

**ASHLAND CITY COUNCIL  
BUSINESS MEETING DRAFT MINUTES  
Tuesday, September 6, 2022**

View on Channel 9 or Channels 180 and 181 (Charter Communications) or live stream via [rvtv.sou.edu](http://rvtv.sou.edu) select RVTV Prime.

**HELD HYBRID (Limited In-Person Social Distancing Seating and Zoom Meeting Access)**  
The Special Business Meeting will be held in Council Chambers, 1175 E. Main Street.

Written and oral testimony will be accepted for public input. For written testimony, email [public-testimony@ashland.or.us](mailto:public-testimony@ashland.or.us) using the subject line: Ashland City Council Public Testimony. For oral testimony, fill out a Speaker Request Form at [ashland.or.us/speakerrequest](http://ashland.or.us/speakerrequest) and return to the City Recorder.

**6:00 PM Regular Business Meeting\***

**I. CALL TO ORDER**

Mayor Akins called the Business Meeting to order at 6:00 PM.

**II. PLEDGE OF ALLEGIANCE**

Councilor Jensen led the Pledge of Allegiance.

**III. ROLL CALL**

**Councilors' Graham, Hyatt, Moran and Jensen were present. Councilors' DuQuenne and Seffinger were absent. (DuQuenne arrived at 6:49 PM).**

**IV. MAYOR'S ANNOUNCEMENTS**

Land Acknowledgement\*\*

Graham read the Land Acknowledgment into the record.

Mayor Akins spoke regarding the option to have Councilors having the option to remote in not available to be present. It was decided to put this topic on a future Agenda.

**V. APPROVAL OF MINUTES**

- 1. Business Meeting of June 21, 2022**
- 2. Study Session of August 15, 2022**

**Hyatt /DuQuenne moved to approve the minutes. Discussion: None. Motion passed unanimously.**

Minutes of Boards, Commissions and Committees\*\*\*

## VI. SPECIAL PRESENTATIONS

Councilor Seffinger presented the James M. Ragland Memorial Volunteer Community Service Award to Mike Hersh (*see attached*). Char Hersh, Mr. Hersh's wife accepted the award for Mr. Hersh.

Councilor Jensen presented the Alan C. Bates Public Service Award to Stefani Seffinger.

## VII. PUBLIC FORUM

Linda Peterson Adams- Ashland – Read a statement into the record (*see attached*).

Miriam Reed – Ashland – Spoke regarding telecommunications and read a statement into the record (*see attached*).

Kelly Marcotulli - Ashland – Spoke regarding telecommunications and 5G. She questioned why this topic is not on the Agenda. She requested that this topic be put on the agenda and to not dismiss this topic (*see attached*).

**Moran moved to suspend rules to answer questions. No second motion died.**

Ken Engelund – Ashland – Thanked Council for their service. He spoke in support of the new art display and read a statement into the record (*see attached*).

Emily Simon – Ashland – spoke regarding appointments of Commissions. She requested that the appointments remain on the Agenda. She spoke that SERJ has a lot of work to do, and it is important to have a full Commission.

David Helick – Spoke regarding Applegate Dam. He spoke regarding climate change and how important the Applegate Dam will be. He spoke that it is valuable to have an energy source. He spoke regarding upcoming projects for energy resiliency. He gave Council a handout (*see attached*).

## VIII. CITY MANAGER REPORT

City Manager Joe Lessard presented the City Manager Report. Items announced were:

- Community Development Director Bill Molnar's retirement
- New Band Director
- Appointment of Jason Wegner to GISP, Director
- Shelter Classifications
- Look Ahead

Mr. Lessard announced that items 1, 2 & 3 under New and Miscellaneous Business will be presentations but not items to be voted on:

1. Comprehensive Sanitary Sewer Collection System Master Plan Adoption
2. Talent-Ashland-Phoenix (TAP) Intertie Master Plan Adoption
3. Stormwater and Drainage Master Plan Adoption

**IX. CONSENT AGENDA**

1. Approval of a Liquor License for Oregon Shakespeare Festival
2. Approval of a Liquor License for Blue Toba
3. City Commission Appointments

**Hyatt/Graham moved to approve the consent agenda. Discussion: None. Voice Vote. All Ayes. Motion passed unanimously.**

**X. PUBLIC HEARINGS**

**XI. UNFINISHED BUSINESS**

1. Resolution Establishing a Govt. Speech Policy for Commemorative & Ceremonial Flags at City Facilities in Street Pennant Policy

City Attorney Doug McGeary gave a Staff report.

*DuQuenne arrived at 6:49 PM.*

**Hyatt/DuQuenne moved to Approve Resolution 2022-27 establishing the City of Ashland's policy for commemorative flags and for street pennants to be displayed at City facilities and in public rights-of-way and designating approved days or periods of commemoration. Discussion: None. Roll Call Vote: Hyatt, Graham, Moran, DuQuenne and Jensen: YES. All Ayes. Motion passed unanimously.**

**XII. NEW AND MISCELLANEOUS BUSINESS**

1. Comprehensive Sanitary Sewer Collection System Master Plan Adoption

Hannah Ferris, PE went over a PowerPoint presentation (*see attached*). Items Discussed were:

- Update to the Master Plan
- Collection System Overview
- Condition assessment
- Inflow/Infiltration
- Hydraulic Modeling
- Capital Improvement
- Financial Impacts
- Projected Sewer Rates
- Projected Revenue Requirements

Council discussed cost.

**2. Talent-Ashland-Phoenix (TAP) Intertie Master Plan Adoption**  
Hannah went over a PowerPoint Presentation (*see attached*).

Items discussed were:

- TAP Water System
- Full Tap System Supply
- Ashland's TAP Supply Goals
- TAP Needs a New Supply
- Tamp Pump Station Limitations
- Ashland Supply Option 1 – Joint System
- Total Buildout TAP Capital Improvement Plan
- Historical Flow Allocation for Cost Sharing
- Recommended Cost Sharing
- Financial Impacts
- 20 year estimated costs by Project Type
- 20 year estimated costs by City

RH2 Engineer Jeff Ballard explained the history of the project. Fleury explained the operational protocol.

The presentation continued:

- Build out costs by City by Phase
- Impacts to Rates 10-Year period

Council discussed capacity and climate impacts.

- IGA Recommendations

Council thanked all who presented.

**3. Stormwater and Drainage Master Plan Adoption**  
Fleury presented a PowerPoint (*see attached*).

Items discussed were:

- Master Plan Overview
  - Executive Summary
  - Study Area
  - System Evaluation
  - Storm Water Program
  - Capital Plan

- Financial Analysis
  - Operating requirements (fees)
  - Debt Service Plan
  - System Development Charges (SDCs)
- Comprehensive Information Update
- Summarize New Regulatory Requirements
- Develop Prioritized Capital Plan
- Develop a Financial Plan
- Master Plan Goals
- Study Area Map
- System Evaluation
- Storm Water Program (will take effect January next year)
  - National Pollution Discharge Elimination System (NPDES) MS4 Phase II Permit (DEQ)
  - Permit Focus
  - Annual Reporting
  - Total Minimum Daily Load (TMDL)
    - Sediment
    - Bacteria
    - Temperature
  - Regional Partnership
    - Rogue Valley Council of Governments
  - Annual Reporting
- Capital Improvement Plan
  - Capital Projects
    - Eliminate “Bubble Ups”
    - Reduce Flooding
    - Infrastructure Improvements
    - Stream Improvements
    - Stormwater Quality Improvements
- Financial Analysis
  - Reviewing of Operating Requirements
  - System Development Charges
- Financial Analysis -Target Balances

Council discussed CIP costs and fee increases.

#### 4. 2021-23 BN Supplemental Budget Resolution

Deputy City Manager Sabrina Cotta gave a Staff report.

**Jensen/Hyatt move to adopt Resolution 2022-28 authorizing a 2021-23 BN supplemental budget. Discussion: None. Roll Call Vote: DuQuenne, Jensen, Moran, Graham and Hyatt: YES. Motion passed Unanimously.**

### XIII. ORDINANCES, RESOLUTIONS AND CONTRACTS

#### 1. Water Revenue Bond Authorizing Resolution

Fleury gave a Staff report. This item was moved to the next Council Business Meeting.

#### 2. Water Treatment Plant Final Design Contract Amendment with HDR Engineering

Fleury gave a Staff Report.

Fleury explained the process.

**Jensen/Graham moved to approve a contract amendment with HDR Engineering Inc. in the amount of \$676,282. Discussion:** Jensen spoke that a project of this nature is a long task and the importance to move forward for the present and future of Ashland. He thanked Mr. Fleury and Staff. Graham spoke that we are seeing more and more examples of situations where a community does not take care of its water and the importance to do so. She spoke she is excited to move forward and spoke in support of the motion. DuQuenne spoke that she understands that water treatment plant has life still remaining. She discussed the importance of taking care of the budget and living within our means. Hyatt spoke in support of the motion. She explained that this motion goes in line with the values of this community. She spoke to not get scared but get prepared and proactive. Moran spoke that he would not support the motion. He spoke that he would like more information on this topic. **Roll Call Vote: Hyatt, Graham and Jensen: YES. Moran and DuQuenne: NO. Motion passed 3-2.**

### XIV. OTHER BUSINESS FROM COUNCIL MEMBERS/REPORTS FROM COUNCIL LIAISONS

Jensen spoke regarding a statement made by a Councilor regarding telling the truth regarding the wastewater treatment plant insinuating that others are not. He spoke that he thought it was disrespectful, abusive and wrong and suggests such statements should be refrained. Moran spoke that the facts speak for themselves.

The Mayor spoke regarding having a Study Session on 5G. City Attorney Doug McGeary spoke that he is looking into getting an engineer and LOC to discuss this topic.

DuQuenne requested to have a PERS document for the upcoming item on the Look Ahead.

DuQuenne questioned when the results of the survey would be complete. Mr. Lessard spoke that item is scheduled for October 3<sup>rd</sup>.

Council discussed the Look Ahead.

### XV. ADJOURNMENT OF BUSINESS MEETING

**The Council Business Meeting was adjourned at 9:26 PM**

**Respectfully submitted by:**

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**City Recorder Melissa Huhtala**

**Attest:**

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**Mayor Akins**

\* Items on the Agenda not considered due to time constraints are automatically continued to the next regularly scheduled Council meeting [AMC 2.04.030.(D)(3)]

**\*\* LAND ACKNOWLEDGEMENT**

We acknowledge and honor the aboriginal people on whose ancestral homelands we work—the Ikirakutsum Band of the Shasta Nation, as well as the diverse and vibrant Native communities who make their home here today. We honor the first stewards in the Rogue Valley and the lands we love and depend on: Tribes with ancestral lands in and surrounding the geography of the Ashland Watershed include the original past, present and future indigenous inhabitants of the Shasta, Takelma, and Athabaskan people. We also recognize and acknowledge the Shasta village of K'wakhakha - "Where the Crow Lights" - that is now the Ashland City Plaza.

\*\*\*Agendas and minutes for City of Ashland's Boards and Commissions meetings may be found at the City's website, <https://www.ashland.or.us/Agendas.asp> . Use the View By box to select the Board or Commission information you are seeking.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the City Manager's office at (541) 488-6002 (TTY phone number 1-800-735-2900). Notification 72 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to the meeting (28 CFR 35.102-35.104 ADA Title I).

## My Testimony at the Ashland City Council Business Meeting 9/6/22

Yesterday we observed a National Holiday to celebrate the industry of the workers who keep the lights on, the roads built and the water flowing and all the others who support those workers by developing policies, managing and planning and who know the value of that labor to the very existence of our community.

There is a movement afoot here, in this body, in this town, that asserts labor's value should be questioned and conformed to a bottom line, not negotiated by contracts or even holding the positions themselves in order to get the work done. There is an idea that with efficiency (meaning cutting positions, reducing pay and/or benefits) the same services will be provided at less cost. That our Staff can do more with less. That the phones would still be answered, the agendas and their 200 page packets would be assembled, distributed and out with enough time for public perusal, that the cooling shelters would be open on time and staffed, that the fires would be fought. And not only are these assertions made, but when contracts are settled and negotiated in good faith with give and take from all sides, suggestions are made that too much was given, that positions should not be filled, that we could get a better deal by outsourcing or regionalizing even when facts to the contrary have been presented over and over and over again. This is called "change" from "the all evil status quo", but all it really is is destructive and obstructive to the functioning of our government. At last count, 36 valued employees have left the ranks. And how many positions are open and have no applicants? And you wonder why not? Maybe that is the change those pundits want. It's called barn burning or throwing the baby out with the bath water.

"Cut back instead of build back" is the new call to arms from extremist conservatives these days. Don't fall prey to those that think that call has anything to do with our progressive ideals of work as an essential component of human dignity, a fact that should not be ignored, criticized or discounted under the guise of efficiency or fiscal responsibility.



Whether staff person, volunteer commissioner or elected official, our work has value. And to denigrate or question that value moves us backward, not to the progressive resilient town that we can become.

Thanks to all the Staff here at the City of Ashland who keep the lights on.

Linda Adams

642 Oak Street

Ashland

(541)554-1544

**DOCUMENTATION** Miriam Reed Public Comment to City Council 6 September 2022

"Fairly easy fix...PublicWorks Director...electric... planning ...the group of us... have come to a conclusion"

[https://videoplayer.telvue.com/player/w9sPsSE7vna3XTN\\_39bs1rEXjVWF0kfP/media/738589?fullscreen=false&showtabssearch=true&autostart=true](https://videoplayer.telvue.com/player/w9sPsSE7vna3XTN_39bs1rEXjVWF0kfP/media/738589?fullscreen=false&showtabssearch=true&autostart=true). (circa 2.43.01)

Concerned citizens would pay the Campanelli fee.

Alan Rathsam & Kelly Marcotuli, "Urgent Advisory about Proposed New Ordinance Revision," to Julie, Joe, Tonya, Gina, Paula, Stephen, Shaun, and Stefani, 17 August 2022

India Germany bans cell towers in or near schools

<http://www.electrosmogprevention.org/public-health-alert/cell-towers-health-alerts/indian-high-court-decrees-no-mobile-towers-near-schools-hospitals/>

<https://5gtechnologynews.com/why-cell-towers-at-schools-should-be-banned/>

<https://citizensfor5gawareness.org/2019/07/12/state-of-new-york-bill-a07173-prohibit-cell-towers-on-school-property/>

Cell tower banned. LA School Board 2009

<http://www.parentsfor safetechnology.org/condemnation-of-t-mobile-cell-tower-at-los-angeles-school-board-december-2009.html>

West Linn-Wilsonville School District in Oregon banned cell towers in or near schools

[https://www.oregonlive.com/news/2008/09/west\\_linnwilsonville\\_school\\_bo.html](https://www.oregonlive.com/news/2008/09/west_linnwilsonville_school_bo.html)

Cell tower removed from Weston School 4 students 3 teachers cancer

<https://midsafetech.org/2019/03/25/cell-tower-to-be-removed-after-4th-ripon-student-diagnosed-with-cancer/>

La CA School District, Palo Alto, CA. Copake, NY 1500 feet

<https://ehtrust.org/examples-of-school-boards-that-no-longer-allow-cell-towers-or-cell-tower-antennas-on-or-near-schools/>

FCC a captured agency 2019

<http://safeliving.tamers.biz/index.php/item/171-harvard-expose-says-wireless-industry-runs-the-fcc>

FCC a captured agency 2021

<https://www.jrseco.com/fcc-captured-agency/>

Thousands of peer-reviewed studies

<https://ehtrust.org/cell-towers-and-cell-antennae/compilation-of-research-studies-on-cell-tower-radiation-and-health/><https://bioinitiative.org/preface/><https://www.cellphonetaskforce.org/articles/>

[www.cellphonetaskforce.org/articles/](https://www.cellphonetaskforce.org/articles/)

## **Miriam Reed Public Comment to City Council 6 September**

On 16 August I sat in this room in a state of shock as I listened to the City Attorney describe his "fairly easy fix" of the Public Right of Way section of the Telecommunications Ordinance.

We do not need an "easy fix" of the current Ordinance. For four years, concerned citizens have been requesting a new ordinance and for the past months an ordinance drawn up by an expert the calibre of Andrew Campanelli, who would give Ashland citizens the protections we deserve. Concerned citizens would pay the Campanelli fee. Apparently, this offer is to be ignored?

Instead, the Public Works Director, Electric, Planning have "come to a conclusion." Were the public invited to contribute to this conclusion?

Throughout the world - in India, Germany, the Los Angeles School District and West Linn-Wilsonville School District in Oregon, placing cell towers in or near schools has been banned. Our current ordinance allows not one but two cell towers near Walker Elementary School. This is barbaric.

Since 2015, the FCC has been recognized as a captured agency, this confirmed in August 2021 by the DC Circuit Court of Appeals. The FCC, an agency whose rules and regulations are based on safety trials on a piece of plastic - a plastic replica of the head of a 6'4" male, using research from the '80s and regulations finalized in 1996. This is 2022, is it not?

The current Ordinance serves the FCC well. Is the Ashland government serving Ashland citizens or the FCC? The answer ? After four years, I leave it to you..

Radio frequency microwave radiation - kills - but slowly. And because we cannot see it and because many of us do not know we feel it, and because it kills slowly, despite the thousands of peer-reviewed scientific studies, we do not accept the truth. As we sit in this room, bombarded by wireless radiation, we are all being damaged - our brain cells, our nerves, our organs, our DNA - all being damaged, slowly but surely. Thank you for your time. After four years, is anyone listening?

Kelly Marcotulli  
Sept. 6th City Council Speech

In my comments tonight, there is no new information that you haven't already received in email or oral testimony regarding a new telecommunications ordinance and why we need one. Members of Oregon for Safer Technology met today to identify the many questions that continue to go unanswered.

Here are the five questions for which we seek clarity:

1. Why is the topic of a telecommunications ordinance not on tonight's agenda?
2. For what reasons can't the city hire Andrew Campanelli, the most widely respected attorney for wireless facilities? His work focuses on maximizing city authority to regulate cell towers and other wireless facilities and is nationally recognized.
3. Will the city accept funds raised by residents to pay for his legal services?
4. Is the city continuing to model its updated ordinance with guidance from the League of Oregon Cities, which partners with AT&T and T-Mobile, as indicated on their website. This is clearly a conflict of interest
5. Will you accept our invitation to learn what world expert scientists and doctors say about this technology? The first step in solving a problem is to understand it. Until you comprehend this information, you won't understand why some of us remain determined to protect our beloved city and its residents.

In a conversation with the city attorney earlier today, he expressed that he does not believe that there is a clear and present health risk posed by wireless. After four years of coming to these meetings armed with statistics, facts and strategies collected over hundreds of hours of research... you can imagine how frustrating this was to hear. I offered to provide him a presentation on the scientific evidence of the harm being documented worldwide. I'm hoping he, and anyone else who doubts there is cause for alarm, takes me up on this offer.

Thank you~

1.

9/6/22

Mayor Aikens, Members of the Council, City Manager Lesard and staff, I am Ken Engelund and, live at 71 Water Street, Ashland.

I support Micah Blacklight's Sculpture "Ancestors Future - Crystalizing Our Call" for inclusion into the Ashland Public Art Collection.

Your acceptance on September 20 will allow fund raising to proceed, and ultimately for the work to inform us as art informs all cultures.

The Council and Public Art Commission 2020 U-Tube video "The Power of Public Art" includes these messages: "Stimulate thought and discourse, Express local identity, and Honor culturally iconic sites."

2.

**This work speaks to the outpouring of responses by Ashland citizens following the death of George Floyd, and tragically Aiden Ellison. It will memorialize the hundreds of names on the T-Shirt fence.**

**I am in a place of privilege in our culture, and the beneficiary of privilege. I speak mostly to those who enjoy this place of privilege.**

**Art is subjective. I encourage all of our community to spend time with the images of Micah's sculpture. Ask questions. What is the figure behind the glasses beckoning or offering? How many cultures use the iconography of winged angels? How many names from the T-shirt fence will appear on the tablets?**

**Micah, writes that his work is intended to offer opportunities for discussions and for healing. Healing <sup>could</sup> to include the full legacy of those not included in our dominant white culture.**

3.

All of the Guidelines for inclusion in the public art collection have been met. In particular, number 9. Quote, "Diversity. The artwork in the Ashland Public Art Collection should encourage cultural diversity." End quote. In Ashland, in the words of author Heather McGee the full meaning of diversity for Micah's community and lived life experiences are what makes up "The sum Us".

Acceptance of Micah's work provides the Inclusion, the <sup>equity</sup> ~~Equality~~ and the Diversity Council has embraced in words and deeds.

I encourage focus and reflection on the work, and, Council's acceptance into our Public Art collection of "Ancestor's Future - Crystalizing our Call". Ken Engelund. 9/6/22

# # #



### **What is needed:**

Electrical demand is expected to increase by ~1% per year over the next 30 years.<sup>4</sup> Oregon is committed to 50 percent renewable energy in the Renewable Portfolio Standard by 2040.<sup>1</sup> Small Hydroelectric power can be part of the RPS and provides clean renewable electrical generation within our country. This will provide us: self reliance, environmental responsibility, and local community development.



### **How we can help:**

The Applegate dam in Southern Oregon is the #1 preexisting non-powered dam in Oregon for hydroelectric development.<sup>2</sup> It can deliver 11.5 Megawatts of electrical energy and 44 Gigawatt-hours per year.<sup>2</sup> The generating station would fully support the dam's original design functions and be capable of harnessing the energy that is currently being lost. The environmental impact of this generation is minimal, monitored and significantly less than other means of electrical generation. The plant will prevent the burning of 70 tons of coal per day of operation and reduce CO<sub>2</sub> input to the atmosphere by 51 tons per day.<sup>3</sup> Further, climate models show an increase in precipitation over the life of the plant, thereby increasing the water energy available for electrical generation.<sup>4</sup>

### **How we would do it:**

Applegate Power LLC is dedicated to service, providing electrical power, and enhancing the community. Our initial project is the Applegate Dam, and it will require less than 10 years to commence electrical generation with a cost of roughly \$60M. This project would invest heavily in the local economy of rural Southern Oregon, and establish long term full time positions in the Applegate Valley. The electrical generation will utilize advances in technology such as fish friendly turbines to minimize ecological impact while maximizing output. The Applegate project will be divided into distinct phases with significant milestones for delineation. These Phases are:

- Initial startup
- Initial permit to license request
- License request to license approval
- License approval to construction approval
- Construction approval to commercial operation
- Operation and maintenance

During each of these phases, our organization must address concerns in the arenas of: technological design, regulatory compliance, financial responsibility, and public and political engagement. These arenas will require different approaches in each phase, influence each other, and are each vital to the success of the project. We will also be utilizing lessons learned from previous hydroelectric attempts at Applegate dam to facilitate success.

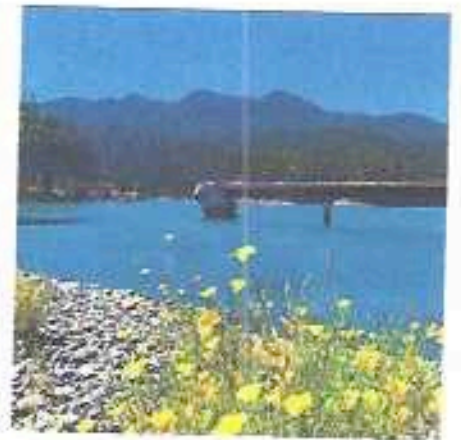


### Who we are:

Applegate Power LLC's mission is to "Generate clean renewable hydroelectric power to support our societal electrical demand." maintaining the values of Social Responsibility, Service, and Integrity. The founders, David Holick and Isaac Hines, have an extensive background in service and the energy sector. They have both served in the military in the field of nuclear power. David has obtained his Bachelors in Science in Nuclear Engineering Technologies. He has received his Senior Reactor Operator License from the Nuclear Regulatory Commission and was a control room supervisor at a large operating nuclear electrical generating station. He has worked at a nuclear design firm successfully completing multiple multimillion dollar projects and having a staff of 22 direct reports. Isaac has a BBA from Western Michigan University, and both an MSPPM and an MBA from Carnegie Mellon University. He has successfully managed multimillion dollar EPC projects for the nuclear industry, including an extended power uprating and Fukushima response upgrades. Isaac has recently founded and managed a financial technology company but has stepped away to pursue more meaningful ventures.

### What it will cost:

Energy sector projects are complex and time consuming because of their multifaceted nature; they impact social, environmental, financial and political arenas to name a few. Financing for this hydroelectric project will be complex to match the difficulty of the endeavor. The biggest financial adversity is the need for significant up front capital with a lengthy period prior to revenue generation. However, this is not unusual for the energy sector and the terms of this project are relatively small compared to other areas. This project has become fiscally viable due to technological advancements, and evolving political and social considerations toward energy generation. Financing will come in three forms; government grants, loans, and investments. The expected cost over the 10 year period for the Applegate Project is roughly \$60M, with the lifetime revenue from the electrical generation exceeding \$220M. Multiple Financing options have been analyzed and found to be feasible and supportive of this socially responsible venture.



We are dedicated to and care about the mission and values of this endeavor. We hope that your review of this plan can excite your imagination, speak to our combined social responsibility, and allow for recognition of our passion. We humbly ask for your support in this project.

Sincerely,

The Applegate Power Team  
[applegate.power@gmail.com](mailto:applegate.power@gmail.com)  
11825 Upper Applegate Rd.  
Jacksonville, OR 97530  
509-707-8371

1. "Renewable Portfolio Standard" Oregon Department of Energy, 2022. <https://www.oregon.gov/energy/electricity/oregon/Pages/Renewable-Portfolio-Standard.aspx>
2. "NONPOWERED FEDERAL DAMS WITH POTENTIAL FOR NON-FEDERAL HYDROPOWER DEVELOPMENT" FERC, America's Water Infrastructure Act of 2018, Docket AD19-7-000
3. "How much coal, natural gas, or petroleum is used to generate a kilowatt-hour of electricity?" U.S. Energy Information Administration. <https://www.eia.gov/totaland/now/bq.php?id=6781-2>
4. "Annual Energy Outlook 2021" U.S. Energy Information Administration. Feb 3 2021. <https://www.eia.gov/outlooks/aeo/electricity/sub-topic-01.php>

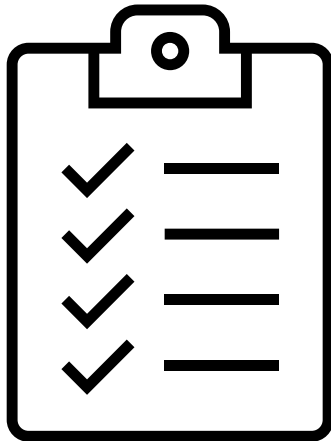
September 6, 2022

# Comprehensive Sanitary Sewer Collection System Master Plan City Council Overview

Hannah Farris, PE



# Agenda



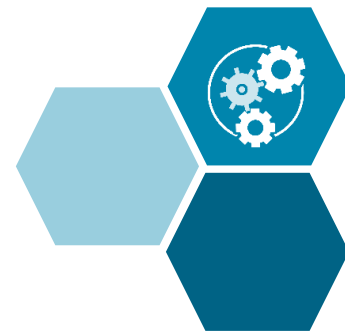
- Introduction/Overview
- Condition Assessment
- Inflow/Infiltration
- Capacity Evaluation
- Capital Improvement Recommendations
- Financial Impacts

# Introduction

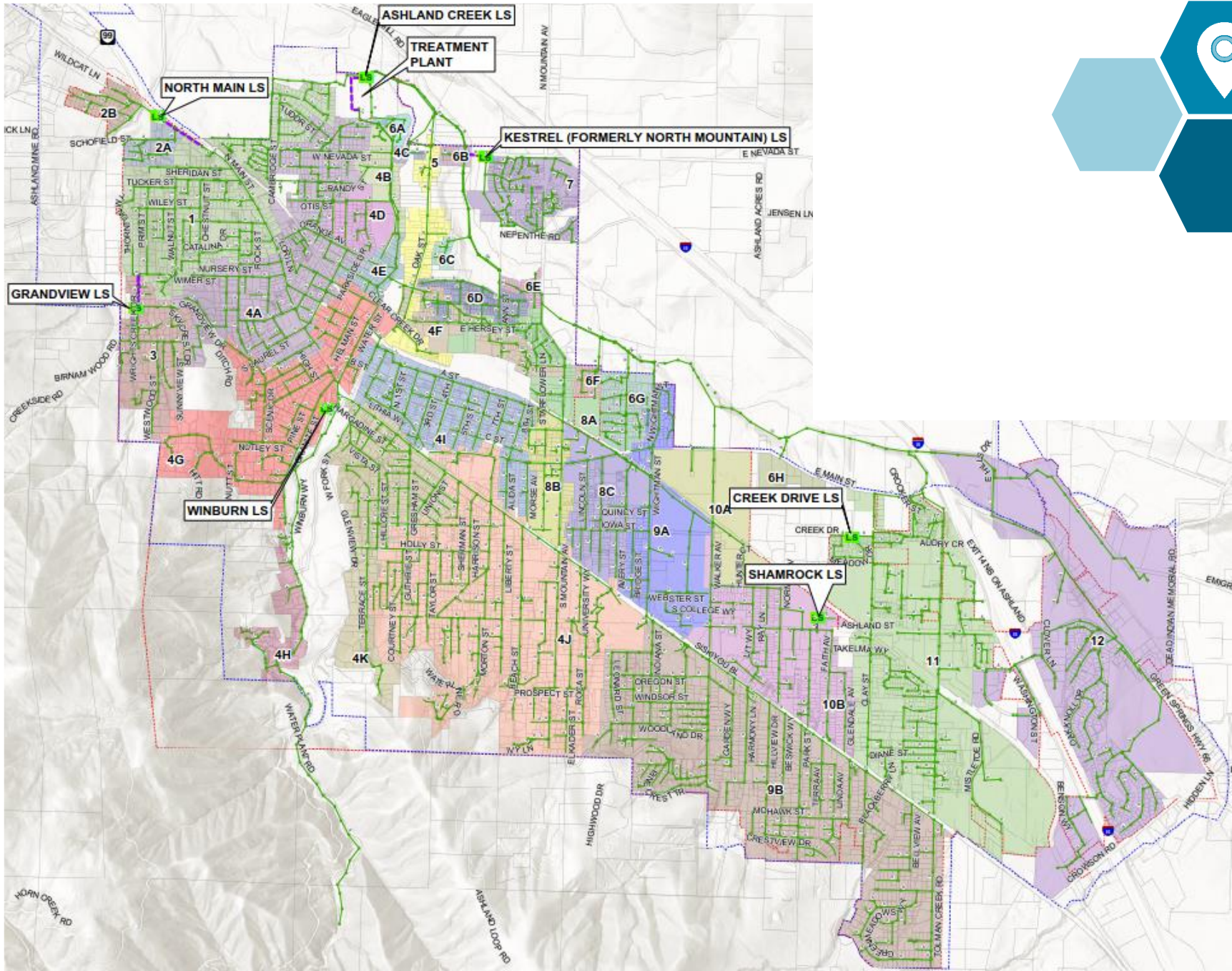
- Update to the 2012 Master Plan



# Collection System Overview



- Approximately 8,549 customer connections
- Drainage Basins
- Gravity Sewer Mains and Manholes
- Lift Stations and Force Mains
- Side Sewers (private sewer laterals)



# Condition Assessment



• Site Visit

• Interviews

• City Inspection

• Flow Monitoring

• Hydraulic Modeling



# Condition Assessment

- Gravity Sewer Mains

- Material – is it a suitable material or could it be a maintenance issue?
  - Orangeburg typically experiences failures and is recommended for replacement
  - PVC has more commonly been installed since the 1970s



*Orangeburg*



*PVC*



*Concrete*



*Clay*

- Age – has it reached its useful life?

- Sewer mains are expected to have a lifespan of 50 years or more
- Diameter – can it convey current and projected flows?



# Condition Assessment

Clear Water (indication of I/I)



Grease Accumulation



Side sewer video inspections  
~50 inspected

# Condition Assessment

Belly, this portion submerged



277 fifth st  
basin 4i  
underwater\_

12:33:06 07/27/2021 0.9FT

Root Intrusion

155 terrace  
basin 4k

14:43:47 07/22/2021 44.6FT

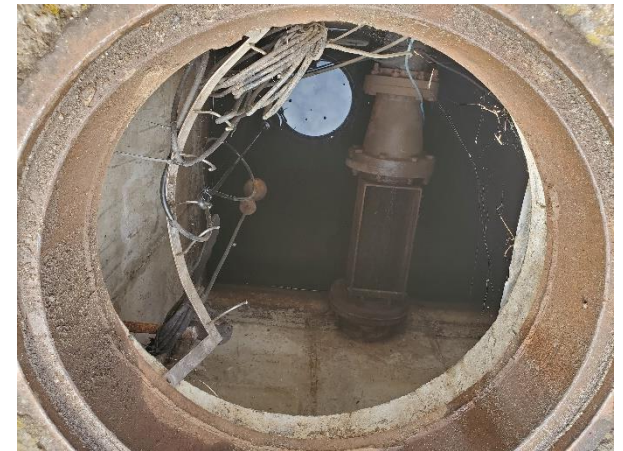
# Condition Assessment

## Lift Stations and Force Mains – Typical O&M Issues



Creek Drive LS

- Clogging
- Electrical panels located underground
- Confined space access



Shamrock LS

# Condition Assessment

## Lift Stations and Force Mains – Typical O&M Issues



- Pumps run inefficiently
- Pumps lose prime



# Inflow/Infiltration



- Inflow – stormwater runoff that flows directly into the collection system
- Infiltration – groundwater that reaches the collection system indirectly through cracks, breaks, and other points of entry in manholes and pipes
- Inflow/Infiltration (I/I) increases the loading in the collection system and the overall volume of sewage that needs to be treated



# Inflow/Infiltration

- V&A Consulting Engineers performed flow monitoring
  - 4 City-owned and 4 V&A flow monitors
  - November 2020 through March 2021
  - Also collected rainfall data
- Flow and rainfall data was used in I/I evaluation

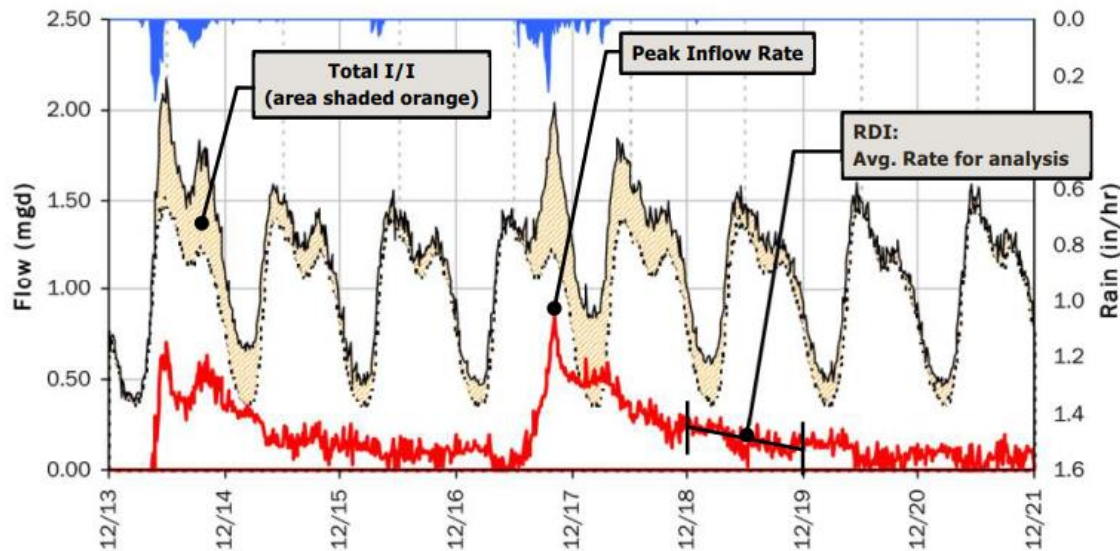


Figure 3-13. I/I Isolation Curve, Rain Event 2 (Ashland Creek LS)

# Hydraulic Modeling



- SewerGEMS software was used to model the collection system
- Capacity-related projects were identified assuming:
  - I/I remains the same
  - Projected 2042 peak hour flows
- Upsize Bear Creek Interceptor from approximately North Wightman Street to Tolman Creek Road (CIP SM2)
- Upsize constriction on North Wightman Street north of East Main Street (CIP SM3)
- Upsize sewer main in A Street from North 1<sup>st</sup> Street to 8<sup>th</sup> Street (CIP SM4)
- Upsize bottleneck upstream of West Nevada Street (CIP SM5)
- Upsize sewer main in Siskiyou Boulevard from Morton Street to Beach Street (CIP SM6)
- Upsize sewer main in Siskiyou Boulevard at intersection with Wightman Street and Indiana Street (CIP SM7)
- Upsize sewer main in Homes Avenue from Walker Avenue to Normal Avenue (CIP SM8)
- Upsize sewer main in Mountain View Cemetery (CIP SM9)

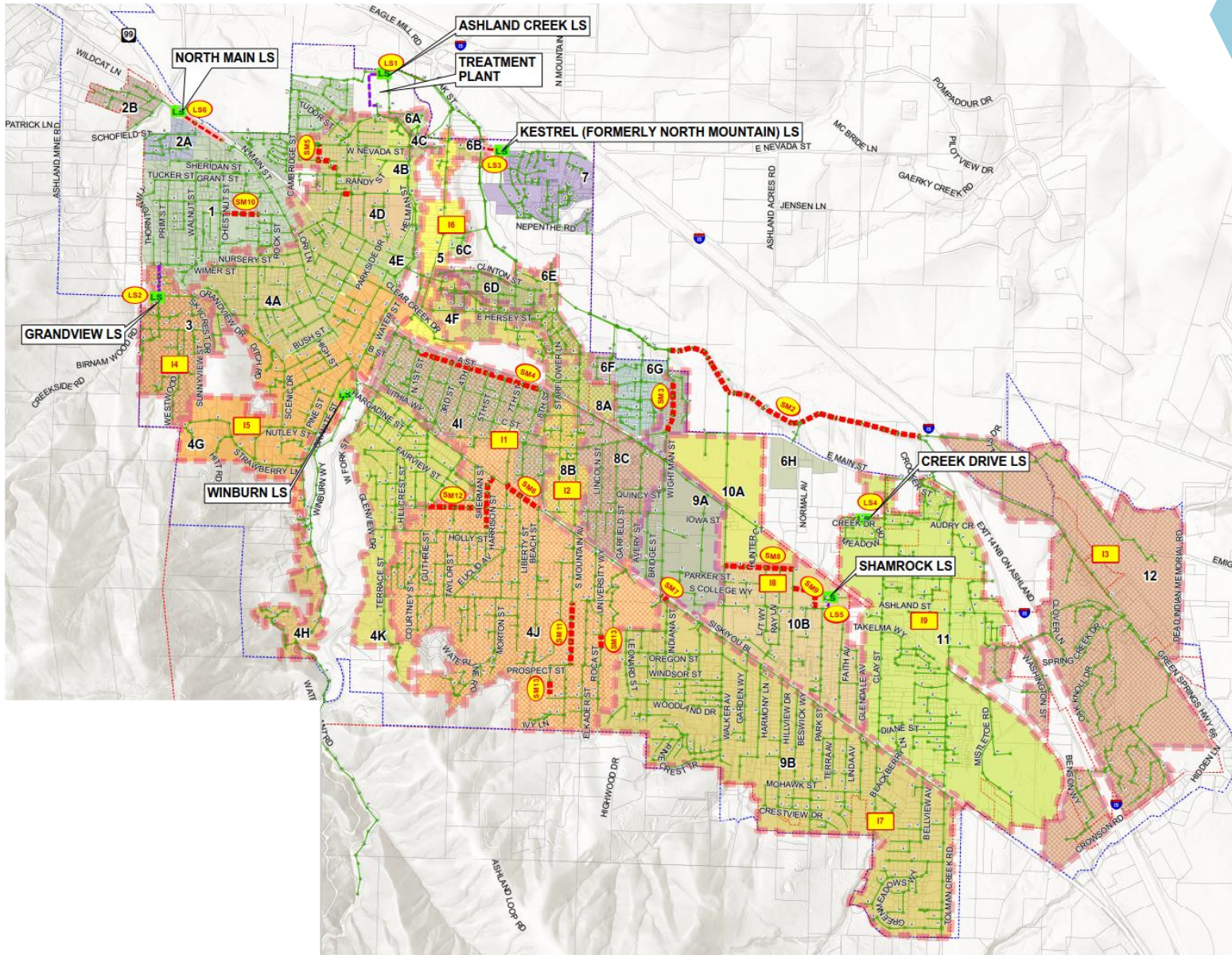
# Capital Improvement Plan



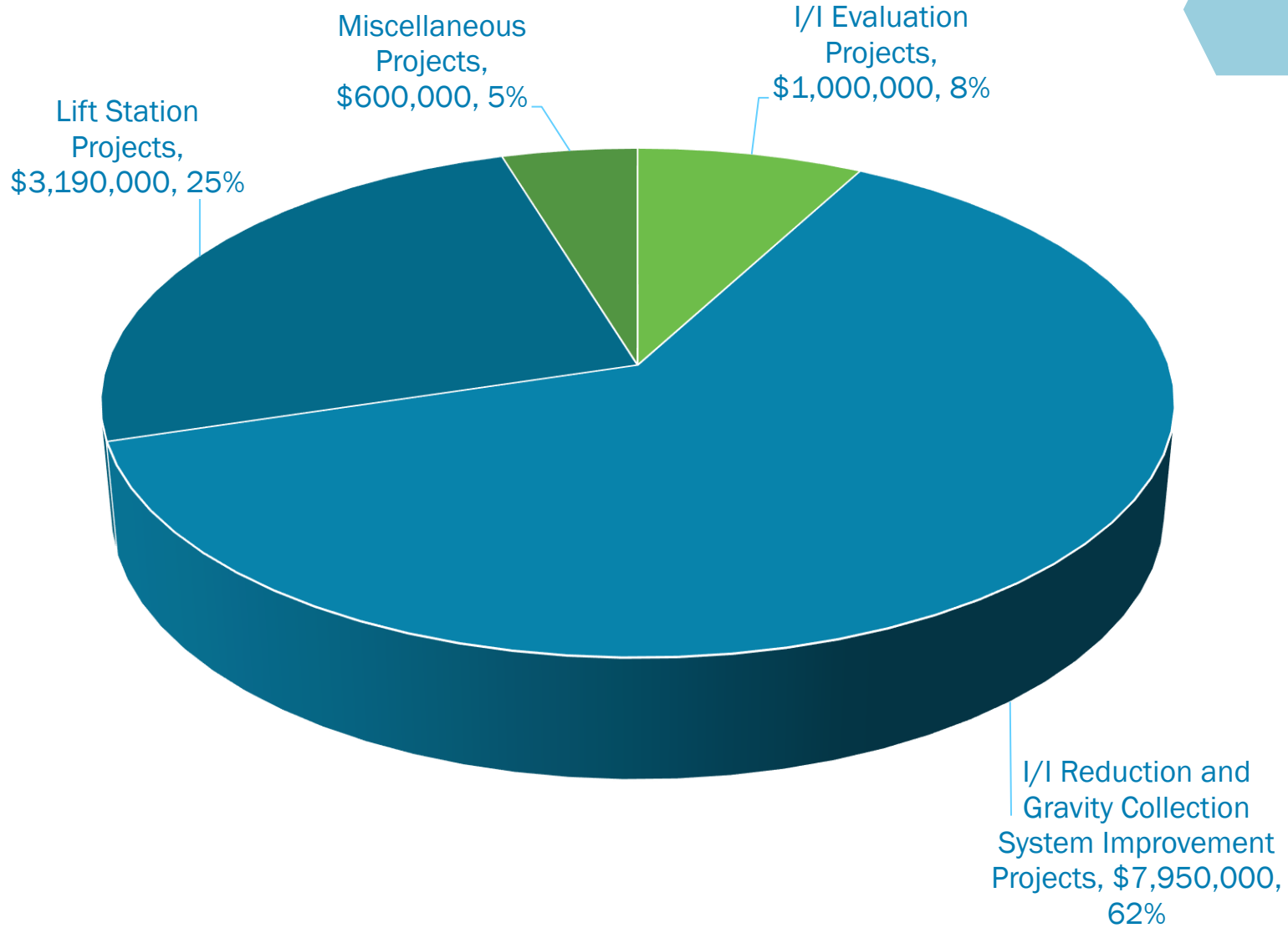
- Recommended CIP projects
  - \$12.74 million (FY 2022 \$) over the next 20 years
- Roughly \$500k to \$600k annually
- Successful I/I reduction, which is recommended first, could eliminate or delay capacity related CIP projects



# Capital Improvement Plan



# Capital Improvement Plan



*All costs are in FY 2022 dollars*

# Capital Improvement Plan Example Projects



CIP	Description	Estimated Cost (2022 \$)	Planned Year(s)
<b>Pinpoint I/I Sources in Basins</b>			
I1	4I/4J	\$175,000	2023/24
<b>I/I Reduction and Gravity Collection System Improvements</b>			
SM1	Annual I/I Reduction	\$2,100,000	2022 to 2042
SM2	Upsize Bear Creek Interceptor	\$2,000,000	2023 to 2027
<b>Lift Station Projects</b>			
LS1	Upsize Capacity of Ashland Creek LS	\$1,100,000	2028/29

*All costs are in FY 2022 dollars*

# Financial Impacts

Hansford Economic Consulting



# Financial Impacts



- City should plan for rate increases starting July 2023 (projected rates on next slide)
- Pursue Principal Forgiveness, Grants, and No or Low Interest Loans
- Include maintenance of a reserve in the wastewater rates

# Financial Impacts



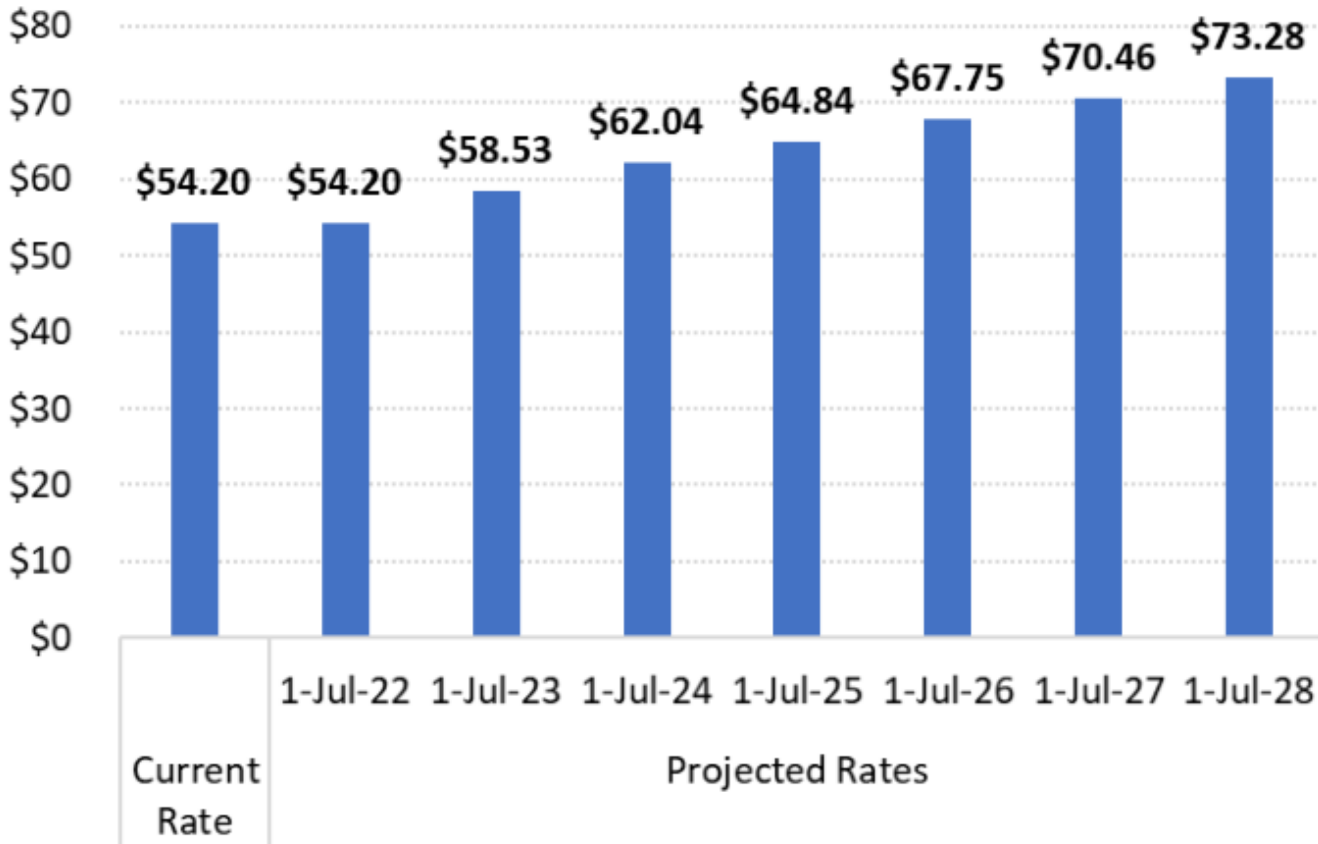
## Calculated Sewer Rates

Customer Type	Current Rate	Projected Rates						
		1-Jul-22	1-Jul-23	1-Jul-24	1-Jul-25	1-Jul-26	1-Jul-27	1-Jul-28
		Biennium 1			Biennium 2		Biennium 3	
<b>Residential</b>		<b>0.00%</b>	<b>8.00%</b>	<b>6.00%</b>	<b>4.50%</b>	<b>4.50%</b>	<b>4.00%</b>	<b>4.00%</b>
Monthly Service Charge, per unit	\$33.94	\$33.94	\$36.66	\$38.85	\$40.60	\$42.43	\$44.13	\$45.89
Quantity Charge, per cf	\$0.05064	\$0.05064	\$0.05469	\$0.05797	\$0.06058	\$0.06331	\$0.06584	\$0.06847
<b>Commercial, Industrial, Governmental</b>								
Monthly Service Charge	\$35.41	\$35.41	\$38.24	\$40.54	\$42.36	\$44.27	\$46.04	\$47.88
Quantity Charge, per cf	\$0.05621	\$0.05621	\$0.06071	\$0.06435	\$0.06724	\$0.07027	\$0.07308	\$0.07601
<b>Greenhouses, Churches, Schools (K-12) operating 9 months/yr</b>								
Monthly Service Charge	\$35.41	\$35.41	\$38.24	\$40.54	\$42.36	\$44.27	\$46.04	\$47.88
Quantity Charge, per cf	\$0.05621	\$0.05621	\$0.06071	\$0.06435	\$0.06724	\$0.07027	\$0.07308	\$0.07601
<b>Bed &amp; Breakfasts &amp; Ashland Parks Bathrooms</b>								
Monthly Service Charge	\$35.41	\$35.41	\$38.24	\$40.54	\$42.36	\$44.27	\$46.04	\$47.88
Quantity Charge, per cf	\$0.05621	\$0.05621	\$0.06071	\$0.06435	\$0.06724	\$0.07027	\$0.07308	\$0.07601

# Financial Impacts



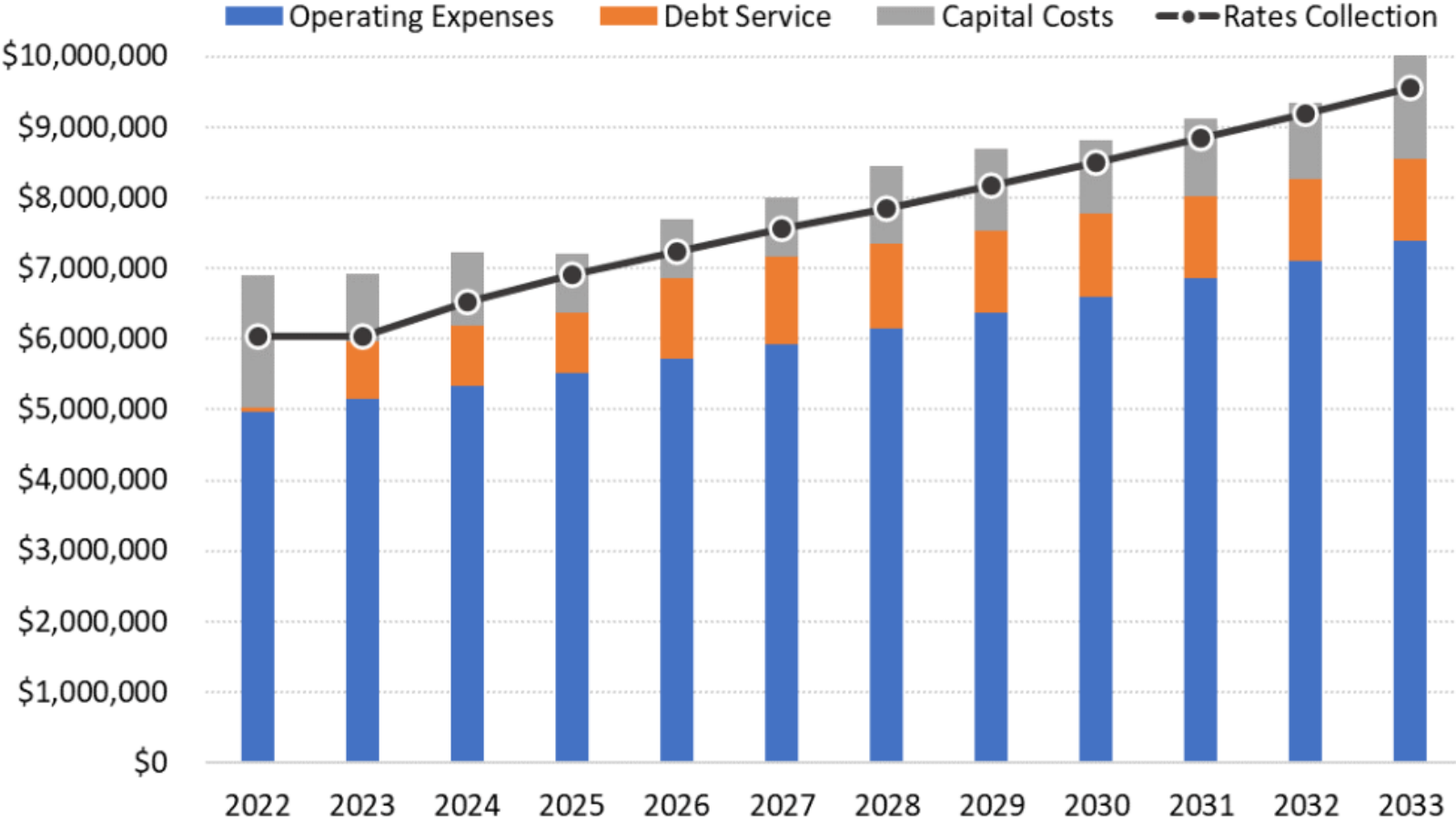
## Single-Family Home Bill Impact



# Financial Impacts



### Projected Revenue Requirement





# Questions?



September 6, 2022

# TAP Water Master Plan City Council Study Session

Hannah Farris, PE



# Agenda

- City of Ashland's TAP Goals
- Capital Improvement Recommendations
- Cost Sharing
- Financial Impacts
- Recommendations for updated TAP Intergovernmental Agreement

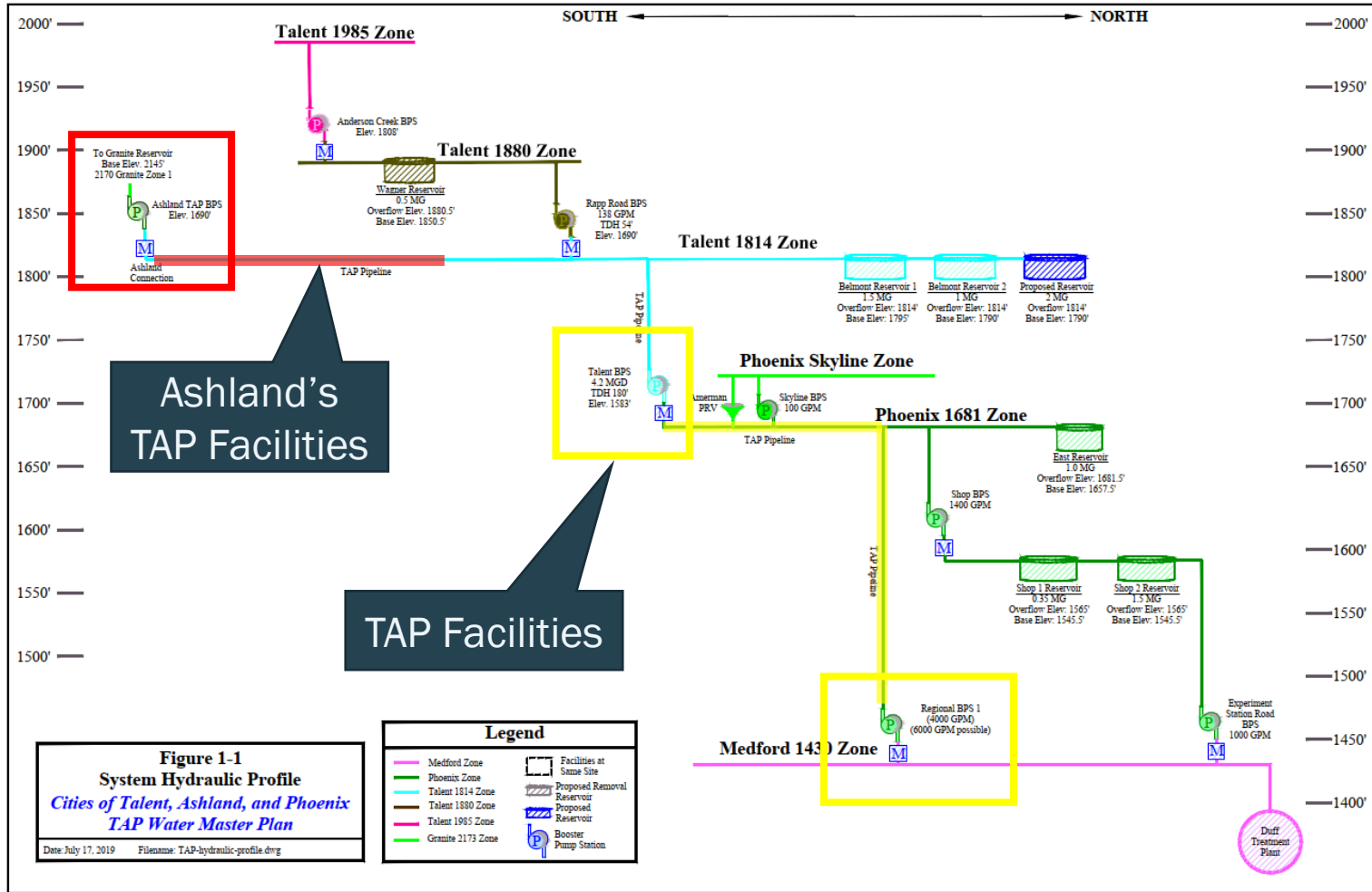
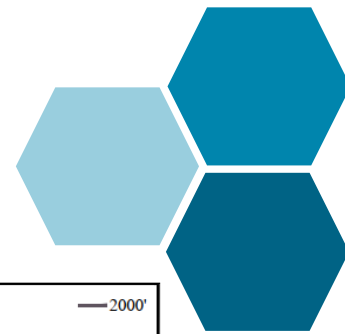




# Ashland's TAP Goals



# TAP Water System



# Full TAP System Supply Goals



- Reliability
  - Increase pumping capacity at Regional BPS
  - Add a new MWC supply source in Phoenix
- Redundancy
  - Add capability for Ashland to supply emergency water to Talent and Phoenix
  - Increase backup power supply

# Ashland's TAP Supply Goals



- Redundancy
  - Emergencies
  - Ashland Water Treatment Plant Disruptions
  - Drought Management
  - 2.13 millions of gallons per day (mgd) in 2020
  - 3.0 mgd by 2030
- Reliability
  - Backup power at all facilities



# Capital Improvement Recommendations





# TAP Needs a New Supply Connection by 2040



Table 4-5

Regional BPS Total Capacity Evaluation in gallons per minute (gpm)

Year	Full TAP Maximum Day Demands* (gpm)	Experiment Station Road BPS Supply (gpm)	Regional BPS Total Capacity (gpm)	Surplus/ (Deficit) (gpm)
2020	4,563	292	4,500	229
2030	5,609	292	4,500	(817)
2040	6,215	-	4,500	(1,715)
2070	6,542	-	4,500	(3,041)

*\*Demands may change based on rebuilding, expanding to include the Charlotte Anne Water District, or additional conservation by Talent and Phoenix*

# Ashland Non-Peak Supply Recommendations



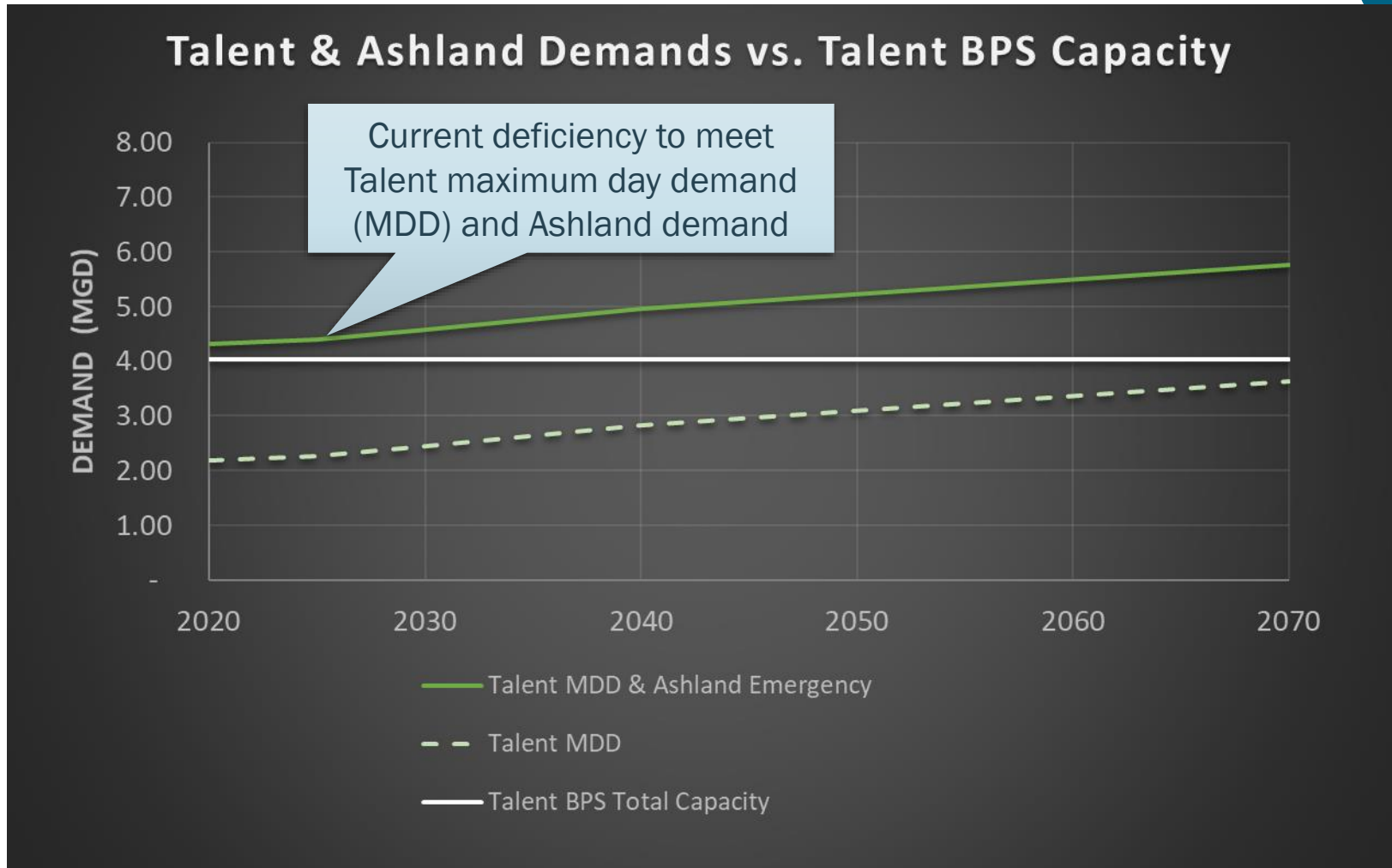
- Short-Term:
  - Install larger pump at Regional BPS
  - Ashland supply to Talent and Phoenix
- Long-Term:
  - New Connection to Medford Water Commission to provide capacity and redundancy

# N Phoenix Road New MWC Connection

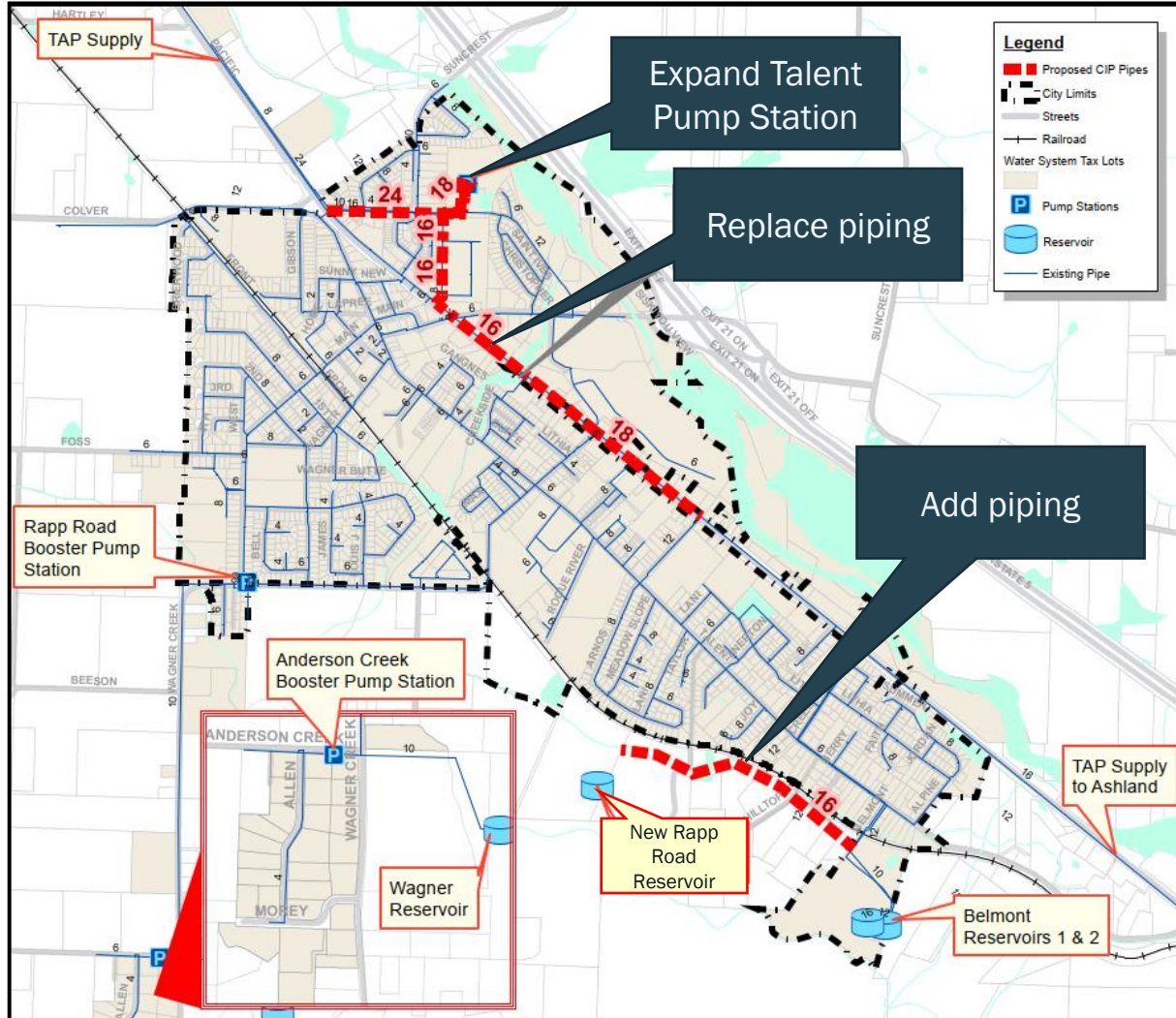


- Gravity Supply – No Pumping
- Pay higher rates for Medford Water Commission (MWC) to boost water
- Requires Extensive MWC Coordination

# Talent Pump Station Limitations



# Ashland Supply Option 1 – Joint System



# Total Buildout TAP Capital Improvement Plan



CATEGORY	OPTION 1 – Joint Ashland/Talent System
SUPPLY	\$7,589,000
PUMP STATIONS	\$995,000
PIPELINES	\$6,031,000
RECOMMENDED STUDIES	\$515,000
<b>TOTAL CIP</b>	<b>\$15.1M*</b>

*\*Note that these are shared costs for the TAP cities*



# Cost Allocation



# Historical Flow Allocation For Cost Sharing



City	2000 TAP IGA 2050 Capacity Allocation (MGD)			2000 TAP IGA Amend 1	2017 Recommended Cost-Share <sup>3</sup>
	Flow-Based Percent of Capacity (%)	ADD <sup>1</sup>	MDD <sup>2</sup>	MDD	MDD
Talent	58.83%	1.858	3.972	4.0	2.2
Ashland	19.78%	1.600	1.600	1.6	2.1
Phoenix	21.78%	1.406	3.012	3.0	1.4
Total	100%	4.864	8.584	8.6	5.7

1. ADD = Average Daily Demand (MGD)

2. MDD = Maximum Daily Demand (MGD)

3. Based on historic use; recommended revisiting in a TAP Water Master Plan

Larger than RBPS  
Capacity 4,500gpm  
(6.48 MGD)



# Recommended Cost Sharing



- Capital Projects
  - Cost sharing based on the capacity each City needs compared to capacity already purchased.
- Operation and Maintenance (including Depreciation)
  - Cost sharing based on actual use

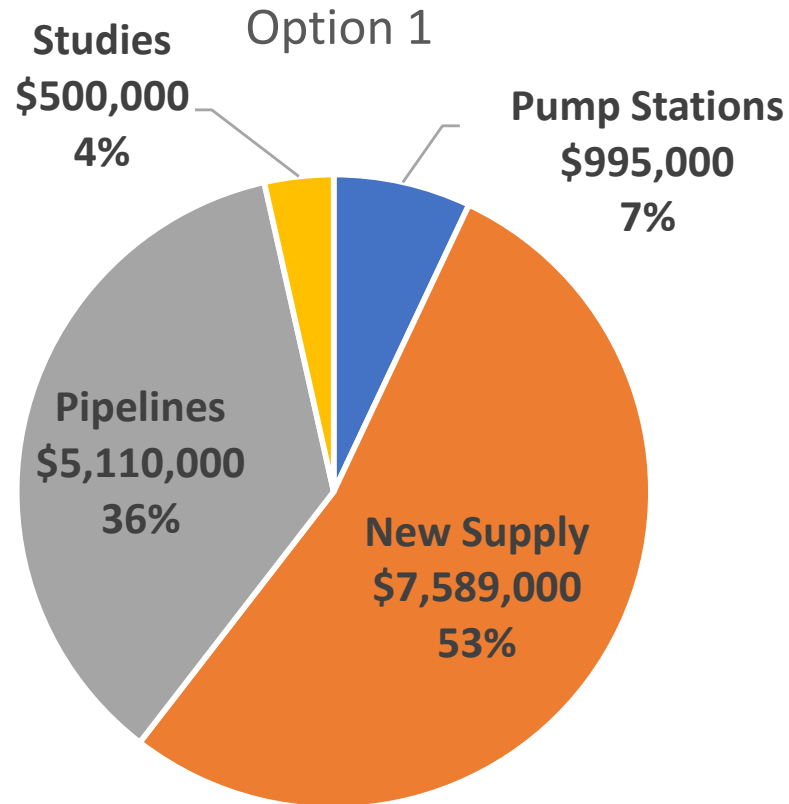


# Financial Impacts

HANSFORD  
ECONOMIC CONSULTING

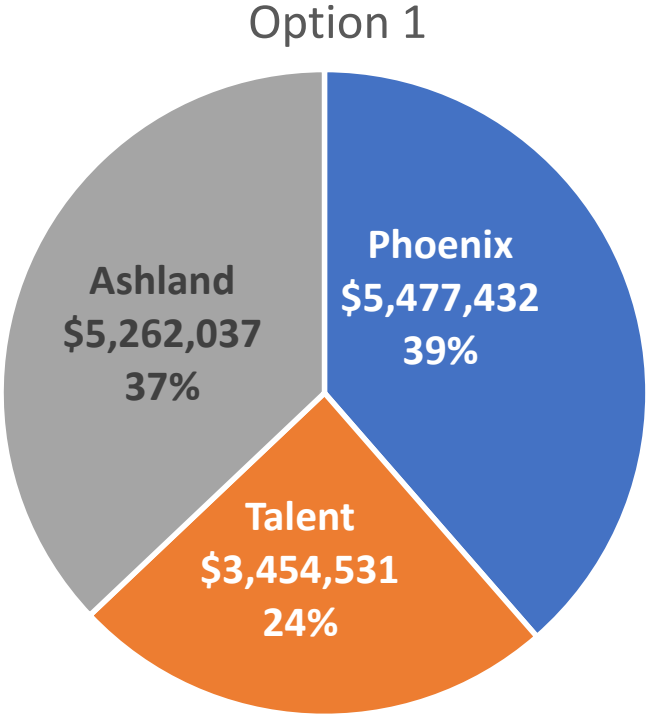


# 20-year Estimated Costs by Project Type



*All costs are in 2020 dollars*

# 20-year Estimated Costs by City

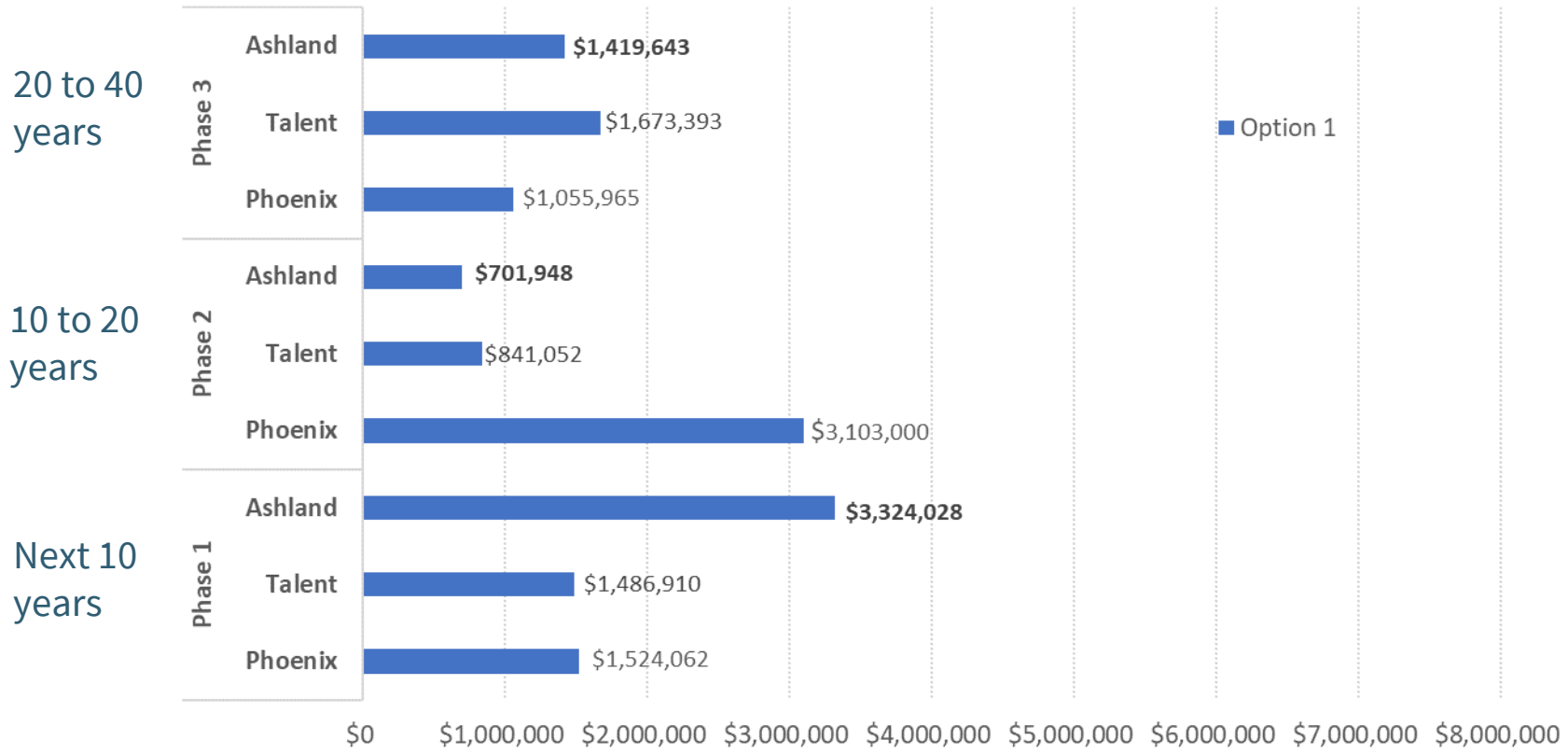


*All costs are in 2020 dollars*

# Buildout Costs by City by Phase



Figure 4  
Estimated CIP Costs by Phase by City



*All costs are in 2020 dollars*

# Impacts to Rates 10-year Period



**Table 12**  
**High-Level Analysis Impact of TAP System Phase 1 Costs**

Item	Phoenix	Talent	Ashland
	OPTION 1		
CIP - Debt Service [1]	\$0	\$105,800	\$324,400
Operations & Maintenance	\$1,940	(\$974)	\$10,641
Depreciation @ 20%	\$16,428	\$30,186	\$4,237
<b>Totl Annual Add'l Cost</b>	<b>\$18,368</b>	<b>\$135,012</b>	<b>\$339,278</b>
Approx. Annual Thousands of Gallons Sold (2021-2030)	255,000	313,900	897,600
<b>Cost per Thousand Gallons</b>			
CIP - Debt Service [1]	\$0.00	\$0.34	\$0.36
Operations & Maintenance	\$0.01	(\$0.00)	\$0.01
Depreciation @ 20%	\$0.06	\$0.10	\$0.00
<b>Totl Annual Add'l Cost</b>	<b>\$0.07</b>	<b>\$0.43</b>	<b>\$0.38</b>
Monthly Home Use (gallons)	7,500	7,500	7,500
<b>Approx. Monthly Cost Impact</b>	<b>\$0.54</b>	<b>\$3.23</b>	<b>\$2.83</b>
CIP - Debt Service [1]	\$0.00	\$2.53	\$2.71
Operations & Maintenance	\$0.06	(\$0.02)	\$0.09
Depreciation @ 20%	\$0.48	\$0.72	\$0.04

Source; HEC July 2020.

[1] Debt service would not start until at least 6 months after bond sales (likely in second half of the 10-year period).

*All costs are in 2020 dollars*



# New TAP IGA Recommendations





# IGA Recommendations

- Use third-party to provide moderating
- Clarify roles and responsibilities
- Document assets
- Formalize Cost-Sharing Method
  - Rather than actual values to provide flexibility
- Improve tracking of Operations and Maintenance
- Formalize funds for asset management/depreciation
- Incorporate regional water rights strategy





Questions?





CITY OF ASHLAND

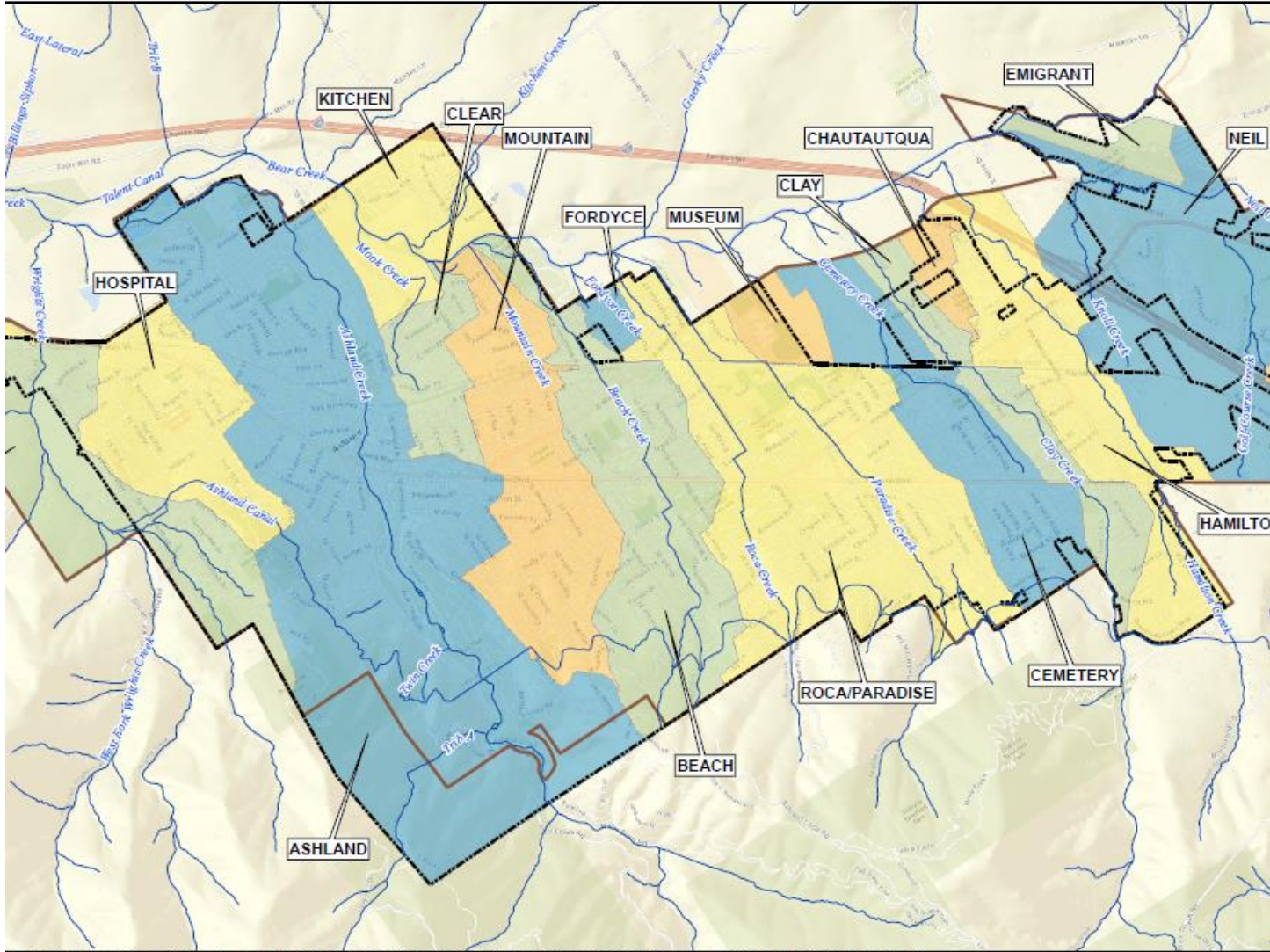
# Storm Water and Drainage Master Plan

# Master Plan Overview

- Executive Summary
- Study Area
- System Evaluation
- Storm Water Program
- Capital Plan
- Financial Analysis
  - Operating requirements (fees)
  - Debt Service Plan
  - System Development Charges (SDCs)

## Master Plan Goals

- Comprehensive Information Update (system)
- Summarize New Regulatory Requirements
- Develop Prioritized Capital Plan
- Develop a Financial Plan



RCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

# Study Area

- **Drainage Basins**
  - Topography
  - Significant Features
  - Soils
  - Rainfall
- **Regulatory Drivers**
  - MS4 Phase II Permit
  - Total Maximum Daily Load (TMDL)
  - Ashland Comprehensive Plan
  - Water Resources Protection Zone

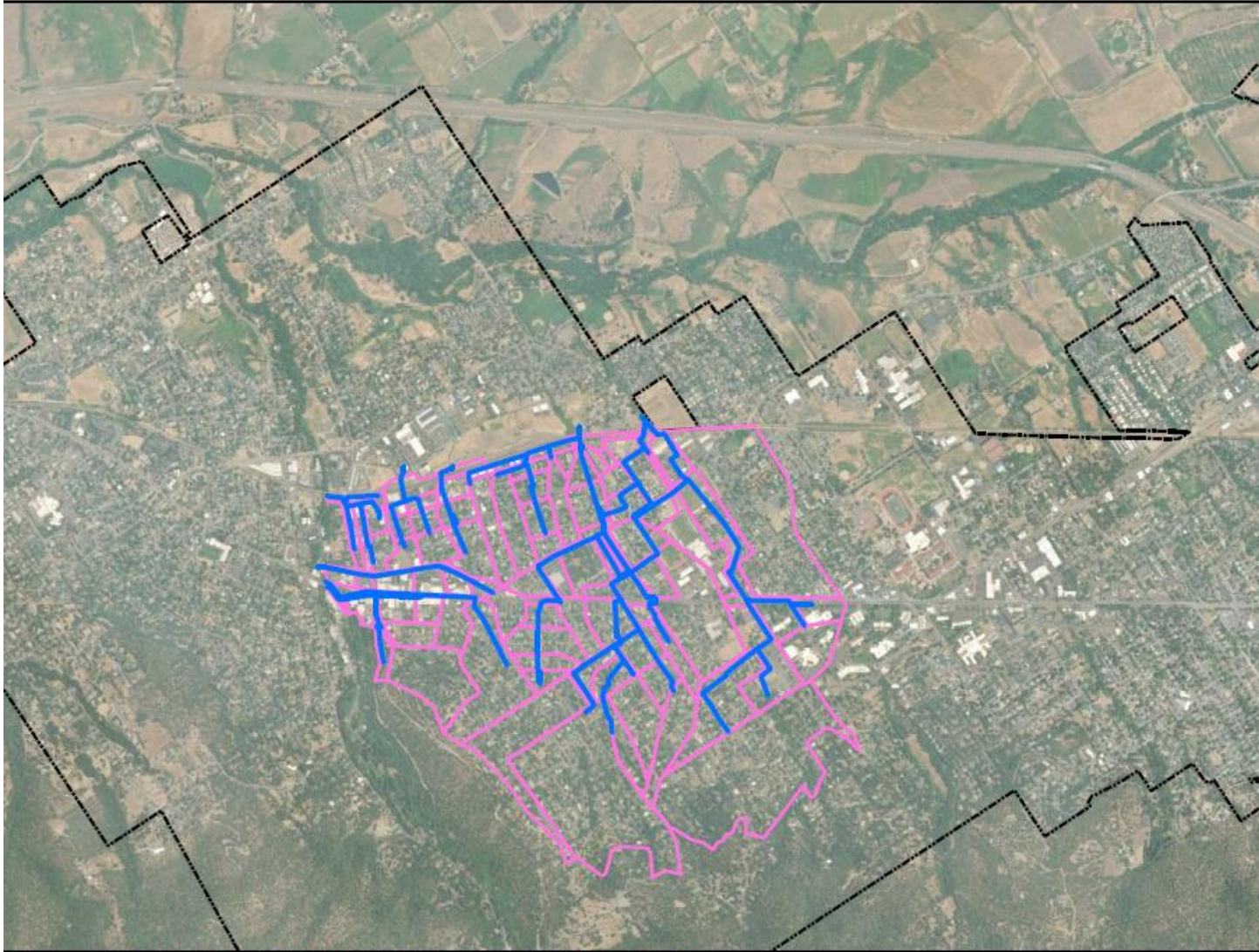
# System Evaluation

- **Hydrologic Analysis**

- Basin analysis

- **Hydraulic Analysis**

- Known deficiency areas
- Data Collection
- Model results





# Storm Water Program

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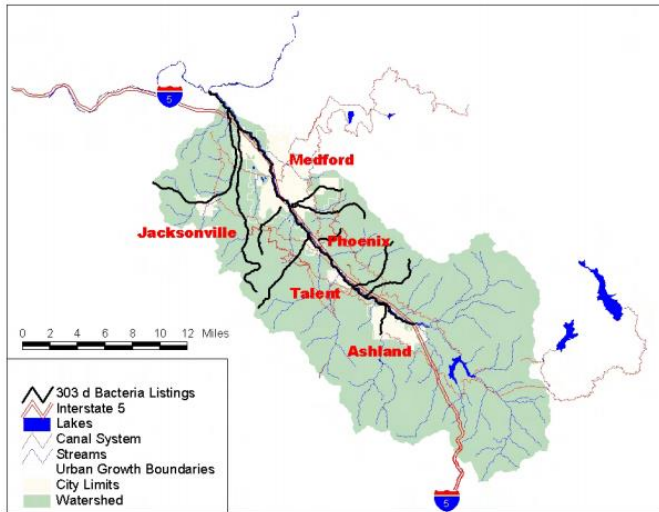
- **Applicable Code and Program Component Review**
- **Stormwater Manual**
  - **Rogue Valley Sewer Services Storm Water Design Manual**
    - Regional Design Requirements
      - Design Storm
      - Methodology
      - Treatment Systems
    - Regional Low Impact Development Best Management Practices



# Storm Water Program

- **National Pollution Discharge Elimination System (NPDES) MS4 Phase II Permit (DEQ)**
  - **Permit Focus**
    - Public Education and Outreach
    - Public Involvement and Participation
    - Illicit Discharge Detection and Elimination
    - Construction Site Runoff Control (*Erosion Control BMP*)
    - Post-Construction Site Runoff (*New and re-development*)
    - Pollution Prevention and Good Housekeeping for Municipal Operations
  - **Annual Reporting**





# Storm Water Program

- o **Total Maximum Daily Load (TMDL)**

- o Bear Creek TMDL

- o Sediment
- o Bacteria
- o Temperature

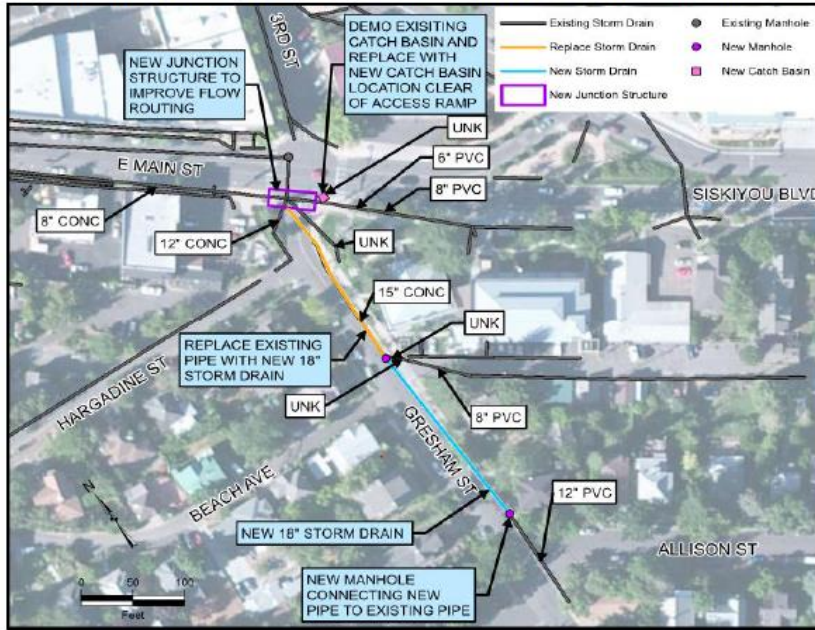
- o **Regional Partnership**

- o Rogue Valley Council of Governments

- o **Annual Reporting**



**CIP Project #1: Gresham Street at Beach Avenue**    **Project Category: "Bubble Up" Removal**



# Capital Improvement Plan

## Capital Projects

- Eliminate "Bubble Ups"
- Reduce Flooding
- Infrastructure Improvements
- Stream Improvements
- Stormwater Quality Improvements

**Capital Project Background and Description**

The City has reported a "bubble up" catch basin northwest of the intersection of Allison Street and Gresham Street. The "bubble up" structure was designed as an outlet point of a stormwater conveyance system where runoff overflows from the downstream catch basin and sheet flows along the curblin to the next stormwater collection system. The City would like to eliminate "bubble up" catch basins by conveying runoff to new piped systems.

This project will include new storm drain piping between Allison Street and Beach Avenue and new structures at each junction to connect to existing infrastructure. This new piping will tie into the downstream end of the conveyance system in the alley near the Ashland Library. The existing storm drain piping from the alley to Main Street will be upsized to increase drainage capacity.

Existing storm drain piping on Main Street is relatively flat, causing backwater effects into infrastructure on Gresham Street. The junction structure at the intersection of Main Street and Gresham Street will be replaced to reduce energy losses and improve hydraulic routing; however, surcharging and flooding is still anticipated during larger storm events.

**Design Considerations**

Preliminary hydrologic and hydraulic modeling have been completed for pipe sizing purposes based on the City's current GIS data. Additional modeling, topographic survey, and an analysis of downstream impacts is recommended to confirm existing and proposed pipe diameters and invert elevations prior to final design.

Preliminary Cost Estimates		
+50%	Total Est.	-30%

# Financial Analysis

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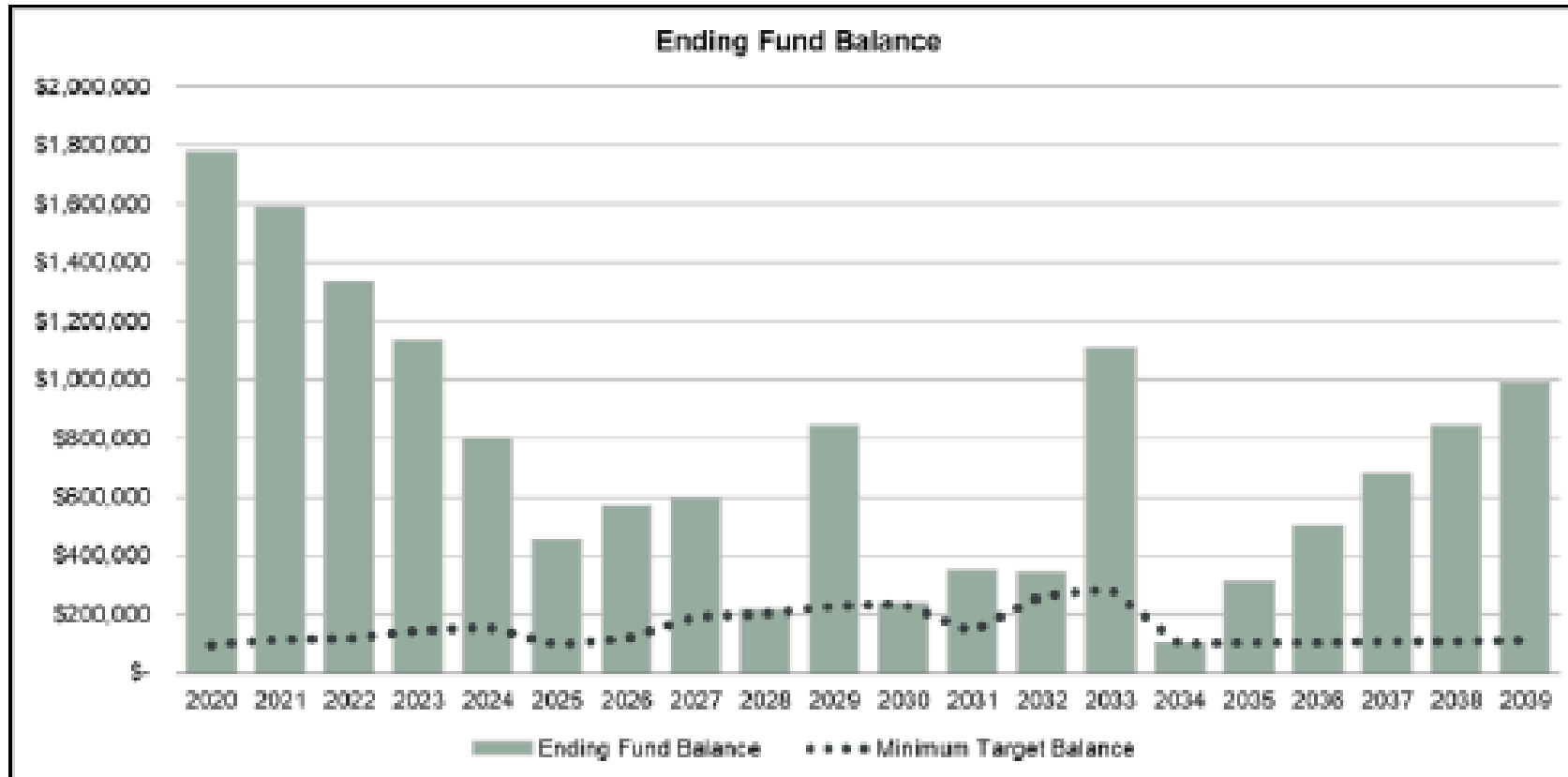
## Review of Operating Requirements

- 20 Year Planning Period
- Cash
- Financial Policy Requirements
- Debt Service

## System Development Charges

- Reimbursement Fee
- Improvement Fee

# Financial Analysis-Target Balances



# Questions

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421 SW 6th Avenue, Suite 1000  
Portland, Oregon 97204  
503-423-4000

In Coordination with:  
Barney & Worth, Inc.  
FCS Group

## **Stormwater and Drainage Master Plan**

19 November 2020

Prepared for  
**The City of Ashland**  
20 East Main Street  
Ashland, Oregon 97520

KJ Project No. 1796053\*00