



City of Longview

1525 Broadway
Longview, WA 98632
www.ci.longview.wa.us

Agenda - Final

City Council

Mayor Don Jensen
Council Member Ken Botero
Council Member Chet Makinster
Council Member Mary Jane Melink
Council Member Steve Moon
Council Member Scott Vydra
Mayor Pro Tem Michael Wallin

Thursday, June 22, 2017

7:00 PM

2nd Floor, City Hall

The City Hall is accessible for persons with disabilities. Special equipment to assist the hearing impaired is also available. Please contact the City Executive Offices at 360.442.5004 48 hours in advance if you require special accommodations to attend the meeting.

1. CALL TO ORDER

2. INVOCATION*/FLAG SALUTE

3. ROLL CALL

4. APPROVAL OF MINUTES

[17-4946](#) COUNCIL MINUTES, JUNE 8, 2017

Attachments: [6.8.2017 Minutes for Approval](#)

5. CHANGES TO THE AGENDA

6. PRESENTATIONS & AWARDS

[17-4937](#) PRESENTATION OF DEEDS TO SQUIRREL BRIDGES FROM
LONGVIEW SANDBAGGERS

[ORD 17](#) ORDINANCE NO. 3348 - ACCEPTING A GIFT OF FIVE SQUIRREL
[3348](#) BRIDGES FROM THE LONGVIEW SANDBAGGERS

COUNCIL STRATEGIC INITIATIVE ADDRESSED:
Address quality of place issues

CITY ATTORNEY REVIEW: Required

SUMMARY STATEMENT:

The Longview Sandbaggers host the annual Squirreelfest event in Longview, and have periodically unveiled five new squirrel bridges to be installed over the public right-of-way. The Sandbaggers then coordinate with city staff to install the bridge. The Sandbaggers retain ownership of each bridge for one year after installation before presenting a title of ownership to the City. The Sandbaggers have presented titles in previous years, but ownership of the bridges was not officially accepted by ordinance as required by the Longview Municipal Code. Ordinance No. 3348 will accept the gift of five squirrel bridges.

FINANCIAL SUMMARY:

Each bridge will require periodic maintenance, the cost of which is anticipated to be minimal.

RECOMMENDED ACTION:

Motion to adopt Ordinance No. 3348.

STAFF CONTACT:

Craig Bozarth, City Engineer

Attachments: [Ordinance 3348 - Squirrel Bridges](#)

[17-4914](#)

PRESENTATION OF AWC CENTER FOR QUALITY COMMUNITIES SCHOLARSHIP TO AMBER TORELL

CITY ATTORNEY REVIEW: N/A

SUMMARY STATEMENT:

Amber Torell of Mark Morris High School was recently awarded an AWC Center for Quality Communities scholarship. She was selected from among 43 high school students for a \$1,000 scholarship. "One of the AWC Center for Quality Communities' goals is to help citizens understand the important role cities and towns play in Washington. The Center promotes municipal leadership development and civic engagement, and works to support students who demonstrate community leadership and commitment to their city." Amber submitted an application and personal essay demonstrating a significant community responsibility and how the experience helped her grow as a leader. We congratulate Amber on being the first Longview student to receive this award.

STAFF CONTACT:

Ken Botero, City Council Member

Tammi Edwards, Executive Assistant

7. CONSTITUENTS' COMMENTS (Thirty Minutes)**7. A FOLLOW-UP TO PAST CONSTITUENTS' COMMENTS****8. PUBLIC HEARINGS**

[17-4943](#)**PUBLIC HEARING - SIX YEAR TRANSPORTATION IMPROVEMENT PROGRAM (T.I.P.) 2018- 2023 AND RIVERCITIES TRANSIT PROGRAM OF PROJECTS****COUNCIL STRATEGIC INITIATIVE ADDRESSED:**

Improve transportation systems

CITY ATTORNEY REVIEW: N/A**SUMMARY STATEMENT:**

Each year, as required by state law, the City updates and adopts a Six-Year Transportation Improvement Program (T.I.P.). The T.I.P. is a priority listing of funded or proposed transportation-related projects within the City. The T.I.P. identifies the year and the funding sources for the various projects, as well as other basic information on the projects. In order to receive federal or state funding, a project must appear on the City's adopted T.I.P. However, the T.I.P. may be amended by the City Council at any time to add or delete projects or change funding sources and amount, following a public hearing on the proposed amendment.

Additionally, federal law requires transit agencies receiving Federal Transit Administration funding to prepare a Program of Projects (POP) identifying the projects to be funded with such FTA funding, and to conduct a public hearing and outreach process prior to adopting the POP. The T.I.P. includes FTA funded projects and meets the requirements of the POP.

RECOMMENDED ACTION:

Conduct the public hearing.

STAFF CONTACT:

Jeff Cameron, Public Works Director

Attachments: [Exhibit A - 6 Year TIP and POP 2018-23](#)

[RS 17 2225](#)**RESOLUTION NO. 2225 - ADOPT THE 2018 - 2023 SIX YEAR TRANSPORTATION IMPROVEMENT PLAN AND RIVERCITIES TRANSIT PROGRAM OF PROJECTS****COUNCIL STRATEGIC INITIATIVE ADDRESSED:**

Improve transportation systems

CITY ATTORNEY REVIEW: REQUIRED**SUMMARY STATEMENT:**

Each year, as required by state law, the City updates and adopts a Six-Year Transportation Improvement Program (T.I.P.). The T.I.P. is a priority listing of funded or proposed transportation-related projects within the City. The T.I.P. identifies the year and the funding sources for the various projects, as well as other basic information on the projects. In order to receive federal or state funding, a project must appear on the City's adopted T.I.P. However, the T.I.P. may be amended by the City Council at any time to add or delete

projects or change funding sources and amount, following a public hearing on the proposed amendment.

Additionally, federal law requires transit agencies receiving Federal Transit Administration funding to prepare a Program of Projects (POP) identifying the projects to be funded with such FTA funding, and to conduct a public hearing and outreach process prior to adopting the POP. The T.I.P. includes FTA funded projects and meets the requirements of the POP.

Resolution No. 2225 will adopt the 2018 - 2013 Six-Year Transportation Improvement Plan and the RiverCities Transit Program of Projects.

RECOMMENDED ACTION:

Motion to adopt Resolution No. 2225.

STAFF CONTACT:

Jeff Cameron, Public Works Director

Attachments: [Exhibit A - 6 Year TIP and POP 2018-23](#)

[Res #2225, 2018-2023 TIP and POP](#)

9. BOARD & COMMISSION RECOMMENDATIONS

[PC 2015-2
6/22/17](#)

UPDATE OF CRITICAL AREA REGULATIONS

COUNCIL STRATEGIC INITIATIVE ADDRESSED:

Council Initiative: Provide sustainable water quality & environmental infrastructure

CITY ATTORNEY REVIEW: N/A

SUMMARY STATEMENT:

Cities and counties are mandated under the State Growth Management Act (GMA) to have Critical Areas Ordinances. Each city and county is required to undertake a review process of their CAO every eight years. Longview's latest update is due June 30, 2017. Critical area regulations address wetlands, geologically hazardous areas, fish & wildlife conservation area, frequently flooded areas and critical aquifer recharge areas.

The City hired Ecological Land Services to assist the City in the update. On March 6, a draft update was sent to the State Department of Commerce who then sent it on to other State departments for a 60 day review period. The State Department of Ecology submitted comments. City and ELS staff communicated with Ecology staff several times that resulted in some minor changes to the draft regulations.

Basically, the latest iteration of the critical area regulations provides some updates (e.g. definitions, wetland rating system, flood hazard mapping) and helps streamline the code. Staff does not believe there are any changes that will have a major effect on how land is developed in the City. However, the

code will be consistent with State law and will be more easily understood.

The City Council held two workshops during the update process (November 3, 2016 and April 27, 2017). The Planning Commission held several workshops during the update process. On June 7, the Planning Commission held a public hearing on the draft. No one from the public spoke. After the public hearing, the Planning Commission voted unanimously to recommend approval of the draft.

Please note that this update no longer covers critical areas within shoreline jurisdiction (Cowlitz and Columbia rivers & Lake Sacajawea). In 2015, the City adopted the "Shorelines Master Program for Longview, Washington" that included critical area regulations for shoreline jurisdiction areas.

RECOMMENDED ACTION:

Motion to accept the Planning Commission recommendation and direct the City Attorney to prepare an ordinance for Council review and approval.

STAFF CONTACT:

Steve Langdon, Planning Manager

Attachments: [Draft Regulations for Critical Areas](#)
[Staff Report to Planning Commission](#)
[SEPA documents](#)

10. ORDINANCES & RESOLUTIONS

11. MAYOR'S REPORT AND COUNCILMEMBERS' REPORTS

[11. A](#) MAYOR'S REPORT

[11. B](#) COUNCILMEMBERS' REPORTS

[17-4935](#) FIREWORKS REGULATIONS

Introduced by: Mary Jane Melink

Supported by: Ken Botero

CITY ATTORNEY REVIEW: REQUIRED or N/A

SUMMARY STATEMENT:

Veterans:

July 4th can be torture for many veterans. For those with Post Traumatic Stress Disorder loud noises such as the bangs and pops we hear from fireworks could cause unpleasant flashbacks for those who have served in our military forces during times of combat.

Studies show that 7-20% of the veterans and troops who have served in Iraq

and Afghanistan have PTSD. When you consider that more than 2.5 million have served, the picture becomes all too clear.

Pets:

Fireworks are not animal-friendly. Invariably, when communities celebrate with fireworks, local shelters and other animal aid organizations are overwhelmed by the "fallout," which manifests in an increased number of stray animals and reports of injuries and trauma to animals.

Proposal:

Washington State Fireworks Law governs the purchase, sale and discharge of fireworks, however the law also permits cities to adopt ordinances with stricter regulations of fireworks than state law, provided such ordinances may not have an effective date sooner than one year after their adoption.

To help support and protect our citizens, veterans and pets we are suggest limiting the number of days and times available for consumer fireworks sales and discharge in the City of Longview as follows:

Additionally we suggest limiting the type of fireworks that can be sold and/or discharged within the city limits.

Dates and Times that fireworks may be sold and purchased:

Fireworks may be *sold and purchased* on the following dates and times:

- **July 2 - July 4:** 9:00 a.m. - 11:00 p.m.
- **July 5:** 9:00 a.m. - 9:00 p.m.
- **December 29 - 31:** 12:00 p.m. - 11:00 p.m.

Dates and Times that fireworks may be used and discharged:

Fireworks may be *used and discharged* on the following dates and times:

- **July 2 - July 3:** 9:00 a.m. - 11:00 p.m.
- **July 4:** 9:00 a.m. - 12:00 a.m. on **July 5.**
- **July 5:** 9:00 a.m. - 11:00 p.m.
- **December 31:** 6:00 p.m. - 1:00 a.m. on **January 1**

The City Manager, after consulting with the Fire Chief, Fire Marshal and other officials may declare an emergency and prohibit the discharge of all fireworks during periods of extreme fire danger.

Application for a permit to conduct or operate a public display of fireworks shall be made to Longview fire officials. Applications must be made at least thirty days prior to the scheduled event and applicants must meet all qualifications and requirements of state law regarding public display of fireworks and all fire and safety requirements and have a pyrotechnic operator license issued by the State of Washington.

The applicant shall provide public notice and outreach to the community in advance of a public display of fireworks.

Type of Fireworks that may be sold and/or discharged

Within the city, licensed retailers shall not sell and members of the public shall not purchase and/or possess ground-launched devices such as mortars and shells, which produce detonation only, and no pyrotechnics. These items are prohibited from sales, possession and use.

Ground launched devices with sound/detonation with pyrotechnics would be permitted.

Sales, personal possession and use of devices described as "Bottle Rockets" and similar devices as identified by Washington State Police would be prohibited.

This section does not apply to authorized persons conducting the public display of fireworks at city-sponsored events for which a special events permit has been issued.

RECOMMENDED ACTION:

As the council members introducing this topic, we are not ordinance writers or attorneys and therefore are asking council to consider what is outlined in the above language regarding hours and type of firework. We are asking to direct the city attorney to prepare an ordinance that reflects the hour limits and firework restrictions.

12. CONSENT CALENDAR

[17-4945](#)

APPROVAL OF CLAIMS

Based upon the authentication and certification of claims and demands against the city, prepared and signed by the City's auditing officer, and in full reliance thereon, it is moved and seconded as shown in the minutes of this meeting that the following vouchers/warrants are approved for payment:

SECOND HALF JUNE 2017 ACCOUNTS PAYABLE: \$1,649,090.42

FIRST HALF JUNE 2017 PAYROLL: DATA NOT AVAILABLE AT TIME OF AGENDA POSTING

STAFF CONTACT:

Kaylee Cody, City Clerk

John Baldwin, Fiscal Analyst

Jackie Rodgers, Human Resources Specialist

[17-4944](#)

LIABILITY CLAIMS/LAWSUITS

The claim(s)/lawsuit(s) listed below was/were received by the City. Where applicable, the claim(s)/lawsuit(s) have been/are being researched and/or reviewed by Washington Cities Insurance Authority (WCIA). The claim(s)/lawsuit(s) status is/are as follows:

NEW:

Donald Powers, DOI: 5/1/2017. Claimant alleges that his tree died as a result of the street department spraying herbicide.

Lifeworks, DOI: 6/8/2017. Claimant alleges vehicle damage caused by city employee error.

Charlene Mitchell, DOI: 6/11/2015. Claimant alleges costs incurred related to trip-and-fall over uneven sidewalk.

DENIED:

William Lundberg, DOI: 5/18/2017. Claimant alleges costs incurred due to pothole on Cypress St.

Lakeside Industries, DOI: Claimant alleges damage to vehicle tire due to potholes on Frontage Rd in front of Swanson's Bark.

Donald Powers, DOI: 5/1/2017. Claimant alleges that his tree died as a result of the street department spraying herbicide.

SETTLED:

Sesiley Corder, DOI: 3/25/2016. Claimant alleges that a police vehicle was driving too fast and killed her dog in the parking lot of Western World.

STAFF CONTACT:

Kaylee Cody, City Clerk
Brian Loos, Risk & Safety Manager

[17-4931](#)

2017 HOME PROJECT ALLOCATION

COUNCIL STRATEGIC INITIATIVE ADDRESSED:

Preserve and enhance neighborhoods

CITY ATTORNEY REVIEW: N/A

SUMMARY STATEMENT

Each year, 5% of the HOME program funds are set aside for operating costs for a community housing development organization. A public hearing was held on June 8, 2017 to take comments on the 2017 HOME allocations.

Consortium Community Housing Development Organization (CHDO)

Designation and Funding

CHDO 5% Operating Costs

The Lower Columbia Community Action Program has applied to be the consortium's Community Housing Development Organization (CHDO). If designated, Lower Columbia CAP will receive funds for operating and capacity building costs including salaries and benefits, training, department pro-rated cost allocations (rent, phone, etc.), equipment, materials, supplies and tools. The amount will be 5% of the 2017 HOME allocation.

Lower Columbia Community Action Program \$12,231.95

Requires approval from Consortium Partners (Longview and Kelso City

Councils)

RECOMMENDED MOTION(s)

Motion to approve Lower Columbia Community Action Program as the recipient of the Consortium Community Housing Development Organization (CHDO) set-aside and operating costs funds for 2017 and designated CHDO.

[17-4936](#)

ADOPTION OF ORDINANCE NO. 3325 AMENDING LONGVIEW MUNICIPAL CODE CHAPTER 16.32 UNFIT STRUCTURES**COUNCIL INITIATIVE ADDRESSED:**

Enhance public safety & emergency response
Preserve and enhance neighborhoods
Address quality of place issues

CITY ATTORNEY REVIEW: REQUIRED**SUMMARY STATEMENT:**

On April 18, 2017 the city council held a workshop to consider recommended changes to LMC Chapter 16.32 Unfit Structures to align the city's abatement procedures with state regulations. At the conclusion of the workshop direction was given to staff to prepare an ordinance for adoption.

RECOMMENDED ACTION:

Motion to adopt Ordinance No. 3325 amending Longview Municipal Code Chapter 16.32 Unfit Structures

STAFF CONTACT:

Jim McNamara, City Attorney
John Brickey, Community and Economic Development Director

Attachments: [Unfit Structures ordinance LMC 16 32 June 22, 2017jb](#)

[17-4947](#)

ORDINANCE NO. 3347 AMENDING THE 2017-2018 BIENNIAL BUDGET (SECOND READING)**COUNCIL STRATEGIC INITIATIVE ADDRESSED:**

Council Initiative: Continue effective financial management

CITY ATTORNEY REVIEW: REQUIRED**SUMMARY STATEMENT:**

The subject ordinance has been prepared to amend the 2017-2018 biennial budget to authorize expenditures unforeseen at the time the 2017-2018 biennial budget was adopted.

Ordinance No. 3347 is hereby presented in an effort to ensure that adequate reserves are available to protect the City's investment in facilities and infrastructure; and because a fiscally sound city government is in the best interests of citizens of the City of Longview.

Ordinance No. 3347 provides for a transfer of \$400,000.00 from the General Fund to the Building Depreciation Fund. Based on 2017 first quarter projections, the General Fund will maintain reserves at a level of at least fifteen percent after providing for this transfer to the Building Replacement Fund.

Under general governmental activities, the City's investment in buildings and infrastructure before depreciation at year-end 2016 was \$75,473,414. Current Building Replacement Fund reserves prior to transfer amount to \$732,969.

The most recent transfer to the Building Replacement Fund occurred in 2008.

This amendment affects the General Fund in the 2017-2018 biennial budget.

Budget amendment ordinances require two readings before the Council. This evening's reading of Ordinance No. 3347 represents the second reading.

RECOMMENDED ACTION:

Motion to approve.

STAFF CONTACT:

Kurt Sacha, Assistant City Manager/Finance Director

Expenditure Required: \$400,000.00

Amount Budgeted: \$0

Appropriation Required: \$400,000.00

Attachments: [Budget Amendment 2017-18 ~ ORD NO 3347 \(2017 0608\)](#)

ORD 17
3349

ORDINANCE NO. 3349 - STORMWATER MANAGEMENT

COUNCIL STRATEGIC INITIATIVE ADDRESSED:

Provide sustainable water quality & environmental infrastructure
Address quality of place issues

CITY ATTORNEY REVIEW: Required

SUMMARY STATEMENT:

Ordinance No. 3349 repeals and replaces Ordinance No. 3100 passed in 2009 and updates stormwater regulations for development and land disturbing activities in LMC Chapter 17.80 in order to satisfy the requirements of the City's NPDES Phase II Municipal Stormwater Permit.

FINANCIAL SUMMARY:

The costs associated with additional development plan review, site inspections and customer service required under these updated stormwater regulations have been included in the 2017-2018 budget.

RECOMMENDED ACTION:

Motion to adopt Ordinance No. 3349.

STAFF CONTACT:

Steve Haubner, Stormwater Manager

Attachments: [Ordinance 3349 - LMC 17.80 FINAL](#)

[ORD 17](#)
[3350](#)

ORDINANCE NO. 3350 - STORMWATER ILLICIT DISCHARGE PREVENTION**COUNCIL STRATEGIC INITIATIVE ADDRESSED:**

Provide sustainable water quality & environmental infrastructure
Address quality of place issues

CITY ATTORNEY REVIEW: Required

SUMMARY STATEMENT:

Ordinance No. 3350 creates a new code section LMC Chapter 17.90, *Stormwater Illicit Discharge Prevention*, in Title 17 (Environment) for regulations which prohibit illicit connections and discharges to the municipal storm sewer system. These provisions previously resided in LMC 17.80, which is being replaced through Ordinance No. 3349.

The regulations have been updated to in order to satisfy the requirements of the City's NPDES Phase II Municipal Stormwater Permit.

FINANCIAL SUMMARY:

The costs associated with the City's illicit discharge detection and elimination program required under the Municipal Stormwater Permit are included in the 2017-2018 budget.

RECOMMENDED ACTION:

Motion to adopt Ordinance No. 3350.

STAFF CONTACT:

Steve Haubner, Stormwater Manager

Attachments: [Ordinance 3350 - LMC 17.90 FINAL](#)

[ORD 17](#)
[3351](#)

ORDINANCE NO. 3351 - LONGVIEW MUNICIPAL CODE TITLES 12 AND 19 REVISIONS FOR STORMWATER LOW IMPACT DEVELOPMENT**COUNCIL STRATEGIC INITIATIVE ADDRESSED:**

Provide sustainable water quality & environmental infrastructure
Address quality of place issues

CITY ATTORNEY REVIEW: Required

SUMMARY STATEMENT:

Ordinance No. 3351 revises code provisions in both LMC Titles 12 and 19 (Zoning) in order to satisfy the requirements of the City's NPDES Phase II Municipal Stormwater Permit

Per the Permit, the City is required to review its development codes and standards to make stormwater management low impact development (LID)

methods the preferred and commonly-used approach to development.

Staff reviewed existing development-related provisions in the Longview Municipal Code and produced a set of recommended revisions to code sections in LMC Title 12 (Streets and Sidewalks) and Title 19 (Zoning) to incorporate LID principles and allow for the use of LID best management practices. In many cases, the changes are minor and represent a codification of existing practices. These revisions were reviewed and recommended by the planning commission.

FINANCIAL SUMMARY:

It is anticipated that these code revisions will result in no or minimal financial impacts to City programs.

RECOMMENDED ACTION:

Motion to adopt Ordinance No. 3351.

STAFF CONTACT:

Steve Haubner, Stormwater Manager

Attachments: [Ordinance 3351 - LMC Title 12 and 19 Stormwater LID Code Changes FINAL](#)

13. CITY MANAGER'S REPORT

[17-4941](#)

CONSIDER REQUEST TO CREATE A PETITION TO FORM THE BEECH STREET LOCAL IMPROVEMENT DISTRICT

COUNCIL STRATEGIC INITIATIVE ADDRESSED:

Improve transportation system

Strengthen economic conditions & create new opportunities

CITY ATTORNEY REVIEW: N/A

SUMMARY STATEMENT:

WRSCO, Inc., a property owner located at 645 California Way, submitted a request for the City to form a Local Improvement District (LID) to fund construction of Beech St. from 14th Ave. to California Way. WRSCO represents about 49 acres of undeveloped land south of the Beech St. right-of-way between 14th Ave. and California Way. The new roadway to be built is approximately ½ mile long and would provide local access to this area.

Staff met with WRSCO on June 13, 2017 to discuss the LID process and timeline, potential challenges, preliminary engineering options, construction cost, and the assessments that would be charged against all benefitting properties. WRSCO would like to continue with the LID process and has asked the City to prepare the information needed and create a formal LID petition. Staff will make a presentation during the council meeting identifying potential costs and risks associated with forming the proposed LID.

FINANCIAL SUMMARY:

The total project cost is estimated to be \$5.1 to \$6.4 million. The City has collected funds earmarked for intersection improvements at 7th Ave &

California Way, consisting of \$250,000 from nearby commercial developments and a Cowlitz County Rural Economic Fund Grant of \$75,000 that can be applied to the project.

City staff has estimated up-front costs for preliminary engineering, special benefit analysis, feasible study, and creation of a petition to be approximately \$150,000 to \$200,000. If LID formation is successful, these up-front costs would be reimbursed by the LID.

RECOMMENDED ACTION:

Motion directing the City Manager to draft a Developer Agreement with WRSCO, Inc. to share costs of preparing a petition to form the Beech Street LID.

STAFF CONTACT:

Jeff Cameron, Public Works Director

Attachments: [Beech St LID 06.22.17](#)

[17-4940](#)

EVALUATION OF TREATMENT TECHNOLOGIES FOR SILICA REMOVAL AT THE MINT FARM REGIONAL WATER TREATMENT PLANT

COUNCIL STRATEGIC INITIATIVE ADDRESSED:

Provide sustainable water quality and environmental infrastructure.

CITY ATTORNEY REVIEW: N/A

SUMMARY STATEMENT:

The decision to cease further investigation of alternate sources of drinking water supply was coupled with a commitment to optimize water quality from the Mint Farm water treatment plant. In November 2016, staff was directed to pursue dissolved oxygen (DO) addition to address taste and odor issues; and to evaluate treatment options for silica removal to address spotting issues.

For DO, an invitation to bid will be advertised this month to construct an air injection DO system at the Mint Farm water treatment plant. Pending final project approval from the Department of Health, construction is expected to be complete by the end of this year. After completion, DO levels will be incrementally increased over a period of up to 9 months. Introduced slowly, DO will help harden existing pipe scale, reduce iron release, inhibit hydrogen sulfide reversion and formation of disinfection byproducts, and eventually temper our dependency on chlorine to maintain chemical stability in the distribution system.

Silica removal remains the more complicated issue. The white spots left behind when water evaporates consist of hardness (calcium and magnesium) and silica. Hardness can be wiped off but silica deposits can be difficult if not impossible to remove. To reduce spotting, a 75% reduction of silica is recommended to approximate the concentration customers previously experienced from the Cowlitz River. With that goal in mind, six treatment technologies were evaluated at bench test level to determine their effectiveness, cost, impacts and benefits. Using a triple bottom line evaluation

approach, the better options for silica removal were narrowed to electrocoagulation, precipitation, and reverse osmosis. Options eliminated from consideration include lime softening, ion exchange, and adsorption using activated alumina.

A 20-year life cycle cost was developed for each of the alternatives based on annualized capital investment and annual expenses for operation and maintenance. The potential rate impact to customers was determined by the life cycle cost spread amongst all customers, and is reported as monthly cost per Equivalent Residential Units (ERU) where one ERU is defined as the average amount of water consumed by a single family residence in one day. With capital costs ranging from approximately \$20-28 million, and annual O&M cost on the order of \$1-1.5 million, the estimated monthly cost per ERU for the three short listed options is as follows:

\$12.23/mo for Precipitation
\$12.32/mo for Electrocoagulation
\$15.41/mo for Reverse Osmosis

Any of these monthly costs would be in addition to the existing Mint Farm water treatment plant costs included in a customer's water bill.

Any selected silica removal option will require additional testing for regulatory approval and to prevent unintended consequences. Staff projects it will take 24-30 months to pilot, design, permit, construct and implement any of the options. Each treatment option presents inherent advantages and disadvantages which translate to differences in water quality, environmental, operability, and distribution system impacts. In addition to cost and rate impacts, the decision making process should carefully consider all of these factors, as well as the no-action alternative not to install silica removal treatment.

In accordance with the terms of the Participant's Agreement between the City and Beacon Hill Water and Sewer District (BHWSD), BHWSD own approximately 15% of the Mint Farm Regional Water Treatment Plant and BHWSD board of commissioner concurrent is necessary to construct additional treatment processes. The BHWSD board is scheduled to consider silica removal options at their meeting on June 21. Depending on BHWSD board action at that meeting, a joint meeting between the city council and BHWSD board may be prudent to mutually discuss this treatment decision.

FINANCIAL SUMMARY:

No funds have been allocated for further evaluation or constructing and operating silica removal treatment. Because the Mint Farm water treatment plant produces potable water meeting all federal and state regulations, it is unlikely this project would be awarded grants or low interest loans. All costs would be paid by City and BHWSD water utility customers.

RECOMMENDED ACTION:

Provide direction to staff regarding silica removal; some options require BHWSD concurrence. Options include:

Discontinue further action - do not remove silica
Schedule joint meeting with BHWSD board to discuss silica removal
Proof one or more alternatives
Select alternative and begin design/construction
Solicit customer opinions
Other

STAFF CONTACT:

Jeff Cameron, Public Works Director

Attachments: [Council Presentation - Silica Technologies 6.15.2017 FINAL](#)

[Evaluation of Silica Removal Alternatives R5 05.18.17](#)

[Evaluation of Silica Removal Alternatives Attachments R5 05.18.17](#)

14. MISCELLANEOUS

[17-4917](#)

WASHINGTON STATE LIQUOR AND CANNABIS BOARD REQUESTS

Attachments: [LL Sizzler assumption 6-7-17.pdf](#)

[6.1.17 Spec Occ LL - Love Overwhelming.pdf](#)

[6.7.17 Spec Occ LL Mark Morris.pdf](#)

[MJ Renewals 6-17.pdf](#)

[LL Renewals 6-17.pdf](#)

15. ADJOURNMENT

*** Any invocation that may be offered at the Council meeting shall be the voluntary offering of a private citizen, to and for the benefit of the Council. The views or beliefs expressed by the invocation speaker have not been previously reviewed or approved by the Council, and the Council does not endorse the religious beliefs or views of this, or any other speaker.**

NEXT REGULAR COUNCIL MEETINGS:

THURSDAY, JULY 6, 2017 - 7:00 P.M. (SPECIAL MEETING)

THURSDAY, JULY 27, 2017 - 7:00 P.M.

NEXT COUNCIL WORKSHOPS:

THURSDAY, JULY 6, 2017 - 6:00 P.M. PTA SALARY REVIEW (SECOND WORKSHOP)

TUESDAY, JULY 18, 2017 - 6:00 P.M. POST-SESSION LEGISLATIVE UPDATE W/ MARK BROWN/DISCUSSION AND REVIEW OF SISTER CITY RELATIONSHIP