13%	2.2	0%	89.0	19%	8.6	0%	13.5	3%	13.5	3%
Surprise Lake	3.0	5%	0.0	0%	34.9	56%	0.0	0%	0.5	1%	0.0	0%	0.0	0%	0.0	0%
Hylebos Creek	0.0	0%	0.0	0%	0.7	16%	0.0	0%	0.6	13%	0.0	0%	0.0	0%	0.0	0%
Pothole Basins																
Edgewood Bowl Pothole	88.9	14%	0.0	0%	634.6	97%	0.0	0%	5.4	1%	0.0	0%	0.0	0%	70.5	11%
Lake Chalet Pothole	11.1	8%	0.0	0%	136.0	100%	0.0	0%	0.8	1%	0.0	0%	0.0	0%	19.8	15%
Pinedale Pond/114th Avenue Pothole	30.0	8%	0.0	0%	357.5	93%	0.0	0%	2.0	1%	0.0	0%	0.0	0%	45.8	12%
108th Avenue Pothole	30.8	14%	0.0	0%	225.9	100%	0.0	0%	0.6	0%	0.0	0%	0.0	0%	31.3	14%
122nd Avenue Pothole	25.5	7%	0.0	0%	234.2	67%	0.0	0%	1.7	0%	0.0	0%	0.0	0%	32.6	9%
Surprise Lake Pothole	5.7	8%	0.0	0%	67.4	91%	0.0	0%	1.1	1%	0.0	18%	0.0	0%	4.3	6%
Total	345.6	6%	987.4	18%	3,307.5	62%	303.5	6%	649.6	12%	52.3	1%	120.7	2%	350.1	7%

Within Edgewood, there are four streams with documented fish presence:

- Surprise Lake Creek and Jovita Creek support Fall Chinook and Pink Salmon;
- The unnamed tributaries in the Central Slopes subbasin support Pink Salmon, Fall Chinook, Fall Chum, and Winter Steelhead;
- Simon's Creek supports Coho and Fall Chum; and
- Wapato Creek supports Coho, Fall Chinook, and Fall Chum.

There are 13 inventoried fish passage barriers in the city, all associated with Jovita Creek.

2.5.2. Natural Hazards

Natural hazards are defined in the CAO and designated pursuant to Chapter 14 EMC. The most pertinent natural hazards affecting stormwater planning and development are flood and landslide hazard areas.

Landslide Hazards and Steep Slopes

Landslide hazard areas are defined as areas potentially subject to land regression or retreat due to a combination of geologic, seismic, and/or hydrologic or manmade factors, such as vegetation loss, soil type, slope instability, and hydrology. Steep slopes, defined as areas between 20 and 40 percent slope and greater than 40 percent slope, were also calculated and mapped for the City (Figure 2-6).

Steep slopes are mapped along much of the eastern and southern edges of the city and are associated with the stream and drainage corridors that convey water from the plateau area to the valley bottom (Table 2-5 and Figure 2-6). In total, approximately 23 percent of the city is classified as having steep slopes greater than 20 percent and 1 percent of the city is classified as having steep slopes greater than 40 percent (Table 2-5). There are three basins where steep slopes (greater than 20 percent) comprise more than 50 percent of the area: Central Slopes, North Slopes, and Southern Slopes. Stormwater infiltration based BMPs can exacerbate landslide hazards, thus this data needs to be considered during stormwater project development.

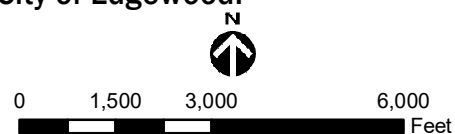


Legend

- | | |
|-------------------------------------|-------------------------|
| Edgewood city limits | Steep slopes (20 - 40%) |
| County boundary | Steep slopes (>40%) |
| City-identified flood hazard areas | Waterbody |
| FEMA floodway | |
| City-identified floodway | |
| FEMA 100-year floodplain | |
| City-identified 100-year floodplain | |

Source: City of Edgewood

Figure 2-6.
Mapped Flood and Landslide Hazards in the City of Edgewood.



USDA, Aerial (2015)

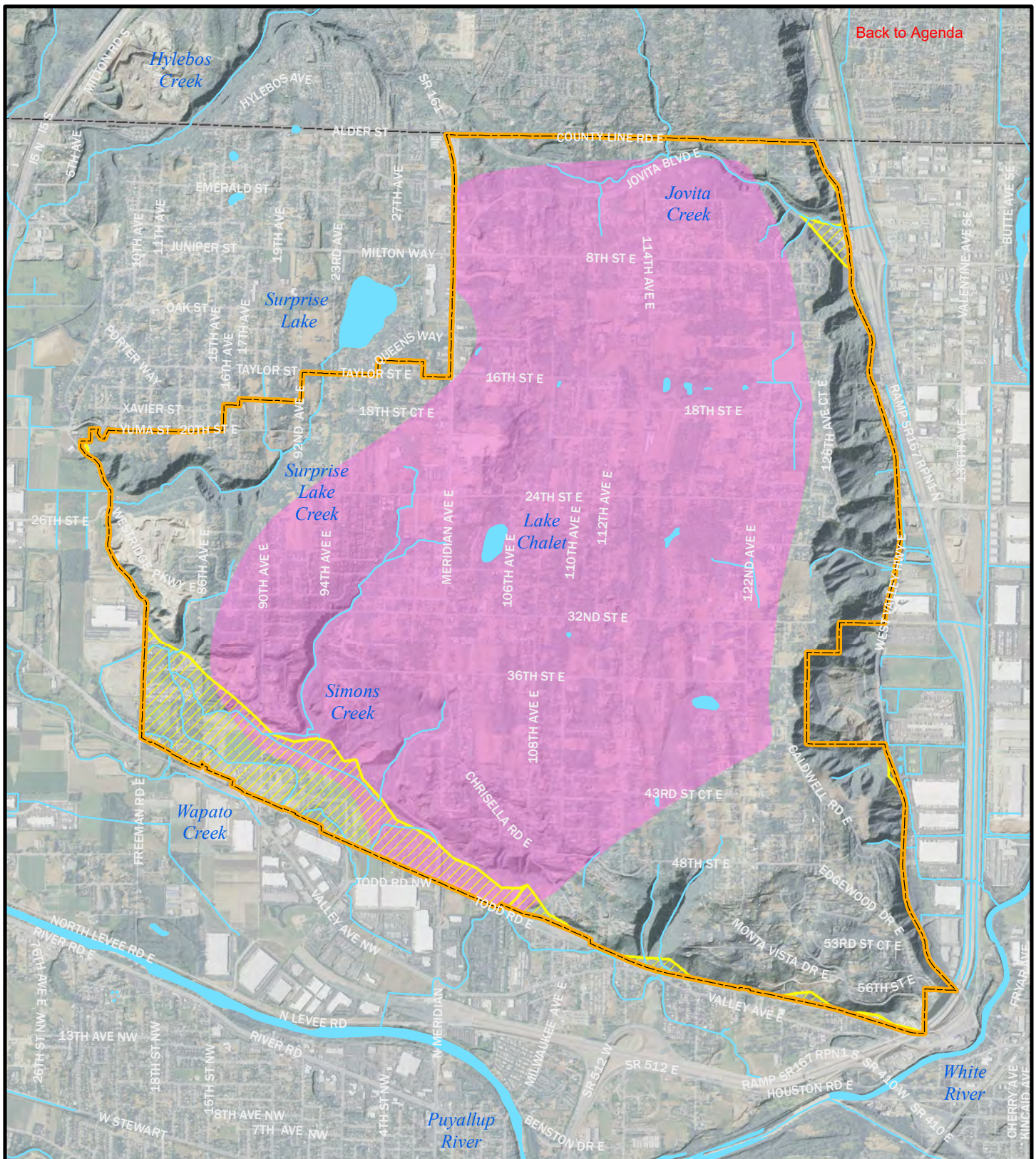
Flood Hazards

The Federal Emergency Management Agency (FEMA) designates flood zones (floodways and floodplains) based on predicted flood recurrence intervals. The 100-year floodplains as designated by FEMA are mapped on Figure 2-6. This includes areas that may be flooded by rivers during high flow conditions. Riverine flooding is a significant concern in the Jovita Creek, Simons Creek, and Surprise Lake Creek basins, where streams discharge from steep slopes to flow across relatively flat valleys, but this includes only 2 percent of the city. FEMA floodplain mapping does not account for the flood hazards related to the pothole basins. These are flooded much more frequently than the 100-year frequency used by FEMA and have a different, local designation as flood hazards. About 6.6 percent of the city is classified as a flood hazard, as shown in Figure 2-6 and Table 2-5. As described previously, flooded areas associated with the potholes can impact up to 30 percent of the city due to road closures.

2.5.3. Groundwater Resources

Groundwater resources are an important consideration for stormwater planning efforts, because many stormwater management strategies that rely upon infiltration have the potential to influence groundwater quality. The local water purveyor, Mountain View-Edgewood Water Company (MTVE), relies on groundwater for its sole source of supply (Engineering Consultants Northwest 2017), and has won awards for the quality of their drinking water. A Wellhead Protection Plan developed for MTVE (Robinson-Noble 2005) lays out the major components for source protection, including a susceptibility assessment, a delineated wellhead protection area, a spill response plan, and contingency plans.

Vulnerable Aquifer Recharge Areas (VARAs), defined as areas with a critical aquifer recharging effect on aquifers used for potable water, and wellhead protection areas (WHPAs) defined as a surface and subsurface land area regulated to prevent contamination of a well or well-field supplying a public water, have recently been adopted by the City during an update of their Critical Areas Ordinance. As shown in Table 2-5, 6 percent of the city is within a VARA. These are concentrated in the valley along Wapato Creek in the southwest area of the city with a smaller area in the floodplain of Jovita Creek. Approximately 62 percent of the city is within a designated WHPA for the MTVE wells. Designated WHPAs and VARAs within the city are shown on Figure 2-7.

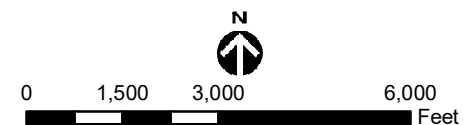


[Back to Agenda](#)

Legend

-  Edgewood city limits
-  County boundary
-  Vulnerable aquifer recharge area
-  Wellhead protection area
-  Waterbody
-  Stream

Figure 2-7.
Vulnerable Aquifer Recharge Areas
and Wellhead Protection Areas.



USDA, Aerial (2015)

Source: City of Edgewood

K:\Projects\Y2017\17-06504-000\Project\Report\Map\Initial Aquifer Recharge Areas.mxd

12/04/2018 Study Session

Page 80 of 239

2.6. EXPECTED FUTURE CONDITIONS

2.6.1. Climate Change

Predicted Climate Changes

Significant research on climate change predictions has been conducted by the Climate Impacts Group (CIG) at the University of Washington. This research projects the local effects of global climate change using 20 global climate models and two greenhouse gas emissions scenarios. Local climate impacts are identified by downscaling model results and supplementing data with regional climate models.

Some general, stormwater-related predictions for the Puget Sound area for the next 50 years include (Mauger et al. 2015):

- There are no statistically significant trends toward wetter or drier conditions.
- Future occurrences of heavy rainfall are projected to be more frequent and more intense and will exacerbate flooding in many areas.
- Seasonal, year-to-year, and decade-to-decade variations will remain an important feature of local climates.
- There is a projected increase in landslide risk, erosion, and sediment transport during wetter months.
- For rain dominant watersheds, projected streamflow changes are less dramatic than those watersheds closer to the snowline.

Table 2-6, summarizes CIG's most recent climate change predictions for the watershed that contains the Edgewood area (Mauger et al. 2015). As shown, predictions indicate that average winter and summer temperatures will increase, winter precipitation and runoff will increase, and summer precipitation and runoff will decrease. Peak flows were not predicted for the streams within Edgewood; however, the general prediction for most of the Puget Sound basin is an increase in the magnitude and frequency of these flows.

**Table 2-6. Predicted Climate Change for Edgewood Area
(interpreted from Mauger et al. 2015).**

Climate Component	Historical	Lower Emission Rate Scenario	Higher Emission Rate Scenario
Average Winter Temperature	38 to 43 (degrees F)	+2 to +3 (change degrees)	+ 4 to +5 (change degrees)
Average Summer Temperature	60 to 64 (degrees F)	+3.9 to +5.6 (change degrees)	+5.6 to +7.2 (change degrees)
Winter Precipitation	34 to 45 (inches)	+7 to +8.5% (percent change)	+8.5% to +10% (percent change)
Summer Precipitation	8 to 12 (inches)	-8 to -6% (percent change)	Unknown ^a
Maximum 24-Hour Precipitation	1.6 to 2.3 (inches)	+10 to +15% (percent change)	+15 to +20% (percent change)
Summer Water Deficit	4 to 9 (inches)	+1 to +2 (change inches)	+1 to +2 (change inches)
Winter Runoff	18 to 24 (inches)	0 to +20%	0 to +20%
Summer Runoff	0 to 8 (inches)	-10% to 0%	-10% to 0%

^a Unknown: The projected changes are based on 10 different global climate models. If there was less than 80 percent agreement between the models on the direction of change, then the results are reported as unknown.

These predicted climate changes would alter stream flows, flood risk, water quality, and habitat as shown in Table 2-7. Increased winter precipitation will increase flood risk, including risk of surface water flooding in potholes and stormwater conveyance. It could also increase the risk of groundwater induced flooding. The summertime increases in air temperature will result in an increase in the number of growing degree days in addition to overall increases in evaporation and transpiration, thus increasing the potential for future summer water deficits. This in turn means both a reduction in the amount of water that is available to recharge groundwater during the summer months as well as increased removal from groundwater supplies. Many wetlands located in the upland potholes serve as habitat for waterfowl and may be threatened by increased dry periods in the summer. Cold water fish using streams leading from the plateau may be threatened by increased temperatures and reduced dissolved oxygen and flow.

Table 2-7. Expected Responses to Stormwater Management Components from Predicted Climate Change Effects.	
Stormwater Management Component	Predicted Response to Climate Change
Stream Flows	Increased winter flows Decreased summer flows Likely Increased magnitude and frequency of peak events
Groundwater Supply	Decreased recharge during summer months Increased use during summer months
Flood Risk	Increased flood risk from rivers, streams, and stormwater conveyance system Possible increase in groundwater induced flooding Increased flood risk from channel migration
Water Quality	Increased average and summer water temperature Increased erosion and suspended materials Lower dissolved oxygen Increased algal blooms
Habitat	Wetland conversion from perennial to seasonal Possible loss of streamside vegetation Decrease in cooler/oxygenated water habitats

2.6.2. Population Growth and Annexations

Population growth and new annexations can result in a further strain for stormwater management programs. While both population growth and annexations would bring additional revenue to the stormwater utility, increased populations result in more impervious area and therefore more runoff and more pollutant sources. Annexations result in an expansion of the service area and likely a new set of existing drainage system problems and resource constraints.

The 2010 Census estimate of the city's population was 9,387. Edgewood's estimated population in 2015 was 10,734, representing a 9 percent growth over the six-year period (US Census Bureau 2016). According to the City of Edgewood's 2015 Comprehensive Plan, the population is expected to grow to 13,700 by 2035 (Edgewood 2015). There are no current plans for annexations, and a large part of the city is bounded by other cities, so this is not generally a concern for stormwater planning in Edgewood.

2.7. STORMWATER SYSTEM CHARACTERISTICS

2.7.1. Stormwater System Features

The City's Stormwater Utility manages a large and complex storm drainage system that consists of underground pipes, open ditch conveyance, stormwater treatment features and more as summarized in Table 2-8. While some of this system drains to wetlands and ponds within closed depressions that infiltrate to groundwater, most of the conveyance network directs stormwater from the plateau to the Puyallup River valley. A map of the City's stormwater system is provided in Figure 2-8.

Table 2-8. Summary of Key Features of the City of Edgewood's Stormwater System.	
Item	Quantity^{a,b}
Catch Basins	523
Manholes	19
Control Structures	56
Vaults	10
Drywells	54
Detention Ponds ^c	4
City Storm System Pipes	22 miles
City Storm System Channels	28 miles

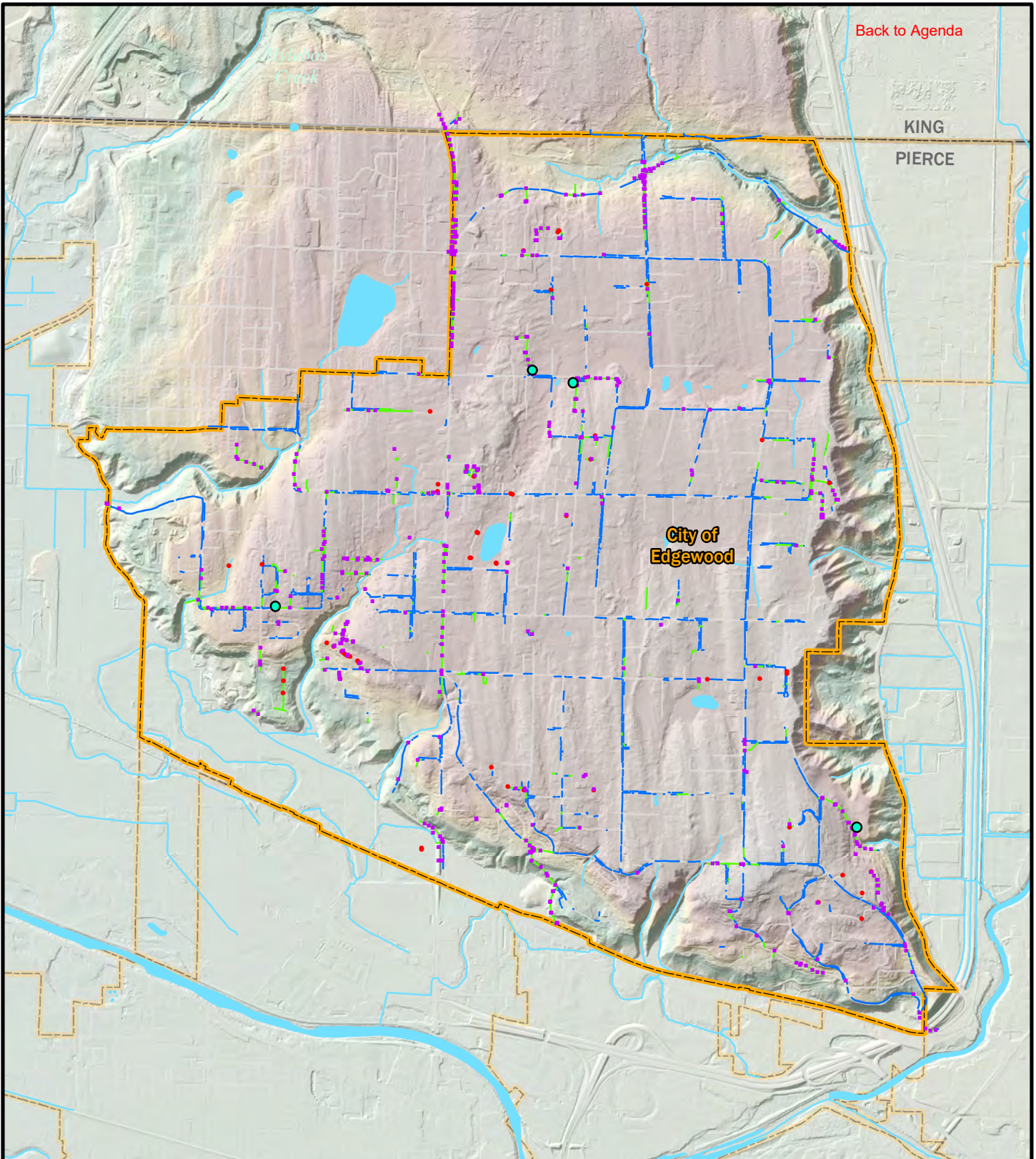
^a Based on City of Edgewood GIS data provided in 2017.

^b Feature count includes only City-owned features. Stormwater features with "Null" values for ownership are excluded from feature summary.

^c The City's mapped data does not include stormwater ponds, although mapped pipes and channels discharge to public ponds. These pipes were identified and checked using aerial photos to identify unmapped ponds and ponds fed by multiple pipes.

2.7.2. Stormwater System Maintenance

A majority of Edgewood's municipal maintenance and inspection activities that are required by the Permit are performed by Pierce County Public Works crews through an interlocal agreement (ILA) between the City and Pierce County Public Works and Utilities Department. As part of this agreement, the City specifies a list of work to be completed each year, including street sweeping, Vector services, and small engineering projects. The County also provides services to the City on an on-call basis, though these requests may be denied under special circumstances such as extreme weather events.

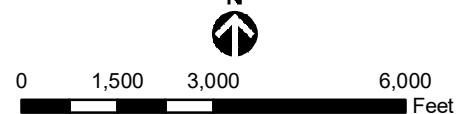


Legend

- | | |
|----------------------|------------------------|
| Edgewood city limits | Public pipe |
| County boundary | Channel |
| City limits | Catch basin |
| Roads | Dry well |
| Waterbody | Public stormwater pond |

Source: City of Edgewood

Figure 2-8.
Mapped Stormwater System Infrastructure
in the City of Edgewood.



USDA, Aerial (2015)

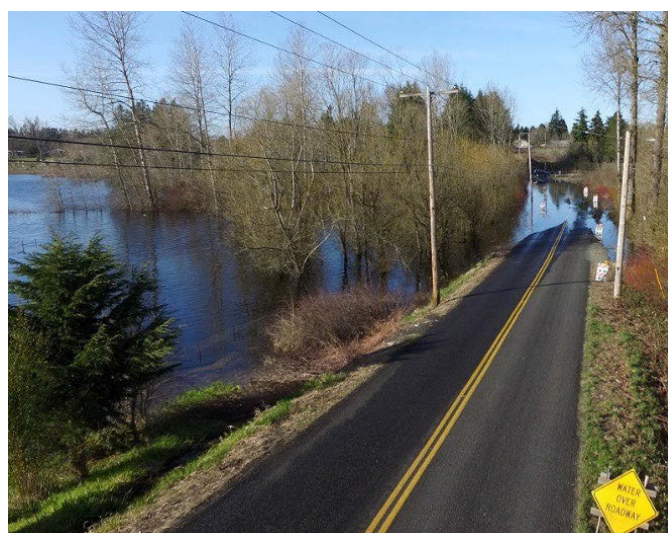
3. IDENTIFIED PROBLEMS AND RECOMMENDATIONS

Review of previous stormwater plans and information obtained during a workshop with City staff was used to develop an initial list of problems to be evaluated during work on this plan. These problems were evaluated using desktop methods and limited field evaluation to assess site-specific opportunities and constraints. To address the problems, 13 capital improvement program (CIP) project solutions are included in this plan and summarized in Tables 3-1 through 3-3. Two of the listed CIP projects represent multiple projects; these are the City's annual spot improvement program to address small localized flooding issues and pothole reduction plans, which would eventually address flooding in five different potholes. Figure 3-1 shows approximate project locations, not including projects associated with the City's spot improvement program.

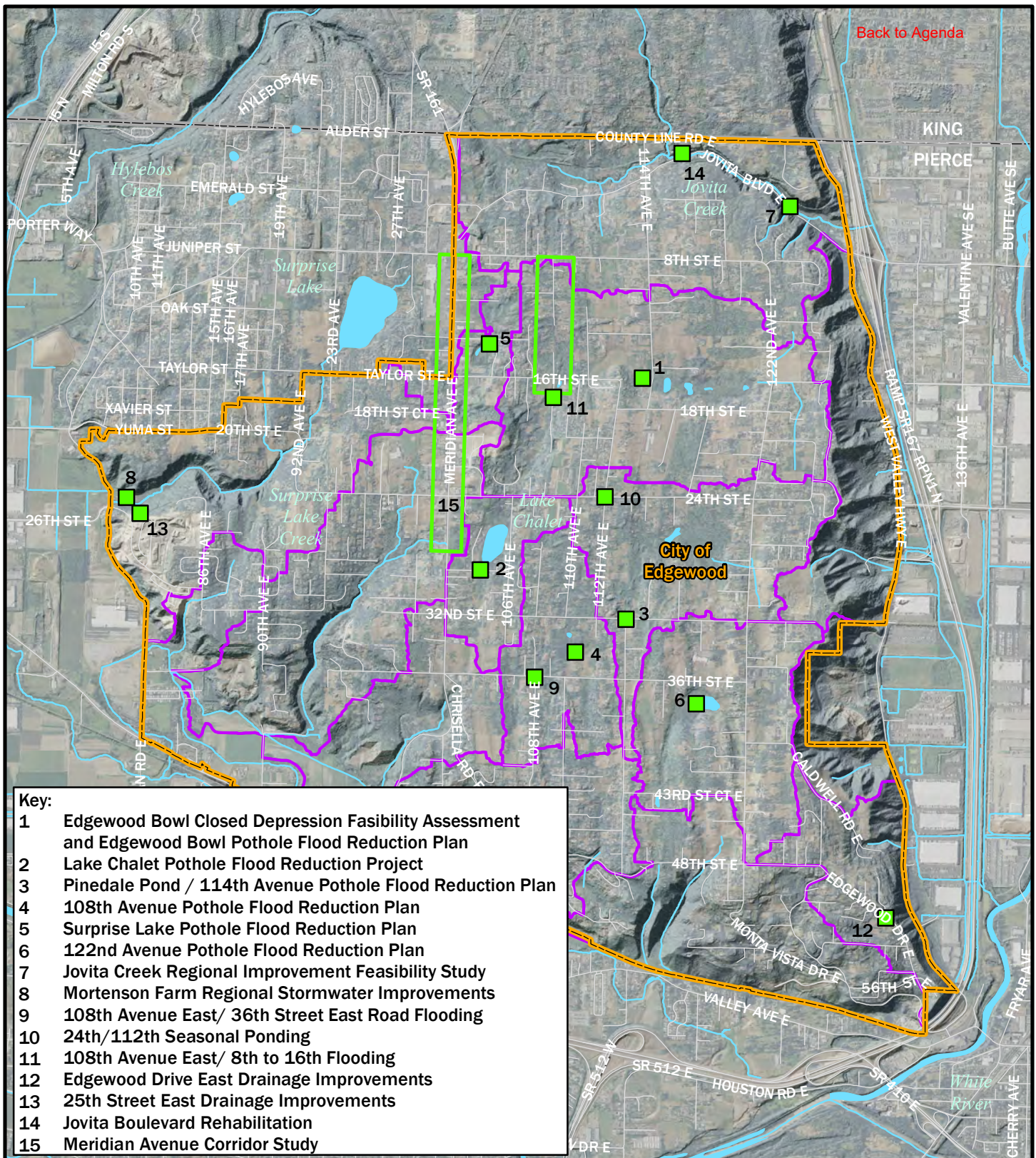
The projects fall into three categories; Pothole Flooding, Stream Planning and Protection, and Other Localized Flooding, as organized below. Project summary sheets, conceptual figures, and cost estimates are included in Appendix C for seven of the projects that were considered a potentially high priority.

3.1. POTHOLE FLOODING

Edgewood's six potholes receive stormwater runoff from surrounding neighborhoods and frequently flood during the winter months. This flooding is extensive and impacts a large portion of the city; during the winter of 2017 it impacted over 30 percent of the city and caused complete closure of multiple roadways for 32 consecutive days. A detailed alternatives assessment for addressing this stormwater problem was performed as part of developing the City's 1997 surface water management plan, but no clear solution was identified to address the problem.



Flooding of the Edgewood Bowl Pothole causes road closures.



Legend

- | | | | |
|--|----------------------|--|-------------------|
| | Edgewood city limits | | Subbasin boundary |
| | County boundary | | Road |
| | CIP Locations | | |
| | CIP Study Area | | |
| | Waterbody | | |
| | Stream | | |

Figure 3-1.

Locations of Proposed Stormwater Capital Improvement Projects.



0 1,500 3,000 6,000
Feet



USDA, Aerial (2015)

Pothole flooding remains the most significant stormwater-related issue in Edgewood; and given anticipated future development and projected wetter winter climate (See Section 2.5), the problem will likely increase in severity unless flood reduction strategies are implemented. One potential option for addressing this is to infiltrate treated stormwater to underground aquifers. Since there are some critical issues to evaluate before this option can be considered, a feasibility assessment for the Edgewood Bowl Pothole is the first listed project. Future flood control projects will depend upon the outcome of the feasibility assessment. Flood reduction studies would then be undertaken to develop detailed plans for five of the potholes. These plans will develop a preferred strategy for each pothole, which could include regional infiltration facilities, land acquisition, interbasin conveyance, and upland stormwater management, or a combination of these. Completing the feasibility assessment before development of individual flood reduction plans will allow consideration of regional infiltration facilities as a flood reduction option, if it is determined that they will provide appropriate safeguards for existing drinking water supplies, are cost effective, and are supported by stakeholders.

For Lake Chalet, the sixth pothole, a solution has already been identified that involves routing water through new and existing pipes to Simon's Creek, which was the natural overflow route for this pothole prior to modern development. Three alternatives for routing the water from Lake Chalet have been considered, and each is included as a project summary sheet in Appendix C.

Table 3-1 lists all the CIP project solutions proposed to address pothole flooding. The feasibility assessment and any subsequent flood control project planning will be coordinated with the MTVE.

A brief description of the specific flooding problems associated with each pothole is provided below.

Table 3-1. CIP Projects Identified to Address Pothole Flooding.^a		
Project Title	Summary	Cost
Edgewood Bowl Closed Depression Feasibility Assessment	Evaluate the feasibility and environmental benefits of treating stormwater to a level that is equivalent to or better than what occurs through the natural infiltration process in the Edgewood Bowl Pothole. This project includes monitoring water levels and water quality of all of the potholes.	\$400,000
Lake Chalet Pothole Flood Reduction Project	Convey water out of the pothole to reduce water surface elevation during flooding events.	\$412,000 to \$2,060,000 ^b (Cost range reflects differences of using pumped flow, gravity flow, or horizontal directionally drilled siphon alternatives.)
Pothole Flood Reduction Plans • Edgewood Bowl • Pinedale Pond/114th Avenue • 108th Avenue • Surprise Lake • 122nd Avenue	Develop and evaluate alternatives to address flooding in five of the potholes (not including Lake Chalet, which is addressed through a different project).	\$875,500 (\$175,100 ^b per pothole)

^a See Appendix C for project summary sheets, figures, and cost estimates related to these CIP projects.

^b Final cost estimates are based on cost estimates developed in 2017 increased by 3 percent inflation to reflect 2018 costs.

3.1.1. Edgewood Bowl Pothole

Edgewood Bowl Pothole is the highest priority pothole because it is the largest in terms of contributing area and flooded area. In 1997, 10 individual flooding problems were associated with Edgewood Bowl Pothole, including three areas of road closures (110th Avenue East, 16th Street East, and 114th Avenue East) and private property damage such as flooded crawl spaces, septic systems, drywells, and driveway erosion. In addition to property damage and safety issues caused by the flooding, wetlands associated with the pothole may be impacted by the water level fluctuation. The feasibility assessment listed in Table 3-1 is currently planned to occur in the Edgewood Bowl Pothole because it is the City's highest priority.

3.1.2. Lake Chalet Pothole

Flooding associated with the Lake Chalet Pothole affects many septic systems in the frequently flooded region near the pothole, and there are two drinking water wells near the pothole. In addition to these water quality concerns, 29th Street East is frequently closed due to flooding and two adjacent private properties are impacted. Projects in the Lake Chalet Pothole include monitoring to evaluate water quality and hydrologic conditions and a project to convey water from Lake Chalet to Simon's Creek to control flooding (Table 3-1). A flood reduction study is not currently planned for this pothole; however, if the currently proposed conveyance project is found to be infeasible, a flood reduction study will be needed. Any flood reduction project that drains water from this pothole will need to address the volume of water that needs to be controlled and the frequency and duration of discharge to evaluate potential downstream impacts as well as impacts on groundwater recharge.

3.1.3. Pinedale Pond/114th Avenue Pothole

There are several flooding problems associated with this pothole: seasonal flooding is experienced on eleven private properties and three roadways are on the flood fringe (117th Avenue East, 112th Avenue East, and 32nd Street East). Flooding of this pothole also affects associated wetland areas.

3.1.4. 108th Avenue Pothole

The 108th Avenue Pothole is located close to the Pinedale Pond/114th Avenue Pothole with similar challenges and a lack of water quality data for ponded areas and wetlands. There are five flooding problems associated with this pothole: two private properties and three roadways (108th Avenue East, 32nd Street East, and 36th Street East).

3.1.5. Surprise Lake Pothole

Surprise Lake Pothole is the smallest of the Edgewood potholes. There is flood risk for two houses and one septic system, which is a water quality concern.

3.1.6. 122nd Avenue Pothole

The 122nd Avenue Pothole has steeper slopes surrounding it that limit the area affected when the water level rises. Although the 1997 plan identified private homes, driveways, and buildings flooded along 122nd Avenue East, only one private driveway has been impacted by the rising water levels in recent years.

3.2. STREAM PLANNING AND PROTECTION

Two projects have been identified to restore and protect local streams that will require planning and assessment before specific solutions can be identified; these are listed in Table 3-2. The Jovita Creek project will require extensive coordination with other local jurisdictions before a protection and restoration plan can be developed. The Mortenson Farm site has been identified as a possible mitigation site by the Washington State Department of Transportation to mitigate for the impacts from future construction of the SR 167 Extension project. Therefore, this will also require coordination but may likely be partially funded by the Washington State Department of Transportation.



Mortenson Farm wetland restoration site.

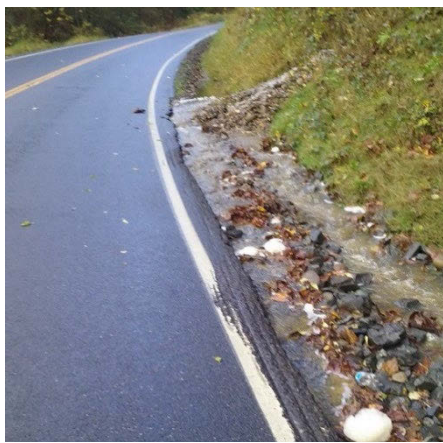
Table 3-2. CIP Projects Related to Stream Protection and Planning.

Project Title	Summary	Cost
Jovita Creek Regional Improvement Feasibility Study ^a	Develop a plan for the Jovita Creek basin that will define actions to address flooding, slope stability, erosion, water quality, fish barriers, and habitat health.	\$515,000 ^b
Mortenson Farm Regional Stormwater Improvements	WQ Improvements, Stream Channel Restoration, Regional Detention Evaluation, Wetland Enhancement, Passive Recreation	TBD (Coordinating with WSDOT as part of SR 167 Mitigation)

^a See Appendix C for project summary sheet, figure, and cost estimate related to this CIP project.

^b The final cost estimate is based on the cost estimate developed in 2017 inflated by 3% inflation to reflect 2018 costs.

3.3. OTHER IDENTIFIED FLOODING PROJECTS



Stormwater runoff on the side of Jovita Boulevard in Edgewood transports pollutants and can damage the roadway.

There are localized, nuisance flooding problems that are caused by such things as undersized culverts, erosion from steep slopes, deteriorating infrastructure, lack of maintenance of stormwater facilities, and/or changes to land use or the drainage network on adjacent or nearby property. If these problems are on City property or are a result of problems with City-controlled infrastructure, they can be addressed over time as part of a long-term repair and rehabilitation program, other related infrastructure upgrades (e.g., roadway repairs), or stand-alone projects in the CIP plan. Table 3-3 lists CIP projects that address identified, localized flooding problems. The first listed project, "City Drainage Infrastructure Program/Spot Improvements" is not a specific project but addresses this long-term need.

As is the case in most jurisdictions, there are also localized flooding problems that stem from private property, such as where drainage patterns have been changed resulting in damage to adjacent or downstream private properties. The City has limited jurisdiction on private property and is further constrained by laws that prohibit the use of public funds for private benefit. The City should develop a protocol for addressing flooding or stormwater discharge issues associated with private property. The protocol should include outreach to adjacent property owners and education on responsibilities and follow-up activities. The City may also want to consider identifying these problems on property tax assessments or use other mechanisms to alert potential property owners during property transactions.

Table 3-3. CIP Projects Related to Localized Flooding.

Project Title	Summary	Cost
City Drainage Infrastructure Program/Spot Improvements	Ongoing annual program to identify and address small localized drainage problems.	\$100,000 (annual cost)
108th Avenue East/ 36th Street East Road Flooding	Evaluate alternatives and implement a project to prevent roadway flooding.	\$1,030,000 ^a
24th/112th Seasonal Ponding	Shoulder and culvert improvements to resolve seasonal flooding and dangerous roadside conditions.	\$180,300 ^a
108th Avenue East/ 8th to 16th Flooding	Improving collection and conveyance system on dead-end road; handling public runoff to reduce private property flooding.	\$360,500 ^a
Edgewood Drive East Drainage Improvements ^b	This project will improve conveyance to reduce roadway and property flooding during large storm events.	\$885,800 ^a
25th Street East Drainage Improvements ^c	Stabilize and repair slide damage to prevent slides, shoulder erosion, and roadway flooding in the future.	\$206,000 ^a
Jovita Boulevard Rehabilitation	Reconstruct existing roadway to protect slopes, prevent erosion, and preserve storm drainage conveyance.	\$515,000 ^a
Meridian Avenue Corridor Study	Recent widening between 8th Street East and 24th Street East isolated properties on the east side, making surface water improvements prohibitive in some cases. Opportunities to restore natural drainage pathways are needed.	\$51,500 ^a

^a Final cost estimates are based on cost estimates developed in 2017 inflated by 3 percent inflation to reflect 2018 costs.

^b See Appendix C for project summary sheet, figure, and cost estimate related to this CIP project.

^c This roadway segment is now closed to traffic, and the City is re-evaluating the design solution for this site.

3.4. PROGRAM REVIEW AND UPDATES

Stormwater program priorities and needs are continually changing. The following provides a list of steps that should be scheduled to occur routinely to ensure efficiency of the City's overall stormwater program.

Recommendations

- Develop and maintain a list of known drainage problems and encourage field staff to contribute to the list on a quarterly basis, especially after storm events when they may have noted problems in the field.
- Annually review CIP projects planned by other departments to make more efficient use of limited resources by combining projects from multiple departments.
- Consider flow control and water quality retrofits through modification of existing facilities or LID development practices as part of projects programmed through other departments.
- Add flow control and water quality retrofit CIP projects or neighborhood drainage improvement CIP projects to the site-specific problems list.
- Revise this Comprehensive Stormwater Plan at least every 5 years, to ensure that it provides for effective long-term stormwater project planning, system maintenance, response to mandates, and program funding.
- Ensure the City's stormwater manual is regularly updated and ensure all City and private projects conform with the City's adopted stormwater requirements.

4. STORMWATER MANAGEMENT PROGRAM

This section includes a summary of stormwater management program needs. It includes those programmatic needs that are driven by regulations (i.e., the NPDES Phase II Permit [Permit] and State UIC guidelines) and the City's goals and policies that pertain to the stormwater program as listed in Section 1.3. A detailed Gap Analysis and Needs Assessment related to Permit compliance was completed as a part of development of this plan and is included as Appendix A.

4.1. NPDES PHASE II PERMIT COMPLIANCE

The most significant regulatory requirement facing the City's SWMP is the NPDES Phase II Permit (Ecology 2013), which addresses a variety of issues associated with stormwater runoff and requires the City to develop several distinct stormwater management program components. The City's current Stormwater Management Program (SWMP) is designed to achieve compliance with the Permit, to minimize the adverse impacts of stormwater on the natural and built environments (i.e., preventing flooding, reducing flow rates, and improving water quality), and meet the goals and policies outlined above.

As one of the first tasks in development of this plan, the City's SWMP activities and documentation were reviewed (based on information provided in 2016) to identify gaps in the existing SWMP. The primary focus of this effort was to evaluate the program against requirements of the Permit; however, other program needs have also been included if they were identified as goals in the Citywide Edgewood Comprehensive Plan, by City staff, and by the consultant team based on experience in other jurisdictions. The Gap Analysis and Needs Assessment (Gap Analysis) in Appendix A provides a detailed review of the City's activities as they pertain to the Permit and provides recommendations on filling the gaps in stormwater program coverage along with estimated costs for doing so. This section is intended as an overview of the findings and includes all recommendations from the Gap Analysis.

The current Permit specifies requirements for the following stormwater program components:

- Public education and outreach
- Public involvement and participation
- Illicit discharge detection and elimination (IDDE)
- Controlling runoff from new development, redevelopment, and construction sites

- Municipal operations and maintenance
- Compliance with Total Maximum Daily Load (TMDL) Requirements
- Monitoring and Assessment
- Reporting Requirements

Recommendations associated with each of these components are provided in the following sections. Chapter 5 provides an estimate of the additional staff and equipment resources that will be required to implement the entire program.

4.1.1. Public Education and Outreach

This SWMP program component provides education and outreach to the general public and businesses. The gap analysis and needs assessment identified a number of areas where the City should expand their education and outreach program.

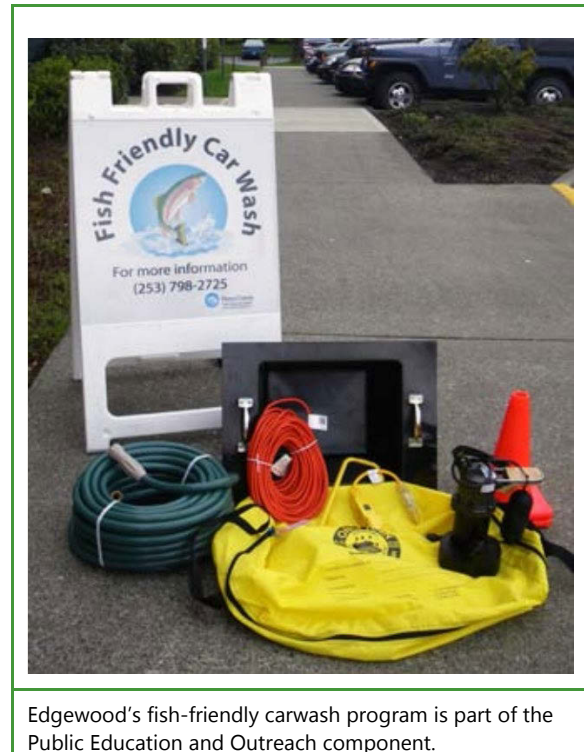
Recommendations

Required by Current Regulations

- Conduct a survey to evaluate the effectiveness of the City's targeted education program. The City has identified engineers, developers, and contractors as their target audience and chosen "technical standards for stormwater site development" and "LID techniques" as subject areas to promote stormwater education and has developed an educational handout to support the program. The remaining need is to evaluate the program's effectiveness and then to revise the handout based on survey findings.
- Identify and implement a stewardship program such as tree planting events, rain barrel distribution, catch basin marking, or coordination with other stewardship programs such as the Pierce Conservation District's Stream Teams.

Recommended Program Improvements

- Continue hosting community workshops for stormwater issues.
- Identify regional partners and educational programs and include links to these on the City website (Examples are provided in Appendix A.)



Edgewood's fish-friendly carwash program is part of the Public Education and Outreach component.

- Implement the following activities as identified in the 2017 SWMP:
 - Work with Puyallup School District to support stormwater education opportunities
 - Work with the Pierce County Parks' Conservation Futures grant program to preserve sensitive areas
- Finalize educational handouts for paving contractors

4.1.2. Public Involvement and Participation

The City's program ensures that there is ample opportunity for the public to understand and comment on issues related to stormwater management in the city. No gaps or improvement needs were identified for this program component.

4.1.3. Illicit Discharge Detection and Elimination (IDDE)

The City meets the IDDE requirements of the Permit, primarily through inspections conducted by Pierce County staff through an Interlocal Agreement (ILA). In accordance with the ILA, Pierce County staff inspect and clean catch basins, which could detect illicit discharges, and conduct response (elimination) work if requested to support IDDE needs of the Permit. The program also includes mapping and inventorying the stormwater system, development of an ordinance to prohibit illicit discharges, and a tracked training program for staff to identify and detect illicit discharges.

A number of permit requirements have not yet been met for this Permit component. The most significant gap in program coverage is related to the requirement to map the tributary areas associated with outfalls and discharge points of 24 inches or more in diameter, which is required by February 2, 2018. The City has initially identified five outfalls and begun the mapping of the tributary areas, but based on a desktop analysis of the stormwater system, it is likely that a number of other points in the system should be classified as outfalls or discharge points. The Permit defines "outfalls" as points (ends of pipes or ditches) where stormwater leaves the City's system and enters a surface water and "discharge points" as points where discharge leaves the system through facilities or BMPs designed to infiltrate (See the Permit for complete definitions).

Recommendations:

Required by Current Regulations

- Map the tributary areas associated with known outfalls and discharge points of 24 inches or more in diameter.
- Continue the outfall inventory to include all locations where pipes and ditches discharge to potholes, wetlands, ponds, or streams and map the tributary area for all outfalls with a diameter of 24 inches or greater.

- Continue discharge point inventory to include all locations where pipes and ditches discharge to BMPs or facilities designed to infiltrate and map the tributary area for all outfalls and discharge points with a diameter of 24 inches or greater as well as all geographic areas that do not discharge stormwater to surface waters.
- Establish an ongoing IDDE training program for appropriate City staff and a tracking form to document staff training.
- Adopt the IC/ID Field Screening and Source Tracing Guidance Manual and a documented tracking system for field activities.

Recommended Program Improvements

- Request that Pierce County update their catch basin inspection form to allow tracking of non-oil discharges.
- Improve publicity associated with reporting spills; display the spill hotline number prominently on the City's website and advertise it in City news outlets.
- Provide additional IDDE educational resources and references on the City's website. (Appendix A lists some example informative links.)
- Purchase basic equipment to assist with field screening including, mirror and pole, dye testing supplies, sand bags, smoke testing equipment, ammonia test strips, pH probe (with temperature probe), surfactant test kit, and potassium meter.

4.1.4. Controlling Runoff from New Development, Redevelopment, and Construction Sites

This permit component addresses runoff from new development, redevelopment, and construction site projects. It describes requirements for permitting and review, developing a plan for long term operations and maintenance and inspection of stormwater facilities, and staff training. It also requires incorporation of LID principles and BMPs in development-related codes, rules, and regulations. The City currently requires Stormwater Maintenance Agreements for new development that spell out these inspection, maintenance, and reporting requirements.

One of the requirements of this component of the Permit is that the City conduct annual inspections of privately-owned stormwater facilities. This requires first creating an inventory of those facilities, ensuring access agreements are in place with landowners, and implementation of the inspection and tracking program. This is the most critical gap for this component of the program.

In conjunction with pothole flood reduction plans described in Section 3, the City should evaluate how requirements for new development and redevelopment can be modified to support flood reduction in the potholes. Options include imposing regulations that restrict increases in impervious surface in areas tributary to the potholes, developing more stringent requirements for flow control in closed depression basins, and developing a funding strategy (e.g., fee-in-lieu system) that would enable redevelopment projects to fund regional flow control facilities, such as large infiltration facilities.

Last, it is well understood that standard stormwater treatment and control requirements do not fully mitigate all stormwater impacts. The City may want to consider adopting more stringent requirements for stormwater treatment and/or habitat improvement where new or redevelopment projects discharge to fish bearing streams.

Recommendations

Required by Current Regulations

- Develop an inventory of privately owned facilities and implement a plan for inspections as well as procedures for record keeping and enforcement tracking.
- Update the Surface Water Compliance Application forms to ensure consistency with the 2015 Pierce County Stormwater Management and Site Development Manual (PCM).

Recommended Program Improvements

- Consider posting the SWPPP short form on the City's website
- Consider developing additional checklists and/or BMP sizing guidance.
- Consider adding additional training opportunities for plan reviewers and site inspectors and track related training.
- Conduct a Stormwater BMP Feasibility Assessment and provide maps for use by plan reviewers, developers and engineers.
- Develop a protocol for addressing private property-driven flooding issues. The protocol should include outreach to adjacent property owners and education on responsibilities and follow up activities. Consider identifying the drainage problems on property tax assessments or use other mechanisms to alert potential property owners during property transactions.
- Consider requiring enhanced stormwater treatment and/or habitat improvements for new development or redevelopment that results in discharge to fish bearing streams.

4.1.5. Municipal Operations and Maintenance

The City's municipal operations and maintenance program reduces stormwater impacts with regular activities such as catch basin cleaning and facility inspections. The program also includes detailed stormwater control plans for some facilities, staff training, and record management. The City's ILA with Pierce County assigns Pierce County with responsibilities for routine inspections, catch basin cleaning, and street sweeping, although during emergencies, City staff perform inspections and some maintenance tasks.



Roadside ditches that are part of the City's surface water conveyance infrastructure require regular maintenance.

The City has adopted and implemented the PCM, which identifies maintenance standards and inspection requirements for stormwater facilities and meets other minimum requirements of Ecology's Stormwater Management Manual for Western Washington (Ecology 2012).

Recommendations

Recommended Program Improvements

- Request that Pierce County provide an annual list of maintenance activities completed by Pierce County crews through the ILA
- Request training records for the Pierce County crews responsible for City O&M activities.
- Develop a template and populate a training tracking log from City and County records.
- Finalize SOPs related to maintenance and operations to document the City's specific practices, policies and procedures. (The City has adopted Pierce County SOPs with some modifications, but these need to be finalized.)

4.1.6. Compliance with Total Maximum Daily Loads (TMDLs)

The Puyallup Watershed Water Quality Improvement Project (Ecology 2017) (aka Puyallup River TMDL Plan) lays out a plan for addressing fecal coliform (FC) bacteria issues in the Puyallup River. The City of Edgewood must comply with TMDL requirements to designate areas discharging via the City's stormwater system to Jovita Creek (a tributary to the Puyallup) as high priority areas for IDDE field screening. Because IDDE field screening is conducted by Pierce

County through the ILA, the City needs to designate Jovita Creek Watershed as high priority for routine field screening and communicate that designation to the county.

Recommendations

Required by Current Regulations

- Designate Jovita Creek Watershed as high priority for routine field screening and communicate that designation to Pierce County.

4.1.7. Monitoring and Assessment

The City contributes to the regional stormwater monitoring program in compliance with the Permit requirements. Because the City has also recently conducted some local stormwater monitoring, the City should report these projects and any results to Ecology.

Recommendations

Required by Current Regulations

- The City recently conducted a Hydrologic Surface Water Analysis for the 108th Avenue East neighborhood, and it is preparing for further monitoring and potential improvements. A project description and results summary should be provided to Ecology in the next annual report.

Addresses Anticipated Regulations

- A surface water monitoring program for the Edgewood potholes has been recommended (Section 3); if implemented the results should be included in the following years annual report.

4.1.8. Reporting

The City submits annual reports to Ecology and has developed a summary of internal coordination mechanisms, public access to records, and 5-year record storage. There were no gaps identified for this permit section.

4.1.9. Preparation for the Next Permit

The draft 2019–2023 NPDES Phase II Permit contains at least three components that the City should be aware of and start preparing for during the time that this Plan will be in place: a subbasin inventory, a source control program, and watershed planning. It is expected that much of what might be required for the subbasin inventory has been developed as part of this plan.

(Appendix D provides all of the basin inventory data that is provided in different parts of this plan in one complete table.)

Source Control Program for Existing Development

The 2019–2023 NPDES Phase II Permit is expected to require the development and implementation of a proactive, preventative, inspection-based source control program for existing development. The preliminary draft permit includes the following:

- Develop a source control inventory
- Develop an ordinance and enforcement policy
- Develop and implement an on-going training program
- Implement a business inspection program.

Recommendations

Addresses Anticipated Regulations

- Create the source control business inventory template and begin populating the inventory focusing on new businesses and adding existing businesses as opportunity allows.
- Review existing source control requirements in EMC 13.25 after the new Permit is issued and revise if necessary to meet Permit requirements.
- Begin to develop inspection, enforcement, and training programs for this new Permit requirement.
- Implement a business inspection program by the deadline in the future Permit.

Long-Term Watershed Planning

Although the specifics are still being crafted, the Permit will include a need to conduct long term planning to protect receiving waters. The steps are likely to include:

- Creating an inventory of basins
- Prioritizing the basins using existing characterization information
- Identifying priority catchments within basins for planning
- Identifying approaches to protecting and restoring the catchment.

The basins as defined in this plan should be considered to represent the inventory of basins and much of the characterization data provided in this plan should suffice for an initial characterization. Since the City has already prioritized basins for planning as reflected in the CIP list, the key steps described in the draft guidance should be considered as already met.

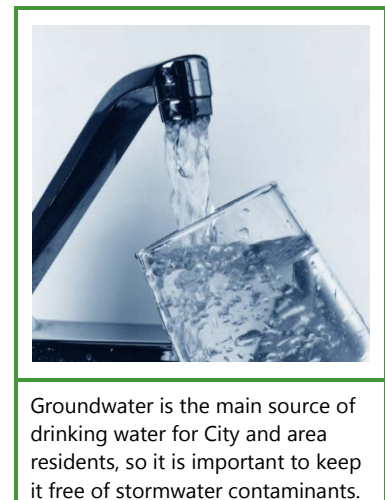
Recommendations

- None at this time.

4.2. UNDERGROUND INJECTION CONTROL (UICs)

Underground Injection Control (UIC) wells are part of the storm drainage system in the city that is not regulated through the current municipal stormwater permit. Instead, UIC wells are regulated by Ecology as described in Ecology Publication 05-10-067 titled *Guidance Manual for UIC Wells that Manage Stormwater* (Ecology 2006). UIC wells must either be rule-authorized or covered by a state waste discharge permit to operate. To be rule-authorized, a registration form must be submitted with the Department of Ecology and wells must meet the non-endangerment standard, which means that they cannot endanger groundwater.

The City's storm drain system includes multiple UIC wells, including 54 drywells (see Table 2-8) and numerous infiltration pipes, and none of the UIC wells appear to be registered with Ecology. The City is required to register its UIC wells with Ecology and to accomplish this, needs to inventory the UIC wells and determine the type of facility and the year of construction. UIC wells constructed before February 3, 2006, are considered "existing" UIC wells, and a well assessment must be completed to determine if any of the existing wells are a high threat to groundwater. Wells constructed after February 3, 2006, are considered "new" UIC wells, and do not require a well assessment. The existing UIC wells that are a high threat to groundwater must be retrofitted to protect groundwater quality.



The City should conduct the UIC well assessment using GIS analysis to evaluate land use around the wells (indicates potential for pollution), soil type, depth to groundwater (indicates likelihood of soil treatment potential), and location relative to groundwater protection areas.

Recommendations

Required by Current Regulations

- Conduct a complete inventory of all publicly-owned and operated UIC wells and register them with Ecology.

- Using the UIC guidance, determine which existing UIC wells pose a high threat to groundwater and then complete a well assessment to identify those high threat wells.
- Retrofit public wells that are a high threat to groundwater (no timeline for this is set by Ecology).
- Design and construct all new UIC wells according to the specifications in the UIC guidance (ongoing).

Recommended Program Improvements

- Construct opportunistic retrofits of all public UIC wells that pose a threat to groundwater by installing upstream water quality treatment facilities or other site-specific retrofits.
- Develop a targeted outreach program for private UIC well owners in areas found to pose a high threat to groundwater.

4.3. ASSET MANAGEMENT

Edgewood is served by a traditional conveyance network of catch basins, buried conveyance pipes, and open ditches. Much of this infrastructure is more than 80 years old, and therefore repair and replacement of the infrastructure is an important long-term need. Development of an asset management system will help address this need and enable the City to execute proactive repair, rehabilitation, and replacement strategies, rather than more costly, reactive emergency response to system failures. Asset management can be used to identify parts of the conveyance system that are prone to failure or that align with proposed projects in other departments, enabling the City to make more efficient and effective use of limited resources by combining projects from multiple departments.

The City should include a budget line item to cover regular repair and replacements separately from other CIP projects to avoid delaying CIP implementation when critical system repair needs arise. In the longer term, the City should consider long term asset management when purchasing infrastructure management software or equipment, such as CCTV inspection equipment, that could be shared between departments.

The following list lays out the recommendations related to establishing an asset management program. Although these are important they are not included as priority items in the Implementation Plan (Section 5) because the City has other important needs to focus on during the next 5 to 6 years.

Recommendations for Future Program

- Establish a program for collecting CCTV data on the buried conveyance network to evaluate condition and establish repair priorities.

- Select or develop an asset management platform to integrate software and database forms for evaluating and tracking repair and maintenance activities.
- Develop an asset management program to justify the systematic rehabilitation and replacement of infrastructure based on conditions assessment and criticality analysis
- Include a permanent fund for a repair and replacement of existing stormwater infrastructure in the annual budget.

4.4. PREPARING FOR CLIMATE CHANGE

As described previously, potential hydrologic changes associated with climate change increase the importance of stormwater management practices that control flows, promote infiltration, and preserve and enhance water quality. The potential for increased winter precipitation is likely to exacerbate conveyance and pothole flooding problems that Edgewood is already facing. Further, enhancing groundwater recharge and protecting water quality will become increasingly important as population grows, groundwater demands increase, and water resources become scarcer.

Recommendations

The following activities, some of which were identified in previous sections of this Plan, will help to prepare for and to mitigate climate change impacts:

- Implement pothole flood reduction studies and projects.
- Continue to promote dispersed infiltration (LID techniques) to control 100 percent of stormwater runoff on all sites, where it is feasible.
- Model the stormwater system to determine what areas are at, or near, flow capacity and thus prone to increased flood risk.
- Modify conveyance sizing requirements for new and redevelopment to account for larger peak flow events.
- Retrofit existing stormwater facilities to improve (or add) treatment performance and construct new facilities more conservatively.

5. PLAN IMPLEMENTATION

The following subsections describe stormwater program improvements and projects that are needed to fully achieve the City's surface water management goals and policies. The first three subsections define the stormwater program activities that need to be implemented and the staffing and equipment that are required to implement the activities. The final subsection defines capital improvement project (CIP) needs and a proposed timeline for project implementation.

5.1. STORMWATER PROGRAM ACTIVITIES

Tables 5-1, 5-2, and 5-3 list high priority, lower priority, and future anticipated stormwater program activities, respectively, for the City of Edgewood. High priority activities (Table 5-1) should be completed within 1 year of CSWMP adoption. In most cases they are considered a high priority because they are required by the existing Permit or other regulation. It is assumed that most of the high priority needs would be carried out (or continue to be carried out) by existing staff; in these cases, "0" hours have been allotted for additional staff time. Some tasks, particularly one-time activities or those that require specialized expertise, may more efficiently be performed by an external source such as a consultant; cost estimates have been provided for these activities. In some cases, there are start-up activities associated with a program need, these are identified as one-time costs whether they are slated for completion by staff or external sources. Additional information related to the assumptions for each activity can be found in Appendix A. It is important to understand that an important assumption around staffing is that the Stormwater Program Manager is dedicated to stormwater program activities half of the time. In a small city this can be difficult to achieve; thus, staffing needs are based on optimistic assumptions.

To fully implement these high priority needs would require approximately 0.25 FTEs on a full time permanent basis and another 0.30 FTEs on a temporary basis. External costs are estimated at \$71,000. The majority of this (\$50,000) is associated with the effort to retrofit existing UICs in high-threat areas. It has been estimated that it would cost approximately \$50,000 per well; this reflects an annual somewhat long-term cost for completing one well each year. The high-threat UIC well assessment will need to be completed before determining the duration of this annual need. One additional consideration for planning the UIC well retrofits is that completing the retrofits in batches (i.e., more than one well retrofit per project) could increase efficiency and reduce the cost per well.

Lower priority needs are addressed in Table 5-2. These activities are important to the overall functioning of the City's stormwater program and to make progress towards achieving the stormwater utility goals in Section 1.3, but they can be implemented more gradually. These

equate to an additional staffing need of approximately 0.20 FTE as well as external costs of \$50,000 one-time and \$10,000 annually. External costs are primarily associated with creating tools that would aid developers in complying with stormwater regulations and improve efficiency of the development review process. The financial analysis being prepared in support of this Plan will not include the staffing or financial resources required to implement these activities because the anticipated rate impact would not be acceptable at this time; however, this cost information should be considered during future financial analysis.

Anticipated future program needs are addressed in Table 5-3. Each of the activities has been defined based on draft language for the next Permit. Although the City is not currently required to implement these activities immediately, some are relatively easy tasks to perform; and they all make progress towards achieving the stormwater utility goals and positioning the utility for compliance with the next permit cycle which will begin in 2019 (before the next CSWMP update). Full implementation of these tasks would require some new staffing resources and \$8,000 in one-time funding; these costs have not been included in the financial analysis for this Plan.

Table 5-1. High Priority Program Activities and Costs.					
Program Area	Activity^a	One-time Additional Staffing Need (hours)^b	Annual Additional Staffing Need (hours)^b	One-time External Cost	Annual External Cost
Public Education and Outreach	Measure the understanding and adoption of targeted behaviors	0	80	\$10,000	\$0
	Develop a plan and schedule for creating or engaging in stewardship opportunities	0	80	\$0	\$0
Illicit Discharge Detection and Elimination	Update outfall and discharge point inventory and map the tributary areas associated with each.	0	0	\$0	\$20,000 ^c
	Establish an ongoing IDDE training program for appropriate City staff and a tracking form to document staff training.	0	0	\$0	\$0
	Adopt the IC/ID Field Screening and Source Tracing Guidance Manual and a documented tracking system for field activities.	0	0	\$0	\$0
	Purchase basic equipment to assist with field screening.	0	0	\$5,000	\$1,000

Table 5-1 (continued). High Priority Program Activities and Costs.

Program Area	Activity^a	One-time Additional Staffing Need (hours)^b	Annual Additional Staffing Need (hours)^b	One-time External Cost	Annual External Cost
Controlling Runoff from New Development, Redevelopment, and Construction Sites	Develop an inventory of privately owned facilities and implement a plan for inspections as well as procedures for record keeping and enforcement tracking.	320	160	\$0	\$0
	Update the Surface Water Compliance Application forms to ensure consistency with the 2015 Pierce County Stormwater Management and Site Development Manual (PCM).	0	0	\$0	\$0
Municipal Operations and Maintenance (O&M)	Request an annual list of maintenance activities completed by Pierce County crews through the ILA.	0	0	\$0	\$0
	Request training records for the Pierce County crews responsible for City O&M activities.	0	0	\$0	\$0
	Develop a template and populate a training tracking log from City and County records.	0	0	\$0	\$0
	Finalize SOPs related to maintenance and operations to document the City's specific practices, policies and procedures.	0	80	\$0	\$0
Compliance with Total Maximum Daily Loads (TMDLs)	Prioritize Jovita Creek Watershed for routine field screening and track activities in this watershed.	0	0	\$0	\$0
Monitoring and Assessment	Provide summary of Hydrologic Surface Water Analysis for the 108th Avenue East neighborhood to Ecology in the next annual report.	0	0	\$0	\$0
Underground Injection Control (UICs)	Conduct an inventory of all publicly-owned and operated UIC wells and register them with Ecology.	40	0	\$0	\$0
	Determine which UIC wells pose a high threat to groundwater and complete a well assessment for them.	160	0	\$0	\$0

Table 5-1 (continued). High Priority Program Activities and Costs.

Program Area	Activity ^a	One-time Additional Staffing Need (hours) ^b	Annual Additional Staffing Need (hours) ^b	One-time External Cost	Annual External Cost
	Retrofit wells that are a high threat to groundwater. (No timeline for this is set by Ecology.)	0	0	\$0	\$50,000
	Design and construct all new UIC wells according to the specifications in the UIC guidance (ongoing).	0	0	\$0	\$0
TOTAL		520 hours 0.29 FTE^d	400 hours 0.23 FTE^d	\$15,000	\$71,000

^a Appendix A includes additional assumptions related to these activities.

^b Zero (0) hours indicates the task would be performed by existing staff.

^c This cost has been refined since development of the Gap Analysis and Needs Assessment was completed.

^d FTE calculation is based on an average of 1,768 working hours per year.

Table 5-2. Lower Priority Programs Activities and Costs.

Program Area	Activity ^a	One-time Additional Staffing Need (hours) ^b	Annual Additional Staffing Need (hours) ^b	One-time External Cost	Annual External Cost
Public Education and Outreach	Continue hosting community workshops for stormwater issues.	0	120	\$0	\$0
	Identify regional partners and educational programs and include links to these on the City website (Examples are provided in Appendix A).	0	20	\$0	\$0
	Implement the following activities as identified in the 2017 SWMP: Work with Puyallup School District to support stormwater education opportunities Work with the Pierce County Parks' Conservation Futures grant program to preserve sensitive areas.	0	100	\$0	\$0
	Finalize educational handouts for paving contractors.	0	40	\$0	\$0

Table 5-2 (continued). Lower Priority Programs Activities and Costs.					
Program Area	Activity^a	One-time Additional Staffing Need (hours) ^b	Annual Additional Staffing Need (hours) ^b	One-time External Cost	Annual External Cost
Illicit Discharge Detection and Elimination	Request that Pierce County update their catch basin inspection form to allow tracking of non-oil discharges.	0	0	\$0	\$0
	Improve publicity associated with reporting spills; display the spill hotline number prominently on the City's website and advertise it in City news outlets.	0	0	\$0	\$0
	Provide additional IDDE educational resources and references on the City's website. (Appendix A lists some example informative links.)	0	0	\$0	\$0
Controlling Runoff from New Development, Redevelopment, and Construction Sites	Post the SWPPP short form on the City's website.	0	0	\$0	\$0
	Develop additional checklists and/or BMP sizing guidance in support of stormwater manual implementation.	0	0	\$25,000	\$0
	Create additional training opportunities for plan reviewers and site inspectors and track related training.	0	0	\$0	\$0
	Conduct GIS-based Stormwater BMP Feasibility Assessment and provide maps for use by plan reviewers, developers and engineers.	0	0	\$25,000	\$0
	Develop a protocol for addressing private property-driven flooding issues.	0	0	\$0	\$0
UICs	Develop a targeted outreach program for private UIC well owners in areas found to pose a high threat to groundwater.	0	40	\$0	\$10,000
TOTAL		0 hours	320 hours 0.18 FTE^c	\$50,000	\$10,000

^a Appendix A includes additional assumptions related to these activities.

^b Zero (0) hours indicates the task would be performed by existing staff.

^c FTE calculation is based on an average of 1,768 working hours per year.

Table 5-3. Anticipated Future Required Program Needs and Tasks.

Program Area	Activity ^a	One-time Additional Staffing Need (Hours) ^b	Annual Additional Staffing Need (Hours) ^b	One-time External Cost	Annual External Cost
Monitoring and Assessment	A surface water and groundwater monitoring program for the Edgewood potholes has been recommended (Section 3); if implemented the results should be included in the following years' annual report.	0	0	\$0	\$0
Source Control Program for Existing Development	Create the source control business inventory template and begin populating the inventory focusing on new businesses and adding existing businesses as opportunity allows.	40	0	\$0	\$0
	Review existing source control requirements in EMC 13.25 after the new Permit is issued and revise if necessary to meet Permit requirements.	0	0	\$0	\$0
	Begin to develop inspection, enforcement, and training programs for this new Permit requirement.	120	0	\$8,000	\$0
	Implement a business inspection program by the deadline in the future Permit.	0	120	\$0	\$0
Long Term Watershed Planning	Use the basins delineated in this Plan to represent the inventory and characterization requirements and the CIP list to reflect prioritization.	0	0	\$0	\$0
TOTAL		160 hours 0.09 FTE^c	120 hours 0.07 FTE^c	\$8,000	\$0

^a Appendix A includes additional assumptions related to these activities.

^b Zero (0) hours indicates the task would be performed by existing staff.

^c FTE calculation is based on an assumption of an average of 1,768 working hours per year.

There were also long-term needs and tasks that were identified that are not current or anticipated permit requirements or regulations but that should eventually be included as part of a comprehensive stormwater management program. These were identified under the subheadings of Asset Management and Preparing for Climate Change. No staffing or budget estimates have been prepared to address these and they are purposely not included as part of

this Implementation Plan because the City is not expected to have the resources to carry these out within the implementation period for this Plan.

5.2. STAFFING AND RESPONSIBILITIES

Table 5-4 lists staff that are currently funded by stormwater utility fees and identifies where additional staff are needed to fully support the stormwater program. Currently, the stormwater utility funds 2.9 FTEs; an additional 0.29 FTEs are needed on a permanent basis and 0.39 FTEs on a one-time basis. Responsibilities for implementing the stormwater management program are primarily carried out by Public Works department with support from the Planning and Land Use, Administration, and Building departments.

Table 5-4. Current (2017) and Recommended City of Edgewood SWMP Staff Support.			
Role/Department	Full Time Equivalent (FTE) Staff		
	Utility Funded Staff (FTE)	One-Time Additional Staffing Need (FTE)	Annual Additional Staffing Need (FTE)
Administration			
Assistant City Administrator	0.05		
City Clerk	0.02		
Communications Coordinator	0.05		
Accounting Manager	0.05		
Building			
Permit Coordinator	0.03		
Public Works			
Public Works Director	0.70		
Roads Superintendent	0.50		
Engineering Technician	0.50	0.39	0.29
Maintenance	0.40		
Planning and Land Use			
Community Development Director	0.30		
Administrative Support	0.30		
Total	2.90^a	0.39^b	0.29^b

^a Due to staffing changes during the course of this plan, there are differences between the staffing assignments shown in Appendix A and those on this table.

^b FTE calculation is based on 1,768 working hours per year.

5.3. EQUIPMENT RESOURCES

The major equipment currently used for the SWMP includes a skid steer and small dump truck, as well as basic equipment for emergency stormwater facility access: flashlight, catch basin

hooks, and turbidimeter. While Pierce County is still primarily responsible for inspections and maintenance, some equipment is recommended to allow City staff to assist with field screening and source tracing activities. These represent a one-time cost of \$5,000 and a \$1,000 annual replacement cost. The following equipment is needed:

- Mirror and pole
- Dye testing supplies
- Sand bags
- Smoke testing equipment
- Ammonia test strips
- pH probe (with temperature probe)
- Surfactant test kit
- Potassium meter

5.4. CAPITAL IMPROVEMENT PROGRAM

The CIP list included in the draft edition of this plan was reviewed by the City Council and the public, and information obtained during that review process was used to refine the list and prioritize the projects. Table 5-5 reflects these decisions and provides the final prioritized list of the CIPs identified in Section 3 with a timeline for their implementation. While there are no low priority projects on the list, the City recognizes that not all of these projects can be funded without a significant increase in stormwater utility fees. Those projects listed as critical are those that are considered the highest priority for more immediate action.

For example, while all of the pothole flood reduction plans address existing flooding, the Edgewood Bowl Closed Depression Feasibility Assessment is the highest priority because the findings will be critical for identifying the suite of tools that may be available for use in developing the flood reduction plans for all of the potholes. Completion of the flood reduction plan for the Edgewood Bowl Pothole is also critical due to the extent of flooding from this pothole. The Lake Chalet project is considered critical because this area is experiencing more development pressure and has more structures already in jeopardy during flood events. The three listed localized flooding projects associated with roadways are considered critical either because they have been on the City's CIP list for a long time or because they represent significant neighborhood-wide problems that are difficult to resolve under the Spot Improvement Program.

Table 5-5. Capital Improvement Project (CIP) List for Edgewood's Stormwater Plan.

Priority	Project No.	Project Name	Grant Contingent	Critical	Total ^a	2019	2020	2021	2022	2023	2024
1	SW-6	Surface Water Management Plan Update (including stormwater comprehensive plan update)	No	Critical	125,000	–	25,000	25,000	25,000	25,000	25,000
2	SW-1	City Drainage Infrastructure Program/ Spot Improvements	No	Critical	600,000	100,000	100,000	100,000	100,000	100,000	100,000
3	New	Edgewood Bowl Closed Depression Feasibility Assessment ^b	No	Critical	400,000	–	300,000	100,000	–	–	–
4	New	Lake Chalet Pothole Flood Reduction Project (Pump Station to gravity flow option)	No	Critical	412,000 to 2,060,000	–	412,000 to 2,060,000	–	–	–	–
5	New	24th/112th Seasonal Ponding	No	Critical	180,300	180,300	–	–	–	–	–
6	New	108th Ave E./8th to 16th Flooding	No	Critical	360,500	–	–	41,200	257,500	61,800	–
7	SW-5	108th Ave E./36th St. E. Road Flooding	No	Critical	1,030,000	–	51,500	824,000	154,500	–	–
8	New	Flood Reduction Plan Edgewood Bowl Pothole	No	Critical	175,100	–	–	175,100	–	–	–
9	New	Flood Reduction Plan for Pinedale Pothole	No	No	175,100	–	–	–	–	175,100	–
10	New	Flood Reduction Plan for 122nd Avenue Pothole	No	No	175,100	–	–	–	87,600	87,500	–
11	New	Flood Reduction Plan for 108th Avenue Pothole	No	No	175,100	–	–	–	–	175,100	–
12	New	Flood Reduction Plan for Surprise Lake Pothole	No	No	175,100	–	–	–	–	–	175,100
13	SW-11	Jovita Boulevard Rehabilitation	No	No	515,000	–	–	–	51,500	309,000	154,500
14	New	Edgewood Drive East Drainage Improvements	No	No	885,800	–	–	–	–	–	885,800
15	New	Meridian Ave Corridor Study	No	No	51,500	–	–	51,500	–	–	–
16	SW-3	Jovita Creek Regional Improvement Feasibility Study	Yes	No	515,000	–	–	–	206,000	206,000	103,000
17	SW-2	Mortenson Farm Regional Stormwater Improvements	Yes	No	1,287,500	–	51,500	721,000	515,000	–	–
18	SW-7	25th St. E. Drainage Improvements ^c	No	No	200,000	–	–	–	–	206,000	–
Total Expenditures through 2024 (2018 Dollars)					7,444,100 to 9,092,100	280,300	940,000 to 2,588,000	2,037,800	1,397,100	1,345,500	1,443,400
Expenditures-Critical Projects Only (2018 Dollars)					3,282,900 to 4,930,900	280,300	888,500 to 2,536,500	1,265,300	537,000	186,800	125,000

^a Final cost estimates are based on cost estimates developed in 2017 inflated by 3 percent inflation to reflect 2018 costs.

^b Includes cost of Pothole Water Level and Water Quality Monitoring.

^c This roadway segment is now closed to traffic, and the City is re-evaluating the design solution for this site.

There are also two large projects that would be unlikely to move forward without substantive support from other agencies and/or grants. The Jovita Creek basin (and therefore the area affected by the Jovita Creek Regional Improvement Feasibility Study) lies primarily within unincorporated King County. While this stream is important to the City and they would be a major stakeholder in any study, they would not likely provide the main funding unless it was through a grant. Similarly, the Mortenson Farm Regional Stormwater Improvement Project is still conceptual and is most likely to be driven by mitigation needs related to the SR 167 highway corridor improvements, rather than representing a high priority need for the City.

Implementation of just the critical projects represents a significant investment of an average of approximately \$0.6 million per year over the next 6 years. The City will continue to look for financial assistance through grant and loan programs for appropriate projects, but ultimately implementation of just the critical needs is well beyond the current budget of the stormwater utility.

There are unique features about the City's demographics and geography that together create special challenges for stormwater management. First, Edgewood has a comparatively low population density. Figure 5-1 shows population densities for some nearby small cities in Puget Sound. All of the cities have a higher population density than Edgewood; three have more than 2.5 times more people per square mile. Since most of the costs associated with operating a stormwater program are the same no matter the size or population of the city, fewer people in Edgewood simply equates to a higher cost per person. Another related factor is that there are comparatively few commercial businesses. Typically, commercial businesses pay a larger share of stormwater fees because they contribute more to stormwater problems. Figure 5-2 provides a comparison of the amount of revenue generated to stormwater utilities from non-residential properties (primarily commercial properties) in some nearby small cities. As shown, non-residential customers account for only 36 percent of Edgewood's revenue whereas in other local cities they account for 52 percent to 72 percent. These two factors of low population and fewer commercial accounts together play a significant role in affecting cost per parcel.

Edgewood's unique geology also causes problems and related costs that other communities do not experience. Thus, in addition to typical storm drainage problems such as the Edgewood Drive improvements included in Table 5-5, there are a series of needs that other cities do not have. The city's location on the plateau and its geology have resulted in formation of the six potholes with difficult to solve flooding problems. Studies and plans for addressing these problems (including the Lake Chalet Pothole project) account for over \$2.7 million of the CIP project costs (Table 5-5). In addition, the steep ravines that drain water from the plateau to the valley floor cause extensive erosion, drainage, and roadway problems, which also contribute to capital project costs. A financial analysis and rate study to evaluate stormwater utility finances was completed as part of this planning process and is included as Appendix E.

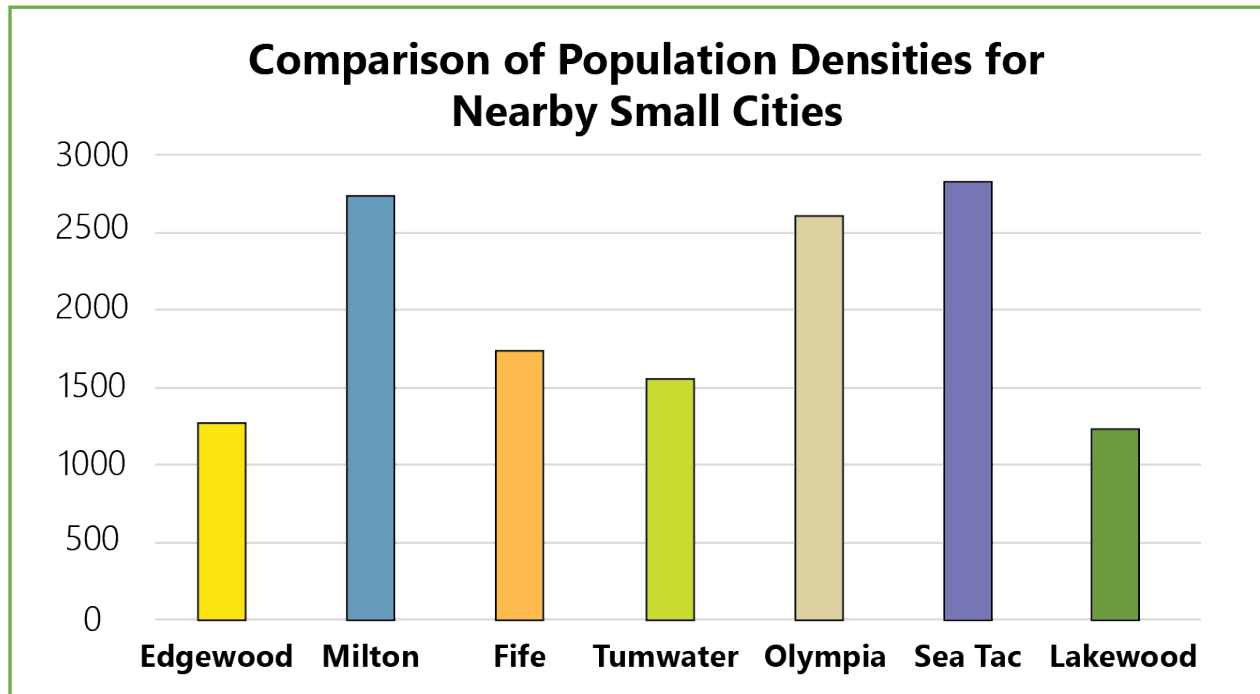


Figure 5-1. Comparison of Population Densities for Nearby Small Cities.

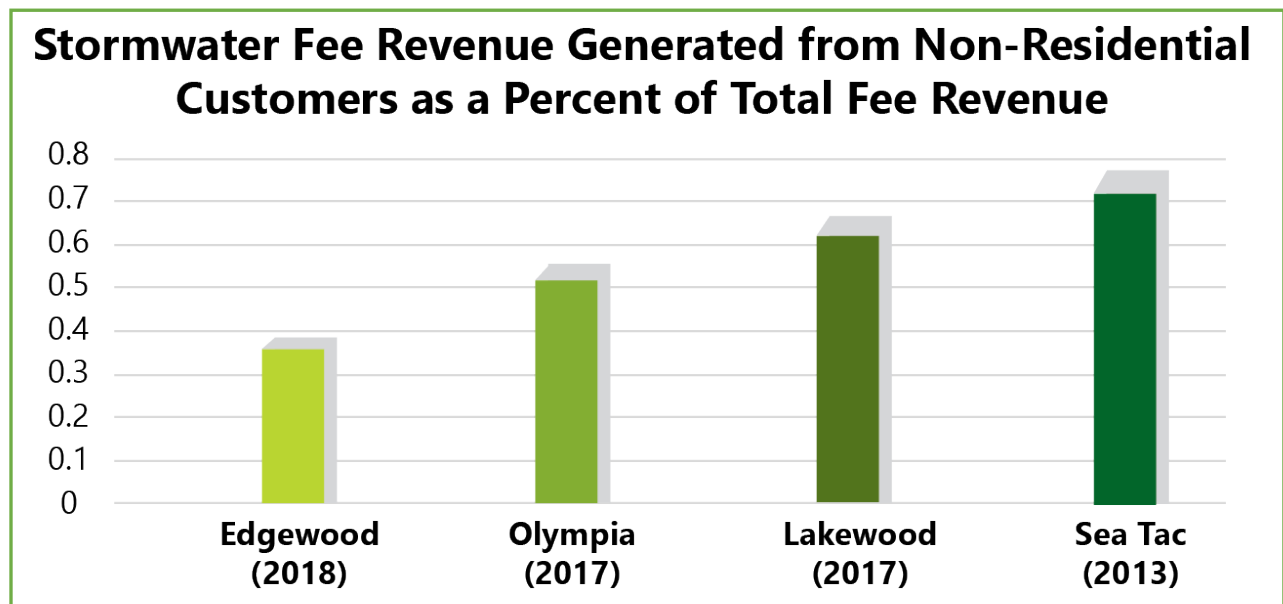


Figure 5-2. Stormwater Fee Revenue Generated from Non-Residential Customers as a Percent of Total Fee Revenue.

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APPENDIX A

Technical Memorandum: City of Edgewood Stormwater Program Gap Analysis and Needs Assessment

TECHNICAL MEMORANDUM

Date: August 24, 2017

To: Jeremy Metzler, PE, City of Edgewood

From: Rebecca Dugopolski, PE; Meghan Mullen; and Joy Michaud, Herrera Environmental Consultants

Subject: City of Edgewood Stormwater Program Gap Analysis and Needs Assessment

BACKGROUND

The City of Edgewood (City) currently implements its Stormwater Management Program (SWMP) to achieve regulatory compliance and to minimize the adverse impacts of stormwater on the natural and built environments (i.e., managing peak flow volumes to avoid flooding and providing water quality treatment to mitigate impacts on receiving waters). Implementation of the SWMP is primarily the responsibility of the Public Works Department, with support provided by the Operations and Maintenance division of Public Works, Community Development Department, and Parks and Recreation Department.

The current SWMP activities are described in the 2017 SWMP and 2016 annual report that was submitted to the Washington State Department of Ecology (Ecology) in March 2017. The SWMP includes information on planned SWMP activities to meet the requirements of Ecology's National Pollutant Discharge Elimination System Western Washington Phase II Municipal Stormwater Permit (NPDES Phase II Permit), which is the most significant regulatory requirement driving the City's stormwater program. The NPDES Phase II Permit, requires that the City prepare annual reports to document activities taken to meet the associated requirements.

In preparation of this report, the City's SWMP activities and documentation were reviewed to identify gaps in the SWMP. The primary focus of this effort was to evaluate the program against requirements of the NPDES Phase II Permit; however, other program needs have also been included if they were identified by City staff. Appendix A contains a detailed matrix of the City's activities, provides recommendations for meeting identified data gaps, and includes funding and staffing estimates associated with the recommendations. The purpose of this memorandum is to provide an overview of the gap analysis process and briefly summarize the recommendations from Appendix A. The recommendations will be used by City staff to direct further SWMP activities and to help guide the City's Stormwater Management Plan update.



METHODS OF ANALYSIS

Potential gaps and areas for improvement were identified through a review of available documents, a questionnaire sent to City staff, a project kickoff meeting with City staff, and follow-up discussions.

Document Review

Document review included pertinent documents identified and/or provided by the City, including City codes and policies, maps and GIS data, SWMP documents, public education materials, and operations and maintenance (O&M) information. These were reviewed to provide a foundation for characterizing the existing SWMP.

Questionnaire and Kickoff Meeting

To examine the components of the City's SWMP in more detail and to identify gaps and potential issues, City staff members representing various aspects of the City's stormwater program attended a project kickoff meeting with Herrera staff on May 12, 2017.

A Gap Analysis questionnaire was distributed to participants in advance of the meeting to gather staff input and perspective on key stormwater issues. Questionnaire responses were used to shape and facilitate the meeting discussion, focusing on NPDES Phase II Permit requirements, staffing needs, and other issues of concern to City staff.

NPDES PHASE II PERMIT REQUIREMENTS

The most significant regulatory requirement facing the City's SWMP is Ecology's NPDES Phase II Permit, which addresses a variety of issues associated with stormwater runoff and requires the City to develop several distinct SWMP components. The current NPDES Phase II Permit (issued by Ecology on August 1, 2012; effective on August 1, 2013) specifies requirements for the following:

- Public education and outreach
- Public involvement and participation
- Illicit discharge detection and elimination (IDDE)
- Controlling runoff from new development, redevelopment, and construction sites
- Municipal operations and maintenance (O&M)
- Compliance with Total Maximum Daily Load (TMDL) Requirements

- Monitoring and Assessment
- Reporting Requirements

Recommendations associated with each of these components are provided in Appendix A along with additional resources (e.g., staffing and equipment) required to implement these recommendations.

CONCLUSIONS

The City's SWMP meets a majority of the NPDES Phase II Permit requirements; however, there are two primary areas where additional resources are needed: Public Education and Outreach and Controlling Runoff from New Development, Redevelopment, and Construction Sites. Two additional areas (IDDE and Municipal O&M) could also use a slight increase in funding or staff support to meet existing NPDES Phase II Permit requirements. Based on the recommendations provided in Appendix A, one-time funding needs have been estimated at \$50,000; and ongoing funding needs have been estimated at \$1,000. One-time funding needs have been identified to support requirements of the City's IDDE program and to support Controlling Runoff from New Development, Redevelopment, and Construction Sites. Ongoing funding would support the replacement of equipment used for illicit discharge field screening and source tracing as part of the City's IDDE program.

Additional City staff support needed has been estimated at 840 hours (or 0.48 Full Time Equivalents [FTE]). This additional staff support is needed to support requirements of the City's Public Education and Outreach program, to Controlling Runoff from New Development, Redevelopment, and Construction Sites, and to support Municipal O&M.

Table 1. Summary of Funding and Staffing Recommendations.

Permit Section	Funding		Staff Support	
	One-time	Ongoing	Hours	FTE
Public Education and Outreach	\$10,000	\$0	440	0.25
Public Involvement and Participation	\$0	\$0	0	0
IDDE	\$15,000	\$1,000	0	0
Controlling Runoff from New Development, Redevelopment, and Construction Sites	\$25,000	\$0	320	0.18
Municipal O&M	\$0	\$0	80	0.05
Compliance with TMDL Requirements	\$0	\$0	0	0
Monitoring and Assessment	\$0	\$0	0	0
Reporting	\$0	\$0	0	0
Total	\$50,000	\$1,000	840	0.48

APPENDIX A

City of Edgewood Stormwater Management Program Activities and Recommendations

Table A-1. City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
Public Education and Outreach				
S5.C.1.a – Education and outreach program “To build general awareness, Permittees shall select from the following target audiences and subject areas: (a) General public (including school age children), and businesses (including home-based and mobile businesses): - General impacts of stormwater on surface waters. - Impacts from impervious surfaces. - Impacts of illicit discharges and how to report them. - Low impact development (LID) principles and LID BMPs. - Opportunities to become involved in stewardship activities.”	Based on the City’s website: - Brochures and resources on the City website under the heading “What can you do to help protect the environment?” www.cityofedgewood.org/government/public_works/surface_water_management.php “Ten Ways You Can Improve the Quality of Stormwater Runoff” Handout: “Fish-Friendly Car Wash” handouts: - Handout that describes the negative impacts of traditional car wash practices - Handout with contact information and a description of the car wash kit that can be used for fundraising car washes - Handout with instructions on how to set up the car wash kit - Natural Yard Care handouts: “Soil and Mulch” Handout: describes soil components, how to amend soils, and how to mulch (Step 1 of the Natural Yard Care program). “Planning and Planting a Sustainable Landscape” Handout: describes how to plan landscaping and select appropriate plants (Step 2 of the Natural Yard Care program). “Watering Wisely” Handout: describes timing, amounts, and techniques for watering and irrigation (Step 3 of the Natural Yard Care program). “Think Twice Before Using Pesticides” Handout: describes alternative approaches to pesticide use for pest management (Step 4 of the Natural Yard Care program). “Natural Lawn Care” Handout: describes maintenance practices including mowing, fertilizing, watering, de-thatching and aerating, and controlling pests and weeds (Step 5 of the Natural Yard Care program). - Link to the Ecology website page for Washington Waters and related programs. - Link to the Ecology website for Saving Puget Sound and related programs. Based on the 2017 Stormwater Management Program (SWMP): - Publish articles in City’s quarterly Edgewood Magazine that are related to stormwater. - Provide copies of the <i>Rain Garden Handbook for Western Washington</i> at City Hall. - City has hosted community workshops addressing LID BMPs, conservation, etc., in the past.	- Move forward with planned activities in the 2017 SWMP: - Work with Puyallup School District on stormwater education opportunities - Work with the Pierce County Parks’ Conservation Futures grant program to preserve sensitive areas - Finalize educational handout for paving contractors. - Update broken website links: - The “water-saving tips” page - Recycling and Disposal of Household Hazardous Waste page from Pierce County - Identify regional partners and regional public education campaigns that the City could participate in or post resources from: - Puget Sound Starts Here www.pugetsoundstartshere.org/ - Don’t Drip and Drive https://fixcarleaks.org/ - Natural Yard Care: www.co.pierce.wa.us/1816/Natural-Yard-Care - Source control resources (see IDDE recommendations under S5.C.3)	160 hours (0.09 FTE)	Assumes 160 hours needed to update the website, coordinate with other partners and programs, and to develop and update some basic educational handouts (ongoing).
		Host additional community workshops.	120 hours (0.07 FTE)	Assumes 120 hours needed to update the workshop materials, schedule, advertise, and implement at least one workshop annually (ongoing).
(b) Engineers, contractors, developers and land use planners: - Technical standards for stormwater site and erosion control plans. - LID principles and LID BMPs. - Stormwater treatment and flow control BMPs/facilities.”	Refer to handouts listed under New Development, Redevelopment, and Construction Sites (see S5.C.4).	Refer to S5.C.4.	NA	NA

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
Public Education and Outreach (continued)				
S5.C.1.b – Stewardship opportunities “Each Permittee shall create stewardship opportunities and/or partner with existing organizations to encourage residents to participate in activities such as stream teams, storm drain marking, volunteer monitoring, riparian plantings and education activities.”	No specific stewardship opportunities have been identified.	- Develop a plan and a schedule for complying with this permit requirement. - Move forward with planned activities in the 2017 SWMP: - Coordinate with Pierce Conservation District Stream Teams for the Puyallup River watershed. - Consider implementing a tree planting community event. - Consider distributing free trees or rain barrels at a community event. - Consider a tree coupon program similar to the City of Tacoma: www.cityoftacoma.org/cms/one.aspx?objectId=66710. - Consider implementing a catch basin marking program with local scouts or other community groups.	80 hours (0.05 FTE)	Assumes 80 hours of outreach needed per year (ongoing).
S5.C.1.c – Measure the understanding and adoption of targeted behaviors “Each Permittee shall measure the understanding and adoption of the targeted behaviors for at least one target audience in at least one subject area. No later than February 2, 2016, Permittees shall use the resulting measurements to direct education and outreach resources most effectively, as well as to evaluate changes in adoption of the targeted behaviors. Permittees may meet this requirement individually or as a member of a regional group.”	Based on the 2016 Annual Report: - City has identified target audience: engineers, contractors, and developers. - City has identified subject areas: - Technical standards for stormwater site development - LID techniques - Developed “Storm drainage minimum design requirements for small projects” handout.	- Submit a G20 Non-Compliance Notification letter to Ecology with a plan and schedule for complying with the evaluation component of this permit requirement. - Develop and conduct a survey for the target audience to follow up on effectiveness of this form. - Develop a short report or memorandum summarizing the results of the survey. - Update handout based on survey feedback.	80 hours (0.05 FTE) \$10,000 (one-time)	Assumes 80 hours needed initially to write the G20 letter, develop the survey approach, and work with an external consultant/contractor to implement the survey. Ongoing costs would be to update the survey and to implement changes in the public education program. External support budget assumes 100 hours at a rate of \$100/hour.
Public Education and Outreach Subtotal			440 hours (0.25 FTE) and \$10,000 (one-time)	
Public Involvement and Participation				
S5.C.2.a – Create opportunities for public participation “Permittees shall provide ongoing opportunities for public involvement and participation through advisory councils, public hearings, watershed committees, participation in developing rate-structures or other similar activities. Each Permittee shall comply with applicable state and local public notice requirements when developing elements of the SWMP.” The minimum performance measures are: “Permittees shall create opportunities for the public to participate in the decision-making processes involving the development, implementation and update of the Permittee’s SWMP.”	Based on 2016 Annual Report: - The City provides public notice for review and update of all codes, comprehensive plans, and capital improvement programs. The first stop in the review process for any proposed change is the City’s Planning Commission, where there are both formal and informal public review opportunities. - Recommendations of the Planning Commission are forwarded to the City Council for final review and action, which includes another public notice and hearing opportunity. - Larger programs and projects, such as comprehensive plan updates, typically include more involved public participation, such as workshops and town halls. Based on Questionnaire: - The Citizen Action Request (CAR) form is available at the counter and on the website. The system allows for complaints to be filed, investigated and resolved by members of City Staff.	No gaps identified.	NA	NA

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.																																		
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions																														
Public Involvement and Participation (continued)																																		
S5.C.2.b – Post the SWMP Plan and annual report on City’s website “Each Permittee shall post on their website their SWMP Plan and the annual report required under S9.A no later than May 31 each year. All other submittals shall be available to the public upon request. ”	Current SWMP, annual report, and attachments are posted on the City’s website: www.cityofedgewood.org/government/public_works/surface_water_management.php .	No gaps identified.	NA	NA																														
Public Involvement and Participation Subtotal			NA																															
Illicit Discharge Detection and Elimination (IDDE)																																		
S5.C.3.a – Ongoing mapping requirements “Mapping of the MS4 shall continue on an ongoing basis. MS4 maps shall be periodically updated. Update maps if necessary to meet the requirements of this section no later than February 2, 2018. At a minimum, maps shall include the following information: i. Known MS4 outfalls and known MS4 discharge points. ii. Receiving waters, other than ground water. iii. Stormwater treatment and flow control BMPs/facilities owned or operated by the Permittee. iv. Tributary conveyances to all known outfalls and discharge points with a 24 inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems. The following attributes shall be mapped: - o Tributary conveyance type, material, and size where known. - o Associated drainage areas. - o Land use. v. All connections to the MS4 authorized or allowed by the Permittee after February 16, 2007. vi. Connections between the MS4 owned or operated by the Permittee and other municipalities or public entities. vii. Geographic areas served by the Permittee’s MS4 that do not discharge stormwater to surface waters.”	Based on the 2017 SWMP: - MS4 base map available through Pierce County’s CountyView GIS platform developed in 2009 and updated each year: www.co.pierce.wa.us/2281/GIS-Applications. - Pierce County has mapped streams and wetlands as receiving waters. - Pierce County has mapped stormwater treatment and flow control structures including catch basins, control structures, dry wells, manholes, and vaults. - Pipes and channels mapped by Pierce County include material, type, size, and a description of discharge points. Possible outfalls based on this data are summarized in the table below: <table><tr><th>Conveyance Structure</th><th>Ponds</th><th>Streams</th><th>Potholes</th><th>Ravines</th><th>Wetlands</th></tr><tr><td>All Pipes</td><td>71</td><td>86</td><td>55</td><td>17</td><td>18</td></tr><tr><td>Pipes over 24-inch diameter</td><td>0</td><td>17</td><td>0</td><td>0</td><td>0</td></tr><tr><td>All Channels</td><td>18</td><td>9</td><td>34</td><td>8</td><td>19</td></tr><tr><td>Channels over 24 inches deep</td><td>1</td><td>0</td><td>1</td><td>1</td><td>6</td></tr></table> Based on the May 12, 2017, kickoff meeting: - The City has identified five known outfalls: - o At 114th north of Jovita (24-inch diameter) - o At the pond south of 24th on Meridian (Simon’s Creek) (12-inch diameter) - o Edgewood Drive (southeast corner into Sumner) (12-inch diameter, discharges into a ravine) - o At the corner of 32nd Street East and 94th Avenue East (Simon’s Creek) (12-inch diameter) - o At the crossing of the Surprise Lake discharge channel at 92nd Avenue East (south of 20th) (48-inch diameter) Based on the City’s website: - The City has mapped land use designations: www.cityofedgewood.org/government/planning_and_land_use/index.php	Conveyance Structure	Ponds	Streams	Potholes	Ravines	Wetlands	All Pipes	71	86	55	17	18	Pipes over 24-inch diameter	0	17	0	0	0	All Channels	18	9	34	8	19	Channels over 24 inches deep	1	0	1	1	6	- Update outfall inventory to include discharges to pothole/closed depression areas that should be classified as outfalls. - Map the tributary area for the known outfalls of 24-inch diameter or greater.	\$10,000 (one-time)	Assumes contract (or intern) support is needed (100 hours at \$100/hour).
Conveyance Structure	Ponds	Streams	Potholes	Ravines	Wetlands																													
All Pipes	71	86	55	17	18																													
Pipes over 24-inch diameter	0	17	0	0	0																													
All Channels	18	9	34	8	19																													
Channels over 24 inches deep	1	0	1	1	6																													

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
IDDE (continued)				
S5.C.3.b – Illicit discharge ordinance “Each Permittee shall implement an ordinance or other regulatory mechanism to effectively prohibit non-stormwater, illicit discharges into the Permittee’s MS4 to the maximum extent allowable under state and federal law.”	Based on 2016 Annual Report: EMC 13.25 – Illicit Stormwater Discharges updated by Ordinance 16-482 on November 8, 2016.	No gaps identified.	NA	NA
S5.C.3.c – Ongoing program implementation to identify and detect illicit discharges The program shall include the following components: i. Procedures for conducting investigations of the Permittee’s MS4, including field screening and methods for identifying potential sources.	Based on 5/12/17 kickoff meeting: - The City has an interlocal agreement (ILA) with Pierce County to perform catch basin inspections and cleaning. - There are boxes on the Pierce County inspection form to check for oil presence, condition, and comments. Based on 2016 Annual Report: 40 percent of MS4 coverage area screened in 2016.	- Provide recommendations to Pierce County staff on information that the City would like to track for compliance with this permit requirement. - Consider modifying “oil presence” field to apply to other illicit discharges or adding another field for non-oil discharges.	NA	Complete with current staffing.
ii. A publicly listed and publicized hotline or other telephone number for public reporting of spills and other illicit discharges.	Based on 2016 Annual Report: - City Hall contact information: 253-952-3299. 4 calls received in 2016.	- Spill hotline is the same as the City Hall general information line and is not well publicized. - Place hotline more prominently on the City’s website or create a hotline specific to reporting spills.	NA	Complete with current staffing.
iii. An ongoing training program for all municipal field staff, who, as part of their normal job responsibilities, might come into contact with or otherwise observe an illicit discharge and/or illicit connection to the MS4, on the identification of an illicit discharge and/or connection, and on the proper procedures for reporting and responding to the illicit discharge and/or connection. Follow-up training shall be provided as needed.	No established training program for IDDE.	- Require applicable City staff to watch Illicit Connection and Illicit Discharge (IC/ID) Field Screening and Source Tracing Guidance Manual videos: www.wastormwatercenter.org/illicit-connection-illicit-discharge. - Attend in-person IC/ID field screening training in late 2018.	NA	Complete with current staffing.
iv. Permittees shall inform public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste.	- General information provided on website (see S5.C.3.a). - Property/business owners are educated upon discovery of potential hazards/illicit discharges.	Consider providing the following resources on the City’s website: - Dump Smart Program (carpet cleaners, painters, and pressure washers): www.wastormwatercenter.org/dump-smart - Ecology pollution prevention by business type website: www.ecy.wa.gov/programs/hwtr/p2/ta.html - Ecology hazardous substances website: www.ecy.wa.gov/hsieo/index.html - City of Seattle resources (restaurants): www.seattle.gov/util/ForBusinesses/GreenYourBusiness/ToolsResourcesGuides/index.htm - Clark County dumpster maintenance brochure: www.clark.wa.gov/sites/default/files/dept/files/environmental-services/Stormwater/what-you-can-do/Dumpster%20maintenance%20web%206_2_16.pdf	NA	Complete with current staffing or proposed Public Education and Outreach staff under S5.C.1 above.

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
IDDE (continued)				
S5.C.3.d – Ongoing program implementation to address illicit discharges “Each Permittee shall implement an ongoing program designed to address illicit discharges, including spills and illicit connections, into the Permittee’s MS4. The program shall include: i. Procedures for characterizing the nature of, and potential public or environmental threat posed by, any illicit discharges found by or reported to the Permittee. Procedures shall address the evaluation of whether the discharge must be immediately contained and steps to be taken for containment of the discharge. ii. Procedures for tracing the source of an illicit discharge; including visual inspections, and when necessary, opening manholes, using mobile cameras, collecting and analyzing water samples, and/or other detailed inspection procedures. iii. Procedures for eliminating the discharge; including notification of appropriate authorities; notification of the property owner; technical assistance; follow-up inspections; and use of the compliance strategy developed pursuant to S5.C.3.b.v, including escalating enforcement and legal actions if the discharge is not eliminated.	Based on May 12, 2017, kickoff meeting: • City staff investigate calls about IDDE issues. • Current equipment includes: flashlight, catch basin hooks, turbidimeter. • Pierce County can assist with IDDE response if requested as part of the ILA.	• Adopt and/or modify the IC/ID Field Screening and Source Tracing Guidance Manual. • Purchase basic equipment to assist with field screening and source tracing: ○ Mirror and pole ○ Dye testing supplies ○ Sand bags ○ Smoke testing equipment ○ Ammonia test strips ○ pH probe (with temperature probe) ○ Surfactant test kit ○ Potassium meter	\$5,000 (one-time) \$1,000 (annual replacement/restocking cost)	Adopting and/or modifying the IC/ID Field Screening and Source Tracing Guidance Manual will be completed with current staffing.
S5.C.3.e – Ongoing staff training program “Permittees shall train staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, and illicit connections, to conduct these activities. Follow-up training shall be provided as needed to address changes in procedures, techniques, requirements or staffing. Permittees shall document and maintain records of the training provided and the staff trained.”	No established training program for IDDE.	• Require applicable City staff to watch IC/ID Field Screening and Source Tracing Guidance Manual videos: www.wastormwatercenter.org/illicit-connection-illicit-discharge. • Attend in-person IC/ID field screening training in late 2018. • Develop a spreadsheet or simple tracking form to document staff training.	NA	Complete with current staffing.
S5.C.3.f – Track and maintain records “Recordkeeping: Permittees shall track and maintain records of the activities conducted to meet the requirements of this section.”	Based on Questionnaire responses: • The City tracks all complaints, including spills, with the Citizen Action Request (CAR) program which includes an online reporting option: http://cityofedgewood.org/government/city_clerk/citizen_action_form.php.	No gaps identified.	NA	NA
IDDE Subtotal			\$15,000 (one-time) and \$1,000 (ongoing)	

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
Controlling Runoff from New Development, Redevelopment, and Construction Sites				
S5.C.4.a – Ordinance to address runoff from development, redevelopment, and construction sites “Implement an ordinance or other enforceable mechanism that addresses runoff from new development, redevelopment, and construction site projects ...”	Based on 2017 SWMP: - Policy requires that stormwater facilities are owned and maintained by HOAs, property owners, or another private party. The developer is required to execute and record an <i>Agreement to Maintain Stormwater Facilities and Implement a Pollution Source Control Plan</i>: - O&M Plan and facility inspection requirements. - Requires annual inspection and reporting by responsible party which is an education and outreach opportunity for city staff. - Contains an O&M facility plan. - EMC Chapter 13.05 (Stormwater Manual – Site Development Regulations) updated by Ordinance 16-482 on November 8, 2016. - The City has adopted the 2015 Pierce County Stormwater Management and Site Development Manual (PCM).	No gaps identified.	NA	NA
S5.C.4.b – Permitting process with site plan review, inspection, and enforcement i. Review of all stormwater site plans for proposed development activities.	Based on 2016 Annual Report: 119 stormwater site plans were reviewed. Based on Questionnaire: - Each plan is carefully reviewed for conformance with the adopted manual, including review and verification of calculations, existing conditions, and potential impacts to adjacent areas/property. - The City has developed the following handouts for project proponents: - Surface Water Compliance Application www.cityofedgewood.org/document_center/Surface_Water_Compliance_Application1.pdf - Surface Water Compliance Application Information Sheet www.cityofedgewood.org/document_center/Surface_Water_Information_Sheet.pdf - Storm Drainage Minimum Design Requirements for Small Projects www.cityofedgewood.org/document_center/SD%20Minimum%20Requirements%20(2016-12-01).pdf	- Update Surface Water Compliance Application and Surface Water Compliance Application Information Sheet for consistency with the 2015 PCM. - Post SWPPP short form on City’s website. - Consider developing additional checklist(s) and/or BMP sizing guidance.	\$25,000 (one-time)	Minor edits to existing handouts and posting the SWPPP short form can be completed with current staffing. Development of up to 5 new checklists assumes an external support budget of 150 hours at a rate of \$100/hour. Development of simplified BMP sizing guidance assumes an external support budget of 100 hours at a rate of \$100/hour.
S5.C.4.b – Permitting process with site plan review, inspection, and enforcement ii. Inspect, prior to clearing and construction, all permitted development sites that have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7 Determining Construction Site Sediment Damage Potential ... iii Inspect all permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls. Enforce as necessary based on the inspection. iv. Inspect all permitted development sites upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities ...”	Based on 2016 Annual Report: 30 construction sites inspected prior to construction. 73 construction sites inspected during construction. 1 enforceable action taken. Based on the 2017 SWMP: - Staff inspect all permitted development sites prior to clearing and construction activity. - Staff verify installation and maintenance of temporary erosion and sediment control (TESC) and stormwater BMPs. - Enforcement actions are based on inspection results and Citizen Action Requests. Based on 5/12/17 kickoff meeting with City Staff: - New Engineering tech performs in-house inspection program.	No gaps identified.	NA	NA

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
Controlling Runoff from New Development, Redevelopment, and Construction Sites (continued)				
S5.C.4.c – Long term operations and maintenance of stormwater treatment and flow control BMPs/facilities i. Implementation of an ordinance or other enforceable mechanism that clearly identifies the party responsible for maintenance, requires inspection of facilities ... and establishes enforcement procedures.	Based on the 2017 SWMP: EMC Chapter 13.05 (Stormwater Manual – Site Development Regulations) updated by Ordinance 16-482 on November 8, 2016.	No gaps identified.	NA	NA
ii. Each Permittee shall establish maintenance standards that are as protective or more protective of facility function than those specified in Chapter 4 of Volume V of the Stormwater Management Manual for Western Washington. For facilities which do not have maintenance standards, the Permittee shall develop a maintenance standard.	- Policy requires that stormwater facilities are owned and maintained by HOAs, property owners, or another private party. The developer is required to execute and record an <i>Agreement to Maintain Stormwater Facilities and Implement a Pollution Source Control Plan</i>: - O&M Plan and facility inspection requirements. - Requires annual inspection and reporting by responsible party which is an education and outreach opportunity for city staff. - The City has adopted the 2015 PCM which includes maintenance standards.	No gaps identified.	NA	NA
iii. Annual inspections of all stormwater treatment and flow control BMPs/facilities that discharge to the MS4 and were permitted by the Permittee according to S5.C.4.b ... iv. Inspections of all permanent stormwater treatment and flow control BMPs/facilities and catch basins in new residential developments every six months until 90 percent of the lots are constructed ... vii. The program shall include a procedure for keeping records of inspections and enforcement actions by staff, including inspection reports, warning letters, notices of violations, and other enforcement records ..."	The City is performing construction inspections (per S5.C.4.c.iv), but is not performing ongoing annual inspections of private stormwater treatment and flow control BMPs/facilities (per S5.C.4.c.iii).	- Finalize private facility database. - Develop a list of private facilities that are required to be inspected. - Finalize access easements with landowners to perform private facility inspections. - Submit a G20 Non-Compliance Notification letter to Ecology with a plan and a schedule for complying with the private facility inspection requirement.	320 hours (0.18 FTE)	Initial and ongoing effort to keep private facility database, access easements, and mapping up to date is estimated as 160 hours per year. Conducting annual private stormwater facility inspections is estimated as 160 hours per year.
S5.C.4.d – Notice of Intent copies "The program shall make available as applicable copies of the "Notice of Intent for Construction Activity" and copies of the "Notice of Intent for Industrial Activity" to representatives of proposed new development and redevelopment."	Based on 2016 Annual Report: Copies are provided.	No gaps identified.	NA	NA

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
Controlling Runoff from New Development, Redevelopment, and Construction Sites (continued)				
S5.C.4.e – Ongoing staff training program to control stormwater runoff “Each Permittee shall ensure that all staff whose primary job duties are implementing the program to control stormwater runoff from new development, redevelopment, and construction sites, including permitting, plan review, construction site inspections, and enforcement, are trained to conduct these activities. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.”	Based on 2016 Annual Report: - Two City staff are Construction Erosion and Sediment Control Lead (CESCL) certified. - Staff currently receive on-the-job training.	- Identify additional off-site trainings related to permitting, plan review, construction site inspections, and enforcement such as: - Statewide LID Training Program: www.wastormwatercenter.org/lidswtrainingprogram - Ecology SWMMWW Training: www.ecy.wa.gov/programs/wq/stormwater/manual/2014SWMMWWinteractive/2014%20SWMMWW.htm#Resources/DocsForDownload/TrainingVideos/August2016Training/August2016Training.html - PCM Training - Develop template and populate training tracking log with City training records.	NA	Complete with current staffing.
S5.C.4.f – LID code related requirements “i. Permittees shall review, revise and make effective their local development-related codes, rules, standards, or other enforceable documents to incorporate and require LID principles and LID BMPs ... ii. The summary shall include existing requirements for LID principles and LID BMPs in development-related codes ...”	Based on the 2017 SWMP: - Revised local development code, rules, and standards to incorporate LID principles so it is the preferred commonly used approach to site development. Based on 2016 Annual Report: - City of Edgewood – LID Review and Revision Summary submitted with 2016 Annual Report. - EMC 13.05 (Stormwater Manual – Site Development Regulations) updated by Ordinance 16-482 on November 8, 2016.	No gaps identified.	NA	NA
S5.C.4.g – Watershed-scale stormwater planning	The City is not a participant.	Not applicable to the City because it is not located in any of the proposed Phase I basins.	NA	NA
Controlling Runoff from New Development, Redevelopment, and Construction Sites Subtotal			320 hours (0.18 FTE) and \$25,000 (one time)	
Municipal Operations and Maintenance (O&M)				
S5.C.5.a – Implement SWMMWW O&M standards or equivalent “Each Permittee shall implement maintenance standards that are as protective, or more protective, of facility function than those specified in Chapter 4 of Volume V of the Stormwater Management Manual for Western Washington ...”	The City has adopted the 2015 Pierce County Stormwater Management and Site Development Manual (PCM).	No gaps identified.	NA	NA
S5.C.5.b – Annual inspection of stormwater treatment and flow control facilities/BMPs “Annual inspection of all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities, and taking appropriate maintenance actions in accordance with the adopted maintenance standards.”	Based on questionnaire responses: - Annual inspection frequency of city-owned facilities. Based on 2016 Annual Report: - There are 10 municipally owned facilities, all of which were inspected and maintained last year.	No gaps identified.	NA	NA

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
Municipal O&M (continued)				
S5.C.5.c – Spot checks of potentially damaged stormwater treatment and flow control facilities/BMPs “Spot checks of potentially damaged permanent stormwater treatment and flow control BMPs/facilities after major storm events (24 hour storm event with a 10 year or greater recurrence interval).”	Based on questionnaire responses: - Both Pierce County staff and City staff are responsible for spot checks. - City staff are mostly responsible for spot checks during storm events. - Spot checks are performed annually at a minimum. - Spot checks are performed before forecasted significant storm events. - Spot checks are performed after major storm events.	No gaps identified.	NA	NA
S5.C.5.d – Inspection of catch basins and inlets “... inspection of all catch basins and inlets owned or operated by the Permittee at least once no later than August 1, 2017, and every two years thereafter ...”	Based on 2016 Annual Report: 1725 CBs, 767 inspected in 2016, 175 cleaned in 2016. Based on questionnaire responses: - Based on the ILA, Pierce County staff perform a majority of the catch basin inspections and clean as needed based on inspection results. - City staff perform inspections on demand as flooding and other problems arise.	No gaps identified.	NA	NA
S5.C.5.f – Practices, policies, and procedures to reduce stormwater impacts “Implement practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the Permittee, and road maintenance activities under the functional control of the Permittee ... The following activities shall be addressed: - Pipe cleaning - Cleaning of culverts that convey stormwater in ditch systems - Ditch maintenance - Street cleaning - Road repair and resurfacing, including pavement grinding - Snow and ice control - Utility installation - Pavement striping maintenance - Maintaining roadside areas, including vegetation management - Dust control - Application of fertilizers, pesticides, and herbicides according to the instructions for their use, including reducing nutrients and pesticides using alternatives that minimize environmental impacts - Sediment and erosion control - Landscape maintenance and vegetation disposal - Trash and pet waste management - Building exterior cleaning and maintenance”	Based on questionnaire responses: - Pierce County has a maintenance contract to perform regular street sweeping. - The City owns a skid steer and small dump truck for performing small maintenance tasks without County involvement. Based on 5/12/17 kickoff meeting: - City has adopted Pierce County SOPs with some modifications.	Finalize SOPs documenting City practices, policies, and procedures.	80 hours (0.05 FTE)	Initial and ongoing effort to finalize SOPs with internal staff, review annually, incorporate necessary updates, and track regional programs that may trigger updates.

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
Municipal O&M (continued)				
S5.C.5.g – Ongoing training program to protect water quality “Implement an ongoing training program for employees of the Permittee whose primary construction, operations or maintenance job functions may impact stormwater quality. The training program shall address the importance of protecting water quality, operation and maintenance standards, inspection procedures, selecting appropriate BMPs, ways to perform their job activities to prevent or minimize impacts to water quality, and procedures for reporting water quality concerns. Follow-up training shall be provided as needed to address changes in procedures, techniques, requirements, or staffing. Permittees shall document and maintain records of training provided and the staff trained.”	Based on the 2017 SWMP: - Two City staff are CESCL certified. Based on Pierce County’s 2017 SWMP: - Pierce County Maintenance crews receive quarterly Stormwater Pollution Prevention Plan (SWPPP) and BMP trainings from the County’s NPDES Stormwater Permit Training Coordinator. - Road Operations provides ongoing CESCL hands-on refreshers and quarterly safety meetings that cover Regional Roads Maintenance Endangered Species Act (ESA) Program Guidelines topics and other stormwater pollution prevention BMP issues, including SWPPP related issues.	- Request training records from Pierce County from County crews that perform City’s O&M activities. - Develop template and populate training tracking log with City and County training records.	NA	Complete with current staffing.
S5.C.5.h – SWMP implementation “Implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this Permit ...”	Based on questionnaire responses: The City does not currently have any City facilities that require a SWPPP.	No gaps identified.	NA	NA
S5.C.5.i – Maintain records of inspections and maintenance “Maintain records of inspections and maintenance or repair activities conducted by the Permittee.”	Based on questionnaire responses: - Pierce County tracks inspections through GIS database and project/activity billing and invoices. - City staff track inspections through hardcopy report forms.	No gaps identified.	NA	NA
Municipal O&M Subtotal			80 hours (0.05 FTE)	
Compliance with Total Maximum Daily Load (TMDL) Requirements				
Implement TMDL requirements.	Based on the 2017 SWMP: - The City is part of the Puyallup TMDL for fecal coliform bacteria listed in Appendix 2 of the NPDES Permit. - The City is required to track construction activities in the basin and prioritize field screening for illicit discharges. Several permitted construction activities occurred in 2016; however, no illicit discharges were detected from these construction sites. The City also did not detect any illicit discharges during routine field screening.	No gaps identified.	NA	NA
Comply with applicable TMDLs not in the permit.	Does not apply.	No gaps identified.	NA	NA
Comply with permit modifications and TMDL implementation plans.	Does not apply.	No gaps identified.	NA	NA
Compliance with TMDL Requirements Subtotal			NA	

Table A-1 (continued). City of Edgewood Stormwater Management Program Activities and Recommendations.				
Permit Section	Current Activities	Recommendations	Additional Support Needed (staff/funding)	Support Assumptions
Monitoring and Assessment				
Description of stormwater monitoring or stormwater-related investigations.	Based on the 2017 SWMP: Hydrologic Surface Water Analysis commissioned for 108th Avenue East neighborhood (not yet complete).	Provide a description of the study (and a summary of the results when available) in the annual report to Ecology.	NA	Complete with current staffing.
Regional Stormwater Monitoring Program participation.	Based on the 2017 SWMP: The City contributes to a collective fund to implement RSMP.	No gaps identified.	NA	NA
Monitoring and Assessment Subtotal			NA	
Reporting				
Submit annual report.	The City submits annual reports as required by Ecology.	No gaps identified.	NA	NA
Maintain records for 5 years.	Records related to the permit will be kept for at least 5 years as required by the Permit.	No gaps identified.	NA	NA
Make records available to the public.	The City makes records available to the public upon request.	No gaps identified.	NA	NA
Internal coordination mechanisms summary.	Internal coordination mechanisms summary was submitted with the 2014 Annual Report: www.cityofedgewood.org/Edgewood_Policy_internal_coordination.pdf .	No gaps identified.	NA	NA
Reporting Subtotal			NA	
			Total	
			\$50,000 (one-time)	
			\$1,000 (ongoing)	
			840 hours (0.48 FTE) (ongoing)	

APPENDIX B

Characteristics of Edgewood's Closed Depression Basins or Potholes

Table B-1. Characteristics of Edgewood’s Closed Depression Basins or Potholes.							
Pothole Name	Size of Catchment (acres)	Storage Volume During Flood (acre-feet)	Flooding Impacts on Private Property ^a	Roadways Impacted ^a	Related 1997 CIP IDs ^a	1997 Flooding Extents ^a	Comments
Edgewood Bowl Pothole	648	355 (based on an elevation of 334 feet)	House crawlspace flooding, house septic system flooding, driveway eroded	110th Avenue E, 114th Avenue E, closed due to flooding	EB-1 through EB-10	64-acre flooded area	The Edgewood Pothole has the largest contributing area and is therefore the greatest priority in terms of developing flood reduction plans. The City owns an undeveloped property in this basin near 110th Avenue and 16th Street. There are some wetlands on site that need to be delineated and surveyed, and the site is approximately 4 acres in area.
Lake Chalet	135	32 (based on an elevation of 358 feet)	Two private properties flooding	29th Street E, 103rd Avenue Court E, flooding	LC-1 through LC-3	13-acre flooded area	Most area around the pothole is not ideal for a UIC wellfield because there are two drinking water source wells near the shore. Additionally, there are many septic systems in close proximity, so water quality concerns are high; but LID could be used to address water quality concerns. The closest stormwater main is 6 feet too high for gravity flow flood relief from the lake. One possible solution may be an inverted siphon to this elevated pipe.
Pinedale Pond (114th Avenue) Pothole	384	227 (based on an elevation of 382 feet)	House flooded, two private properties flooded, driveway flooded	32nd Street E (at peak flood), 24th Street, and 117th Avenue	114-1 through 114-5	48 acres	The City is pursuing a Conservation Futures grant for property acquisition along the pothole that would include wetland restoration, passive recreation opportunities, and stormwater management.
108th Avenue Pothole	224	174 (based on an elevation of 382 feet)	Two houses flooded	108th Avenue, 32nd Street, 36th Street flooding	108-1 through 108-5	30 acres	There is no City-owned property in this basin yet, although a potential acquisition opportunity has been identified near the intersection of 110th Avenue and 32nd Street (location of a home that experiences persistent flooding).
122nd Avenue Pothole	329	160 (based on an elevation of 382 feet)	Meadow Vista tracts flooded, driveway to a home on 122nd Avenue E has flooded, water levels approaching lower homes nearby	No public road impacts	122-1 through 122-2	23 acres	The nearby elementary school site presents a potential infiltration opportunity site.
Surprise Lake Pothole	49	32 (based on an elevation of 334 feet)	One house flooded, one septic system flooded	No public road impacts	SLP-1, SLP-2	4.3 acres	There is a commercial property owner who is amenable to investigative work.

^a Source: 1997 Plan and communications with City staff.

APPENDIX C

Project Summary Sheets (for projects scheduled for implementation under this plan)



City of Edgewood Stormwater Capital Improvement Program

Project Summary Sheet

Name: Edgewood Bowl Closed Depression
Feasibility Assessment

2017 Project Number: NA
2009 Project Number: NA
1997 Project Number: NA
CIP List Priority: 3
Estimated Cost: \$400,000

PROBLEM DESCRIPTION

The City of Edgewood has six closed depression basins that receive stormwater runoff from surrounding neighborhoods and frequently flood during the winter months. A detailed alternatives assessment for addressing this stormwater problem was performed as part of developing the City's current surface water management plan in 1997, including options such as: excavating the flood fringe areas within the basins to provide additional storage, and direct conveyance of stormwater into nearby streams, further compounding regional flood control issues. Water elevation and water quality data is needed to determine the volume of water to be controlled as well as treatment needs in each pothole.

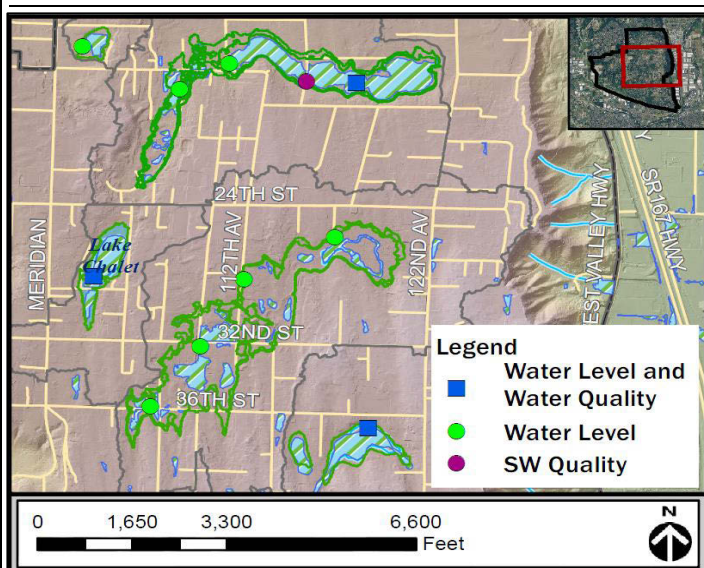
PROPOSED SOLUTION

This feasibility assessment will evaluate multiple alternatives to select the best solution and develop a preliminary design. First, water elevation and water quality data will be collected. The monitoring data will be used to develop an existing conditions hydrologic and hydraulic model of the pothole. Next, alternative solutions will be identified, including potential discharge paths to nearby surface waters. The model will be used to evaluate the feasibility of the alternatives and perform a cost benefit analysis. A public meeting will be held towards the end of the project to present project findings and solicit input on the results. Public input and modeling results will be used to develop a preliminary design for the preferred alternative.

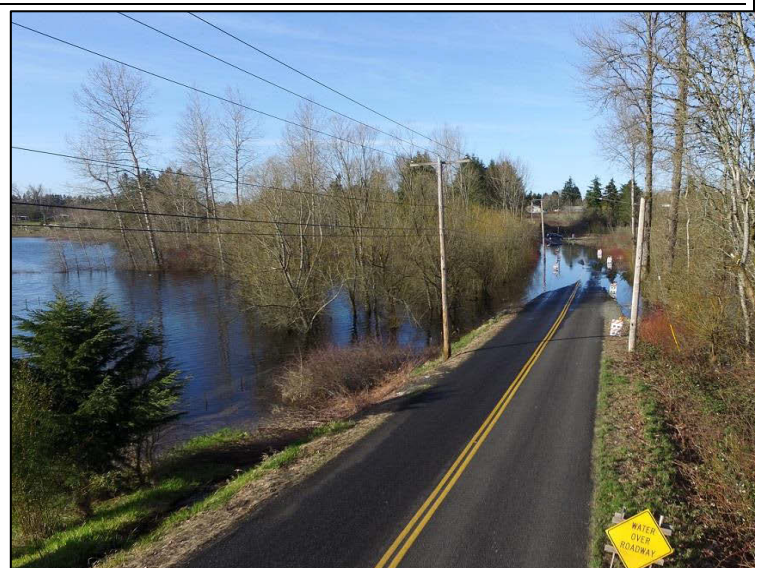
COST ESTIMATE ASSUMPTIONS

The cost estimate for initial data collection includes purchase and installation of automated pressure transducers and staff gauges for continuous water level monitoring in each of the 6 main potholes and 3 subpotholes, cost for laboratory analysis water samples (4 monthly samples and 3 storm samples), development of a rating curve for each pothole, and costs for field visits to calibrate equipment and collect data and samples.

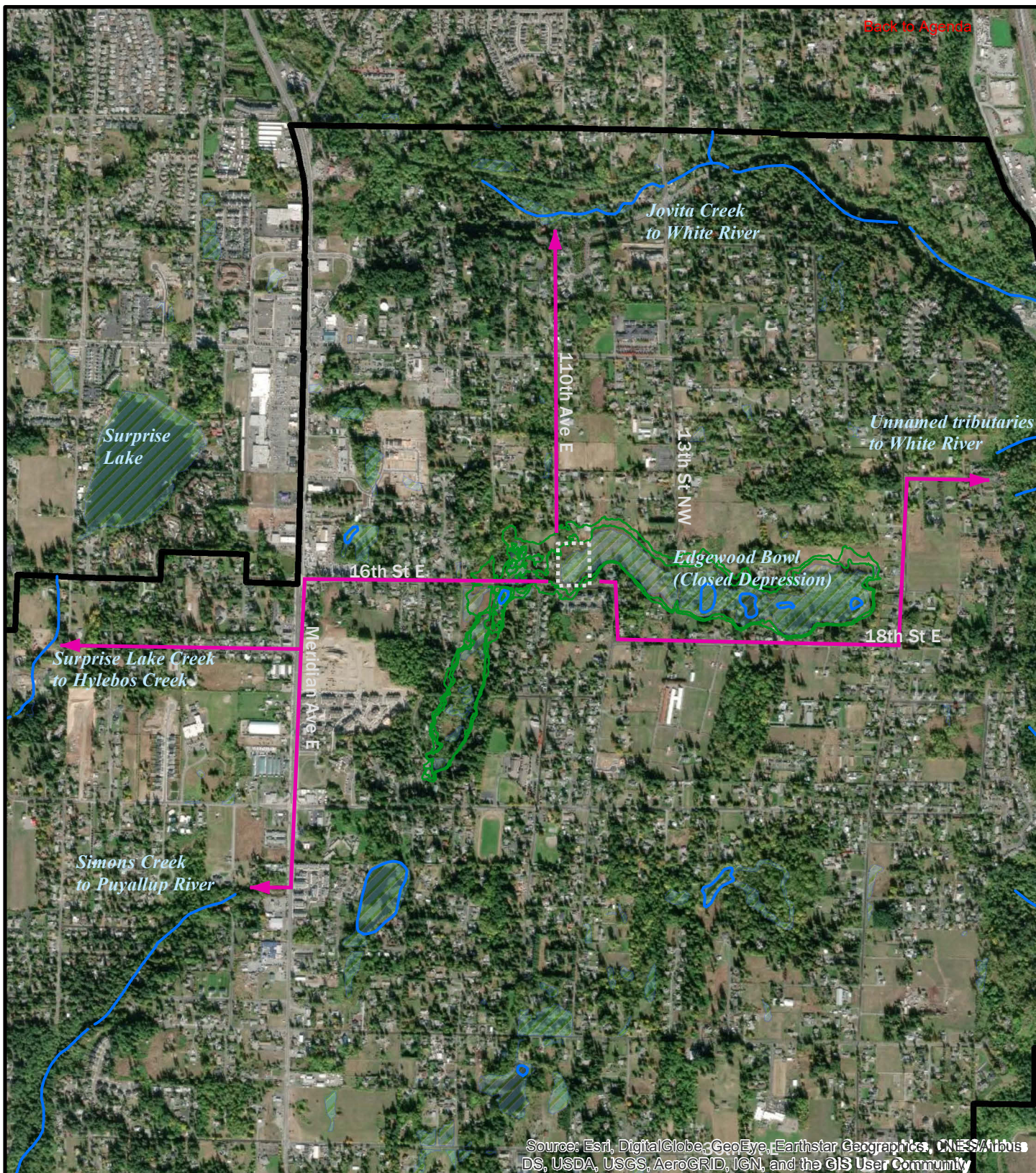
The cost estimate for the feasibility analysis using the collected data (including community engagement, modeling, and feasibility analysis) is based on recent and ongoing similar work on stormwater treatment facility and UIC design, modeling, and community engagement projects in Western Washington. The final cost has been rounded to two significant figures.



Approximate monitoring locations

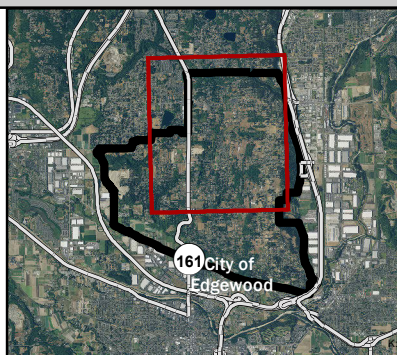


Edgewood Bowl pothole flooding

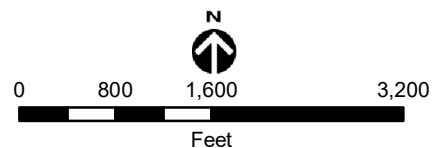


Legend

- Possible paths for discharge
- Water bodies
- City-owned parcel (4.0 acres)
- Edgewood Bowl flood elevations
- Wetlands
- Edgewood city limits



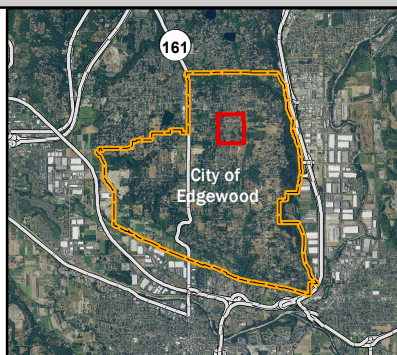
Edgewood Bowl Closed Depression Feasibility Assessment: Possible Discharge Paths



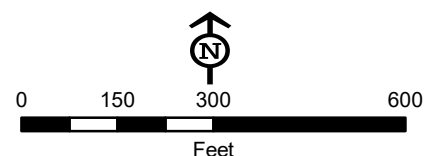


Legend

-  Water bodies
-  City-owned parcel (4.0 acres)
-  Edgewood Bowl flood elevations
-  Wetlands



Edgewood Bowl Closed Depression Feasibility Assessment - Project Concept



Cost Estimate for Edgewood Bowl Closed Depression Feasibility Assessment	
Tasks	Estimated Cost
Task 1 – Project Management	\$50,000
Task 2 – Community Engagement	\$8,500
Task 3 – Baseline Characterization Monitoring	\$145,000
Task 4 – Hydrologic and Hydraulic Modeling	\$105,000
Task 5 – Feasibility Assessment and Preliminary Design	\$91,000
Total Cost	\$399,500

Itemized Costs By Task	
Task 1 - Project Management	Subtask Cost
Records Maintenance	\$5,000
Requests for Reimbursement	\$6,000
Quarterly Progress Reports	\$4,000
Project Oversight and Coordination	\$30,000
Project Outcome Summary Report	\$5,000
Task 1 Total	\$50,000
Task 2 - Community Engagement	
Public Meeting 1	\$8,500
Task 2 Total	\$8,500
Task 3 - Baseline Conditions Monitoring	
Monitoring QAPP	\$8,400
Cultural Resources	\$2,100
Conduct Monitoring	\$108,300
Report Monitoring Results	\$26,200
Task 3 Total	\$145,000
Task 4 - Hydrologic and Hydraulic Modeling	
Draft Modeling QAPP	\$8,000
Final Modeling QAPP	\$2,000
Develop Existing Conditions Model	\$10,000
Calibrate Existing Conditions Model	\$20,000
Model Alternatives Performance	\$50,000
Draft Modeling Results Technical Memorandum	\$10,000
Final Modeling Results Technical Memorandum	\$5,000
Task 4 Total	\$105,000
Task 5 - Feasibility Assessment and Preliminary Design and Cost Estimating	
Identify possible solutions	\$16,000
Screen possible solutions	\$17,000
Cost benefit analysis for three solutions	\$30,000
Preliminary Design and Cost Estimate	\$12,000
Draft Predesign Report and Cost Estimate	\$11,000
Final Predesign Report and Cost Estimate	\$5,000
Task 5 Total	\$91,000



City of Edgewood Stormwater Capital Improvement Program Project Summary Sheet

Name: Lake Chalet Pothole Flood Reduction Project [Back to Agenda](#)

2017 Project Number:	NA
2009 Project Number:	NA
1997 Project Number:	LC-1 - LC-3
CIP List Priority:	4
Estimated Cost:	\$412,000 - \$2,060,000

PROBLEM DESCRIPTION

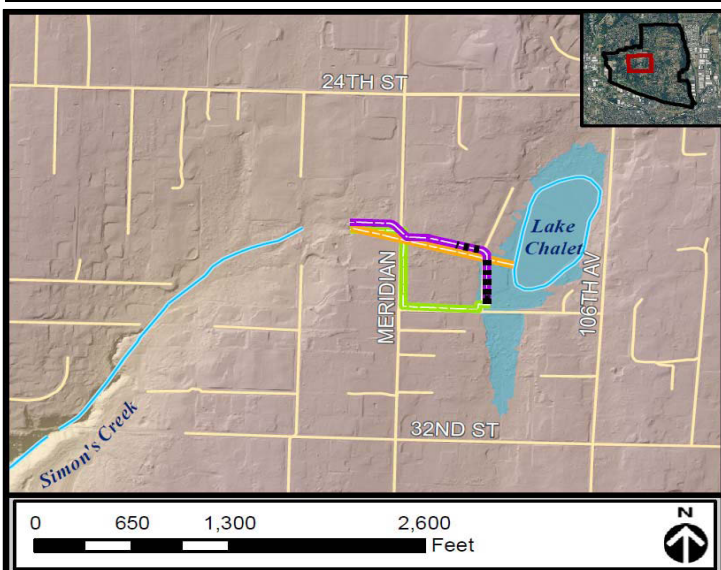
Historically, Lake Chalet overflowed to Simon's Creek; however, development has blocked that overflow pathway. As a result, even minor rainfall events lead to flooding of public streets and private property adjacent to Lake Chalet, including flooding of 29th Street E. The proximity to drinking water wells presents a challenge for infiltration for flood reduction at this pothole.

PROPOSED SOLUTION

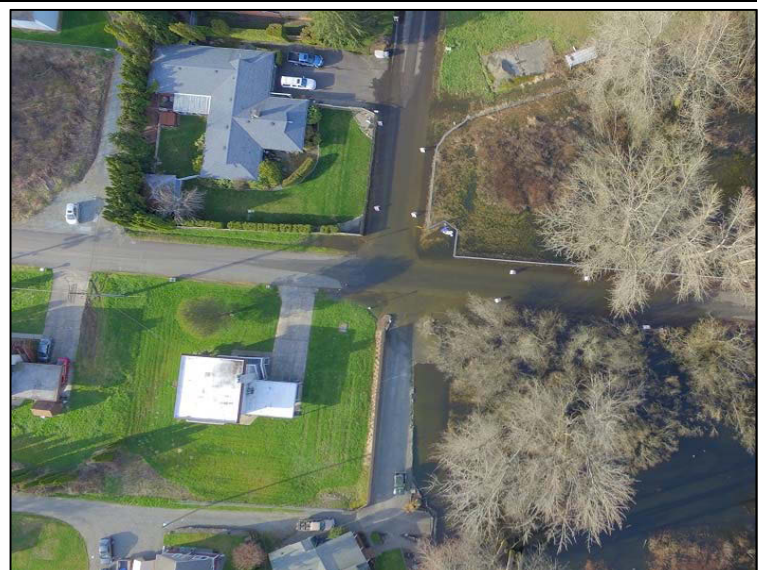
Three options to convey water from Lake Chalet to nearby Simon's Creek have been considered. The least expensive option, from a capital cost standpoint, is to pump water west from Lake Chalet to the intersection of 29th Street E and Meridian Avenue E, and then use gravity flow north along Meridian to a discharge point in the Simon's Creek ravine. This option would require long term pump station operations and maintenance, which is not accounted for in the capital project cost estimates. The second option, gravity flow along the same alignment, is more expensive to construct than the first option, but requires less long term operations and maintenance. The most expensive, but potentially least disruptive option, is a siphon through a horizontal directional drilled (HDD) tunnel, which may also require the least long term O&M. Any option selected would require a quantitative evaluation of potential impacts to streams or groundwater supply.

COST ESTIMATE ASSUMPTIONS

The pump and gravity flow option assumes 1 duplex pump station, electrical work, 600 LF of 4" force main, and connection to the existing storm sewer pipe. The gravity flow option assumes 1,800 LF of 18" storm sewer pipe. The siphon option assumes 1,200 LF of directional boring and associated 18" HDPE Pipe. All projects include an inlet structure and pavement, utility, and vegetation protection and restoration. The estimates do not account for the cost of easements, land acquisition, or mitigation in Simon's Creek. The estimates also do not include allied costs (design, modeling, permitting, City project management, etc.). A more detailed alternatives assessment may be necessary to select the preferred option. Final cost estimates are based on 2017 cost estimates inflated by 3% inflation.



Prospect location showing proposed pipe alignment



Flooding at Lake Chalet pothole

Engineering Construction Cost Estimate for "Conceptual Design and Order of Magnitude"

Project Name: Lake Chalet - Pump Station to Gravity Sewer Option
Project Number: 17-06504-000
Client: City of Edgewood


QA Review

Completed/Updated By: Kyle Johnson
 Last Updated On: 7/30/2017
 Reviewed By: Kevin Houck
 Reviewed On: 7/30/2017
 Approved By: Matt Fontaine
 Approved On: 8/9/2017
 Revised By: Meghan Mullen
 Revised On: 8/28/2017
 Reviewed/Approved On: Matt Fontaine
 Reviewed/Approved On: 8/28/2017

Item No.	Spec Section	Item Description	Qty	Unit	Unit Cost	Total Cost
	Div 1	General Requirements				
1		Mobilization	1	L.S.	8%	\$ 15,063
2		Erosion/Water Pollution Control	1	L.S.	2%	\$ 3,766
3		Utility Protection and Relocation	1	L.S.	5%	\$ 9,414
4		Project Temporary Traffic Control	1	L.S.	2%	\$ 3,766
	Div 2	Earthwork				
5		Remove A/C	178	S.Y.	\$ 20	\$ 3,556
6		Sewer line excavation (force main)	333	C.Y.	\$ 35	\$ 11,667
7		Sewer line backfill (force main)	256	C.Y.	\$ 35	\$ 8,944
	Div 3	Aggregate Production and Acceptance				
8		Pipe Bedding	600	L.F.	\$ 8	\$ 4,800
9		3/4" Minus Crushed Gravel	40	Ton	\$ 47	\$ 1,857
10		2 1/2" " Minus Crushed Rock	79	Ton	\$ 34	\$ 2,686
	Div 5	Surface Treatments and Pavements				
11		3" Asphalt	31	Ton	\$ 175	\$ 5,355
12		Grass restoration	4,800	S.F.	\$ 3	\$ 14,400
	Div 7	Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits				
14		Manholes	1	Each	\$ 11,000	\$ 11,000
15		Inlet structure	1	Each	\$ 30,000	\$ 30,000
16		Outlet structure	1	Each	\$ 10,000	\$ 10,000
16		12' diameter wet well	1	Each	\$ 35,000	\$ 35,000
17		Pumps (duplex), valving, control panel	1	Each	\$ 18,000	\$ 18,000
18		4" HDPE forcemain	600	L.F.	\$ 3	\$ 1,620
	Div 8	Miscellaneous Construction				
20		Dewatering	3	Day	\$ 1,805	\$ 5,415
21		Trench safety	3,000	S.F.	\$ 1	\$ 3,990
22		Electrical Service	1	L.S.	\$ 20,000	\$ 20,000
		Construction Subtotal				\$ 220,299
		Contingency	50%			\$ 110,150
		Subtotal (with +50% Contingency)				\$ 330,449
		Tax	9.4%			\$ 31,062
		Total (with Contingency and Tax)				\$ 400,000

October 2018 cost (3% inflation from 2017 cost):

\$ 412,000

Engineering Construction Cost Estimate for "Conceptual Design and Order of Magnitude"

Project Name: Lake Chalet - Gravity Sewer Option
Project Number: 17-06504-000
Client: City of Edgewood


QA Review

Completed/Updated By: Kyle Johnson
 Last Updated On: 7/30/2017
 Approved By: Matt Fontaine
 Approved On: 8/9/2017
 Revised By: Meghan Mullen
 Revised On: 8/28/2017
 Reviewed/Approved On: Matt Fontaine
 Reviewed/Approved On: 8/28/2017

Item No.	Spec Section	Item Description	Qty	Unit	Unit Cost	Total Cost
	Div 1	General Requirements				
1		Mobilization	1	L.S.	8%	\$ 51,821
2		Erosion/Water Pollution Control	1	L.S.	2%	\$ 12,955
3		Utility Protection and Relocation	1	L.S.	10%	\$ 64,776
4		Project Temporary Traffic Control	1	L.S.	5%	\$ 32,388
	Div 2	Earthwork				
5		Remove A/C	778	S.Y.	\$ 20	\$ 15,556
6		Sewer line excavation	4,306	C.Y.	\$ 35	\$ 150,694
7		Sewer line backfill	3,657	C.Y.	\$ 35	\$ 128,009
	Div 3	Aggregate Production and Acceptance				
8		Pipe Bedding	1,500	L.F.	\$ 18	\$ 27,000
9		3/4" Minus Crushed Gravel	173	Ton	\$ 47	\$ 8,123
10		2 1/2" " Minus Crushed Rock	346	Ton	\$ 34	\$ 11,753
	Div 5	Surface Treatments and Pavements				
11		3" Asphalt	134	Ton	\$ 175	\$ 23,428
12		Grass restoration	24,000	S.F.	\$ 3	\$ 72,000
13		Trees	10	Each	\$ 500	\$ 5,000
	Div 7	Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits				
14		Manholes	4	Each	\$ 13,700	\$ 54,800
15		Inlet structure	1	Each	\$30,000	\$ 30,000
16		Outlet structure	1	Each	\$30,000	\$ 30,000
17		18" Gravity Sewer Pipe (PVC)	1,500	L.F.	\$ 21.00	\$ 31,500
	Div 8	Miscellaneous Construction				
18		Dewatering	10	Day	\$ 1,805	\$ 18,050
19		Trench safety	23,250	S.F.	\$ 1.80	\$ 41,850
		Construction Subtotal				\$ 809,705
		Contingency	50%			\$ 404,852
		Subtotal (with +50% Contingency)				\$ 1,214,557
		Tax	9.4%			\$ 114,168
		Total (with Contingency and Tax)				\$ 1,300,000

October 2018 cost (3% inflation from 2017 cost):

\$ 1,339,000

Engineering Construction Cost Estimate for "Conceptual Design and Order of Magnitude"

Project Name: Lake Chalet - Siphon HDD Option
Project Number: 17-06504-000
Client: City of Edgewood


QA Review

Completed/Updated By: Kyle Johnson
 Last Updated On: 7/30/2017
 Approved By: Matt Fontaine
 Approved On: 8/9/2017

Item No.	Spec Section	Item Description	Qty	Unit	Unit Cost	Total Cost
	Div 1	General Requirements				
1		Mobilization	1	L.S.	8%	\$ 79,401
2		Erosion/Water Pollution Control	1	L.S.	2%	\$ 19,850
3		Utility Protection and Relocation	1	L.S.	10%	\$ 99,251
4		Project Temporary Traffic Control	2	L.S.	5%	\$ 49,626
	Div 2	Earthwork				
5		Entry and exit points	60	C.Y.	\$ 35	\$ 2,100
	Div 3	Aggregate Production and Acceptance				
6		3/4" Minus Crushed Gravel	30	Ton	\$ 47	\$ 1,410
	Div 5	Surface Treatments and Pavements				
7		Grass restoration	24,000	S.F.	\$ 3	\$ 72,000
8		Trees	10	Each	\$ 500	\$ 5,000
	Div 7	Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, and Conduits				
9		Inlet structure	1	Each	\$ 30,000	\$ 30,000
10		Outlet structure	1	Each	\$ 30,000	\$ 30,000
11		Siphon Directional Bore	1	L.S.	\$ 760,000	\$ 760,000
12		18" HDPE Pipe	1,200	L.F.	\$ 35	\$ 42,000
13		18" Fusing and Handling	1	L.S.	\$ 50,000	\$ 50,000
		Construction Subtotal				\$ 1,240,638
		Contingency	50%			\$ 620,319
		Subtotal (with +50% Contingency)				\$ 1,860,956
		Tax	9.4%			\$ 174,930
		Total (with Contingency and Tax)				\$ 2,000,000

October 2018 cost (3% inflation from 2017 cost):

\$ 2,060,000



City of Edgewood Stormwater Capital Improvement Program Project Summary Sheet

Name: Pothole Flood Reduction Plans [Back to Agenda](#)

2017 Project Number: NA
2009 Project Number: 32
1997 Project Number: NA
CIP List Priority: 8, 10-13
Estimated Cost: \$875,500

PROBLEM DESCRIPTION

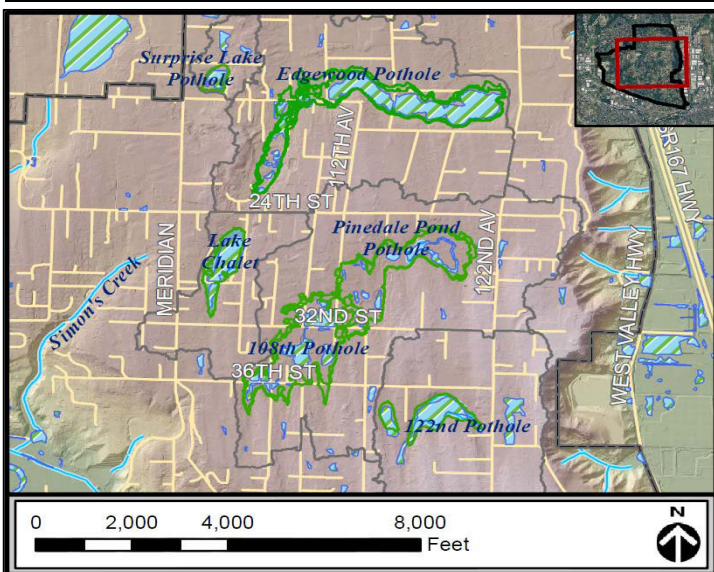
More information is needed to select the best solution to flooding problems in the Edgewood potholes. Pothole specific flood reduction plans need to be developed for five potholes: Edgewood Bowl, Pinedale Pond, 108th Street E, Surprise Lake, and 122nd Avenue E. Each of these potholes has individual characteristics that will need to be understood before developing a flood control plan, (eg., flood elevation, available storage volume, stormwater conveyance network, basin characteristics). Water level monitoring done via a separate CIP project as well as the findings from the feasibility assessment for the Edgewood Bowl pothole will inform these projects.

PROPOSED SOLUTION

Basin characteristics, hydrologic data, and other information from the water level and water quality monitoring project will be used to develop a continuous hydrologic and hydraulic model of the existing conditions in each pothole and then used to develop and evaluate different solution alternatives, starting with the Edgewood Bowl pothole. An initial report will be developed describing the pothole characteristics, modeling results and the alternatives. At least one meeting will be held with the public to discuss results, alternatives considered and recommendations. The solutions will be compared, and the best alternative will be selected. The models will also be used as the basis for a flood study to update FEMA maps of the potholes and potentially result in a letter of map revision (LOMR) for each pothole. The total cost assumes development of five individual flood reduction plans at approximately \$170,000 each.

COST ESTIMATE ASSUMPTIONS

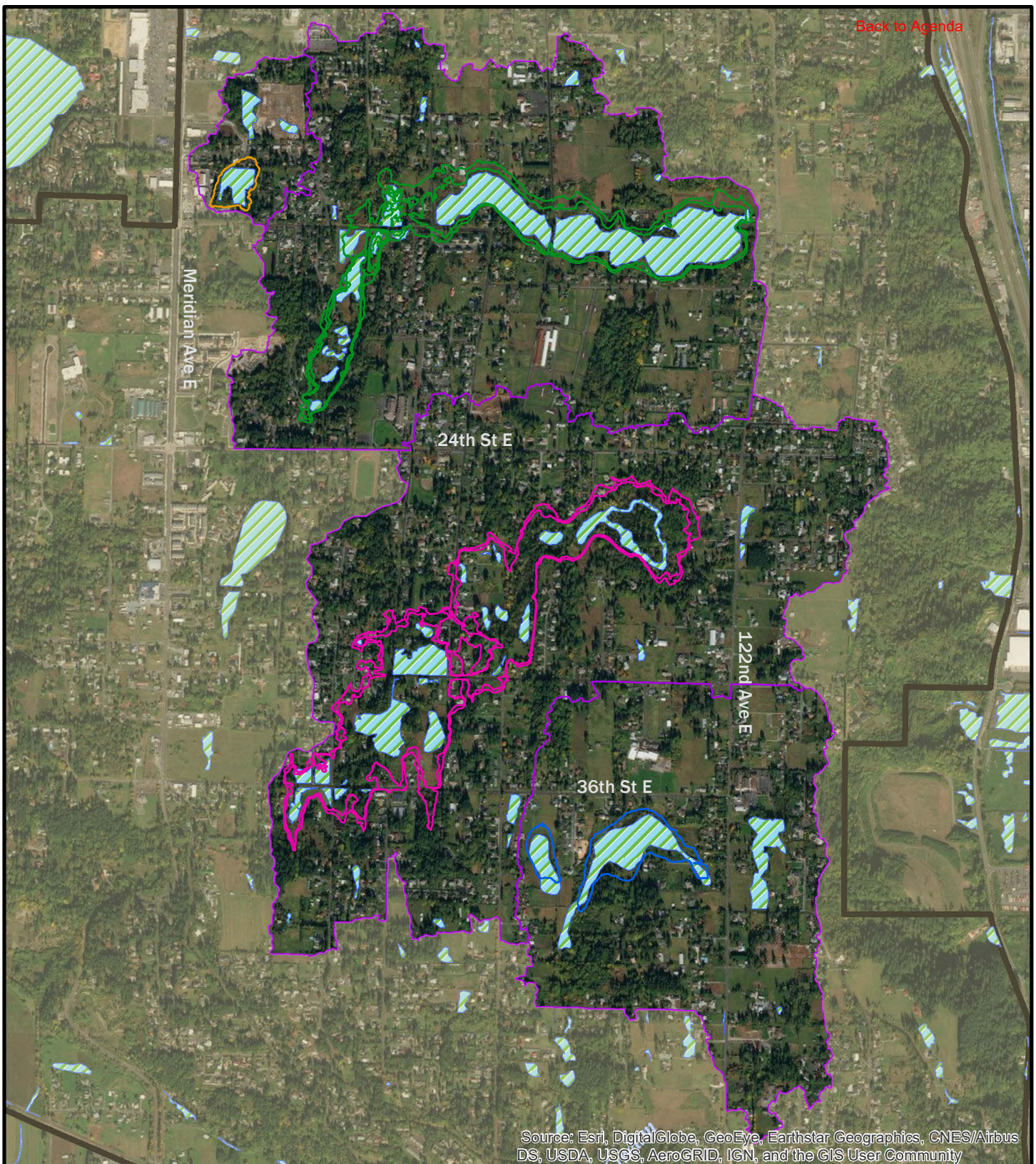
Cost estimate assumptions are based on consultant experience with similar projects and includes public involvement, existing conditions assessment, modeling, development and prioritization of alternatives, a FEMA letter of map revision and development of a plan. The Mountain View Edgewood Water Company (MTVE) has offered to participate financially in raising roads to move their water mains out of flooded areas, if this is one or part of a solution. Final cost estimate is based on 2017 cost estimate inflated by 3% inflation.



Pothole locations



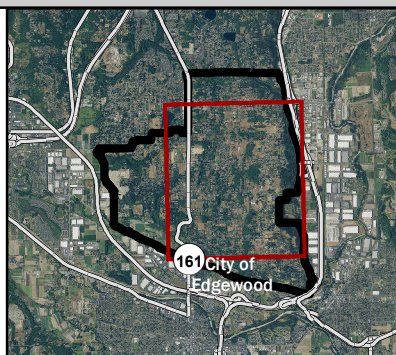
Edgewood Bowl pothole flooding



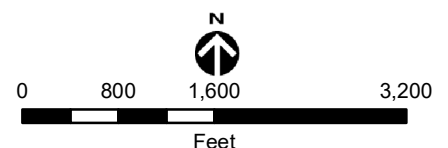
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Pinedale Pond and 108th St potholes
- Surprise Lake pothole
- 122nd Ave E pothole
- Edgewood pothole
- Pothole catchment areas
- Wetlands
- Edgewood City Limits



Pothole Flood Reduction Plans



Cost Estimate for Pothole Flood Reduction Plans.	
Tasks	Estimated Cost
Task 1 – Project Management	\$18,000
Task 2 Public and Stakeholder Outreach	\$10,000
Task 3 – Hydrologic and Hydraulic Analysis of Existing Conditions	\$20,000
Task 4 – Existing Conditions Assessment and Modeling Report	\$20,000
Task 5 – Alternatives Development, Cost Estimating, and Analysis	\$30,000
Task 6 – Prioritization of Alternatives	\$10,000
Task 7 - FEMA Letter of Map Revision	\$10,000
Task 8 – Refinement of Preferred Alternative and Documentation	\$34,000
City Administration and Management (10%)	\$18,000
Total Cost ^a	\$170,000

^a Cost rounded to two significant figures.

October 2018 cost (3% inflation from 2017 cost):

\$175,100



City of Edgewood Stormwater Capital Improvement Program

Project Summary Sheet

Name: Edgewood Drive East Drainage Improvements [Back to Agenda](#)

2017 Project Number:	NA
2009 Project Number:	23
1997 Project Number:	SE-2
CIP List Priority:	15
Estimated Cost:	\$885,800

PROBLEM DESCRIPTION

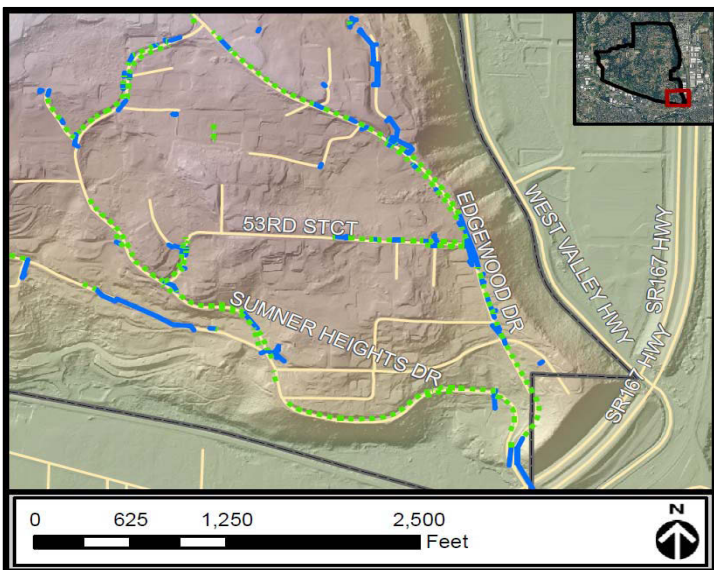
Edgewood Drive is a narrow roadway with substandard alignment complicated by its partial location on a bench within a steep slope. Inadequate roadway drainage has led to runoff flowing down the hill and off the roadway onto properties located on the west side of the road. Existing ditches are undersized and existing piped conveyance overtops in large storm events resulting in water on the roadway and property flooding. Ice also develops on the roadway during the winter months due to the poor drainage resulting in unsafe driving conditions.

PROPOSED SOLUTION

Construct conveyance improvements to alleviate drainage problems as an interim repair until complete road reconstruction can be completed. Improvements include ditch restoration, inclusion of flow restrictors in the conveyance, installation and replacement of driveway and intersection culverts, and installation of a thickened edge and catch basins opposite the open ditch. Existing conveyance in the receiving system must be evaluated for adequate capacity and energy dissipation.

COST ESTIMATE ASSUMPTIONS

The total project cost was calculated by escalating the 2009 CIP cost to account for inflation. The 2009 estimate includes installation of 15 catch basins, 1,380 LF of 8 to 12-inch diameter storm sewer, and 2,000 LF of thickened edge along the roadway. Additional costs include 2,000 LF of ditch restoration, adjusting existing catch basins, repairing the road, city administration and engineering, and a 30 percent project contingency. Final cost estimate is based on 2017 cost estimate inflated by 3% inflation.



Project location map



Edgewood Drive at 53rd Street E

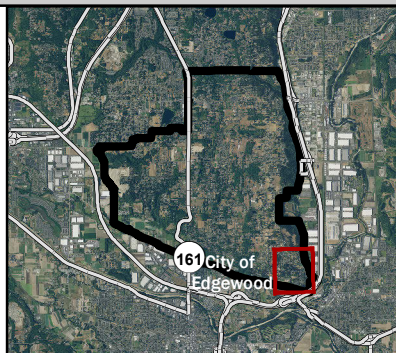


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

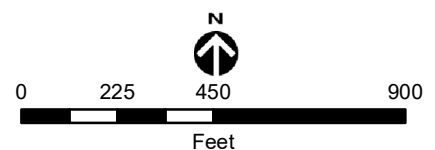
Legend

- Proposed culverts and catch basins*
-  Existing channels
- Existing pipes
-  Edgewood city limits

* Concept developed
in 2009 plan



Edgewood Drive Drainage Improvements





City of Edgewood Stormwater Capital Improvement Program

Project Summary Sheet

Name: Jovita Creek Regional Improvement Feasibility Study [Back to Agenda](#)

2017 Project Number: SW-3

2009 Project Number: 6, 27, 28

1997 Project Number: JC-3, JC-4

CIP List Priority: 17

Estimated Cost: \$515,000

PROBLEM DESCRIPTION

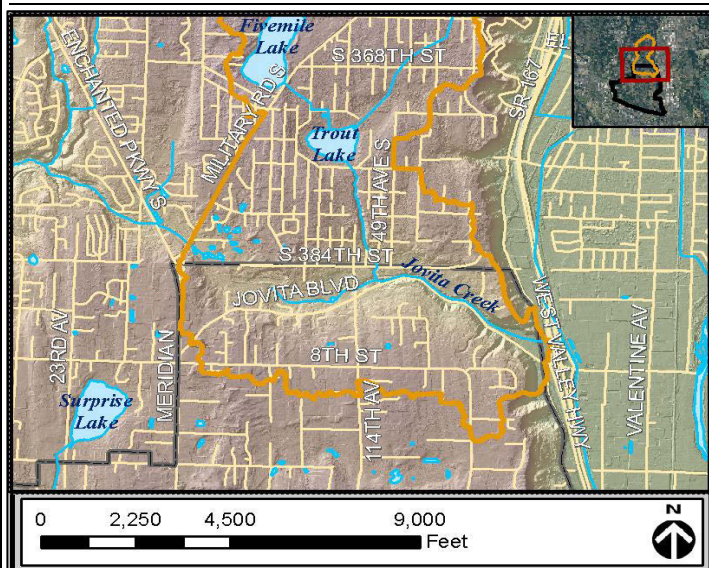
Where it flows through Edgewood, Jovita Creek is a narrow, steep stream corridor that leads to the valley floor with ravine side slopes that range from 10% to 70%. Increased urbanization and impervious area throughout the basin have led to increased flow rates in the creek compared to natural conditions, triggering landslides and severe erosion in the stream bed. Problems identified in the stream corridor include: road closures, debris clogged culverts, stream down cutting, marginal slope stability of the over steepened canyon walls, erosion caused by stormwater outfalls, and inadequate stream capacity. These problems require a regional approach because the basin spans four jurisdictions: King County, Pacific, Milton, and Edgewood.

PROPOSED SOLUTION

The purpose of this project is to develop a plan for the Jovita Creek basin that will prioritize short and long term actions to improve the overall health of the basin. The plan will include evaluation of flooding, slope stability, erosion, water quality, and fish and wildlife habitat problems in the basin under existing and future conditions and will address TMDL requirements. The plan will define and prioritize solutions and include planning level cost estimates for capital projects. The plan will also include maintenance and operations activities, and programmatic measures including education and outreach to correct, mitigate, or avoid these problems. This may require survey of key drainage system components, use of GIS tools, flow monitoring, assessment of fish passage barriers, water quality sampling, or hydrologic and hydraulic modeling. Potential water quality impacts and environmental regulations will also need to be factored into the analyses.

COST ESTIMATE ASSUMPTIONS

The cost estimate is based on consultant experience with similar interjurisdictional projects and includes public involvement, field assessment, modeling, development and prioritization of alternatives, and development of a plan. Final cost estimate is based on 2017 cost estimate inflated by 3% inflation.

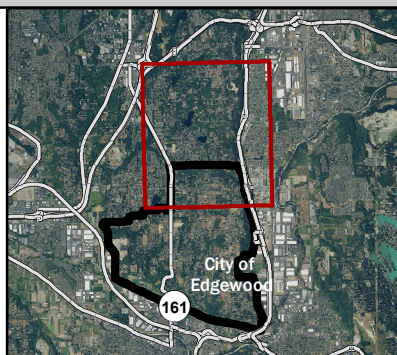


Project location map



Stormwater along Jovita Boulevard

 Jovita Creek and tributary channels
 Jovita Creek watershed
 City and county boundaries



Cost Estimate for Jovita Creek Regional Feasibility Study.	
Tasks	Estimated Cost
Task 1 – Project Management and Coordination	\$75,000
Task 2 – Public and Stakeholder Outreach	\$25,000
Task 3 – Field Survey/Opportunity Assessment	\$25,000
Task 4 – Modeling of Existing and Future Conditions	\$65,000
Task 4 – Existing Conditions Assessment and Modeling Report	\$40,000
Task 5 – Scenario Development, Cost Estimating, and Analysis	\$60,000
Task 6 – Prioritization of Alternatives	\$40,000
Task 8 – Development of CIPs	\$45,000
Task 9 – Development of Regional Plan	\$50,000
City Administration and Management	\$75,000
Total Cost ^a	\$500,000

^a Cost rounded to two significant figures.

October 2018 cost (3% inflation from 2017 cost):

\$515,000

APPENDIX D

Subbasin Inventory Data for Edgewood

Subbasin Inventory Data for Edgewood																			
Basin Group		White River Basin			Jovita Creek Basin	Puyallup River Basin	Wapato Creek Basin	Simons Creek Basin		Hylebos Creek Basin			Pothole Basins						TOTAL
Subbasin		Northern Slopes	Central Slopes	Southern Slopes				Simons Creek	Tributary to Simons Creek	Surprise Lake Creek	Surprise Lake	Hylebos Creek	Edgewood Bowl Pothole	Lake Chalet Pothole	Pinedale Pond/ 114th Ave Pothole	108th Ave Pothole	122nd Ave Pothole	Surprise Lake Pothole	
Area within the city		274.3	75.2	194.0	622.4	444.6	576.6	529.2	261.3	474.7	62.3	4.7	656.0	136.0	384.3	225.9	347.7	73.8	5,343.0
Impervious Area		23.1	3.7	62.1	121.1	82.7	133.0	130.5	39.1	86.3	22.7	2.9	136.0	36.5	83.5	49.2	60.5	17.8	1,090.6
Zoning	BP	0.0	0.0	0.0	34.8	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	39.5
	C	4.2	0.0	0.0	33.6	0.0	0.0	0.0	0.0	0.0	42.9	0.0	0.0	0.0	0.0	0.0	0.0	23.0	103.6
	I	0.0	0.0	0.0	0.0	18.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4
	MR-1	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	76.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.6
	MR-2	0.0	0.0	0.0	22.1	0.0	0.0	5.4	0.0	0.0	1.1	0.0	13.3	0.0	0.0	0.0	0.0	21.0	62.8
	MUR	0.0	0.0	0.0	0.0	0.0	12.7	15.6	27.7	76.7	0.0	0.0	0.0	24.5	0.0	0.0	0.0	0.0	157.1
	Public	0.0	0.0	18.6	42.9	2.0	8.9	29.8	9.8	15.0	0.6	0.0	49.2	14.5	5.7	0.8	10.3	0.3	208.2
	Public ROW	0.0	0.0	0.0	0.0	1.4	1.4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
	SF-2	270.1	75.2	35.5	423.9	69.5	24.6	0.0	0.7	0.0	0.0	0.0	428.3	0.6	350.4	114.9	278.3	0.0	2,072.0
	SF-3	0.0	0.0	139.9	65.2	353.5	515.1	366.4	223.2	278.2	15.0	0.0	165.1	91.3	28.2	110.2	59.1	21.4	2,431.8
	SF-5	0.0	0.0	0.0	0.0	0.0	0.0	42.8	0.0	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.6
	TC	0.0	0.0	0.0	0.0	0.0	0.0	69.3	0.0	6.2	1.8	0.0	0.1	5.2	0.0	0.0	0.0	8.1	90.7
Vulnerable ARA		3.7	1.0	0.5	7.4	13.2	181.1	37.7	56.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	303.5
WHPA		1.4	0.0	0.0	434.3	4.7	370.4	503.4	238.7	63.3	34.9	0.7	634.6	136.0	357.5	225.9	234.2	67.4	3,307.5
Flood Hazard Areas	City identified flood hazard areas	0.0	0.0	0.0	0.0	1.4	20.1	0.0	3.6	0.0	0.0	0.0	23.7	0.0	0.0	6.1	12.9	0.0	67.7
	FEMA floodway	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3	6.8	25.4	6.1	17.1	3.3	96.0
	City identified floodway	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3	6.8	25.4	6.1	17.1	3.3	96.0
	FEMA 100-year floodplain	0.0	0.0	0.0	12.6	0.0	55.7	24.3	14.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.7
	City identified 100-year floodplain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.8	19.8	45.8	25.7	19.7	4.3	162.1
	Combined flood hazard	0.0	0.0	0.0	12.6	1.4	75.8	24.3	18.1	13.5	0.0	0.0	70.5	19.8	45.8	31.3	32.6	4.3	350.1
Steep slopes (>20%)		138.2	46.1	53.7	60.1	107.3	68.6	52.4	21.6	89.0	0.5	0.6	5.4	0.8	2.0	0.6	1.7	1.1	649.6
Steep slopes (>40%)		9.9	2.3	6.0	9.7	4.0	4.2	6.6	1.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.3
Stream Corridor		29.8	0.0	0.0	224.3	27.3	177.4	233.6	78.1	216.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	987.4
Wetland area		7.5	2.7	1.2	59.0	16.9	23.1	13.7	10.6	15.8	3.0	0.0	88.9	11.1	30.0	30.8	25.5	5.7	345.6

APPENDIX E

Stormwater Utility Financial Analysis

City of Edgewood



Surface Water Utility Financial Analysis

FINAL REPORT
August 2018
(Including October 2018 Addendum)

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 **FCS GROUP**
Solutions-Oriented Consulting

October 31, 2018

Jeremy Metzler, P.E.
Public Works Director
City of Edgewood
2224 104th Avenue East
Edgewood, WA 98372

Subject: Surface Water Utility Financial Analysis

Dear Jeremy:

FCS GROUP is pleased to submit this draft report summarizing the results of the utility rate analysis for the City's surface water management utility. The summary-level rate increases are shown below. The methodology used to arrive at these results is covered in the report. The rate increases are projected to meet the utility's annual operating and maintenance expenditures, fund approximately \$3.8 million in new capital investment, and generate funding for the utility's operating and capital financial reserves.

Summary of Results	Existing 2018	Projected 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023
Systemwide Revenue Increase Needs		40.00%	15.00%	2.50%	2.50%	2.50%
Projected Monthly Single-Family Charge	\$13.25	\$18.55	\$21.33	\$21.87	\$22.41	\$22.97
Increase from Prior Year		\$5.30	\$2.78	\$0.53	\$0.55	\$0.56
Projected Annual Single-Family Charge	\$159.00	\$222.60	\$255.99	\$262.39	\$268.95	\$275.67
Increase from Prior Year		\$63.60	\$33.39	\$6.40	\$6.56	\$6.72

Section IV of the report also provides the results and documentation for the utility's system development charge. This information has been modified and documented in the addendum on the following page.

It has been a pleasure to work with you and other City staff on this effort. Please let me know if you have any questions or need additional information on this report. I can be reached at (425) 867-1802 ext 225.

Yours very truly,



John Ghilarducci
Principal



Tage Aaker
Project Manager



Matt Hobson
Project Consultant

OCTOBER 2018 ADDENDUM TO REPORT REVISED SYSTEM DEVELOPMENT CHARGE (SDC)

Summary

This addendum to the Surface Water Utility Financial Analysis replaces the results of the system development charge section of the report (Section IV). The City in coordination with its consulting engineer revised the 2019 – 2024 capital improvement program that was originally used to determine the SDC included in the report and requested that FCS GROUP update the surface water SDC calculation.

As a result of the changes to the capital improvement program, the SDC is estimated at **\$810 per equivalent service unit (ESU)**, instead of \$1,244.

Revisions to System Development Charge Assumptions

As discussed in Section IV of the report, the SDC is based on allocable shares of the existing surface water system cost and the future surface water system cost, which is then divided by the estimated surface water customer base that could be served by the system. The changes to the capital improvement plan impacted the allocable share of future system costs that can recovered by the SDC. **Exhibit 1** details the revised future system cost basis.

Exhibit 1
Revised Future System Cost Basis for SDC

Future System Cost Basis	
Capital Improvement Plan (2018-2024)	\$ 7,990,000
plus: new Skid-Steer Loader	68,000
Total Future Capital Assets	8,058,000
less: Grants/Ineligible Projects	(3,535,000)
less: Provision for Capital Retirement	(561,972)
Total Future System Cost Basis	\$ 3,961,028

The changes to the capital improvement plan did not impact the existing surface water system cost basis (\$2,554,246) or the estimated future capacity of the surface water system (8,047 equivalent service units).

Revised System Development Charge

The existing system cost basis is \$2.55 million plus \$3.96 million in future system cost, for a total cost basis of \$6.51 million.

This is then divided by the estimated total future customer base of 8,047 equivalent service units.

This results in a charge of \$810 per ESU.

TABLE OF CONTENTS

Table of Contents	i
Section I. Introduction	1
Background	1
Methodology	1
Section II. Policy Framework	2
Fiscal Policies	2
Reserves	2
Capital Funding	3
Debt Management	4
Section III. Revenue Requirement Analysis	5
Background	5
Beginning Fund Balances	5
Economic Assumptions	5
Existing Debt Obligations	6
Capital Expenditure Forecast	6
Revenue Requirement Forecast	8
Section IV. System Development Charge Analysis	15
Introduction	15
Legal Basis for SDC	15
Methodology	16
Section V. Conclusion	21
Section VI. Rate Model Summary	22

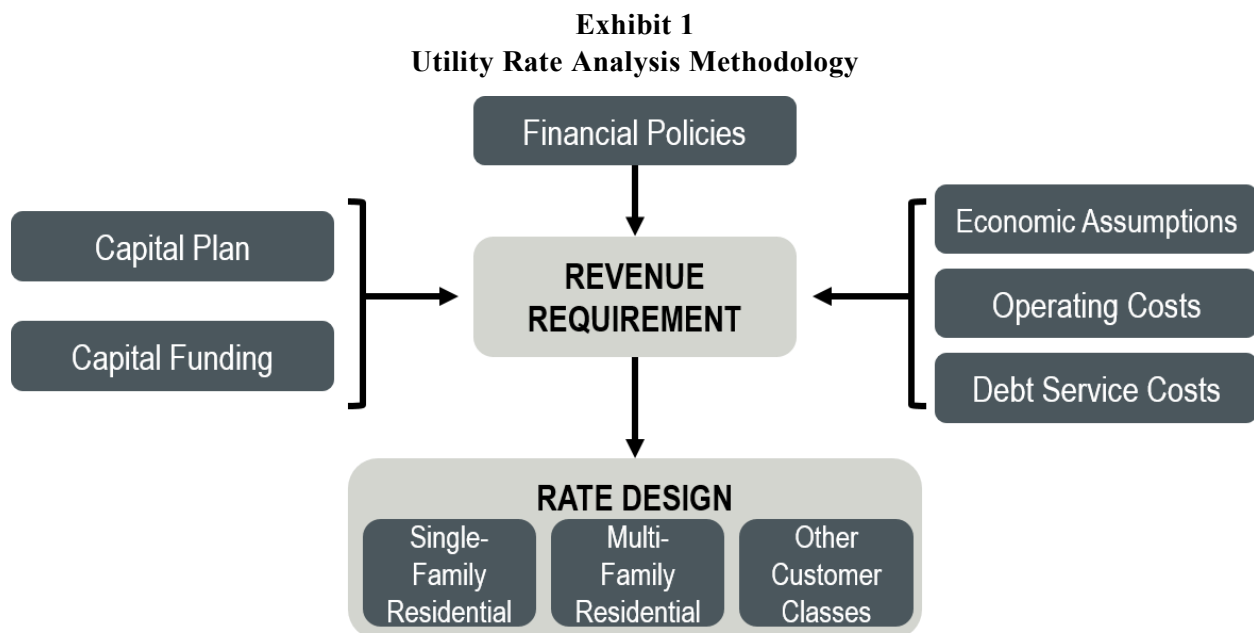
Section I. INTRODUCTION

BACKGROUND

The City of Edgewood contracted with FCS GROUP through Herrera Environmental Consultants to perform a rate and system development charge study for its surface water management (stormwater) utility.

METHODOLOGY

The basis for the utility rate study is a revenue requirement evaluation to establish a long-range financial plan and multi-year rate management strategy. **Exhibit 1** illustrates the key components for the utility rate analysis.



In simple terms, the revenue requirement forecast tells us the level of rate revenue needed to fund the utility's financial obligations and goals. The rate design element tells us the rates that need to be assessed to the utility's customer classes to equitably meet the revenue requirement on an annual basis.

Section II. POLICY FRAMEWORK

FISCAL POLICIES

The financial plan is based on a framework of fiscal policies that promotes the financial integrity and stability of the surface water utility. The ensuing discussion provides a brief summary of the key policies addressed by the City and incorporated in this analysis in the following areas: Financial Reserves (Operating Reserve and Capital Reserve), Capital Funding, and Debt Management.

FINANCIAL RESERVES

Like a business, a municipal utility requires certain minimum levels of cash reserves to efficiently operate. These reserves address the variability and timing of revenues and expenses as well as occasional disturbances in activities. Given the City's responsibility to provide essential services to its customers at a certain standard, protection against financial disruption is even more important than it would be for private-sector or non-essential counterparts. A defined reserve structure serves to both maintain appropriate segregation of funds and promote the use of resources for their intended purposes.

When evaluating fund reserve levels and objectives, it is important to recognize that the value of reserves lies in their potential use. A reserve strategy that deliberately avoids any use of reserves negates their purpose. Fluctuation of reserve levels may indicate that the system is working, while lack of variation over many years strongly suggests that the reserves are, in fact, unnecessary.

Operating Reserve

An operating reserve is designed 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 can help smooth rate increases over time. Target funding levels for an operating reserve are generally expressed as a certain number of days of operating and maintenance (O&M) expenses, with the minimum day requirement varying with the expected revenue volatility of each utility.

Industry practice for utility operating reserves typically range from 30 days (8%) to 120 days (33%) of O&M expenses, with the lower end more appropriate for utilities with stable revenue streams and the higher end of the range more appropriate for utilities with significant seasonal or consumption-based fluctuations. This study assumes a minimum operating reserve target of 120 days, or approximately \$315,000 in 2018.

Surface water utility customers are charged once per year, on their property tax bill from Pierce County. This billing method creates a cash flow surplus after the April and October payment

deadlines and corresponding cash flow deficits in other months. For this reason, the operating reserve target for the City's surface water program is set at a high level relative to other public utilities.

Recommended Policy: Achieve a year-end minimum balance target of 120 days (33%) of total annual operating expenditures. The City's surface water charges are annual and revenue is infrequent, so a higher minimum target balance is used. This equates to a capital reserve of approximately \$315,000, based on the 2018 operating budget of nearly \$1.0 million.

Capital Reserve

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. There are several methods used in the industry to set the level of these types of reserves, including:

- Most costly piece of equipment or infrastructure: A utility may predict the cost of replacing its most expensive piece of equipment or infrastructure.
- Average annual cost of capital program: A utility may use a percentage of its projected capital program, or set the reserve equal to the average annual cost of its capital program.
- Percentage of fixed assets: The most common method is for a capital contingency to be a percentage of the cost of fixed assets, usually 1-2% of the original cost of total assets. Alternatively, a percentage of replacement value can also be used, with the percentage adjusted downward to reflect the fact that replacement value is higher than original cost.

This analysis establishes a capital reserve following the third method described above (percentage of utility plant) and assumes a minimum capital reserve of 0.5 percent of the replacement cost of the utility's fixed assets, or approximately \$92,000 in 2018.

Recommended Policy: Achieve a minimum year-end target of 0.5 percent of the replacement cost of the utility's fixed assets. This equates to a capital reserve of approximately \$92,000 in 2018 and is based on the estimated replacement cost of assets in service of \$18 million.

CAPITAL FUNDING

Utilities typically fund capital improvement projects from a variety of sources, such as grants, developer extensions (e.g., privately-funded improvements), facility charges, utility rates, and debt. While grants and developer contributions would logically be applied to project costs first, the next choice in the funding "hierarchy" is not necessarily apparent.

Rate-Funded System Reinvestment

In order to avoid excessive reliance on debt, it is prudent to have a policy that commits a certain amount of annual rate revenue to the replacement of system assets. A common approach is to establish a planning target for rate-funded capital funding. This planning target, in combination with excess operating reserves swept into the capital account, mitigates the system's reliance on debt.

The level of planned rate-funded capital reinvestment is often set as a percentage of depreciation expense each year, where depreciation data is available. Conceptually, basing rate-funded capital funding on total depreciation expense addresses the following criteria for reasonable rates:

- Financial integrity: Funding depreciation expense from current rates avoids a decline in system asset value; and
- Adequacy of capital funding: Funding depreciation expense from current rates provides a stable funding source for capital expenditures, especially those related to the repair and replacement of existing infrastructure.

This analysis evaluated a series of rate-funded and debt-funded capital funding options along with the corresponding revenue requirement impact for each option. Based on this evaluation and discussions with the Public Works Department, this analysis does not include a rate-funded system reinvestment target. Instead, future annual fund balances in excess of the operating reserve target are transferred to the utility's capital fund. A more detailed description of this transfer is included in the Capital Forecast in the following section.

Recommended Policy: Transfer funds in excess of the operating reserve target to the utility's capital fund.

DEBT MANAGEMENT

Debt financing is one appropriate tool for capital funding. Compared with pay-as-you-go funding, debt smooths out the rate impact of a capital program by spreading costs over time. It also creates intergenerational equity—it is sometimes called “pay-as-you-use” because future customers who use the assets are the ones paying for them. However, debt cannot be relied on too much because it carries the risk of default. Debt also reduces budget flexibility—cash-funded capital projects can be delayed if there is a revenue shortfall, but once the utility has sold debt, the debt service needs to be paid in good times or bad. So while debt is a useful option in the toolbox, it needs to be monitored to ensure that the system does not become too heavily dependent on it. To evaluate the City's debt level, we will discuss a measurement called debt service coverage.

Debt Service Coverage

Debt service coverage is a requirement typically associated with revenue bonds and some State loans, and it is an important benchmark to measure the riskiness of the utility's capital funding plans. A typical minimum coverage requirement for utility revenue bonds is 1.25. The coverage requirement is a ratio of available revenues for debt service and debt service. For example, if the City were to sell bonds, it agrees to collect enough revenue to meet operating expenses and not only pay debt service, but collect an additional 25% increment above bonded debt service. The extra revenue is a cushion that makes bondholders more confident that debt service will be paid on time. To provide a conservative financial estimate of debt coverage costs, this analysis assumes a coverage requirement ratio of 1.50. The extra revenue can be used for capital expenditures, to build system reinvestment reserves, or for debt service on subordinate debt. Achieving a bonded debt service coverage level greater than the minimum required level is a positive signal that bond rating agencies notice, and it can result in more favorable terms if the City goes to the market for revenue bonds.

Recommended Policy: Policy should be dictated by terms outlined in contracts for debt obligations. For planning purposes, the debt service coverage requirement is estimated at 1.50 times bonded debt service.

Section III. REVENUE REQUIREMENT ANALYSIS

BACKGROUND

The revenue requirement is the amount of revenue that a utility's rates must generate to enable it to meet its various financial obligations. This analysis has two main purposes – it serves as a means of evaluating the utility's fiscal health and adequacy of current rate levels, and it sets the revenue basis for near-term and long-term rate planning. The rate revenue requirement is defined as the net difference between total revenue needs and the revenue generated through non-rate sources. Hence, the revenue requirement analysis involves defining and forecasting both needs and resources.

BEGINNING FUND BALANCES

The 2018 beginning fund balance for the surface water utility (Fund #410) is \$235,000.

ECONOMIC ASSUMPTIONS

Operating costs are initially based on the 2018 budget, with adjustments for inflation and any anticipated future changes such as changes to programs or staffing levels. Additionally, actual financial expenses were analyzed over the three year period from 2015 to 2017 to identify any adjustments to the 2018 budget based on historical expense patterns. The key assumptions and inputs used to develop the operating expense forecast are described in further detail below.

- General Cost Inflation – assumed to be 2.50% per year based on historical data from the Consumer Price Index Urban Consumers - Seattle / Tacoma / Bremerton (CPI - U).
- Construction Cost Inflation – assumed to be 3.00% per year based on historical data from the ENR Construction Cost Index (CCI) - 20 City Average index.
- B&O State Taxes – assumed at 1.50 percent of all operating revenue
- Personnel Cost Inflation
 - Labor Cost Inflation: assumed to be 3.00% per year as provided by City staff
 - Benefits Cost Inflation: assumed to be 7.00% in 2019 and 5.00% per year after 2019 as provided by City staff
- Fund Earnings – 1.00% per year based on the Local Government Investment Pool (LGIP) yields in 2017, at the time of analysis.

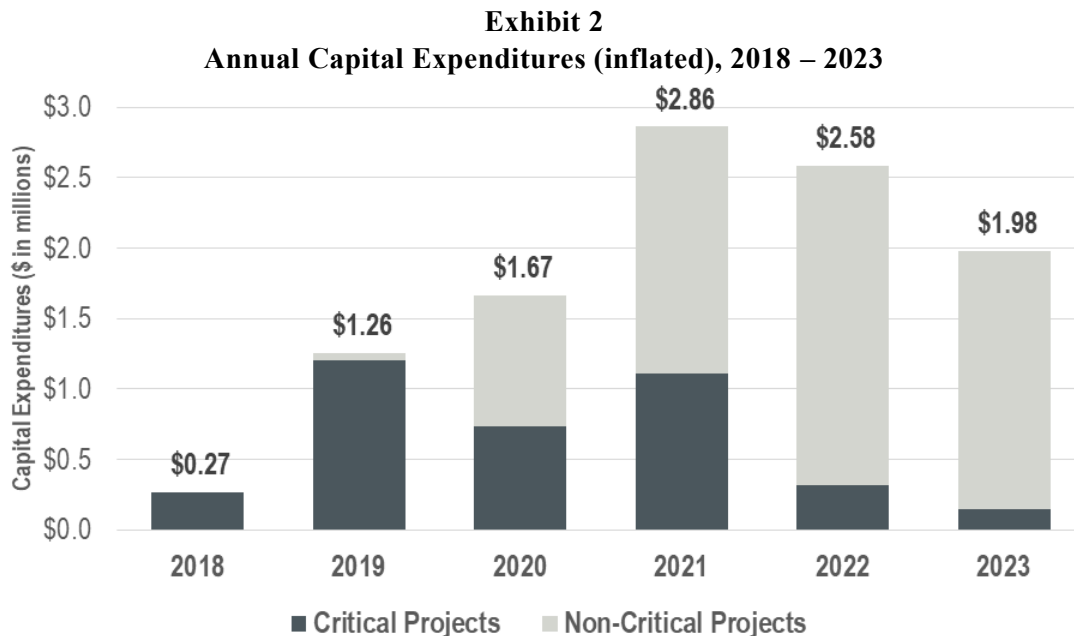
- Customer Growth – Based on a review of projected growth within the service area with City staff, the following was assumed:
 - Residential Customer Account Growth: 10.00% in 2018, 5.00% in 2019, and 2.00% annually thereafter. Residential customer classes include single-family residential, duplexes, and condominium units in the city. The projected growth rates in 2018 and 2019 are attributed to recent and anticipated residential development.
 - All Other Customer Account Growth: 0.25% annually.
- Revenue Bonds: 20 year maturity, 4.00% interest, 1.00% issuance cost, 1.50 legal minimum for debt service coverage. The interest rate assumption is based upon relevant Bond Buyer Indices.

EXISTING DEBT OBLIGATIONS

The City does not have any existing debt obligations related to the surface water utility.

CAPITAL EXPENDITURE FORECAST

The capital forecast involves projecting annual capital expenditures and then developing a strategy to fund those expenditures. The 2018-23 capital spending plan was provided by the City, as described in the updated Surface Water Management Plan. Costs were provided by project, by year, and are in 2017 dollars. The City also categorized the capital projects based on priority by identifying each project as critical or non-critical. To estimate the actual spending by year, costs are inflated to the year of construction. **Exhibit 2** shows the planned annual capital spending, with inflation.



A few summary notes related to the capital plan are provided below:

- The uninflated 2018-2023 capital costs total \$9.4 million; with inflation the total cost is \$10.6 million

- The largest capital project in the six-year schedule is an infiltration pilot project. The design and construction costs of the project are contingent on the results of a pending feasibility analysis. The total project cost is estimated at \$2.2 million (inflated).
- Critical projects comprise 36 percent of total costs or \$3.8 million from 2018-2023. Over the first three years of the capital plan, critical projects make up approximately 70 percent of all capital spending.

Exhibit 3 lists the projects and the cost estimates provided by the City and its consulting engineer along with the estimated year(s) of construction for each project. Cost estimates are inflated to the planned year of construction.

Exhibit 3
2018 – 2023 Capital Projects from the updated Surface Water Management Plan

Capital Projects (inflated)	2018	2019	2020	2021	2022	2023	Total
Critical Projects							
Surface Water Management Plan Update (including stormwater comprehensive plan update)	\$ 77,250	\$ 26,523	\$ 27,318	\$ 28,138	\$ 28,982	\$ 29,851	\$ 218,062
City Drainage Infrastructure Program/Spot Improvements	103,000	106,090	109,273	112,551	115,927	119,405	666,246
Edgewood Pothole Pilot Project Feasibility Assessment	72,100	328,879	87,418	-	-	-	488,397
Lake Chalet Pothole Flood Reduction Project (Pump to Ex-Gravity opt)	-	530,450	-	-	-	-	530,450
24th/112th Seasonal Ponding	15,450	169,744	-	-	-	-	185,194
108th Avenue East Neighborhood (8th to 16th)	-	42,436	273,182	67,531	-	-	383,148
108th Avenue E./36th St. E. Road Flooding	-	-	54,636	900,407	173,891	-	1,128,935
Flood Reduction Plan for Edgewood Pothole	-	-	185,764	-	-	-	185,764
Total Critical Projects	\$ 267,800	\$ 1,204,122	\$ 737,591	\$ 1,108,626	\$ 318,800	\$ 149,257	\$ 3,786,195
Non-Critical Projects							
Infiltration Pilot Project Design and Construction	-	-	109,273	844,132	1,217,238	-	2,170,642
Flood Reduction Plan for Pinedale Pothole	-	-	-	-	197,077	-	197,077
Flood Reduction Plan for 122nd Avenue Pothole	-	-	-	95,668	98,538	-	194,207
Flood Reduction Plan for 108th Avenue Pothole	-	-	-	-	197,077	-	197,077
Flood Reduction Plan for Surprise Lake Pothole	-	-	-	-	-	202,989	202,989
Jovita Boulevard Rehabilitation	-	-	-	56,275	347,782	179,108	583,166
Edgewood Drive East Drainage Improvements	-	-	-	-	-	1,026,885	1,026,885
Meridian Ave. Corridor Study	-	-	54,636	-	-	-	54,636
Jovita Creek Regional Improvement Feasibility Study	-	-	-	196,964	202,873	179,108	578,945
Mortenson Farm Regional Stormwater Improvements	-	53,045	764,909	562,754	-	-	1,380,708
25th St. E. Drainage Improvements	-	-	-	-	-	238,810	238,810
Total Non-Critical Projects	-	53,045	928,818	1,755,794	2,260,584	1,826,900	6,825,141
Total Projects	\$ 267,800	\$ 1,257,167	\$ 1,666,409	\$ 2,864,420	\$ 2,579,385	\$ 1,976,157	\$ 10,611,336

REVENUE REQUIREMENT FORECAST

Methodology

The revenue requirement analysis evaluates the sufficiency of the utility's revenues against its financial obligations, in the context of two sufficiency tests, detailed below. In determining the annual revenue requirement, the test with the greatest deficiency generally drives the rate adjustment in any given year. It is worth noting that the City can temporarily waive the requirements of the cash flow sufficiency test as part of a conscious decision to phase in rate increases, as long as its operating reserve balance is sufficient to absorb the resulting cash flow deficit. If the City has revenue bonds outstanding, the coverage test must always be met, as failure to do so may result in a downgrading of the City's credit rating.

- **Cash Flow Sufficiency Test.** The cash flow test determines whether or not the utility's annual revenues are sufficient to cover the known cash requirements for each year of the planning period. These cash requirements typically include O&M expenses, debt service payments, rate-funded capital outlays, and any additions to reserve balances.
- **Coverage Test.** The coverage test evaluates the utility's ability to meet applicable bond coverage requirements, as specified by typical bond covenants. For any debt issues assumed in the forecast, this analysis assumes a bond coverage requirement of 1.50 times annual debt service. In other words, the City must have enough revenue to cover all expenses plus 1.50 times debt service as a minimum legal level. As this test focuses on annual financial performance, it precludes the use of reserves to cover shortfalls.

Capital Funding Strategy

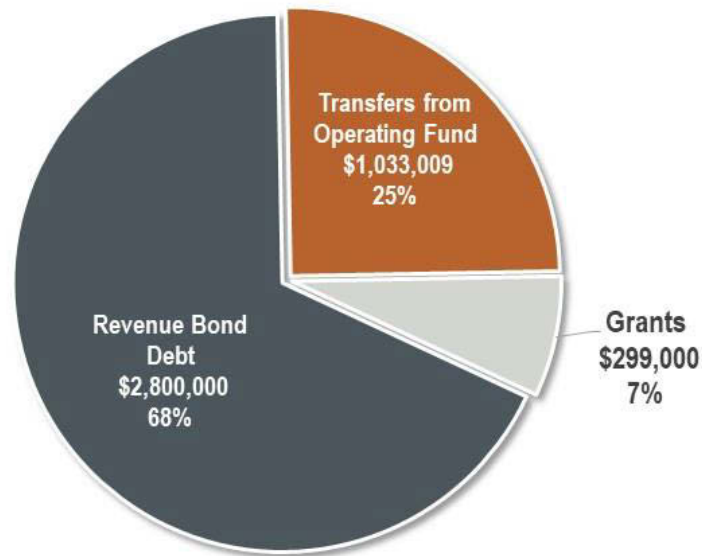
As mentioned previously, uninflated 2018-23 capital spending totals \$9.4 million. After applying inflation, the spending through 2023 totals \$10.6 million. Critical projects comprise approximately \$3.4 million of total uninflated capital spending over the six-year period — \$3.8 million when adjusted for inflation. The capital funding strategy and revenue requirement results are based on funding only the critical projects in the capital plan. The financial and customer rate impacts of funding the entire capital plan are summarized in the "Other Capital Funding Options" section of this chapter.

The anticipated funding sources for the critical projects and the capital contingency reserve include the following items, as summarized in **Exhibit 4**.

- Revenue bond debt: \$2.8 million;
- Transfers from operating fund (above operating reserve target): \$1.0 million; and
- Grants: \$0.3 million (including a \$149,000 feasibility study grant and \$150,000 in Department of Ecology capacity grants)

Capital funding totals \$4.1 million which exceeds the inflated cost of the capital projects (\$3.8 million). The remaining \$0.3 million provides initial funding for the utility's capital reserve.

Exhibit 4
Funding Sources for Capital Funding Strategy



Revenue Requirement Forecast

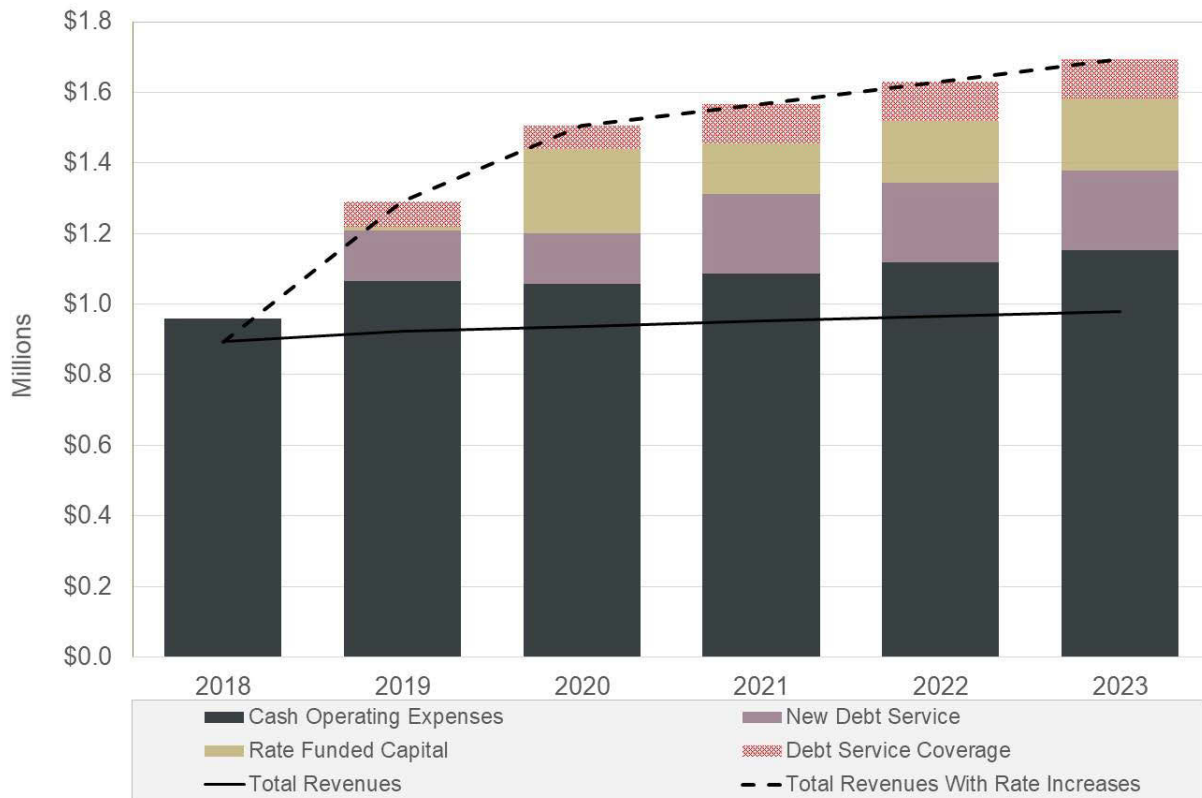
Exhibit 5 summarizes the annual rate increases needed to cover the forecasted obligations of the utility.

Exhibit 5
Annual Rate Increase Needs

Summary of Results	Existing 2018	Projected 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023
Systemwide Revenue Increase Needs		40.00%	15.00%	2.50%	2.50%	2.50%
Projected Monthly Single-Family Charge Increase from Prior Year	\$13.25	\$18.55 \$5.30	\$21.33 \$2.78	\$21.87 \$0.53	\$22.41 \$0.55	\$22.97 \$0.56
Projected Annual Single-Family Charge Increase from Prior Year	\$159.00	\$222.60 \$63.60	\$255.99 \$33.39	\$262.39 \$6.40	\$268.95 \$6.56	\$275.67 \$6.72

Exhibit 6 graphically represents the operating forecast through 2023. The bars represent costs of the utility: operating expenses, new debt service and debt coverage related to the revenue bonds, and rate-funded capital costs. The solid black line represents revenue at the existing 2018 rates—without future rate increases. The existing rate revenue includes the rate adjustment to the “All Other” customer class that was approved by City Council in 2017. The dashed black line shows the revenue corresponding to the recommended rate increases of the study.

Exhibit 6
Annual Revenue Requirement Forecast for the Surface Water Utility, 2018-2023



Observations about the revenue requirement forecast are provided below:

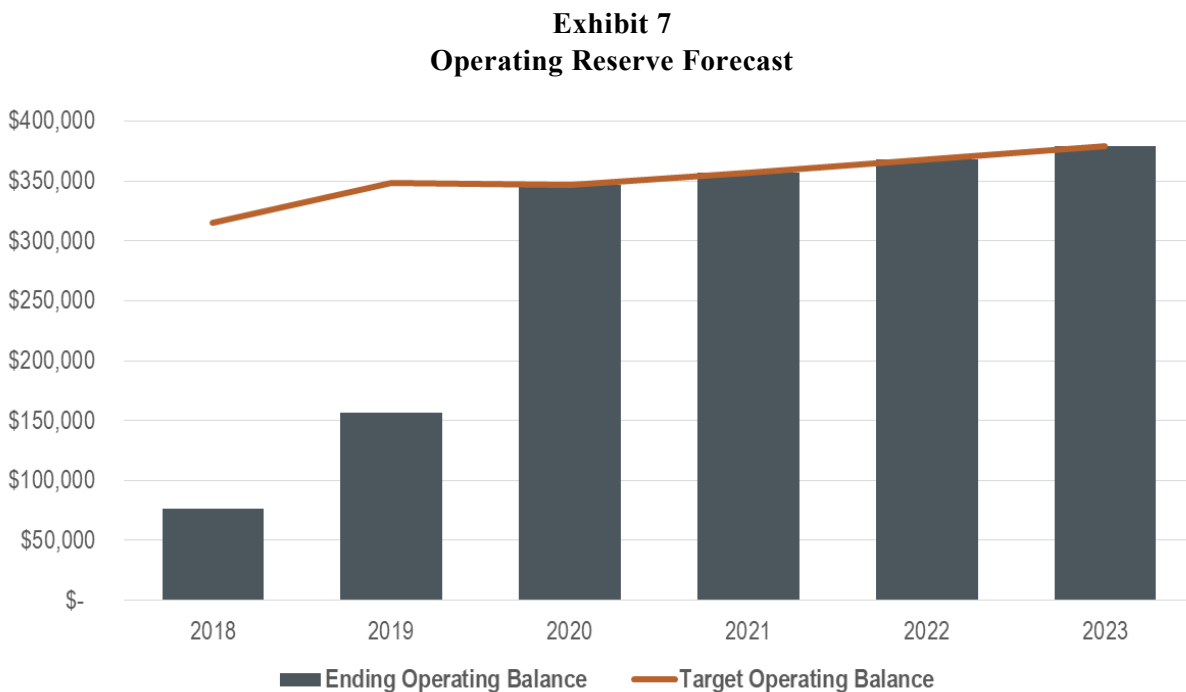
- Dark blue bar: Existing cash operating expenses exceed revenue at existing rates.
 - Operating expenses are projected to outpace current revenues by \$65,000 in 2018. The annual financial gap between operating expenses and revenue is projected to grow to \$162,000 by 2023.
 - An additional 0.68 FTE is planned in 2019 for an Engineering Technician to support the capital improvement program. The compensation cost for the additional staffing is estimated at \$71,000 in 2019. Beginning in 2020, the position would be reduced to 0.29 FTE.
- Purple bar: New annual debt service projected to increase to \$225,000 by 2023.
 - The capital forecast assumes two revenue bonds: \$1.8 million in 2019 and \$1.0 million in 2021 to offset a portion of the \$3.8 million needed for the critical capital projects.
- Gold bar: Rate increases allow the utility to cash fund a portion of the capital plan.
 - As mentioned in the Policy Framework chapter, a rate-funded system reinvestment target was not included in the study. Instead, future annual fund balances in excess of the operating reserve are transferred to the utility's capital fund.
 - This strategy allows the utility to fund approximately \$1.0 million of the 2018-2023 capital plan with rate revenue. Without these rate increases, the utility would need to reduce the scope of the capital plan or increase revenue bond debt.

- Red bar: Debt service coverage costs projected at \$0.1 million by 2023. Debt service coverage on bonded debt is forecasted at 1.56 in 2019 and increases to 2.41 in 2023 (compared to the minimum requirement of 1.50). As mentioned in the Policy Framework chapter, the extra revenue generated to meet debt service coverage requirements can be used for capital expenditures, to build system reinvestment reserves, or for debt service on subordinate debt.

Forecasted Reserve Levels

Operating Reserve: As mentioned previously, the target operating reserve is 120 days of operating expenditures. The operating reserve in 2018 is estimated at \$76,000 or approximately 29 days. The annual rate increases allow the utility to increase the operating reserve each year, achieving the 120 day target by 2020. After 2020, annual ending balances that exceed the operating reserve requirement are assumed to be available for capital projects.

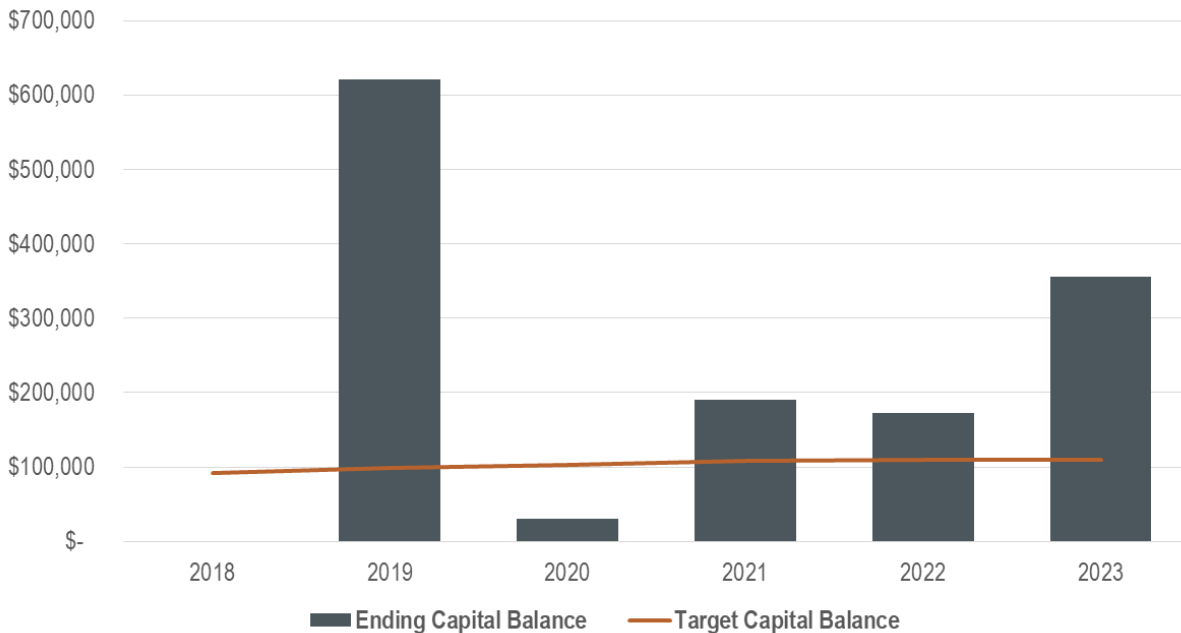
Exhibit 7 illustrates the projected operating reserves from 2018 to 2023 compared to the 120 day target reserve policy.



Capital Reserve: The recommended policy for the capital reserve is to achieve a minimum year-end target of 0.5% of the replacement cost of fixed assets or \$92,000 in 2018. As discussed earlier, one purpose of a financial reserve is to provide a funding source for fluctuating expenses. This purpose is illustrated in the utility's capital reserve strategy in 2020: the capital reserve is projected to be drawn down in 2020 as capital spending is projected to exceed funding sources. By 2023, the ending capital reserve is forecasted to be roughly \$356,000, which exceeds the minimum target balance of \$110,000 in that same year.

Exhibit 8 summarizes the projected capital reserve from 2018 to 2023 compared to the target reserve policy.

Exhibit 8 Capital Reserve Forecast



Projected Rate Schedule

Exhibit 9 shows the projected rates resulting from across-the-board rate increases. “Across-the-board” (ATB) means that all stated rates increase by the same percentage (both the account and impervious square feet charges), which maintains the existing rate structure. Rates for customer classes like Residential-Single Family and Duplex are assessed on a per parcel basis. For other classes like Multifamily and All Other, rates are based on square feet of impervious surface area (abbreviated as ISF). The rate increases for the All Other customer class are based on the revised rate schedule adopted by the City Council in 2017.

Exhibit 9 Rate Schedule Forecast

Recommended Rate Schedule	Existing 2018	Projected 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023
Annual System-Wide Rate Increase		40.00%	15.00%	2.50%	2.50%	2.50%
Residential - Single Family	\$159.00	\$222.60	\$255.99	\$262.39	\$268.95	\$275.67
Duplex	\$205.10	\$287.14	\$330.21	\$338.47	\$346.93	\$355.60
Multifamily per ISF	\$0.06022	\$0.08431	\$0.09695	\$0.09938	\$0.10186	\$0.10441
Mobile Homes	\$87.45	\$122.43	\$140.79	\$144.31	\$147.92	\$151.62
Vacant/Undeveloped per parcel	\$40.00	\$56.00	\$64.40	\$66.01	\$67.66	\$69.35
Each acre above 50 acres	\$0.80000	\$1.12000	\$1.28800	\$1.32020	\$1.35321	\$1.38704
Forest and Timber Land per parcel	\$40.00	\$56.00	\$64.40	\$66.01	\$67.66	\$69.35
State, county and federal public highways per ISF	\$0.01805	\$0.02527	\$0.02906	\$0.02979	\$0.03053	\$0.03129
All Other Parcels per ISF	\$0.06022	\$0.08431	\$0.09695	\$0.09938	\$0.10186	\$0.10441
<i>info: Residential - Single Family (\$ per month)</i>	<i>\$13.25</i>	<i>\$18.55</i>	<i>\$21.33</i>	<i>\$21.87</i>	<i>\$22.41</i>	<i>\$22.97</i>

Other Capital Funding Options

Revenue requirement analyses for two additional capital funding options were tested to determine the relative impact to customer rates and new debt. These two options include:

- Scenario B: Critical capital projects and the infiltration pilot project: \$6.0 million (inflated)
- Scenario C: All capital projects: \$10.6 million (inflated)

Exhibit 10 compares the projected rate increases, single-family residential monthly rate, capital costs (inflated), and revenue bonds for these two scenarios and the baseline scenario (critical projects only).

Exhibit 10
Comparison of Capital Funding Scenarios

	2018	2019	2020	2021	2022	2023	Total
Scenario A: Critical Projects Only							
Annual Rate Increase	0.00%	40.00%	15.00%	2.50%	2.50%	2.50%	
Single-Family Monthly Bill	\$13.25	\$18.55	\$21.33	\$21.87	\$22.41	\$22.97	
Capital Spending (inflated)	\$267,800	\$1,204,122	\$737,591	\$1,108,626	\$318,800	\$149,257	\$3,786,195
New Debt	\$0	\$1,800,000	\$0	\$1,000,000	\$0	\$0	\$2,800,000
Scenario B: Critical Projects + Infiltration Pilot							
Annual Rate Increase	0.00%	40.00%	25.00%	2.50%	2.50%	2.50%	
Single-Family Monthly Bill	\$13.25	\$18.55	\$23.19	\$23.77	\$24.36	\$24.97	
Capital Spending (inflated)	\$267,800	\$1,204,122	\$846,863	\$1,952,758	\$1,536,038	\$149,257	\$5,956,837
New Debt	\$0	\$1,800,000	\$1,000,000	\$2,200,000	\$0	\$0	\$5,000,000
Scenario C: All Projects							
Annual Rate Increase	0.00%	55.00%	15.00%	15.00%	2.50%	2.50%	
Single-Family Monthly Bill	\$13.25	\$20.54	\$23.62	\$27.16	\$27.84	\$28.54	
Capital Spending (inflated)	\$267,800	\$1,257,167	\$1,666,409	\$2,864,420	\$2,579,385	\$1,976,157	\$10,611,336
New Debt	\$0	\$2,250,000	\$0	\$3,700,000	\$0	\$1,300,000	\$7,250,000

A few observations of the comparative results are summarized below:

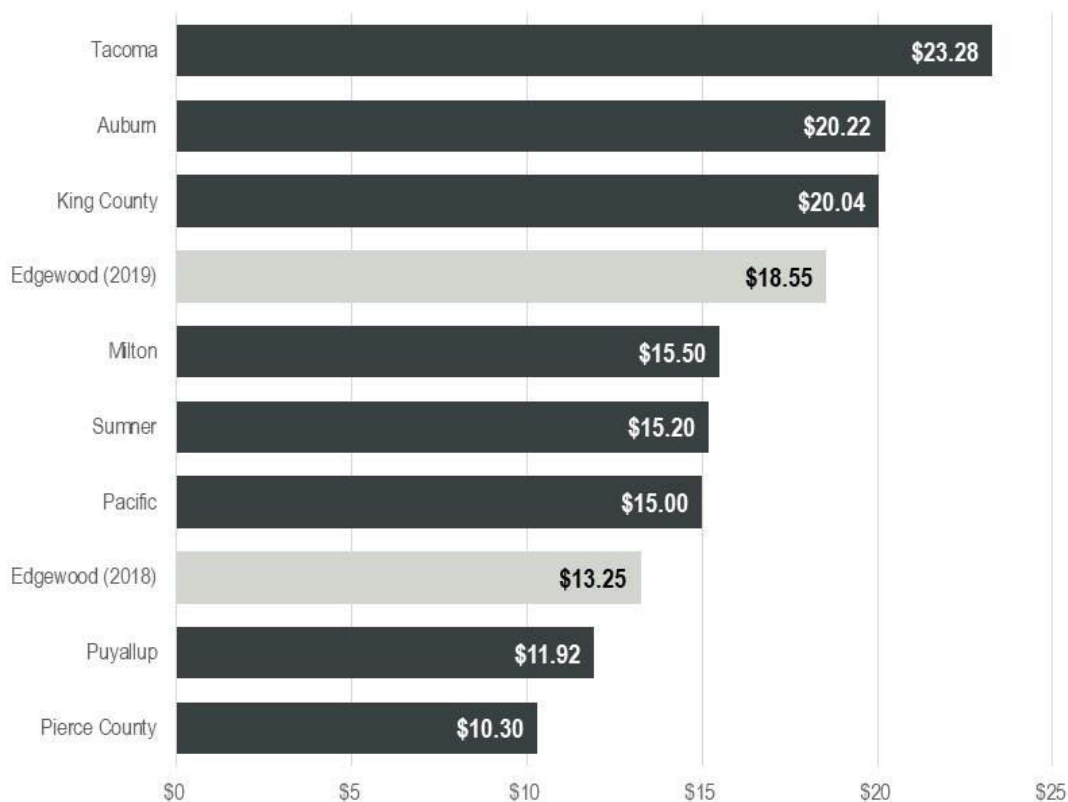
- **Rate Increases:**
 - Scenario B would require a 25% rate increase in 2020 compared to the 15% rate increase required in 2019 for Scenario A. The rate increases for all other years would be the same for Scenarios A and B.
 - Scenario C (all projects) would require a 55% increase in 2019 — compared to a 40% increase for Scenarios A and B. Additionally, a 15% rate increase in 2021 would be needed for Scenario C compared to a 2.5% increase for the other two scenarios in 2021.
- **Single-Family Residential Monthly Bill:** The monthly residential bill is projected to be \$22.97 in 2023 for Scenario A (critical projects only). The projected monthly residential bill in 2023 would increase to \$24.97 and \$28.54 for Scenario B and Scenario C respectively.
- **New Debt:**
 - Scenario B (critical projects and infiltration pilot project) would require \$5.0 million in revenue bonds or \$2.2 million more than Scenario A.

- Scenario C (all projects) would require \$7.25 million in revenue bonds or \$4.45 million more than Scenario A. The revenue bond needs for this scenario are net of the \$1.9 million in grant funding assumed for the capital projects in Scenario C.

Rate Survey

Exhibit 11 compares the City's 2018 and 2019 (projected) monthly rates with the 2017 or 2018 rates of other jurisdictions (year based on data available on websites). Note that each jurisdiction has a unique set of geographic traits, customers, and system characteristics, each of which can have a significant impact on rates.

Exhibit 11
Single-Family Monthly Surface Water Survey



Section IV. SYSTEM DEVELOPMENT

CHARGE ANALYSIS

INTRODUCTION

System Development Charges (SDCs) are imposed on newly connecting customers and are intended to recover a proportionate share of the utility's investment in capital capacity — both the historical cost of existing capital assets and the planned cost of future capital improvements. SDCs serve two main purposes: to provide equity between existing and new customers, and to provide a source of utility capital funding. In addition, SDCs help ensure that growth helps pay for the cost of growth. The charge is imposed on both new development and redevelopment that increases demand for system capacity (net of any existing developed area).

LEGAL BASIS FOR SDC

There are a variety of approaches that are used in the industry to establish a defensible SDC. The development of such charges always occurs in the context of state law. The City is authorized to assess such charges under Section 35.92.025 of the Revised Code of Washington (RCW).

"Cities and towns are authorized to charge property owners seeking to connect to the water or sewerage system of the city or town as a condition to granting the right to so connect, in addition to the cost of such connection, such reasonable connection charge as the legislative body of the city or town shall determine proper in order that such property owners shall bear their equitable share of the cost of such system..."

The statute also authorizes an SDC to include an equitable share of interest on the existing system for up to ten years from the date of construction at a maximum rate of ten percent per year.

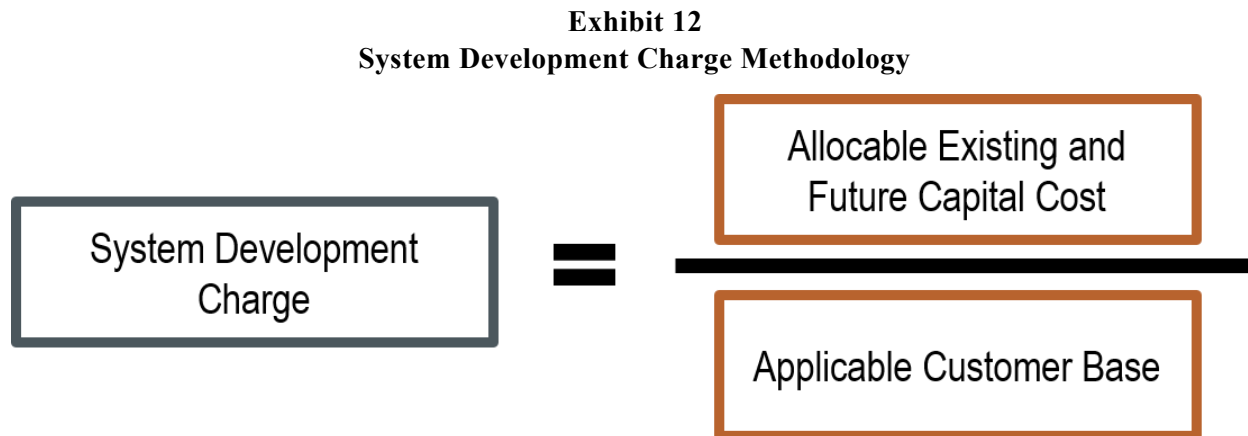
Under RCW 35.67.010, "system of sewerage" is defined as including surface water facilities.

It is important that the City's methodology to determine cost-based connection charges is consistent with RCW 35.92.025 and applicable case law. Since the calculated charges represent the maximum allowable charge, the City may choose to implement a charge at any level up to the calculated charge.

METHODOLOGY

General Overview

The basic approach to the SDC calculation is shown in **Exhibit 12**.



The capital costs used in the SDC calculation can be separated into two major categories:

- Existing system: These costs represent the net investment in assets that currently provide service to customers (and that presumably have some amount of capacity to serve growth).
- Future capital projects: These costs refer to capital improvement projects that the utility plans to undertake within a period of time specified in the system planning documents, but not more than twenty years. A provision for capital retirement – a calculation to account for the original value of the assets any new capital projects are repairing or replacing – is deducted from the total future capital projects.

The applicable customer base is measured in equivalent services units (ESUs) for surface water utilities. One ESU is equal to 2,640 square feet of impervious surface area (see City municipal code 13.10.020 and Pierce County code 11.02.030).

Assumptions

Using the methodology described above, all capital costs (existing assets and future projects net of provisions for retirement) are divided by the total customer base, including customer growth. The main policy emphasis here is on intergenerational equity — there is no cost advantage for either existing or new customers. This calculation is like a simple buy-in charge (which consists of existing costs divided by existing customers), except that it is projected into a future year, after the planned capital projects are completed. The resulting SDC is generally stable over time, and we recommend this methodology for the City.

Defining Existing System Costs

The existing cost basis is intended to recognize the current ratepayers' net investment in the original cost of system assets. The main provisions of the calculation include:

- Utility Plant-In-Service: The existing cost basis is typically comprised of the original cost of plant-in-service, as documented in the fixed asset schedules of the utility. However, original cost

data was not available for the City's fixed assets. As an alternative, City staff provided replacement cost data for utility assets. Based on discussions with staff, it was estimated that much of the system's assets were between 30 to 50 years old. To be the most conservative, it was assumed that all assets in the system were 50 years old. Original costs were then estimated based on Engineering News-Record's construction cost index. Using this methodology, the original cost of the utility's assets is estimated at \$1.8 million as outlined in **Exhibit 13**.

- **Plus: Construction Work In Progress:** The cost of construction work in progress is added to the existing cost basis to recognize investments that a utility has made in capital projects that are currently underway, despite the fact that these projects have not yet been placed into service. The City did not have any construction in progress as of the end of 2017.
- **Less: Contributed Capital:** Assets funded by developers or grants are excluded from the cost basis on the premise that the SDC should only recover costs actually incurred by the City. As of the end of 2017, no utility assets were provided by developers or grants.
- **Plus: Interest on Utility-Funded Assets:** RCW 35.92.025 and subsequent legal interpretations provide such charges can include interest on an asset at the rate applicable at the time of construction. Using the historical Bond Buyer Index for 20-year term bonds, interest can accumulate for a maximum of ten years from the date of construction for any particular asset. Conceptually, this interest provision attempts to account for the opportunity costs that the City's customers incurred by supporting investments in infrastructure rather than having it available for other needs. The interest that the City would have earned from the original cost of utility assets is estimated at \$722,000 as described in **Exhibit 13**.
- **Less: Net Debt Principal Outstanding:** Another adjustment to the existing system cost basis is to deduct the net liability of outstanding utility debt, recognizing that new customers will bear a proportionate share of annual debt service through ongoing utility rates. Outstanding debt represents assets that have been placed into service but that today's ratepayers have not yet paid for. However, cash reserves represent money that today's ratepayers *have* paid for, and that cash could be substituted for indebtedness if needed. So in calculating the amount that should be subtracted from the SDC cost basis, we first deduct cash reserves from the outstanding debt. If the amount of cash reserves is greater than the amount of outstanding debt, the deduction for net debt principal outstanding is zero — it cannot be positive (The term "cash reserves" includes both cash and investments). As referenced in the Revenue Requirement Analysis chapter, the utility does not have any existing debt.

Exhibit 13 summarizes the existing system costs included in the system development charge.

Exhibit 13 Existing System Costs

Original Cost of Existing Assets Calculation	
Estimated Replacement Cost of Existing Assets (2017 dollars)	\$ 18,221,300
Age of Assets, in years (conservative estimate)	50
Assumed Year of Construction	1967
ENR Construction Cost Index for 1967	1,074
ENR Construction Cost Index for 2017	10,680
Original Cost as Percent of Replacement Cost	10%
Estimated Original Cost of Existing Assets	\$ 1,832,314
Interest on Utility Funded Assets Calculation	
Estimated Original Cost of Existing Assets	\$ 1,832,314
Interest Rate from 20-Year Bond Buyer Index (1967)	3.94%
Assumed Years of Interest to Include in SDC	10
Estimated Interest on Utility Funded Assets	\$ 721,932
Summary of Existing System Cost Basis	
Original Cost of Utility Assets	\$ 1,832,314
less: Contributed Capital	-
plus: Interest on Utility Funded Assets	721,932
plus: Construction Work-in-Progress	-
less: Net Debt Principal Outstanding	-
Total Existing System Cost Basis	\$ 2,554,246

Defining Future System Costs

A utility capital improvement program (CIP) includes projects that address many needs, including system expansion, upgrades and the repair and replacement of infrastructure. In some cases, a single CIP project can serve more than one of these purposes.

- **Future Capital Assets:** The basis for future system costs is the utility's 2018-2023 capital improvement plan for all projects with the assumption that the capital improvement plan would support 20 years of customer growth. The SDC calculation covers a longer planning period than the rate analysis (twenty years compared to five years) and assumes that while only critical projects would be funded in the first five years, all of the projects in the capital plan would be completed within the next twenty years. As such, SDC revenue would offset a portion of those capital costs related to expanding system capacity. The uninflated cost of the plan totals \$9.4 million with an additional \$68,000 for the purchase of a skid-steer loader. Total future system costs are estimated at \$9.5 million.
- **Less: Developer Contributions/Grants:** Similar to the methodology for establishing the existing cost basis, future system costs anticipated to be recovered by developer contributions or grants are not included in the system development charge. City staff anticipate \$1.9 million in grant funding for the capital improvement plan, including: \$149,000 for the feasibility study for the pothole pilot project, \$150,000 from Department of Ecology capacity grants, \$450,000 for the Jovita Creek Regional Improvement Feasibility Study, and \$1,175,000 for the Mortenson Farm Regional Stormwater Improvements.

- **Less: Provision for Capital Retirement:** Many capital projects are repairing or replacing existing assets. To avoid including the value of these projects twice – in the existing assets and the capital plan – a provision for capital retirement is used on projects that are deemed repair and replacement (R&R). The provision for capital retirement determines the approximate original cost of the asset the R&R project is replacing, using the useful life of the new project and the historic ENR Construction Cost Index. The sum of the provision for capital retirement calculations are then removed from the future capital project total. In simple terms, if a retention pond expected to last 50 years is being installed in 2018, the provision for retirement determines how much that asset cost in 1968 and removes that portion of the project cost from the calculation. The estimated provision for capital retirement is estimated at \$85,000 and is based on original cost estimates for spot improvements for repair and replacement included in the 2018-2023 capital improvement plan.

Exhibit 14 summarizes the future system costs included in the system development charge. All costs included in the calculations are in estimated 2017 dollars.

Exhibit 14 Future System Costs

Future System Cost Basis	
Capital Improvement Plan (2018-2023)	\$ 9,395,000
plus: new Skid-Steer Loader	68,000
Total Future Capital Assets	9,463,000
less: Developer Contribution/Grants	(1,924,000)
less: Provision for Capital Retirement	(84,586)
Total Future System Cost Basis	\$ 7,454,414

Defining the Customer Base

A key objective in defining the customer base is to determine the number of “customer units” the system can support. In other words, “How many customer equivalents can the system serve, once the capital plan has been fully executed?”

Based on discussions with City staff, it was estimated that the 2018-2023 year CIP would support twenty years of customer growth.

There are a total of 6,010 ESUs in the existing system (2018). To determine the future customer base, the customer growth rates described in the Revenue Requirement Analysis chapter are applied, for a 20-year growth of 2,037 additional ESUs. The total future customer base is 8,047 ESUs.

Exhibit 15 details the applicable customer base for the system development charge calculation.

Exhibit 15 Applicable Customer Base for SDC

Applicable Customer Base	
Residential Single-Family Units (2018)	3,416
Multiplied by Impervious Surface Area per ESU	2,640
Residential Single-Family Impervious Surface Area	9,018,240
plus: Impervious Surface Area from Other Classes	6,847,322
Total Impervious Surface Area	15,865,562
Divided by Impervious Surface Area per ESU	2,640
Existing Customer Base (ESUs)	6,010
plus: New ESUs from Customer Growth (2019-2037)	2,037
Applicable Customer Base	8,047

SDC Calculation

Exhibit 16 shows the summary calculation for the surface water SDC. The total existing cost basis is \$2.6 million plus \$7.5 million in net capital projects, for a total cost basis of approximately \$10 million.

This is then divided by the estimated total future customer base of 8,047 ESUs.

This results in a charge of \$1,244 per ESU, as of 2018.

Exhibit 16 System Development Charge

\$1,244 System Development Charge	=	<table style="margin: auto;"> <tr> <td style="border: 2px solid orange; padding: 10px; display: inline-block; text-align: center;"> \$2,554,246 Allocable Existing Capital Cost </td> <td style="font-size: 2em; font-weight: bold; padding: 0 10px;">+</td> <td style="border: 2px solid orange; padding: 10px; display: inline-block; text-align: center;"> \$7,454,414 Allocable Future Capital Cost </td> </tr> <tr> <td colspan="3" style="border-top: 3px solid black; height: 5px;"></td> </tr> <tr> <td colspan="3" style="text-align: center;"> 8,047 Applicable Customer Base (2037) </td> </tr> </table>	\$2,554,246 Allocable Existing Capital Cost	+	\$7,454,414 Allocable Future Capital Cost				8,047 Applicable Customer Base (2037)		
\$2,554,246 Allocable Existing Capital Cost	+	\$7,454,414 Allocable Future Capital Cost									
8,047 Applicable Customer Base (2037)											

Section V. CONCLUSION

To cover the forecasted financial obligations of the surface water utility, customer rate increases of 40.00% in 2019 and 15.00% in 2020 are needed. After those years, inflationary level increases of 2.50% per year are forecasted to be sufficient through 2023. The rate increase strategy is shown in **Exhibit 17**.

Exhibit 17
Annual Rate Increase Needs

Summary of Results	Existing 2018	Projected 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023
Systemwide Revenue Increase Needs		40.00%	15.00%	2.50%	2.50%	2.50%
Projected Monthly Single-Family Charge	\$13.25	\$18.55	\$21.33	\$21.87	\$22.41	\$22.97
Increase from Prior Year		\$5.30	\$2.78	\$0.53	\$0.55	\$0.56
Projected Annual Single-Family Charge	\$159.00	\$222.60	\$255.99	\$262.39	\$268.95	\$275.67
Increase from Prior Year		\$63.60	\$33.39	\$6.40	\$6.56	\$6.72

These rate increases will allow the utility to cover the following obligations:

- All operating and maintenance expenditures, including cost increases related to inflation
- Critical capital projects as identified by the City (totaling \$3.8 million from 2018 to 2023)
- Reaching and maintaining a 120-day operating reserve by 2020
- Achieving a minimum capital reserve equivalent to 0.5 percent of the utility's fixed assets by 2021 (approximately \$100,000)
- Funding debt service and debt coverage requirements for \$2.8 million in new debt.
- Generating approximately \$115,000 in rate revenue for future capital projects beginning in 2020. By 2023, rate revenue would support approximately \$300,000 for capital projects.

It is recommended that the City revisit the study findings during the forecast period to check that the assumptions used are still appropriate and no significant changes have occurred that would alter the results of the study. The City should use the study findings as a living document, routinely comparing the study outcomes to actual revenues and expenses. Any significant or unexpected changes will require adjustments to the rate strategy proposed in this report.

Section VI. RATE MODEL SUMMARY

Combined Operating and Capital Activity	2018	2019	2020	2021	2022	2023
Annual Rate Increases: Above Currently Adopted Rates	0.00%	40.00%	15.00%	2.50%	2.50%	2.50%
Single-Family Residential Bill (\$ per month)	\$13.25	\$18.55	\$21.33	\$21.87	\$22.41	\$22.97
Combined Beginning Fund Balance	\$ 235,176	\$ 76,342	\$ 777,584	\$ 376,207	\$ 547,593	\$ 540,857
Rate Revenues (Before Rate Increases)	891,126	920,605	933,448	946,535	959,869	973,455
System Development Charge Revenue	-	-	-	-	-	-
Other Revenues	2,352	763	9,221	5,207	7,724	7,657
Rate Revenues: Additional from Rate Increases	-	368,242	569,404	615,484	663,755	714,316
Grants	174,000	25,000	25,000	25,000	25,000	25,000
Other Debt Proceeds	-	-	-	-	-	-
Revenue Bond Net Proceeds	-	1,800,000	-	1,000,000	-	-
Total Resources	1,302,654	3,190,952	2,314,657	2,968,433	2,203,941	2,261,285
Baseline Operating Expenditures	(958,512)	(1,064,720)	(1,056,332)	(1,087,395)	(1,119,463)	(1,152,574)
Existing Debt Service	-	-	-	-	-	-
New Debt Service	-	(144,527)	(144,527)	(224,820)	(224,820)	(224,820)
Additions to Reserve Requirement	-	-	-	-	-	-
Capital Projects	(267,800)	(1,204,122)	(737,591)	(1,108,626)	(318,800)	(149,257)
Total Expenditures	(1,226,312)	(2,413,368)	(1,938,450)	(2,420,841)	(1,663,083)	(1,526,651)
Ending Fund Balance	\$ 76,342	\$ 777,584	\$ 376,207	\$ 547,593	\$ 540,857	\$ 734,635
Combined Minimum Target Balance	407,573	446,695	448,449	464,970	477,096	488,717
Ending Total Days of Operating Expenditures	29	267	130	184	176	233

Capital Projects (inflated)	2018	2019	2020	2021	2022	2023
Surface Water Management Plan Update (including stormwater comprehensive plan update)	\$ 77,250	\$ 26,523	\$ 27,318	\$ 28,138	\$ 28,982	\$ 29,851
City Drainage Infrastructure Program/Spot Improvements	103,000	106,090	109,273	112,551	115,927	119,405
Edgewood Pothole Pilot Project Feasibility Assessment	72,100	328,879	87,418	-	-	-
Lake Chalet Pothole Flood Reduction Project (Pump to Ex-Gravity opt)	-	530,450	-	-	-	-
24th/112th Seasonal Ponding	15,450	169,744	-	-	-	-
108th Avenue East Neighborhood (8th to 16th)	-	42,436	273,182	67,531	-	-
108th Avenue E./36th St. E. Road Flooding	-	-	54,636	900,407	173,891	-
Flood Reduction Plan for Edgewood Pothole	-	-	185,764	-	-	-
Total	\$ 267,800	\$ 1,204,122	\$ 737,591	\$ 1,108,626	\$ 318,800	\$ 149,257

Notes:

- Highlighted rows in the table above are for emphasis only

Funds	2018	2019	2020	2021	2022	2023
OPERATING RESERVE						
Beginning Balance	\$ 235,176	\$ 76,342	\$ 156,705	\$ 346,295	\$ 357,272	\$ 367,805
plus: Net Cash Flow after Rate Increase	(65,034)	80,364	305,005	254,713	285,162	316,303
less: Transfer of Surplus to Capital Fund	(93,800)	-	(115,415)	(243,736)	(274,629)	(305,429)
Ending Balance	\$ 76,342	\$ 156,705	\$ 346,295	\$ 357,272	\$ 367,805	\$ 378,679
<i>Minimum Target Balance: 120 days</i>	\$ 315,127	\$ 348,229	\$ 346,295	\$ 357,272	\$ 367,805	\$ 378,679
<i>Maximum Funds to be Kept as Operating Reserves: 120 days</i>	\$ 315,127	\$ 348,229	\$ 346,295	\$ 357,272	\$ 367,805	\$ 378,679
<i>Actual Days of Cash Operating Expenses Achieved</i>	29 days	54 days	120 days	120 days	120 days	120 days
CAPITAL RESERVE						
Beginning Balance	\$ -	\$ -	\$ 620,879	\$ 29,912	\$ 190,320	\$ 173,053
plus: System Reinvestment Funding	-	-	-	-	-	-
plus: Transfers from Operating Fund	93,800	-	115,415	243,736	274,629	305,429
plus: Capital Grants / Contributions / Other Resources	174,000	25,000	25,000	25,000	25,000	25,000
plus: SDC Revenue Towards Capital	-	-	-	-	-	-
plus: Revenue Bond Proceeds	-	1,800,000	-	1,000,000	-	-
plus: Other Loans 1 Proceeds	-	-	-	-	-	-
plus: Other Loans 2 Proceeds	-	-	-	-	-	-
plus: DWSRF Loan Proceeds	-	-	-	-	-	-
plus: Interest Earnings	-	-	6,209	299	1,903	1,731
Total Funding Sources	\$ 267,800	\$ 1,825,000	\$ 767,503	\$ 1,298,947	\$ 491,853	\$ 505,212
less: Capital Expenditures	(267,800)	(1,204,122)	(737,591)	(1,108,626)	(318,800)	(149,257)
Ending Capital Fund Balance	\$ -	\$ 620,879	\$ 29,912	\$ 190,320	\$ 173,053	\$ 355,955
<i>Minimum Target Balance</i>	\$ 92,445	\$ 98,466	\$ 102,154	\$ 107,697	\$ 109,291	\$ 110,037
DEBT RESERVE						
Beginning Balance	\$ -	\$ -	\$ 144,527	\$ 144,527	\$ 224,820	\$ 224,820
plus: Reserve Funding from Operations	-	-	-	-	-	-
plus: Reserve Funding from New Debt	-	144,527	-	80,293	-	-
less: Use of Reserves for Debt Service	-	-	-	-	-	-
Ending Balance	\$ -	\$ 144,527	\$ 144,527	\$ 224,820	\$ 224,820	\$ 224,820
<i>Minimum Target Balance</i>	\$ -	\$ 144,527	\$ 144,527	\$ 224,820	\$ 224,820	\$ 224,820
SUMMARY						
Combined Beginning Balance	\$ 235,176	\$ 76,342	\$ 922,111	\$ 520,734	\$ 772,412	\$ 765,677
Plus: Inflows	\$ 202,766	\$ 2,049,891	\$ 451,629	\$ 1,604,040	\$ 586,694	\$ 648,462
Less: Outflows	\$ (361,600)	\$ (1,204,122)	\$ (853,006)	\$ (1,352,362)	\$ (593,430)	\$ (454,685)
Combined Ending Balance	\$ 76,342	\$ 922,111	\$ 520,734	\$ 772,412	\$ 765,677	\$ 959,454
<i>Net Change in Reserves</i>	\$ (158,834)	\$ 845,769	\$ (401,377)	\$ 251,678	\$ (6,735)	\$ 193,777
TOTAL AVAILABLE CASH TEST: DAYS OF O&M						
Actual Operating & Capital Ending Balance	\$ 76,342	\$ 777,584	\$ 376,207	\$ 547,593	\$ 540,857	\$ 734,635
Actual Ending Total Days of O&M	29 days	267 days	130 days	184 days	176 days	233 days
<i>Target: 150 Days of O&M</i>	\$ 393,909	\$ 437,556	\$ 434,109	\$ 446,874	\$ 460,053	\$ 473,661

Notes:

- Cells highlighted in red denote ending fund balances that are below financial policy targets



City Of Edgewood Council Agenda Summary Sheet

SUBJECT: Establishing Monetary Penalties for Violations of Speed Limits	Agenda Item #:	2F								
	For Agenda of:	December 4, 2018								
	Prepared by:	Chief Lundborg & Carol Morris								
ATTACHMENTS (list): NONE										
Approval of Materials:										
Mayor, Daryl Eidinger	☒	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Expenditure Required:</td> <td style="width: 60%; text-align: right;">\$0</td> </tr> <tr> <td>Amount Budgeted:</td> <td style="text-align: right;">\$0</td> </tr> <tr> <td>Appropriation Required:</td> <td style="text-align: right;">\$0</td> </tr> <tr> <td colspan="2" style="padding: 2px;"> Timeline: N/A </td> </tr> </table>	Expenditure Required:	\$0	Amount Budgeted:	\$0	Appropriation Required:	\$0	Timeline: N/A	
Expenditure Required:	\$0									
Amount Budgeted:	\$0									
Appropriation Required:	\$0									
Timeline: N/A										
Asst. City Administrator, Dave Gray	☒									
City Attorney, Carol Morris	☒									
City Clerk, Rachel Pitzel	☒									
Community Development Director, Darren Groth	☒									
Public Works, Jeremy Metzler	☒									
Police Chief, Micah Lundborg	☒									
Fiscal Note/Consideration: The contract that the City has with Verra Mobility (formerly ATS) has violators pay the violations to the court which takes its fee (\$25) from the violation amount and then the court forwards those funds to the City. Verra Mobility then sends the City a bill each month for the cost of the camera systems (\$23,750) and the City pays Verra Mobility each month.										
SUMMARY STATEMENT: The city needs to establish penalties for violation of the City's speed limits, both inside and outside of school/playground zones. This includes penalties for tickets issued by the automated traffic cameras in school/playground zones. Currently, the limit is \$250.00 for traffic violations, but where an officer writes the ticket for a speeding violation in a school zone, the penalty must be doubled – this amount cannot be waived, suspended or reduced. If you were stopped by an officer in Edgewood for speeding in a school zone today: 1) The ticket would go on your driving abstract (record). 2) The fee you would receive would be based on your recorded speed. The speed limit, when the lights are flashing or when children are present, is 20 mph. Exceeding the 20 mph limit at the time would cost you: a. 1-5 over--\$214 b. 6-10 over--\$234 c. 11-15 over--\$296 d. 16-20 over--\$378 e. 21-25 over--\$480 f. 26-30 over--\$583 If you receive a ticket from a school zone camera: 1) The ticket will NOT go on your driving abstract (record). 2) For Edgewood, we are proposing that you would have to be speeding in excess of 26 mph to get a ticket (the cameras won't flash until six over).										

3) You, the council, will also have to set that limit and the violation amount. For your information, this is what other cities do in their school zones. (Information provided by ATS and other cities. Some of it is over a year old but should still be valid.)

- a. Lakewood
 - i. 6-10 over--\$101
 - ii. 11-15 over--\$132
 - iii. 16-20 over--\$173
 - iv. 21-25 over--\$224
 - v. 26+ over--\$250
- b. Federal Way
 - i. 6-10 over--\$210
 - ii. 11+ over--\$250
- c. Fife
 - i. 1-10 over--\$101
 - ii. 11-15 over--\$132
 - iii. 16-20 over--\$173
 - iv. 21-25 over--\$224
 - v. 26+ over--\$250
- d. Des Moines
 - i. 6-10 over--\$210
 - ii. 11+ over--\$250
- e. Bellevue
 - i. 8+ over--\$124
- f. Kent
 - i. 6-10 over--\$124,
 - ii. 11+ over--\$248
- g. Issaquah
 - i. 7+ over--\$124
- h. Lake Forest Park
 - i. 6+ over--\$124
- i. Lynwood
 - i. 6-15 over--\$124
 - ii. 16+ over--\$250
- j. Renton
 - i. 6-15 over--\$124
 - ii. 16+ over--\$250
- k. Seattle
 - i. 6+ over--\$234
- l. Spokane
 - i. 8-13 over--\$214
 - ii. 14-18 over--\$234
 - iii. 19-23 over--\$296
 - iv. 24-28 over--\$378
 - v. 29 over--\$450

When we first began researching these systems, I looked at what a regular speeding ticket would cost a violator (if stopped by an officer) for speeding in a 25 mph zone. (NOT A SCHOOL ZONE)

1-5 over	\$125
6-10 over	\$136
11-15 over	\$166
16-20 over	\$207
21-25 over	\$250
26-30 over	\$250

The question presented to the council is what would you like to set the fees at for violators? We didn't set this program up to generate revenue but that is a possibility depending on the number of violators and the cost of the violation(s). The ordinance you approved says that any revenue generated from the program will be dedicated solely to law enforcement purposes and will not go into the general fund. Also, the maximum fee, per our ordinance, is set at \$250.

The one factor that isn't listed is that Pierce County District Court will collect \$25 per ticket as well. That amount is taken from the fine and not in addition to it.

The recommendations of the Police Chief are in the attached draft ordinance.

COUNCIL COMMITTEE REVIEW AND RECOMMENDATION:

RECOMMENDED ACTION: Consider the attached draft ordinance and decide whether to accept the Police Chief's recommendation on penalties, or to make changes to the penalties (within the limitations of state law).

ALTERNATIVES TO RECOMMENDED ACTION:

- 1) Do not adopt
- 2) Forward to Study Session for further review

DRAFT 11/29/18

ORDINANCE NO. _____

AN ORDINANCE OF THE CITY OF EDGEWOOD, WASHINGTON, RELATING TO SPEEDING AND TRAFFIC ENFORCEMENT, AMENDING THE PENALTIES FOR VIOLATIONS OF THE SPEED LIMIT IN THE CITY, AND FOR VIOLATIONS OF THE SPEED LIMITS IN SCHOOL ZONES/CROSSWALKS WHICH ARE TICKETED BY POLICE OFFICERS AND AUTOMATED TRAFFIC SAFETY CAMERAS, AMENDING EDGEWOOD MUNICIPAL CODE (EMC) SECTIONS 10.25.090 AND 10.10.100; PROVIDING FOR SEVERABILITY; AND ESTABLISHING AN EFFECTIVE DATE

WHEREAS, the City Council has established speed limits within the City; and

WHEREAS, the City Council has established speed limits in school zones and crosswalks;
and

WHEREAS, the speed limits are enforced by police officers and by automated traffic safety cameras which detect speeding violations in school zones and crosswalks; and

WHEREAS, RCW 46.63.100(1) establishes the limits on monetary penalties for traffic infractions as \$250.00 for each offense, unless there is an exception in state law; and

WHEREAS, RCW 46.61.440(3) requires that the City impose a monetary penalty equal to twice the penalty assessed under RCW 46.63.100(1) when a person commits an infraction relating to speed restrictions within a school or playground speed zone, which penalty cannot be waived, reduced or suspended; and

WHEREAS, RCW 46.63.170 limits the monetary penalty for an infraction relating to speed restrictions within a school or playground speed zone that is detected by an automated safety camera to be no more than \$250.00, or the amount of a fine issued for other parking infractions within the City; and

WHEREAS, the City Council wishes to establish these penalties as allowed by law;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF EDGEWOOD, WASHINGTON, DO ORDAIN AS FOLLOWS:

Section 1. Edgewood Municipal Code (EMC) Section 10.25.090 is hereby amended to read as follows:

10.25.090 Penalty for Violations Noted by Automated Traffic Safety Cameras.

A. ~~(4)~~ The maximum penalty for infractions detected under authority of, and committed pursuant to, the provisions of this chapter shall be \$250.00. The monetary penalty for a violation of this chapter and EMC Section 10.10.050 is consistent with the authority of RCW 46.63.170, and shall not exceed the maximum amount of fine issued for other parking infractions within the City of Edgewood. The actual penalty imposed will be as set forth in EMC Section 10.10.100(E).

B. ~~(2)~~ Revenue from fines assessed under authority of this chapter shall be used solely for law enforcement purposes or as otherwise provided by state law. For purposes of this section, the term “law enforcement purposes” may include, but is not limited to, the following:

(1) ~~(a)~~ Personnel costs for employees or contractors who are involved in automated speed enforcement planning and implementation, including professional services such as traffic engineering services;

(2) ~~(b)~~ Personnel costs for employees or contractors who are involved in automated speed enforcement court hearings, fine collection, or other processing, including expert witness fees;

(3) ~~(c)~~ Costs associated with training of employees or contractors involved with the automated speed enforcement program;

(4) ~~(d)~~ Purchase and/or maintenance of equipment, including signage, related to the automated speed enforcement program;

(5) ~~(e)~~ Costs associated with traffic safety projects in the transportation capital fund unrelated to the automated speed enforcement program.

Section 2. Edgewood Municipal Code (EMC) Section 10.10.100 is hereby amended to read as follows:

10.10.100 Penalties.

~~Unless another penalty is expressly provided every person convicted of a violation of any section of this title shall be guilty of an infraction and shall be punished by a fine of not more than \$250.00.~~

A. A person found to have committed a traffic infraction shall be assessed a monetary penalty. No penalty may exceed \$250.00 for each offense unless a higher penalty is specifically provided for in this title, as authorized by State law.

B. There shall be a penalty of \$25.00 for failure to respond to a notice of traffic infraction, to appear at a requested hearing or to pay a monetary penalty imposed pursuant to this Chapter.

C. A traffic violation of this chapter 10.10 (exceeding speed limits) when the violation is not detected through the use of an automated traffic safety camera shall be subject to the following penalties:

<u>Miles per hour over speed limit</u>	<u>Penalty</u>
1-5 mph over	\$ 125.00
6-10 mph over	\$ 136.00
11-15 mph over	\$ 166.00
16-20 mph over	\$ 207.00
21-25 mph over	\$ 259.00
26-30 mph over	\$ 310.00

D. A traffic violation of EMC 10.10.050 (Speed limits within School Zones) that is not detected through the use of an automated traffic safety camera shall be subject to the following penalties. These penalties may not be waived, reduced or suspended:

<u>Miles per hour over speed limit</u>	<u>Penalty</u>
1-5 mph over	\$ 250.00
6-10 mph over	\$ 272.00
11-15 mph over	\$ 332.00
16-20 mph over	\$ 414.00
21-25 mph over	\$ 518.00
26-30 mph over or more	\$ 620.00

E. A traffic violation of EMC 10.10.050 (Speed limits within School Zones) that is detected through the use of an automated traffic safety camera (chapter 10.25 EMC) shall be processed in the same manner as a parking infraction and be subject to the following penalties:

<u>Miles per hour over speed limit</u>	<u>Penalty</u>
1-5 mph over	\$ 125.00
6-10 mph over	\$ 136.00
11-15 mph over	\$ 166.00
16-20 mph over	\$ 207.00
21-25 mph over	\$ 250.00
26-30 mph over or more	\$ 250.00

Section 3. Severability. Should any section, paragraph, sentence, clause or phrase of this ordinance, or its application to any person or circumstance be declared unconstitutional or otherwise invalid for any reason, or should any portion of this ordinance be preempted by state or federal law or regulation, such decision

or preemption shall not affect the validity of the remaining portions of this ordinance or its application to other persons or circumstances.

Section 4. Effective Date and Publication. A summary of this ordinance consisting of its title shall be published in the official newspaper of the City. This ordinance shall take effect and be in full force five (5) days after the date of publication.

ADOPTED BY THE CITY COUNCIL ON THE __TH DAY OF _____, 2018.

Daryl Eiding, Mayor

ATTEST/AUTHENTICATED:

Rachel Pitzel, City Clerk

APPROVED AS TO FORM:

Carol Morris, City Attorney

Date of Publication:

Effective Date:



City Of Edgewood Council Agenda Summary Sheet

SUBJECT: Affirmation of Pierce County Council's action for classification of 19.12 acres within the city of Edgewood as Open Space		Agenda Item #: 2G	
		For Agenda of: December 4, 2018	
		Department: Comm. Dev.	
		Prepared by: Darren Groth	
ATTACHMENTS (list): ☒ Draft Resolution ☒ Pierce County Staff Report ☒ Letter from Pierce County with Ordinance Attached ☒ Site Photos			
Review of Materials:			
Mayor, Daryl Eiding	☒	Expenditure Required:	\$0
Asst. City Administrator, Dave Gray	☒	Amount Budgeted:	\$0
City Attorney, Carol Morris	☒	Appropriation Required:	\$0
City Clerk, Rachel Pitzel	☒	Timeline: December 04: Study Session December 11: Public Hearing and Final Action	
Community Development Director, Darren Groth	☒		
Public Works, Jeremy Metzler	☒		
Fiscal Note/Consideration: None, other than the City may see a very slight increase in tax revenue with this new classification.			
SUMMARY STATEMENT: The property owner, N.C. Talas, LLC, applied to have the property located at 11623 Valley Ave. E., Edgewood, entered into the statewide Current Use Assessment program. This program allows a reduction in the owner's property taxes on an on-going basis, as long as the owner keeps the property in continued use as an open space area. Pierce County received a 2017 Current Use Open Space application within the city of Edgewood. The application requires Pierce County and the City of Edgewood Joint Determining Authority (JDA) to take action in 2018. As a result, Pierce County adopted Ordinance No. 2018-69 on October 23, 2018 with an effective date of November 5, 2018. On November 6, 2018, Pierce County sent a notice to the City of Edgewood seeking affirmation of the open space classification. The subject property currently contains designated forest lands and receives the associated tax reduction. By excluding approximately 6.18 acres from the Open Space classification, the subject property's overall tax burden is estimated to increase slightly. As a result, the impact to the City of Edgewood affirming the Open Space Classification for the remaining 19.12 acres is likely negligible.			
COUNCIL COMMITTEE REVIEW AND RECOMMENDATION: N/A			
RECOMMENDED ACTION: Hold a discussion regarding the affirmation of Open Space Classification for 19.12 acres.			

RESOLUTION NO. 18-0xxx

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF EDGEWOOD, WASHINGTON, RELATING TO THE CITY'S OPEN SPACE PROGRAM, DESIGNATING PROPERTY OWNED BY N.C. TALAS LLC, LOCATED AT 11623 VALLEY AVENUE EAST, CITY OF EDGEWOOD, AS OPEN SPACE FOR PROPERTY TAX PURPOSES UNDER THE CITY AND PIERCE COUNTY'S OPEN SPACE CURRENT USE ASSESSMENT PROGRAM

WHEREAS, N.C. Talas, LLC is the owner of property located at 11623 Valley Avenue East, Edgewood, Washington (Parcel Nos. 0420221702, 0420221703, 0420221704 and 0420221705); and

WHEREAS, N.C. Talas, LLC has requested that this property be included into the statewide Current Use Assessment program authorized under RCW 84.34.037; and

WHEREAS, this classification would reduce the property taxes assessed to the N.C. Talas LLC property on an on-going basis, contingent upon its continued use as an open space area; and

WHEREAS, the procedure in RCW 84.34.037 allows for separate legislative actions of both the Pierce County Council and the City Council of the City of Edgewood; and

WHEREAS, on October 23, 2018, the Pierce County Council considered the recommendation of various County departments in a Staff Report, which recommended approval, and adopted PCC Ordinance No. 2018-69, which affirmed the application without modification and directed that the Ordinance be forwarded to the City of Edgewood for affirmation of the application, consistent with RCW 84.34.037; and

WHEREAS, RCW 84.34.037 requires that the application be processed in the same manner as a comprehensive plan amendment, in which the City Council must conduct a public hearing; and

WHEREAS, on _____, 2018, the City Council held a public hearing on the N.C. Talas LLC application for the proposed Open Space Current Use assessment; and

WHEREAS, this Resolution is categorically exempt from SEPA under WAC 197-11-800(19); and

WHEREAS, the Council considered this Resolution during its _____ regular City Council meeting;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF EDGEWOOD, WASHINGTON, HEREBY RESOLVES AS FOLLOWS:

Section 1. That the City Council has reviewed the Findings of Fact adopted by the Pierce County Council in PCC Ordinance No. 2018-69 (attached hereto as Exhibit A) and incorporates the same by reference.

Section 2. That the application for Case No. OS15-17 for N.C. Talas LLC for property located at 11623 Valley Avenue East, Edgewood, Washington (Parcel Nos. 0420221702, 0420221703, 0420221704 and 0420221705) for Open Space classification of 19.12 acres, as more fully described in Exhibit A to PCC Ordinance No. 2018-69, attached hereto and incorporated herein by reference, is hereby approved.

Section 3. That the City Clerk is directed to forward this Resolution to the Clerk of the Pierce County Council, in order to complete the process, all as described in Pierce County Ordinance No. 2018-69 and the transmittal letter dated November 6, 2018 from the Clerk of the Pierce County Clerk to Rachel Pitzel, Edgewood City Clerk.

Section 4. This Resolution shall become effective upon passage.

PASSED THIS __TH DAY OF NOVEMBER, 2018.

Daryl Eiding, Mayor

ATTEST:

Rachel Pitzel, City Clerk



STAFF REPORT

DATE: May 17, 2018

TO: Joint Determining Authority of Pierce County and the City of Edgewood

FROM: Chad R. Williams, Senior Planner

SUBJECT: Current Use Assessment Case No. OS15-17

APPLICANT: N.C. Talas LLC

SUMMARY: The applicant is proposing to transfer 19.12 acres of a four parcel, 25.30- acre site, from Designated Forest Land to Current Use Open Space. The site is located at 11623 Valley Avenue East, within the municipal boundaries of the City of Edgewood, in Council District 2. The site qualifies with five High Priority Resources.

TAX PARCEL DESCRIPTION:

0420221702; PARCEL A OF BLA 2015-11-13-5001 A POR OF WILLIS BOATMAN DLC DESC AS FOLL COM AT NE COR OF SEC TH S 00 DEG 00 MIN 15 SEC W 1341.1 TO NE COR OF GOVT LOT 9 OF SD SEC TH N 89 DEG 06 MIN 37 SEC W 376.1 FT TH S 00 DEG 10 MIN 26 SEC W 299.02 FT TH N 89 DEG 53 MIN 16 SEC W 539.78 FT TO POB TH S 05 DEG 05 MIN 08 SEC W 150.89 FT TH S 15 DEG 29 MIN 06 SEC E 163.11 FT TH S 03 DEG 20 MIN 27 SEC E 31.51 FT TH S 37 DEG 39 MIN 18 SEC W 109.91 FT TH S 67 DEG 29 MIN 17 SEC W 107.37 FT TH N 66 DEG 39 MIN W 103.07 FT TH N 81 DEG 43 MIN 07 SEC W 44.1 FT TH N 49 DEG 48 MIN 14 SEC W 146.74 FT TH S 81 DEG 36 MIN 14 SEC W 59.28 FT TH N 52 DEG 46 MIN 47 SEC W 84.71 FT TH N 64 DEG 58 MIN 48 SEC W 140.23 FT TH S 37 DEG 12 MIN 16 SEC W 10.83 FT TO NLY MAR OF CM ST P & P RR TH N 67 DEG 36 MIN 17 SEC W 80.32 FT TH N 00 DEG 34 MIN 29 SEC E 274.5 FT TH S 89 DEG 53 MIN 16 SEC E 185.02 FT TH N 00 DEG 34 MIN 29 SEC E 164.46 FT TH N 56 DEG 09 MIN 29 SEC E 32.14 FT TH S 33 DEG 50 MIN 31 SEC E 30.92 FT TO A NON TANG CURVE WHOSE RADIUS PT BEARS S 63 DEG 50 MIN 31 SEC E RAD OF 30 FT SD NON TANG CURVE IS ALSO MAR OF 120TH AVCT E TH SLY ALG SD NON TANG CURVE THRU A C/A OF 72 DEG 52 MIN AN ARC DIST OF 38.15 FT TH S 00 DEG 34 MIN 29 SEC W 121.71 FT TH S 89 DEG 53 MIN 16 SEC E 534.61 FT TO POB CURRENT USE RCW 84.34 AS AMENDED TIMBERLAND 2.64 ACS AND 3.81 ACS EXCLUDED 1988 AFN 8901060309 EASE OF REC OUT OF 04-20-22-1-098 & 1- 700 SEG 2018-0257 JP/SD 11/09/17 JP/SD

0420221703; PARCEL B OF BLA 2015-11-13-5001 A POR OF GOVT LOT 9 & A POR OF WILLIS BOATMAN DLC DESC AS FOLL COM AT NE COR OF SEC TH S 00 DEG 00 MIN 15 SEC W 1341.1 TO NE COR OF AFOREMENTIONED GOVT LOT 9 OF SD SEC & POB TH TH N 89 DEG 06 MIN 37 SEC W 376.1 FT TH S 00 DEG 10 MIN 26 SEC W 299.02 FT TH N 89 DEG 53 MIN 16 SEC W 539.78 FT TH S 05 DEG 05 MIN 08 SEC W 150.89 FT TH S 15 DEG 29 MIN 06 SEC E 163.11 FT TH S 03 DEG 20 MIN 27 SEC E 31.51 FT TH S 37 DEG 39 MIN 18 SEC W 109.91 FT TH S 67 DEG 29 MIN 17 SEC W 107.37 FT TH N 66 DEG 39 MIN W 103.07 FT TH N 81 DEG 43 MIN 07 SEC W 44.1 FT TH N 49 DEG 48 MIN 14 SEC W 146.74 FT TH S 81 DEG 36 MIN 14 SEC W 59.28 FT TH N 52 DEG 46 MIN 47 SEC W 84.71 FT TH N 64 DEG 58 MIN 48 SEC W 140.23 FT TH S 37 DEG 12 MIN 16 SEC W 100.83 FT TO NLY MAR OF CM ST P & P RR TH S 67 DEG 36 MIN 17 SEC E 511.82 FT TO A C TO L WHOSE RADIUS PT BEARS N 22 DEG 23 MIN 43 SEC E WITH A RAD OF 5684.65 FT TH ALG SD CURVE THRU A C/A OF 07 DEG 01 MIN 29 SEC AN ARC DIST OF 696.96 FT TH N 19 DEG 08 MIN 42 SEC E 318.05 FT TH S 89 DEG 59 MIN 45 SEC E 103.95 FT TH N 00 DEG 00 MIN 15 SEC E 275 FT TH S 89 DEG 59 MIN 45 SEC E 275 FT TO E LI OF SEC TH N 00 DEG 00 MIN 15 SEC E 440.68 FT TO POB CURRENT USE RCW 84.34 AS AMENDED TIMBERLAND 9.38 ACS 4.46 EXCL 1988 AFN 8901060309 EASE OF REC OUT OF 04-20-22-1-700, 1-701 & 1-050 SEG 2018-0257 JP/SD 11/09/17 JP/SD

Staff Report to Joint Determining Authority of Pierce County and the City of Edgewood
 May 17, 2018
 OS15-17, N.C. Talas LLC
 Page 2

0420221704; PARCEL C OF BLA 2015-11-13-5001 A POR OF GOVT LOT 9 DESC AS FOLL COM AT NE COR OF SEC TH S 00 DEG 00 MIN 15 SEC W 1781.78 FT TO POB TH N 89 DEG 06 MIN 37 SEC W 275 FT TH S 00 DEG 00 MIN 15 SEC W 275 FT TH S 89 DEG 59 MIN 45 SEC E 275 FT TO E LI OF SEC TH N 00 DEG 00 MIN 15 SEC E 275 FT TO POB CURRENT USE RCW 84.34 AS AMENDED TIMBERLAND 1.41 ACS AND .33 ACS EXCLUDED 1988 AFN 8901060309 EASE OF REC OUT OF 04-20-22-1-700 SEG 2018-0257 JP/SD 11/09/17 JP/SD

0420221705; PARCEL D OF BLA 2015-11-13-5001 A POR OF WILLIS BOATMAN DLC & A POR OF GOVT LOT 9 DESC AS FOLL COM AT NE COR OF SEC TH S 00 DEG 00 MIN 15 SEC W 2056.78 FT TO POB TH N 89 DEG 06 MIN 37 SEC W 378.95 FT TH TH S 19 DEG 08 MIN 42 SEC W 318.05 TO PT ON NLY LI OF CM ST P & P RR SD PT ALSO BEING ON A NON TANG CURVE WHOSE RAD PT BEARS N 15 DEG 22 MIN 14 SEC E RAD OF 5684.65 FT TH SELY ALG SD CURVE THRU A C/A OF 02 DEG 57 MIN 55 SEC AN ARC DIST OF 294.21 FT TH N 00 DEG 00 MIN 15 SEC E 33.87 FT TH S 89 DEG 20 MIN 17 SEC E 49.5 FT TH N 00 DEG 00 MIN 15 SEC E 33 FT TO N LI OF WOOLERY DLC TH S 89 DEG 20 MIN 17 SEC E 148.17 FT TO E LI OF SEC TH N 00 DEG 00 MIN 15 SEC E 306.46 FT TO POB CURRENT USE RCW 84.34 AS AMENDED TIMBERLAND 1.77 ACS 1.5 EXCL 1988 AFN 8901060309 EASE OF REC OUT OF 04-20-22-1-700, 1-701 & 1-050 SEG 2018-0257 JP/SD 11/09/17 JP/SD

DATE OF SITE VISIT: May 11, 2018

PHYSICAL CHARACTERISTICS OF PROPERTY: This site is at the base of the north hill above the Puyallup Valley and contains numerous resources including steep slopes, the predominant physical characteristic. A flat area is found at the southerly portion of the larger parcel abutting the railroad right of way. The site is wooded with mature evergreens and hardwoods. There are some dilapidated structures located on the property within those flat areas. The applicant states that the buildings will all be removed. These structures are all contained within the excluded areas indicated within this application.

GENERAL CHARACTERISTICS OF SURROUNDING AREA: North: Wooded/Residential; South: Union Pacific RR ROW/Commercial/Residential/Pasture; East: Wooded/Residential; West: Residential/Wooded.

PUBLIC BENEFIT RATING SYSTEM PROGRAM ELIGIBILITY - Please see Pierce County Code 2.114 for specific requirements.

A review of the submitted application identifies five High Priority Resources: Agricultural Land, Fish & Wildlife Habitat Conservation Areas, Streams, Wetlands, and Wooded Areas. One Medium Priority Resource, Potential Flood Hazards and one Low Priority Resource has also been identified; Potential Volcanic Hazards. A maximum of 15 resource points is allowed for any one application. A review of these resources according to the eligibility criteria follow here.

Eligible Resource Categories:

1. High Priority Resources

- a. Agricultural Lands*** – The United States Department of Agriculture, Soil Conservation Service's 1979 Soil Survey of Pierce County Area, Washington identifies one prime agricultural soil present on 20% of this site: Puyallup fine sandy loam. Therefore, the property qualifies for five high priority resource points.
- c. Fish and Wildlife Habitat Conservation Areas*** - This site contains one Priority Habitat/Species polygon identified by Washington State Fish & Wildlife as the Carbon River Open Space Biodiversity Areas and Corridors related to the steep slopes along the Valley Terrace. Therefore, the site qualifies for five high priority resource points.

- f. Streams* – The site contains portions of a regulated waterway which is a tributary to Wapato Creek. Therefore, the site qualifies for five high priority resource points.

Bonus Category:

3. *Designated Urban Lands.*

- b.* Properties located within the municipal boundaries of an incorporated city or town.

This property is within the municipal boundaries of the City of Edgewood. Therefore, the site qualifies for bonus points for being within a designated urban area.

4. *Provides Linkage of Open Space Parcels.*

- a.* The subject property abuts another parcel which currently provides a high or medium priority resource and when both are left undeveloped create a corridor.
- b.* The subject parcel must abut a parcel of land which is already in the current use assessment program or is subject to a conservation easement or restrictive covenant as such is defined above.

This property abuts a parcel to the north (0420221077) that is presently enrolled in the Current Use Open Space Program. This property contains the required high priority resource to qualify for the continuation of an open space corridor. Therefore, the site qualifies for bonus points.

ATTRIBUTES SUPPORTING CURRENT USE ASSESSMENT: The site is eligible for the maximum allowable Priority Resource points: 15, and is eligible for 10 Bonus points for a total of 25 points on the 19.12-acre site. A total of 6.18 acres in three separate areas are excluded from open space consideration.

CW:tf

N:\Long Range Planning\CUA\Staff Reports\CUOS2017\OS15-17SR.docx

PIERCE COUNTY
APPLICATION FOR CLASSIFICATION OR RECLASSIFICATION
AS OPEN SPACE FOR CURRENT USE ASSESSMENT
RCW 84.34

OPEN SPACE LAND MEANS:

- (a) Any land area so designated by a comprehensive land use plan adopted by a city or county authority, or
 (b) Any land area, in which the preservation in its present use would:
 (i) Conserve and enhance natural or scenic resources,
 (ii) Protect streams or water supply,
 (iii) Promote conservation of soils, wetlands, beaches or tidal marshes,
 (iv) Enhance the value to the public of abutting or neighboring parks, forests, wildlife preserves, nature reservations or sanctuaries or other open space,
 (v) Enhance recreation opportunities,
 (vi) Preserve historic sites,
 (vii) Preserve visual quality along highway, road, and street corridor or scenic vistas, or
 (viii) Retain in its natural state tracts of land not less than one acre situated in an urban area and open to public use on such conditions as may be reasonably required by the granting authority.
 (c) Or, any land meeting the definition of "farm and agricultural conservation land".

Fees: (a) The non-refundable application fee must be submitted with the application \$1200.00 in unincorporated or \$1450.00 within city limits. Cities may charge an additional fee. Contact your city to inquire.
 (b) Fee for advertising the final public hearing will be billed and payable prior to recording the final contract. The cost varies depending on length of legal. (Approx. \$50.00)
 (c) If public access is requested or mandatory, signage requirements are available at the Pierce County Planning and Land Services office.

Name of Applicant: N.C. TALAS LLC
 Mail Address: 4037 WEST MERCER WAY
MERCER ISLAND WA 98040
 E-Mail Address: CHRIS@SEATTLELOANCOMPANY.COM

A site visit must be scheduled for approval.
 List several phone #s where you can be reached 253 858-4440

1. Interest in property: Fee owner ☒ Contract Purchaser _____ Other NO GATE 
 2. Property location: 11623 VALLEY AVE EAST EDGEWOOD WA
 3. Is property within city limits? Yes ☒ No _____ If yes, which city? EDGEWOOD *
 4. Assessor's parcel #(s): 0420221098 - 701 - 700 AND 050
 5. (a) Total acreage of parcel(s): 26.02 (b) Total acreage of unqualified or excluded areas: _____
 6. Legal description of land to be classified Open Space: (may attach copy) _____
 7. Legal or detailed description of area excluded (if any) from Open Space classification in 5(b) (may attach copy) _____
DARK LINED AREA ON MAP ATTACHED
 8. Describe the present improvements on this property: (buildings, etc.) OLD BLDGS TO BE REMOVED + ARE IN EXCLUDED AREA
 9. Is this land subject to a lease or agreement, which permits any other use than it's present use? Yes _____ No ☒
 If yes, attach copy of the lease agreement.
 10. Include a Map or Drawing of the Parcel(s), including location of excluded areas and all structures, etc.
 11. Is this a reclassification (transfer) under 84.34.070 or 84.33? If yes, complete form 64.0060 or 64.0038.

STATEMENT OF ADDITIONAL TAX, INTEREST AND PENALTY DUE UPON REMOVAL OF CLASSIFICATION

1. Upon removal of classification, an additional tax shall be imposed which shall be due and payable to the county Treasurer 30 days after removal or upon sale or transfer, unless the new owner has signed the Notice of Continuance. The additional tax shall be the sum of the following:
 - (a) The difference between the property tax paid as "Open Space" and the amount of property tax otherwise due and payable for the last seven years had the land not been so classified; plus
 - (b) Interest upon the amounts of the difference (a), paid at the same statutory rate charged on delinquent property taxes, plus
 - (c) A penalty of 20% shall be applied to the amount determined in (a) & (b) above if the classified land is applied to some other use except through compliance with the property owner's request for withdrawal process, or except as a result of those conditions listed in (2) below
2. The additional tax, interest, and penalty specified in (1) above shall not be imposed if removal resulted solely from:
 - a) Transfer to a governmental entity in exchange for other land located within the State of Washington.
 - b) A taking through the exercise of the power of eminent domain, or sale or transfer to an entity having the power of eminent domain in anticipation of the exercise of such power.
 - c) A natural disaster such as a flood, windstorm, earthquake, or other such calamity rather than by virtue of the act of the landowner changing the use of such property.
 - d) Official action by an agency of the State of Washington or by the county or city where the land is located disallows the present use of such land.
 - e) Transfer of land to a church when such land would qualify for property tax exemption pursuant to RCW 84.34.020.
 - f) Acquisition of property interest by State agencies or agencies or organizations qualified under RCW 84.34.210 and 64.04.130 (See RCW 84.34.108(6)(f)).
 - g) Removal of land classified as farm & agricultural land under RCW 84.34.020(2) (f) (farm homesite).
 - h) Removal of land from classification after enactment of a statutory exemption that qualifies the land for exemption and receipt of notice from the owner to remove the land from classification.
 - i) The creation, sale, or transfer of forestry riparian easements under RCW 76.13.120
 - j) The creation, sale, or transfer of a fee interest or a conservation easement for the riparian open space program under RCW 76.09.040.
 - k) The sale or transfer of land within two years after the death of the owner of at least a fifty percent interest in the land if the land has been assessed and valued as designated forest land under chapter 84.33 RCW, or classified under this chapter 84.34 RCW continuously since 1993. The date of death shown on the death certificate is the date used.
 - l) (i) The discovery that the land was classified under this chapter in error through no fault of the owner. For purposes of this subsection (6)(1), "fault" means a knowingly false or misleading statement, or other act or omission not in good faith, that contributed to the approval of classification under this chapter or the failure of the assessor to remove the land from classification under this chapter.
 (ii) For purposes of this subsection (6), the discovery that land was classified under this chapter in error through no fault of the owner is not the sole reason for removal of classification pursuant to subsection (1) of this section if an independent basis for removal exists. Examples of an independent basis for removal include the owner changing the use of the land or failing to meet any applicable income criteria required for classification under this chapter.

AFFIRMATION

As owner(s) of the land described in this application, I hereby indicate by my signature that I am aware of the potential tax liability involved when the land ceases to be classified as Open Space under provision of CH 84.34 RCW, and that the Assessor-Treasurer's office may require pertinent data be periodically submitted as to the continued use of the land. I also declare under the penalties for false swearing that this application and any accompanying documents have been examined by me and to the best of my knowledge it is a true, correct, and complete statement.

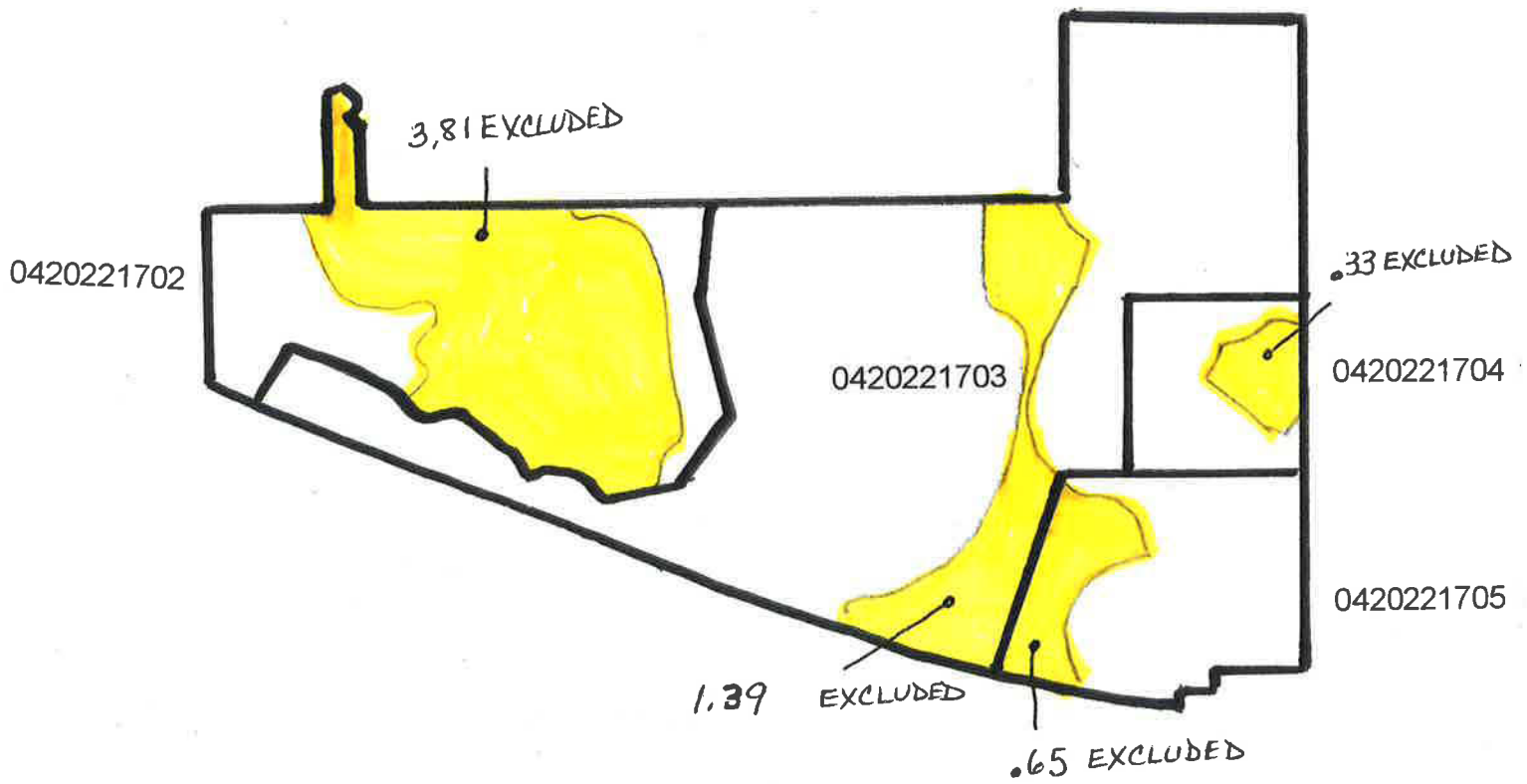
The agreement to tax according to use of the property is not a contract and can be annulled or canceled at any time by the Legislature (RCW 84.34.070)

Signatures of all Owner(s) or Contract Purchaser(s):

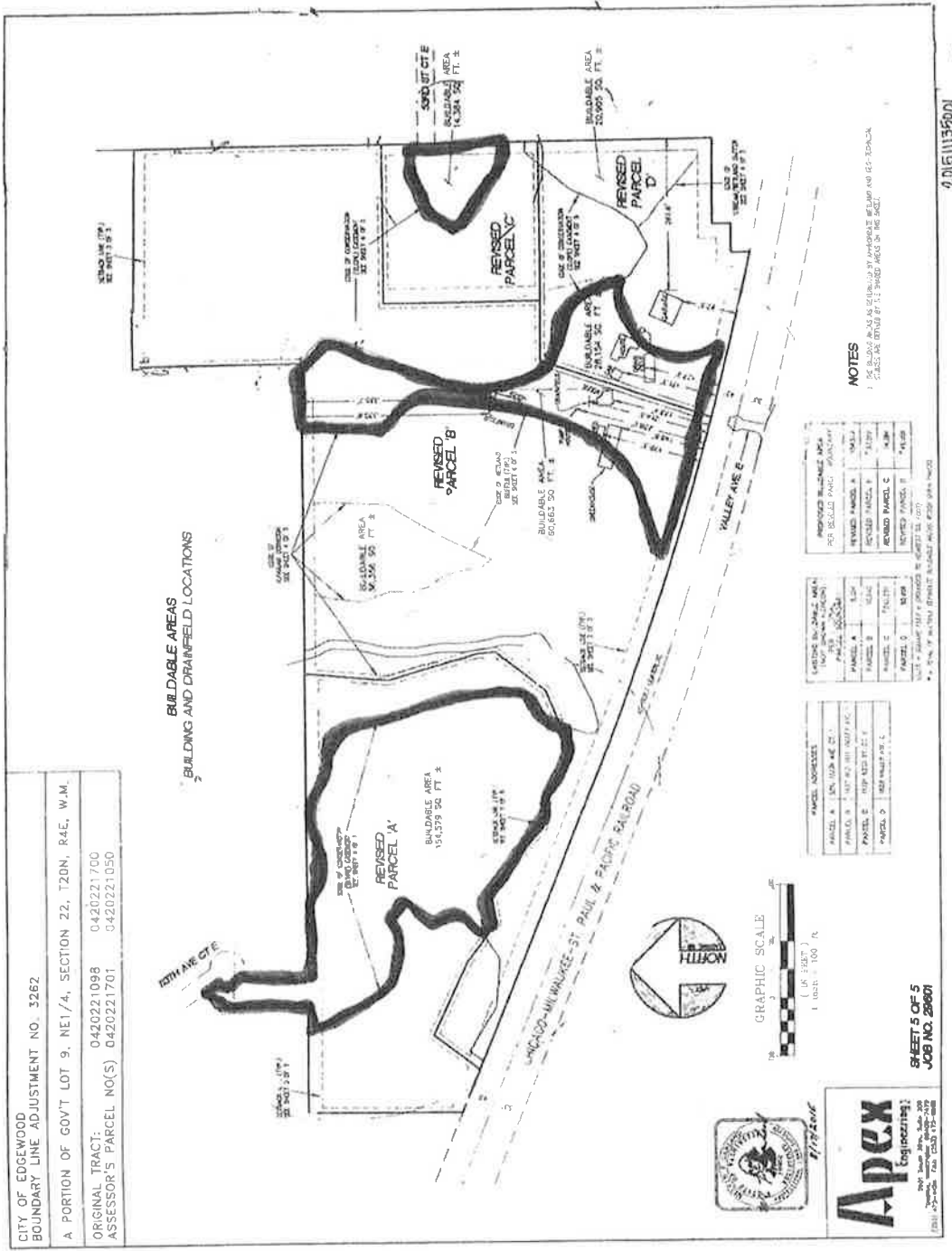


Date: 11/5/2017

Submit application and fee to: Pierce County Planning and Land Services Development Center
2401 S 35th St Ste 2
Tacoma WA 98409



EXCLUDED AREAS



Change of Designation (Chapter 84.33 RCW)

File with County Assessor

Applicant's Name: N.C. TALAS LLC County: PIERCE
 Address: 4037 WEST MERLER WAY Tax Code Area: 770
 City, State, Zip: MERCER ISLAND WA 98040
 Phone Number: 253 858-4440

Land Subject To This Application: (legal description)

Parcel No. or Account No.: 0420221098 AND 701,700,050

Change in Designation

The land is currently designated as forest land under the provisions of Chapter 84.33 RCW and meets the definition of one of the following and I/we request reclassification as: (Check appropriate box.)

- ☒ Open space land as provided under RCW 84.34.020(1). (Attach completed form REV 64 0021)
- ☐ Farm and agricultural land as provided under RCW 84.34.020(2). (Attach completed form REV 64 0024 or 64 0108)
- ☐ Timber land as provided under RCW 84.34.020(3), unless county has merged their timber land classification into their designated forest land program. (Attach completed form REV 64 0109 or 64 0111 and a timber management plan)

Affirmation

As owner(s) or contract purchaser(s) of the land described in this application, I/we hereby indicate by my/our signature that I/we am aware of the potential tax liability involved when the land ceases to be classified under the provisions of Chapter 84.34 RCW.

If this land is removed from classification before ten years have elapsed, compensating tax may also be due for part of the period it was designated as forest land. See reference to RCW 84.33.145 on page two.

Signature(s) of All Owner(s) or Contract Purchaser(s)

Date

Attachments:

- ☒ REV 64 0021 ☐ REV 64 0108 ☐ REV 64 0111
☐ REV 64 0024 ☐ REV 64 0109
☐ Timber Management Plan

Assessors Use Only

If the parcel(s) subject to this transfer document is considered contiguous, as defined in RCW 84.33.035(4), with other parcels having different ownerships, verify all remaining designated parcels with different ownerships are still:

- ☐ Adjoining
☐ Being managed as part of a single operation
☐ Meeting the definition of "family" as defined in RCW 84.34.020(6)(b)(ii) with the owner of an adjoining parcel

REV 64 0033e (w) (6/3/14)

See next page

RCW 84.33.145

- (1) If no later than thirty days after removal of designation the owner applies for classification under RCW 84.34.020(1), (2) or (3), then the designated forest land shall not be considered removed from designation for purposes of compensating tax under RCW 84.33.140 until the application for current use classification under chapter 84.34 RCW is denied or the property is removed from classification under RCW 84.34.108. Upon removal from classification under RCW 84.34.108, the amount of compensating tax due under chapter 84.33 RCW shall be equal to:
 - (a) The difference, if any, between the amount of the assessed valuation on such land as forest land and the amount of the new assessed valuation of such land when removed from classification under RCW 84.34.108 multiplied by the dollar rate of the last levy extended against such land, multiplied by;
 - (b) A number equal to:
 - (i) The number of years the land was designated under this chapter, if the total number of years the land was designated under chapter 84.33 RCW and classified under chapter 84.34 RCW is less than ten; or
 - (ii) Ten minus the number of years the land was classified under chapter 84.34 RCW, if the total number of years the land was designated under chapter 84.33 RCW and classified under chapter 84.34 RCW is at least ten.
- (2) Nothing in this section authorizes the continued designation under this chapter or defers or reduces the compensating tax imposed upon forest land not transferred to classification under subsection (1) of this section which does not meet the necessary definitions of forest land under RCW 84.33.035. Nothing in this section affects the additional tax imposed under RCW 84.34.108.
- (3) In a county with a population of more than six hundred thousand inhabitants or in a county with a population of at least two hundred forty-five thousand inhabitants that borders Puget Sound as defined in RCW 90.71.010, no amount of compensating tax is due under this section if the removal from classification under RCW 84.34.108 results from a transfer of property described in RCW 84.34.108(6).

To ask about the availability of this publication in an alternate format for the visually impaired, please call 1-800-647-7706. Teletype (TTY) users may use the Washington Relay Service by calling 711. For tax assistance, call (360) 534-1400.

REV 64 0036e (w) (6/3/14)



PIERCE COUNTY

Property Account Summary

As Of 11/8/2017 Status: Active

Account No.: 0420221098 Alternate Property Number: 0420221098

Account Type: Real Property

TCA: 770

Situs Address: XXX 113TH AVCT E
PIERCE COUNTY WA 98372

Legal: Section 22 Township 20 Range 04 Quarter 13 : COM AT A PT N 88 DEG 57 MIN 15 SEC E 577.91 FT & S 00 DEG 35 MIN E 181.5 FT FROM NW COR OF WILLIS BOATMAN DLC WHICH IS SW COR OF THAT CERTAIN PROP CYD TO ROBERT A MONARCH 2274760 TH W 40 FT TO POB TH N TO SLY LI OF CULDSAC CYD TO P C 2362428 CONT WLY ALG SD CULDSAC 59.98 FT TH S 55 DEG W 32.14 FT TH S 00 DEG 35 MIN E 164.46 FT TH E TO POB EXC THAT POR CYD TO P CO FOR RD OUT OF 1-090 SEG J-2256GG

Parties:

Role	Name & Address
Owner	N C TALAS LLC 4037 W MERCER WAY MERCER ISLAND WA 98040-3319
Taxpayer	N C TALAS LLC 4037 W MERCER WAY MERCER ISLAND WA 98040-3319

Property Values:

Value Name	2017	2016	2015	2014	2013
Taxable Value Regular	\$66,000	\$65,500	\$59,900	\$52,800	\$54,800
Assessed Value	\$66,000	\$65,500	\$59,900	\$52,800	\$54,800
Market Land	\$66,000	\$65,500	\$59,900	\$52,800	\$54,800
Market Improvement	\$0	\$0	\$0	\$0	\$0

Property Characteristics:

Tax Year	Characteristic	Value
2017	Notice of Value Mailed Date	06/23/2016
	Use Code	9100-VACANT LAND UNDEVELOPED
	Unit of Measure	Square Feet
	Total Size	11325

Exemptions:

(End of Report)



PIERCE COUNTY

Property Account Summary

As Of 11/8/2017 Status: Active

Account No.: 0420221701 Alternate Property Number: 0420221701

Account Type: Real Property

TCA: 770

Situs Address: 11607 VALLEY AV E
PIERCE COUNTY WA

Legal: Section 22 Township 20 Range 04 Quarter 14 : NOT A LEGAL SUBD FOR TAX PURPOSES ONLY NOT TO BE SOLD W/O 1-050 & 1-700 COM AT NE COR OF BOATMAN DLC TH S ALG E LI OF SD DLC 330 FT TO POB TH W 110 FT TH S 17 DEG 30 MIN W 360 FT TH N 70 DEG W 125 FT TH S 17 DEG W TO N LI OF CMSTP RR R/W TH TH SELY ALG N LI OF SD R/W 600 FT TH N 45 FT TH E 32.50 FT TH N 289 FT TH W 190 FT TH N PAR/W SD E LI OF DLC 340 TH W 20 FT TO POB EXC FOLL COM AT NW COR WOOLERY DLC TH N 145 FT TO POB TH W 50 FT TH N 270 FT TH E 50 FT TO E LI OF BOATMAN DLC TH CONT E 20 FT TH S PAR/W E LI OF SD DLC 170 FT TH E 80 FT TH S 100 FT TH W 100 FT TO POB OUT OF 1-006 & 1-014 SEG Z-0543 CH (DC0184HW7-21-89)

Parties:

Role	Name & Address
Owner	N C TALAS LLC 4037 W MERCER WAY MERCER ISLAND WA 98040-3319
Taxpayer	N C TALAS LLC 4037 W MERCER WAY MERCER ISLAND WA 98040-3319

Property Values:

Value Name	2017	2016	2015	2014	2013
Taxable Value Regular	\$193,600	\$189,300	\$194,100	\$171,200	\$343,100
Assessed Value	\$193,600	\$189,300	\$194,100	\$171,200	\$343,100
Market Land	\$138,700	\$137,700	\$145,300	\$128,100	\$133,000
Market Improvement	\$54,900	\$51,600	\$48,800	\$43,100	\$210,100
Current Use Land					
Current Use Improvement					

Property Characteristics:

Tax Year	Characteristic	Value
2017	Notice of Value Mailed Date	06/23/2016
	Use Code	1101-SINGLE FAMILY DWELLING
	Unit of Measure	Acre(s)
	Total Size	5.04

Exemptions:

(End of Report)



PIERCE COUNTY

Property Account Summary

As Of 11/8/2017 Status: Active

Account No.: 0420221700 Alternate Property Number: 0420221700
 Account Type: Real Property
 TCA: 770
 Situs Address: 11607 VALLEY AV E
 PIERCE COUNTY WA

Legal: Section 22 Township 20 Range 04 Quarter 14 : NOT A LEGAL SUBD FOR TAX PURPOSES ONLY NOT TO BE SOLD
 W/O 1-050/1-701 BEG AT INTER OF N LI OF I WOOLERY DLC & E LI OF SEC TH N 1024.60 FT TO NE COR OF
 SE OF NE TH W 378.60 FT TH S ALG EXT E LI OF BOATMAN DLC 289.62 FT TH W 1307.35 FT TH S 279.80 FT
 TO NLY LI OF CMSTP RR R/W TH SELY ALG SD NLY R/W LI 1576.32 FT TH N 45 FT TH E 49.50 FT TH N 33 FT TO
 N LI OF WOOLERY DLC TH E 148.20 FT TO POB EXC FOLL COM AT NE COR OF BOATMAN DLC TH S ALG E LI
 OF SD DLC 330 FT TO POB TH W 110 FT TH S 17 DEG 30 MIN W 360 FT TH N 70 DEG W 125 FT TH S 17 DEG W
 TO N LI OF SD RR R/W TH SELY ALG N LI OF SD R/W 600 FT TH N 45 FT TH E 32.50 FT TH N 289 FT TH W 190
 FT PAR/W SD N LI OF WOOLERY DLC TH N 340 FT TH W 20 FT TO POB CURRENT USE RCW 84.34 AS
 AMENDED TIMBERLAND 20.10 ACS 1988 AFN 8901060309 OUT OF 1-006 & 1-014 SEG Z-0543 CH HW RJ

Parties:

Role	Name & Address
Owner	N C TALAS LLC 4037 W MERCER WAY MERCER ISLAND WA 98040-3319
Taxpayer	N C TALAS LLC 4037 W MERCER WAY MERCER ISLAND WA 98040-3319

Property Values:

Value Name	2017	2016	2015	2014	2013
Taxable Value Regular	\$3,457	\$3,296	\$3,216	\$3,236	\$3,296
Assessed Value	\$3,457	\$3,296	\$3,216	\$3,236	\$3,296
Market Land	\$188,800	\$187,400	\$197,700	\$174,300	\$181,000
Market Improvement	\$0	\$0	\$0	\$0	\$0
Current Use Land	\$3,457	\$3,296	\$3,216	\$3,236	\$3,296
Current Use Improvement	\$0	\$0	\$0	\$0	\$0

Property Characteristics:

Tax Year	Characteristic	Value
2017	Use Code	8800-DESIG FOREST LND RCW 84.33
	Unit of Measure	Acre(s)
	Total Size	20.1
	CU Acres	20.1

Exemptions:

(End of Report)


PIERCE COUNTY
Property Account Summary

As Of 11/8/2017 Status: Active

Account No.: 0420221050 **Alternate Property Number:** 0420221050

Account Type: Real Property

TCA: 770

Situs Address: 11623 VALLEY AV E
PIERCE COUNTY WA

Legal: Section 22 Township 20 Range 04 Quarter 14 : NOT A LEGAL SUBD FOR TAX PURPOSES ONLY NOT TO BE SOLD
W/O 1-700 & 1-701 COM AT NW COR OF WOOLERY DLC TH N 145 FT TO POB TH W 50 FT TH N 270 FT TH E 50
FT TO E LI OF BOATMAN DLC TH CONT E 20 FT TH S 170 FT TH E 80 FT TH S 100 FT TH W 100 FT TO POB OUT
OF 1-014 & 1-006 SEG Z-0543 CH HW RJ (DC0183HW7-21-89)

Parties:

Role	Name & Address
Owner	N C TALAS LLC 4037 W MERCER WAY MERCER ISLAND WA 98040-3319
Taxpayer	N C TALAS LLC 4037 W MERCER WAY MERCER ISLAND WA 98040-3319

Property Values:

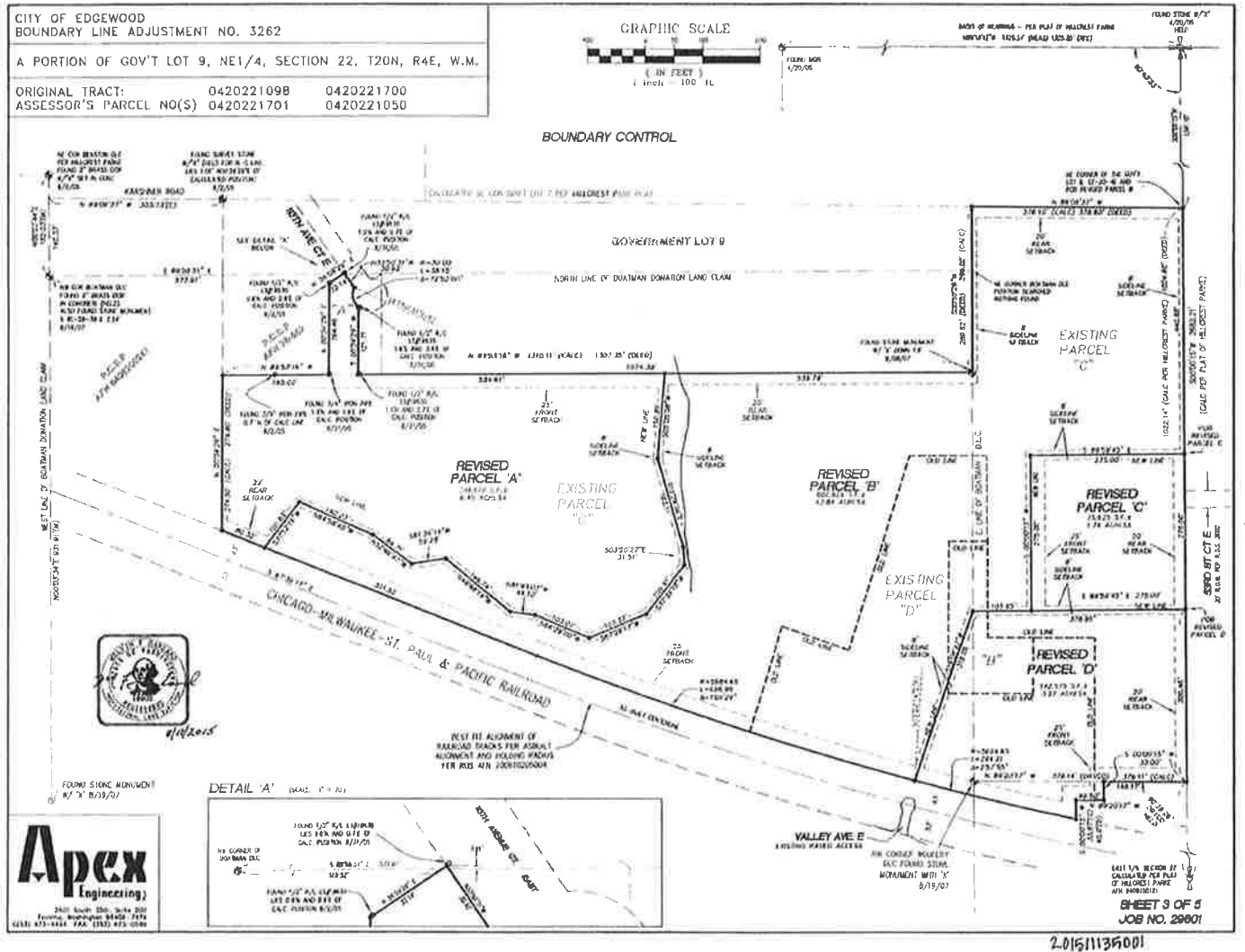
Value Name	2017	2016	2015	2014	2013
Taxable Value Regular	\$5,700	\$5,600	\$19,000	\$16,900	\$17,500
Assessed Value	\$5,700	\$5,600	\$19,000	\$16,900	\$17,500
Market Land	\$5,700	\$5,600	\$5,900	\$5,200	\$5,400
Market Improvement	\$0	\$0	\$13,100	\$11,700	\$12,100

Property Characteristics:

Tax Year	Characteristic	Value
2017	Notice of Value Mailed Date	06/23/2016
	Use Code	9100-VACANT LAND UNDEVELOPED
	Unit of Measure	Square Feet
	Total Size	27007

Exemptions:

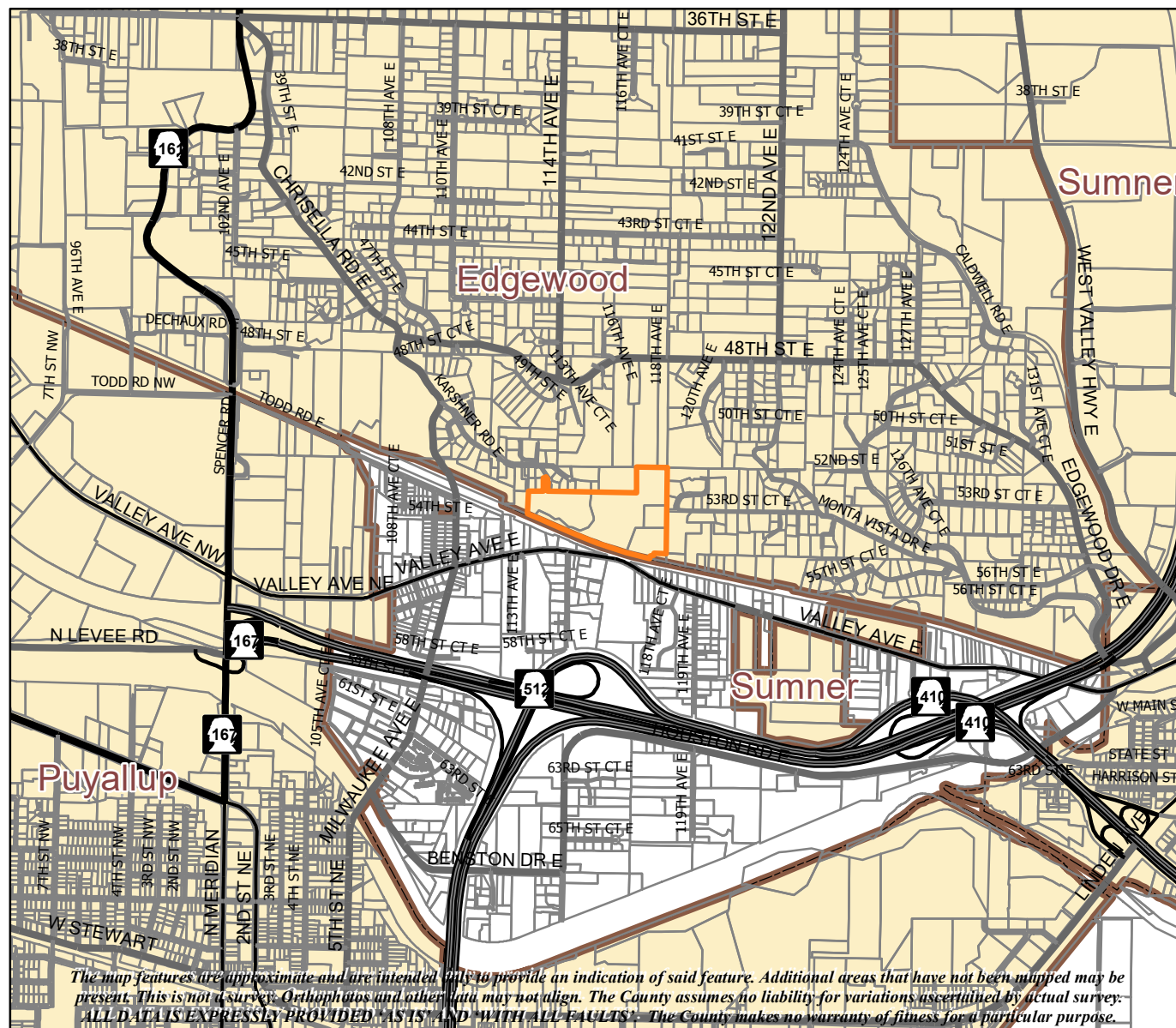
(End of Report)



BLA

2015-11-13-5001

OS15 -17 N.C. Talas LLC (JDA)

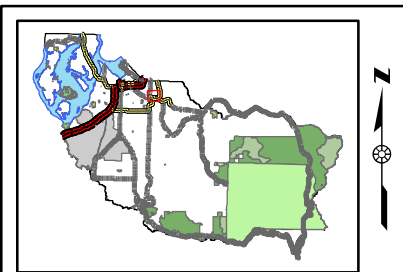


Map Legend

 Subject Parcels

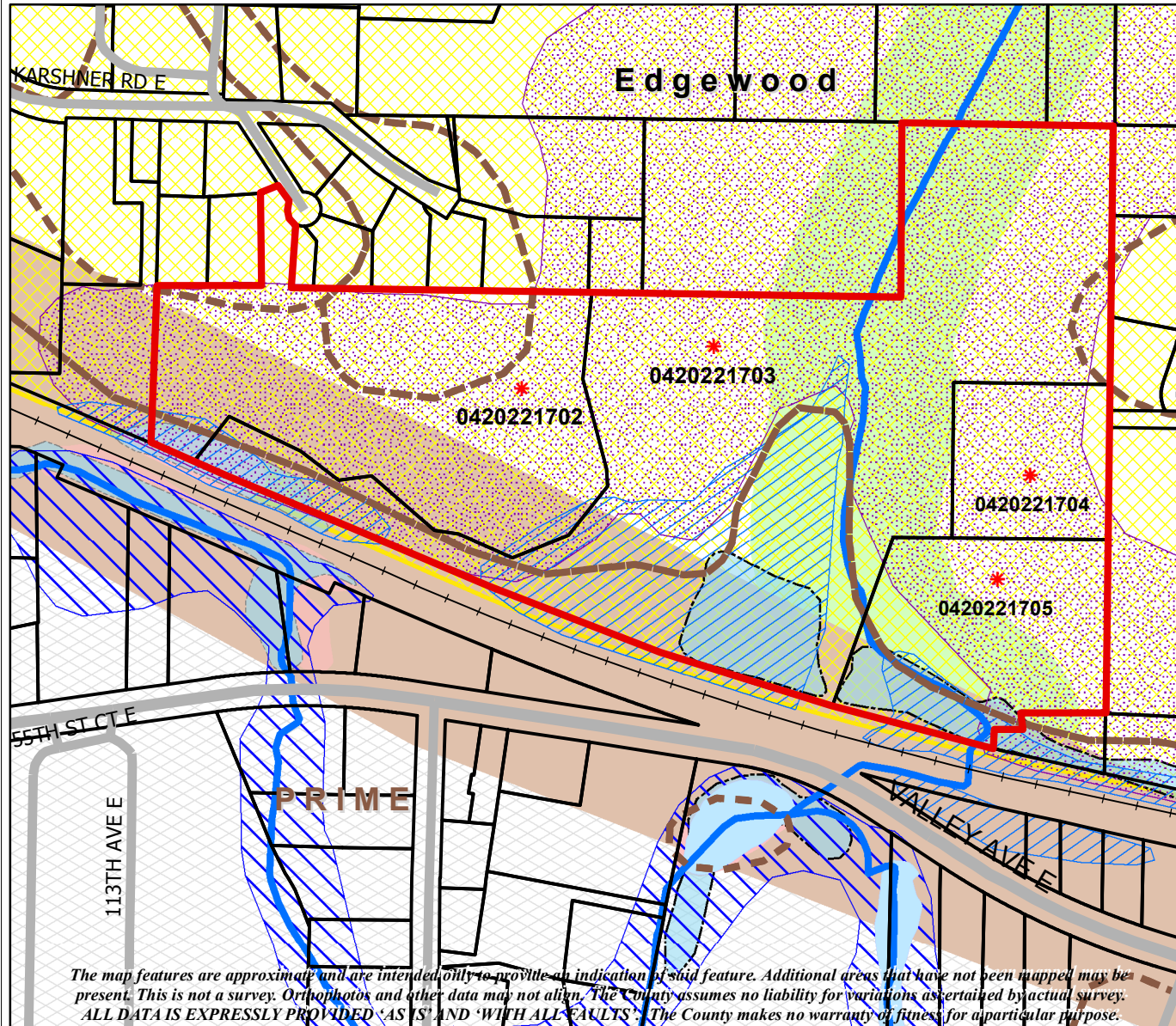
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Scale 1:24,000



May 7, 2018

OS15-17 N.C. Talas LLC (JDA)

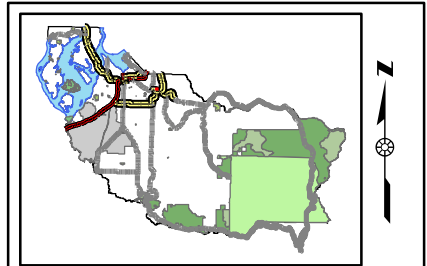


Map Legend

- * Subject Parcels
- Tax Parcels**
 - Base Parcel
 - Condominium
 - Other
 - Soils
- Flood Hazard Areas (FEMA)**
 - 100 year(A Zone)
 - 500 year(X500 Zone)
 - Priority Habitat/Species
- Wetlands**
 - Yes or Not Verified
 - No
- Cities in Pierce County**
 - Cities in Pierce County
- Volcanic Hazards**
 - Case 1 – 500-1000 yr frequency
 - Case 2 – Average 100 yr frequency
 - Case 3 – 1-100 yr frequency
 - Possible F+W Habitat Cons Areas - All Municipal

Map Document:
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Scale 1:3,500

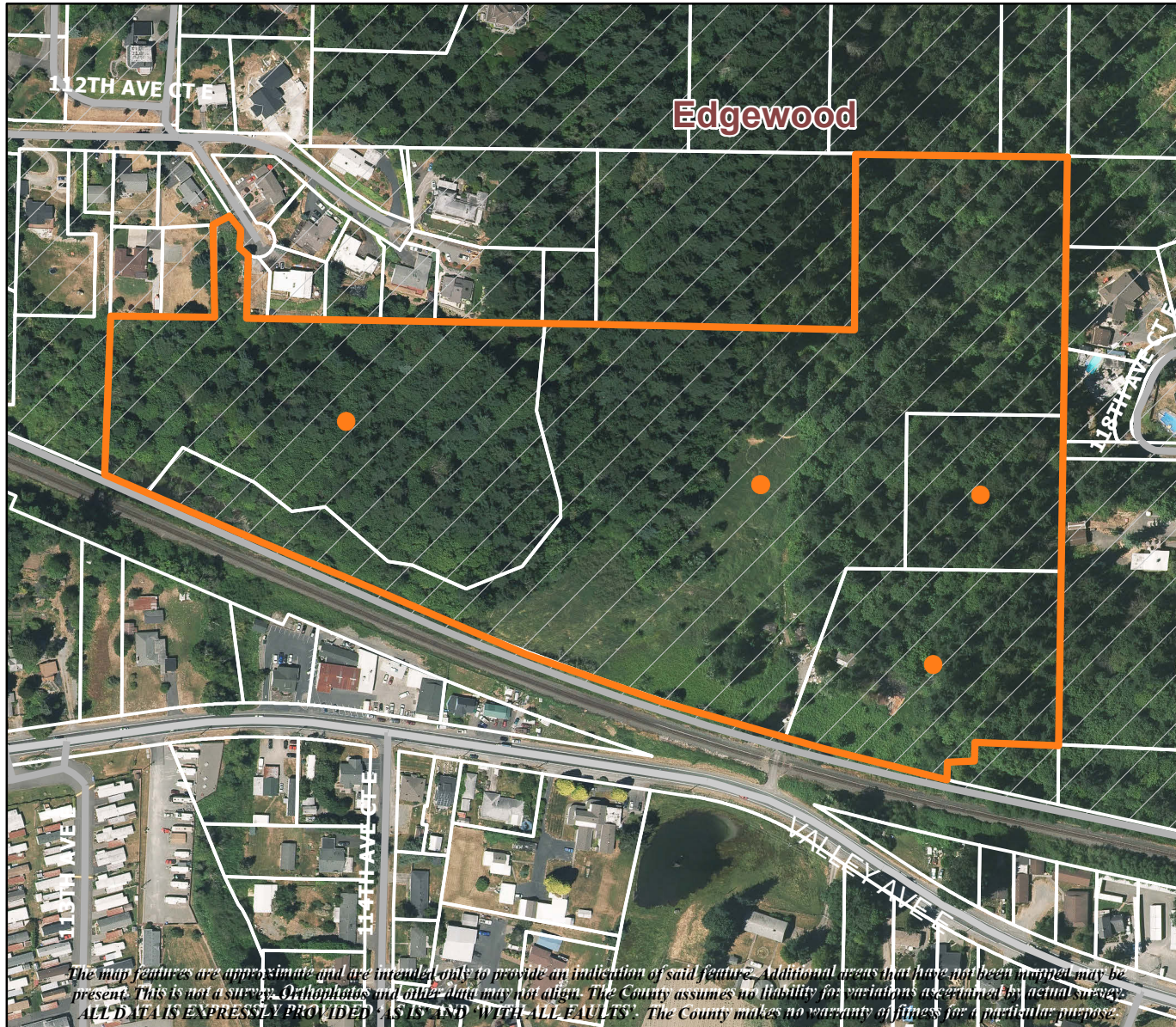


 **Pierce County**
Planning and Land Services

May 8, 2018

The map features are approximate and are intended only to provide an indication of said feature. Additional areas that have not been mapped may be present. This is not a survey. Orthophotos and other data may not align. The County assumes no liability for variations ascertained by actual survey. ALL DATA IS EXPRESSLY PROVIDED 'AS IS' AND 'WITH ALL FAULTS'. The County makes no warranty of fitness for a particular purpose.

OS15-17 N.C. Talas LLC (JDA)



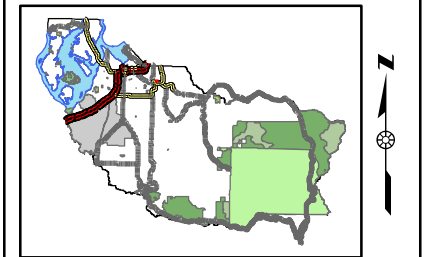
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 Subject Parcels

Orthophoto Date: Summer 2017

Map Document:
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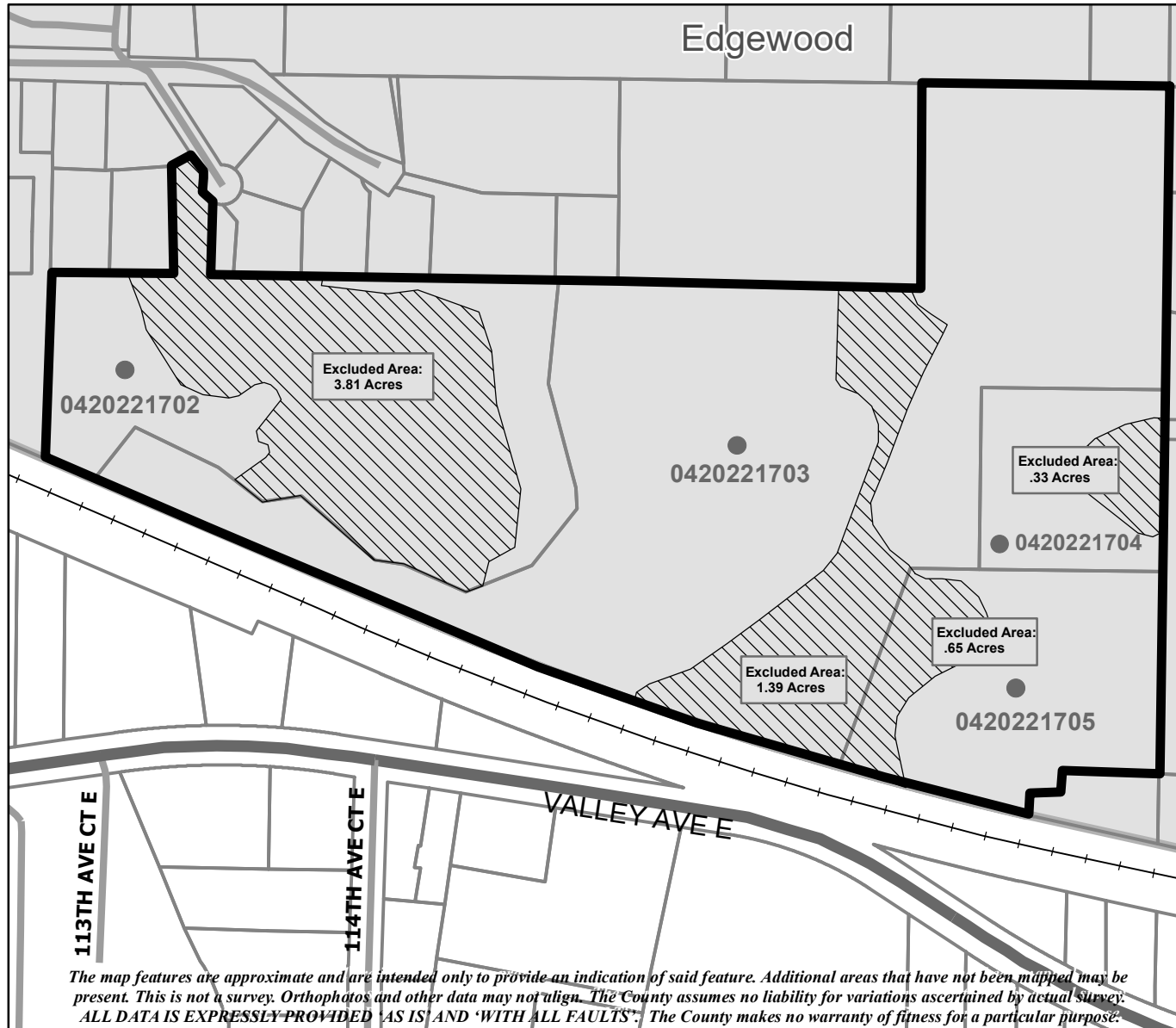
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Pierce County
Planning and Land Services

May 7, 2018

OS15-17 N.C. Talas LLC (JDA)

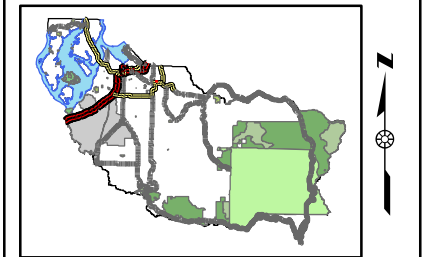


Map Legend

Subject Parcels

Map Document:
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Scale 1:3,000



Pierce County
Planning and Land Services

June 27, 2018

The map features are approximate and are intended only to provide an indication of said feature. Additional areas that have not been mapped may be present. This is not a survey. Orthophotos and other data may not align. The County assumes no liability for variations ascertained by actual survey. ALL DATA IS EXPRESSLY PROVIDED 'AS IS' AND 'WITH ALL FAULTS'. The County makes no warranty of fitness for a particular purpose.



Office of the County Council

930 Tacoma Avenue South, Room 1046
Tacoma, Washington 98402-2176
(253) 798-7777
FAX (253) 798-7509
TDD (253) 798-4018
1-800-992-2456
www.co.pierce.wa.us/council

November 6, 2018

Ms. Rachel Pitzel, City Clerk
City of Edgewood
2224 104th Avenue East
Edgewood, Washington 98372

Dear Ms. Pitzel,

Attached is a copy of adopted Pierce County Ordinance No. 2018-69 relating to an application for classification of land located in your jurisdiction. This letter serves as the official transmittal.

Pierce County has, through adoption of the attached ordinance, fulfilled its half of the statutory process for approving current use applications within an incorporated area.

RCW 84.34.037 provides that

[A]pplications for classification of land in an incorporated area shall be acted upon by: (a) A granting authority composed of three members of the county legislative body and three members of the city legislative body in which the land is located in a meeting where members may be physically absent but participating through telephonic connection; or (b) separate affirmative acts by both the county and city legislative bodies where both bodies affirm the entirety of an application without modification or both bodies affirm an application with identical modifications. (emphasis added)

To finalize the application process, the City's legislative authority must affirm the Pierce County Council's action and forward documents memorializing this affirmation to my attention. Pierce County will then complete administrative processing of the, now approved, application.

We will need to receive your affirmation documents as soon as possible. Because contracts need to be signed by applicants, City affirmations received after December 15 of this year may jeopardize our ability to apply the tax credit to next year's property taxes.



By way of background, the County's process includes the following steps:

1. After the application is received by the County, Planning and Public Works and the Assessor-Treasurer staff will provide a review of the application pursuant to Chapter 2.114 of the Pierce County Code and Chapter 84.34 RCW, and make a recommendation in the form of a staff report, which is sent to the City or Town and the applicant.
2. Staff incorporates their recommendation and staff report into a proposed Council Ordinance and submits the proposal to the County Council.
3. The County Council holds a public hearing and acts on the Ordinance. The applicant and City/Town are notified of the public hearing date.
4. If passed, the adopted Ordinance is forwarded to the City or Town for its review and concurrence (affirmation). A cover letter explaining the process will be included and the applicant will be copied on this transmittal.
5. The City or Town affirms the application by a legislative action of its own.
6. The municipality forwards official documentation of its legislative action to the Clerk of the Pierce County Council.
7. After confirmation that the application affirmed by the City or Town has not been modified, the Council forwards the approvals to the Planning and Land Services Department. Please note that if the City or Town finds that a modification is desired or necessary, they should notify the Clerk of the Council (see County contacts below) and then the County will develop a new Ordinance and begin again at #3.
8. The Department sends a contract to the applicant for signature, obtains the Executive's signature, and records the document with the County Auditor.

Ordinance No. 2018-69 City of Edgewood Transmittal Letter
November 6, 2018
Page 3 of 3

The County contacts for this process include:

- Denise Johnson, Clerk of the Council, County Council Office, 253.798.6065, denise.johnson@piercecountywa.gov
- Chad Williams, Planning and Public Works Department, 253.798.3683, chad.williams@piercecountywa.gov
- Denise Stevens, Assessor-Treasurer Office, 253.798.7137, denise.stevens@piercecountywa.gov
- Jeff Cox, Deputy Legal Counsel, County Council Office, 253.798.7579, jeff.cox@piercecountywa.gov

Regards,


Denise D. Johnson, CMC
Clerk of the Council

Attachment

c: N. C. Talas LLC, Applicant
Chad Williams, Pierce County Planning and Public Works

Sponsored by: Councilmember Pam Roach
Requested by: County Executive/Planning and Public Works

ORDINANCE NO. 2018-69

An Ordinance of the Pierce County Council Affirming an Application for Open Space Classification Under Current Use Assessment on Certain Properties Located Within the Incorporated Boundaries of the City of Edgewood in Pierce County; Directing the Clerk of the Council to Forward This Ordinance to the City of Edgewood for its Affirmation of This Application Consistent with Revised Code of Washington 84.34.037; and Adopting Findings of Fact. (Application No. OS15-17)

Whereas, a certain property owner has filed an application with Pierce County for Open Space Classification in accordance with Chapter 84.34 Revised Code of Washington (RCW), as amended; and

Whereas, RCW 87.34.037 provides that, "... applications for classification of land in an incorporated area shall be acted upon by: (a) A granting authority composed of three members of the county legislative body and three members of the city legislative body in which the land is located in a meeting where members may be physically absent but participating through telephonic connection; or (b) separate affirmative acts by both the county and city legislative bodies where both bodies affirm the entirety of an application without modification or both bodies affirm an application with identical modifications."; and

Whereas, the property in Open Space Application OS15-17 is located inside the boundaries of the City of Edgewood; and

Whereas, the provisions of Chapter 2.114 of the Pierce County Code (PCC) set forth applicable procedures for the review and hearing of Current Use Assessment Applications; and

Whereas, the Pierce County Department of Planning and Public Works provided a copy of the application to the City of Edgewood, as required by PCC 2.114.090 A.2.; and

1 **Whereas**, the requirements of Chapter 2.114 PCC have been met with respect to
2 the subject application; and

3
4 **Whereas**, the Pierce County Departments of Planning and Public Works and
5 Assessor-Treasurer, in cooperation with the City of Edgewood, have reviewed the
6 application and provided a Staff Report concerning the application; and

7
8 **Whereas**, the Staff Report includes a recommendation of approval of 25 points
9 for Parcel Nos. 0420221702, 0420221703, 0420221704, and 0420221705 for
10 Application No. OS15-17, N.C. Talas LLC, for classification of 19.12 acres as Open
11 Space under Current Use Assessment, based on the Open Space Public Benefit Rating
12 System, consistent with Findings of Fact, attached hereto and incorporated as Exhibit A;
13 and

14
15 **Whereas**, the Pierce County Council has followed all applicable procedures and
16 finds that the application set forth herein for Open Space classification, as more fully
17 described in the attached Exhibit A, has been properly reviewed and considered; **Now**
18 **Therefore**,

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20 **BE IT ORDAINED by the Council of Pierce County:**

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22 Section 1. Application Case No. OS15-17 for N.C. Talas LLC is approved for 25
23 points based on the Open Space Public Benefit Rating System in Chapter 2.114 PCC
24 for Open Space classification of 19.12 acres, as more fully described in Exhibit A, which
25 is attached hereto and incorporated herein by reference.

26
27 Section 2. The Clerk of the Council is hereby directed to forward this Ordinance
28 to the City of Edgewood for its affirmation of the application contained herein, and
29 subsequent filing of official documentation of its legislative action of affirmation with the
30 Clerk of the Council.

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32 Section 3. The applicant shall take all steps specified by the Planning and Public
33 Works Department to ensure that the legal descriptions set forth in the application are
34 true and correct descriptions of the properties to be placed under the Current Use
35 Assessment.

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37 Section 4. The applicant shall execute the required agreement regarding the
38 Current Use Assessment authorization as provided by Chapter 2.114 PCC.
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1 Section 5. Findings of Fact are hereby adopted as set forth in attached Exhibit A;
2 the Findings are incorporated herein by reference.

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4 **PASSED** this 23rd day of October, 2018.

5
6 **ATTEST:**

PIERCE COUNTY COUNCIL
Pierce County, Washington

7
8
9 Denise D. Johnson
10 **Denise D. Johnson**
11 Clerk of the Council
12

Pam Roach for
13 **Douglas G. Richardson**
14 Council Chair
15

Bruce F. Dammeier
16 **Bruce F. Dammeier**
17 Pierce County Executive
18 Approved X Vetoed _____, this
19 26th day of October,
20 2018.
21

22 Date of Publication of
23 Notice of Public Hearing: October 10, 2018

24
25 Effective Date of Ordinance: November 5, 2018

Exhibit A to Ordinance No. 2018-69

OS15-17, N.C. Talas LLC, Parcel Nos. 0420221702, 0420221703, 0420221704, and 0420221705, 11623 Valley Avenue East, City of Edgewood:

LEGAL DESCRIPTION OF THE PROPERTY
UNDER CURRENT USE ASSESSMENT

RTSQQ: 04202213

0420221702; PARCEL A OF BLA 2015-11-13-5001 A POR OF WILLIS BOATMAN DLC DESC AS FOLL COM AT NE COR OF SEC TH S 00 DEG 00 MIN 15 SEC W 1341.1 TO NE COR OF GOVT LOT 9 OF SD SEC TH N 89 DEG 06 MIN 37 SEC W 376.1 FT TH S 00 DEG 10 MIN 26 SEC W 299.02 FT TH N 89 DEG 53 MIN 16 SEC W 539.78 FT TO POB TH S 05 DEG 05 MIN 08 SEC W 150.89 FT TH S 15 DEG 29 MIN 06 SEC E 163.11 FT TH S 03 DEG 20 MIN 27 SEC E 31.51 FT TH S 37 DEG 39 MIN 18 SEC W 109.91 FT TH S 67 DEG 29 MIN 17 SEC W 107.37 FT TH N 66 DEG 39 MIN W 103.07 FT TH N 81 DEG 43 MIN 07 SEC W 44.1 FT TH N 49 DEG 48 MIN 14 SEC W 146.74 FT TH S 81 DEG 36 MIN 14 SEC W 59.28 FT TH N 52 DEG 46 MIN 47 SEC W 84.71 FT TH N 64 DEG 58 MIN 48 SEC W 140.23 FT TH S 37 DEG 12 MIN 16 SEC W 10.83 FT TO NLY MAR OF CM ST P & P RR TH N 67 DEG 36 MIN 17 SEC W 80.32 FT TH N 00 DEG 34 MIN 29 SEC E 274.5 FT TH S 89 DEG 53 MIN 16 SEC E 185.02 FT TH N 00 DEG 34 MIN 29 SEC E 164.46 FT TH N 56 DEG 09 MIN 29 SEC E 32.14 FT TH S 33 DEG 50 MIN 31 SEC E 30.92 FT TO A NON TANG CURVE WHOSE RADIUS PT BEARS S 63 DEG 50 MIN 31 SEC E RAD OF 30 FT SD NON TANG CURVE IS ALSO MAR OF 120TH AVCT E TH SLY ALG SD NON TANG CURVE THRU A C/A OF 72 DEG 52 MIN AN ARC DIST OF 38.15 FT TH S 00 DEG 34 MIN 29 SEC W 121.71 FT TH S 89 DEG 53 MIN 16 SEC E 534.61 FT TO POB CURRENT USE RCW 84.34 AS AMENDED TIMBERLAND 2.64 ACS AND 3.81 ACS EXCLUDED 1988 AFN 8901060309 EASE OF REC OUT OF 04-20-22-1-098 & 1- 700 SEG 2018-0257 JP/SD 11/09/17 JP/SD

0420221703; PARCEL B OF BLA 2015-11-13-5001 A POR OF GOVT LOT 9 & A POR OF WILLIS BOATMAN DLC DESC AS FOLL COM AT NE COR OF SEC TH S 00 DEG 00 MIN 15 SEC W 1341.1 TO NE COR OF AFOREMENTIONED GOVT LOT 9 OF SD SEC & POB TH TH N 89 DEG 06 MIN 37 SEC W 376.1 FT TH S 00 DEG 10 MIN 26 SEC W 299.02 FT TH N 89 DEG 53 MIN 16 SEC W 539.78 FT TH S 05 DEG 05 MIN 08 SEC W 150.89 FT TH S 15 DEG 29 MIN 06 SEC E 163.11 FT TH S 03 DEG 20 MIN 27 SEC E 31.51 FT TH S 37 DEG 39 MIN 18 SEC W 109.91 FT TH S 67 DEG 29 MIN 17 SEC W 107.37 FT TH N 66 DEG 39 MIN W 103.07 FT TH N 81 DEG 43 MIN 07 SEC W 44.1 FT TH N 49 DEG 48 MIN 14 SEC W 146.74 FT TH S 81 DEG 36 MIN 14 SEC W 59.28 FT TH N 52 DEG 46 MIN 47 SEC W 84.71 FT TH N 64 DEG 58 MIN 48 SEC W 140.23 FT TH S 37 DEG 12 MIN 16 SEC W 100.83 FT TO NLY MAR OF CM ST P & P RR TH S 67 DEG 36 MIN 17 SEC E 511.82 FT TO A C TO L WHOSE RADIUS PT BEARS N 22 DEG 23 MIN 43 SEC E WITH A RAD OF 5684.65 FT TH ALG SD CURVE THRU A C/A OF 07 DEG 01 MIN 29 SEC AN ARC DIST OF 696.96 FT TH N 19 DEG 08 MIN 42 SEC E 318.05 FT TH S 89 DEG 59 MIN 45 SEC E 103.95 FT TH N 00 DEG 00 MIN 15 SEC E 275 FT TH S 89 DEG 59 MIN 45 SEC E 275 FT TO E LI OF SEC TH N 00 DEG 00 MIN 15 SEC E 440.68 FT TO POB CURRENT USE RCW 84.34 AS AMENDED TIMBERLAND 9.38 ACS 4.46 EXCL 1988 AFN 8901060309 EASE OF REC OUT OF 04-20-22-1-700, 1-701 & 1-050 SEG 2018-0257 JP/SD 11/09/17 JP/SD

0420221704; PARCEL C OF BLA 2015-11-13-5001 A POR OF GOVT LOT 9 DESC AS FOLL COM AT NE COR OF SEC TH S 00 DEG 00 MIN 15 SEC W 1781.78 FT TO POB TH N 89 DEG 06 MIN 37 SEC W 275 FT TH S 00 DEG 00 MIN 15 SEC W 275 FT TH S 89 DEG 59 MIN 45 SEC E 275 FT TO E LI OF SEC TH N 00 DEG 00 MIN 15 SEC E 275 FT TO POB CURRENT USE RCW 84.34 AS AMENDED TIMBERLAND 1.41 ACS AND .33 ACS EXCLUDED 1988 AFN 8901060309 EASE OF REC OUT OF 04-20-22-1-700 SEG 2018-0257 JP/SD 11/09/17 JP/SD

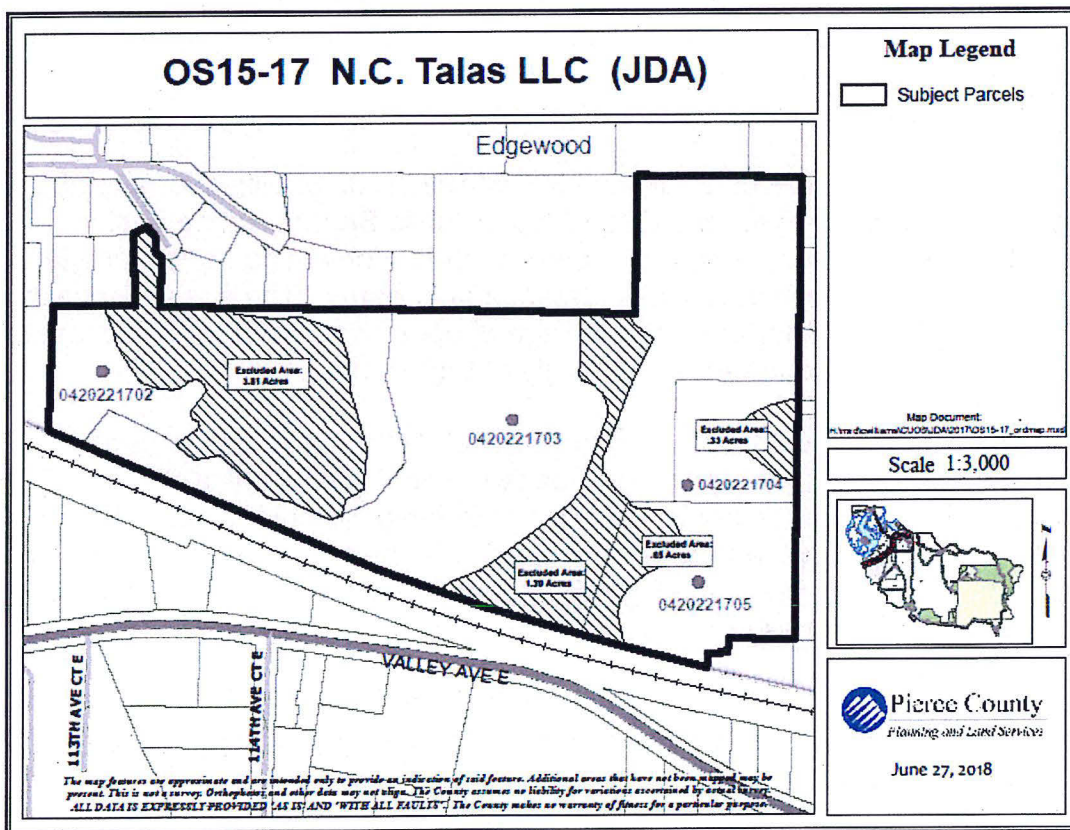
0420221705; PARCEL D OF BLA 2015-11-13-5001 A POR OF WILLIS BOATMAN DLC & A POR OF GOVT LOT 9 DESC AS FOLL COM AT NE COR OF SEC TH S 00 DEG 00 MIN 15 SEC W 2056.78 FT TO POB TH N 89 DEG 06 MIN 37 SEC W 378.95 FT TH TH S 19 DEG 08 MIN 42 SEC W 318.05 TO PT ON NLY LI OF CM ST P & P RR SD PT ALSO BEING ON A NON TANG CURVE WHOSE RAD PT BEARS N 15 DEG 22 MIN 14 SEC E RAD OF 5684.65 FT TH SELY ALG SD CURVE THRU A C/A OF 02 DEG 57 MIN 55 SEC AN ARC DIST OF 294.21 FT



1 TH N 00 DEG 00 MIN 15 SEC E 33.87 FT TH S 89 DEG 20 MIN 17 SEC E 49.5 FT TH N 00 DEG 00 MIN 15
 2 SEC E 33 FT TO N LI OF WOOLERY DLC TH S 89 DEG 20 MIN 17 SEC E 148.17 FT TO E LI OF SEC TH N 00
 3 DEG 00 MIN 15 SEC E 306.46 FT TO POB CURRENT USE RCW 84.34 AS AMENDED TIMBERLAND 1.77 ACS
 4 1.5 EXCL 1988 AFN 8901060309 EASE OF REC OUT OF 04-20-22-1-700, 1-701 & 1-050 SEG 2018-0257
 5 JP/SD 11/09/17 JP/SD
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DESCRIPTION OF AREA EXCLUDED FROM THE CURRENT USE ASSESSMENT

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 13 EXCEPT A TOTAL OF 6.18 ACRES, IN THREE AREAS OF THE PROPERTY TO BE
 14 USED FOR FUTURE RESIDENTIAL PURPOSES. SEE ATTACHED MAP.
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FINDINGS OF FACT

Case No. OS15-17, N.C. Talas LLC

The County Council finds that:

1. The applicant has applied for classification of land as Open Space land pursuant to Revised Code of Washington (RCW) 84.34.020(1).
2. The property in Case OS15-17 qualifies for open space pursuant to RCW 84.34.020(1).
3. The property in Case OS15-17, Parcel No. 0420221702 qualifies for a total of 25 points on 2.64 acres under the Open Space Public Benefit Rating System (PBRs): Five high priority resource points each for containing agricultural land, fish and wildlife habitat conservation areas, and streams. The site also qualifies for five bonus points each for providing linkage of open space and for being located within the municipal boundaries of the City of Edgewood;
4. The property in Case OS15-17, Parcel No. 0420221703 qualifies for a total of 25 points on 12.45 acres under the Open Space Public Benefit Rating System (PBRs): Five high priority resource points each for containing agricultural land, fish and wildlife habitat conservation areas, and streams. The site also qualifies for five bonus points each for providing linkage of open space and for being located within the municipal boundaries of the City of Edgewood;
5. The property in Case OS15-17, Parcel No. 0420221704 qualifies for a total of 25 points on 1.41 acres under the Open Space Public Benefit Rating System (PBRs): Five high priority resource points each for containing agricultural land, fish and wildlife habitat conservation areas, and streams. The site also qualifies for five bonus points each for providing linkage of open space and for being located within the municipal boundaries of the City of Edgewood;
6. The property in Case OS15-17, Parcel No. 0420221705 qualifies for a total of 25 points on 2.62 acres under the Open Space Public Benefit Rating System (PBRs): five high priority resource points each for containing agricultural land, fish and wildlife habitat conservation areas, and streams. The site also qualifies for five bonus points each for providing linkage of open space and for being located within the municipal boundaries of the City of Edgewood.
7. At a properly noticed hearing, the County Council finds that the properties in Case OS15-17 meets the purpose and intent of RCW 84.34.020(1) and recommends approval of the classification of 19.12 acres as Open Space land with 25 points under the Open Space Public Benefit Rating System on Parcel Nos. 0420221702, 0420221703, 0420221704, and 0420221705.

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8. Pursuant to RCW 84.34.037, the Council's affirmative approval of this application by this Ordinance will be forwarded to the City of Edgewood for its affirmation of the application.



9/13/2018

