AGENDA

SPECIAL CITY COUNCIL MEETING
MAY 26, 2026
5:30 p.m.

CITY HALL COUNCIL CHAMBER
313 COURT STREET
&
LIVE STREAMED
https://www.thedalles.org/Live_Streaming

To speak online, register with the City Clerk no later than noon the day of the council meeting. When registering include: your full name, city of residence, and the topic you will address.

Upon request, the City will make a good faith effort to provide an interpreter for the deaf or hard of hearing at regular meetings if given 48 hours' notice. To make a request, please contact the City Clerk and provide your full name, sign language preference, and any other relevant information.

Contact the City Clerk at (541) 296-5481 ext. 1119 or amell@thedalles.gov

1. CALL TO ORDER
2. ROLL CALL OF COUNCIL
3. PLEDGE OF ALLEGIANCE
4. APPROVAL OF AGENDA
5. AUDIENCE PARTICIPATION

   During this portion of the meeting, anyone may speak on any subject which does not later appear on the agenda. Interested citizens are required to sign up in advance to be recognized. Up to three minutes per person will be allowed. Citizens are encouraged to ask questions with the understanding that the City can either answer the question tonight or refer that question to the appropriate staff member who will get back to you within a reasonable amount of time. If a response by the City is requested, and that response is not immediately provided, the speaker will be referred to the City Manager for further action.

6. CITY MANAGER REPORT
7. CITY COUNCIL REPORTS
8. CONSENT AGENDA

   Items of a routine and non-controversial nature are placed on the Consent Agenda to allow the City Council to spend its time and energy on the important items and issues. Any Councilor may request an item be “pulled” from the Consent Agenda and be considered separately. Items pulled from the Consent Agenda will be placed on the Agenda at the end of the “Action Items” section.

A. Approval of the April 27, 2026 Regular City Council Meeting Minutes

B. Approval of the April 30, 2026 Special City Council Meeting Minutes

C. Resolution No. 26-017 Assessing the Real Property Located at 3604 West 8th Street the Cost of Nuisance Abatement

D. Resolution No. 26-018 Assessing the Real Property Located at 1721 East 10th Street the Cost of Nuisance Abatement

E. Resolution No. 26-019 Fourth Lease Addendum to Lease Agreement with Meadow Outdoor Advertising

F. Project No. 2025-014 Change Order with Ajax Northwest LLC for additional waterline utility installation work for the First Street Streetscape Project

9. ACTION ITEMS

A. Water Management and Conservation Plan Update – July 2025Plan Adoption

10. DISCUSSION ITEMS

A. Wastewater Facilities Master Plan Update CIP Presentation and Discussion

11. EXECUTIVE SESSION

In accordance with ORS 192.660(2)(d) to conduct deliberations with persons designated by the governing body to carry on labor negotiations and; ORS 192.660(2)(i) to review and evaluate the employment related performance of the chief executive officer, or contract employee who does not request an open hearing

A. Recess Open Session

B. Reconvene Open Session

C. Decision, if any

12. ADJOURNMENT

Prepared by/ Amie Ell, City Clerk

CITY of THE DALLES
313 COURT STREET
THE DALLES, OREGON 97058

(541) 296-5481
FAX (541) 296-6906

AGENDA STAFF REPORT

AGENDA LOCATION: Item #8 A - F

MEETING DATE: May 26, 2026

TO: Honorable Mayor and City Council

FROM: Amie Ell, City Clerk

ISSUE: Approving items on the Consent Agenda and authorizing City staff to sign contract documents.

A. **ITEM**: Approval of the April 27, 2026 Regular City Council meeting minutes.

BUDGET IMPLICATIONS: None.

SYNOPSIS: The minutes of the April 27, 2026 Regular City Council meeting have been prepared and are submitted for review and approval.

RECOMMENDATION: Review and approve the minutes of the April 27, 2026 Regular City Council meeting minutes.

B. **ITEM**: Approval of the April 30, 2026 Special City Council meeting minutes.

BUDGET IMPLICATIONS: None.

SYNOPSIS: The minutes of the April 30, 2026 Special City Council meeting have been prepared and are submitted for review and approval.

RECOMMENDATION: Review and approve the minutes of the April 30, 2026 Special City Council meeting minutes.

C. **ITEM**: Resolution No. 26-017 Assessing the Real Property Located at 3604 West 8th Street the Cost of Nuisance Abatement

BUDGET IMPLICATIONS: None. Any funds received reimburse the City for the cost of abatement.

SYNOPSIS: The Codes Enforcement Officer properly noticed the abatement. The City Clerk sent the cost of abatement notice. The property owner did not pay the assessment within the required time limit.

RECOMMENDATION: Approve Resolution No. 26-017 assessing real property for the cost of abatement.

D. **ITEM**: Resolution No. 26-018 Assessing the Real Property Located at 1721 East 10th Street the Cost of Nuisance Abatement

BUDGET IMPLICATIONS: None. Any funds received reimburse the City for the cost of abatement.

SYNOPSIS: The Codes Enforcement Officer properly noticed the abatement. The City Clerk sent the cost of abatement notice. The property owner did not pay the assessment within the required time limit.

RECOMMENDATION: Approve Resolution No. 26-018 assessing real property for the cost of abatement.

E. **ITEM:** Resolution No. 26-019 Fourth Lease Addendum to Lease Agreement with Meadow Outdoor Advertising

BUDGET IMPLICATIONS: Minor increase to City General Fund Revenue

SYNOPSIS: The City of The Dalles currently leases a portion of City property on West Sixth Street near the 6th St Bridge to Meadow Outdoor Advertising for a billboard. The proposed Fourth Lease Addendum extends the lease period for an additional 10 years beginning June 1, 2026 with a modest increase in the annual lease payment from $650.00 per year to $750.00 per year for the first five (5) years of the extension. The remaining five (5) years of the extension shall have an annual payment of $63.85. Staff has proposed additional language for legal sufficiency and to address potential impacts to future decisions related to the replacement or rehabilitation of the 6th St Bridge.

RECOMMENDATION: Move to approve Resolution No. 26-019 Fourth Lease Addendum to Lease Agreement with Meadow Outdoor Advertising

F. **ITEM:** Authorize the City Manager to execute Change Order No. 1 to Project No. 2025-014 with Ajax Northwest LLC for additional waterline utility installation work for the *First Street Streetscape Project* in an amount not to exceed $137,497.08

BUDGET IMPLICATIONS: Change Order No. 1 would increase the Ajax contract by $137,497.08, from $4,069,727.00 to $4,207,224.08. Because the

proposed Change Order exceeds the City Manager's $100,000 administrative authority, Council approval is required under the City's Local Contract Review Board Rules.

Funding is available within the existing *First Street Streetscape Project* budget (Fund 018-2900-000.75-10), subject to completion of the budgeted transfer from the Columbia Gateway Urban Renewal Agency. Available project funding includes remaining 2009 FFCO bond proceeds, interest revenues, and project contributions. The URA has budgeted an additional $3,200,000 in its Fund 200-6700-000.75-10 for the Project, bringing the total available Project budget to $6,796,085.

Current Project commitments include $4,069,727.00 for the original Ajax construction contract, $243,509.00 for KPFF Consulting Engineers Project/contract administration and engineering oversight, and $663,732.70 for AINW's archaeological monitoring, SHPO compliance, reporting, and related services. If Change Order No. 1 is approved, the total Ajax contract amount will be $4,207,224.08, leaving an estimated remaining Project balance of $1,681,619.22. Sufficient budgetary resources are available to cover the proposed Change Order.

SYNOPSIS: On December 9, 2025, the City entered into a Public Works Agreement with Ajax Northwest LLC (**Ajax**) for construction services for the *First Street Streetscape Project* (**Project**). The original Ajax contract amount is $4,069,727.00.

On December 7, 2025, shortly before major construction activities began, the City experienced a water main break near the Union Street railroad crossing within the Project area. During the repair response, staff identified an existing valve that could not be fully shut down and that would need to be removed to properly abandon the existing 4-inch waterline. Because the affected waterline infrastructure, has had recurring maintenance issues near the rail crossing, is located beneath planned First Street improvements, and is in an area where rail coordination is already part of the Project, staff determined that completing the additional waterline replacement work during the active Project is the most efficient and least disruptive approach. Change Order No. 1 has two components:

1. The first component replaces waterline infrastructure near the Union Street railroad crossing to address maintenance and reliability concerns.

2. The second component addresses additional valve and waterline replacements near Laughlin Street after staff identified existing valves that were failing or likely to fail in the near future. Completing this work during the current Project will reduce the likelihood that the City will need to excavate newly completed First Street improvements to repair the same utility infrastructure later.

Staff recommends approving Change Order No. 1 because the additional work is within the general scope of the original public improvement contract, is tied to

underground utility work already being performed under the Project, and will reduce future utility-failure and re-excavation risk within the completed streetscape corridor.

RECOMMENDATION: Move to authorize the City Manager to execute the Change Order No. 1 to Project No. 2025-014 with Ajax Northwest LLC in an amount not to exceed $137,497.08 for additional waterline utility installation work for the *First Street Streetscape Project*, subject to final form approval by the City Attorney.

MINUTES

CITY COUNCIL MEETING
COUNCIL CHAMBER, CITY HALL
APRIL 27, 2026
5:30 p.m.

VIA ZOOM/ IN PERSON

PRESIDING: Mayor Richard Mays

COUNCIL PRESENT: Tim McGlothlin, Rod Runyon, Scott Randall, Dan Richardson, Ben Wring

STAFF PRESENT: City Manager Matthew Klebes, City Attorney Jonathan Kara, City Clerk Amie Ell, Public Works Director Dale McCabe, Deputy Public Works Director David Mills, Police Chief Tom Worthy, Community Development Director Joshua Chandler, Assistant City Manager/HR Director Brenda Fahey, Finance Director Brita Myer

CALL TO ORDER

The meeting was called to order by Mayor Mays at 5:30 p.m.

ROLL CALL OF COUNCIL

City Clerk Ell conducted Roll Call. McGlothlin, Runyon, Randall, Richardson, Wring, Mays present

PLEDGE OF ALLEGIANCE

Councilor McGlothlin invited the audience to join in the Pledge of Allegiance.

APPROVAL OF AGENDA

It was moved by Councilor Richardson and seconded by Councilor Randall to approve the agenda as presented.

The motion carried 5 to 0; Richardson, Randall, Runyon, Wring, and McGlothlin voting in favor; none opposed; none absent.

PRESENTATIONS PROCLAMATIONS

Mid-Columbia Housing Authority Updates

Mid-Columbia Housing Authority Executive Director Karen Long and Director of Real Estate Development Sergio Garcia provided a presentation regarding affordable housing programs and development projects in the region. The presentation included an overview of the Housing Choice Voucher Program, resident services, financial education and savings programs, affordable housing preservation efforts, and homeownership assistance programs.

Long reported the agency currently distributes approximately $750,000 monthly in federal rental assistance payments to private landlords across the region, with approximately half of the assisted households located in The Dalles.

Garcia provided information regarding the proposed Lupin Hills Apartments project on Chenowith Loop Road, which would include seventy-six affordable housing units serving veterans and families. Twenty units would be reserved for veterans. The project would also include on-site resident services through partnerships with regional service providers.

AUDIENCE PARTICIPATION

Steve Kane, owner of the Bargeway Pub, addressed Council regarding the Webber Street closure associated with the Westside Interceptor Phase 2 project. He said the closure had significantly impacted business access and customer traffic to the Port area and requested reconsideration of controlled one-way flagged access through the construction zone. He noted substantial declines in business revenue following the closure and expressed concern regarding impacts to seasonal employment and business sustainability.

Nolan Hare, Bargeway manager also addressed Council regarding detour routes, signage, and traffic impacts associated with the closure. Mr. Hare stated the current detour routes were difficult for customers to navigate and requested restoration of controlled access through the work area.

Council discussed traffic management, signage improvements, project scheduling, access routes to the Port area, and balancing business impacts with construction timelines and safety requirements.

City Manager Klebes said the City's objective had been to maintain two access routes to the Port area throughout overlapping infrastructure projects. He explained concerns that additional flagging operations and repeated road reconfigurations could extend the overall project schedule and create future conflicts with planned Union Street closures associated with the First Street Streetscaping Project.

Public Works Director McCabe explained that upcoming utility trench work would eventually require full roadway closure due to trench width, excavation depth, and equipment staging requirements.

Council directed staff to continue reviewing signage improvements, communication strategies, and opportunities for temporary access accommodations where feasible.

The meeting recessed at 6:35 p.m.

The meeting reconvened at 6:40 p.m.

CITY MANAGER REPORT

City Manager Matthew Klebes reported;

- Portland Harbor Superfund Site Community Impacts Mitigation Plan: Staff submitted comments on the draft mitigation plan associated with the Portland Harbor Superfund cleanup process. Staff would continue monitoring project milestones and regional transportation impacts associated with cleanup activities.
- League of Oregon Cities Spring Conference: He attended the conference in Pendleton with several Councilors. Conference discussions included artificial intelligence in local government, municipal finance challenges, property tax limitations, 9-1-1 funding, prevailing wage requirements, and potential legislative priorities for Oregon cities.
- League of Oregon Cities Finance and Taxation Policy Committee: He continued participation in policy discussions regarding financial constraints facing Oregon cities. Topics included state revenue limitations, municipal cost pressures, and potential legislative solutions.
- Roundabout Art Project: He met with representatives from The Dalles Art Center regarding replacement of the existing roundabout murals with a new art installation. The project would be completed in partnership with Columbia Gorge Community College's welding program. Funding support had been secured through grants, Google contributions, and City funding. Completion of the project before the end of the calendar year.
- Q-Life Broadband Expansion: Staff attended a Q-Life Board meeting regarding implementation of Broadband Equity, Access, and Deployment (BEAD) grant funding. Discussions included continued broadband infrastructure expansion within The Dalles.
- Federal Street Plaza Project: Staff executed the construction contract for the Federal Street Plaza Project. A project coordination meeting with Walker Macy was scheduled to begin implementation planning and contractor coordination activities.
- Federal Street Plaza Commemorative Bricks: City Manager Klebes clarified previous public comments made regarding commemorative bricks located near the Transportation Building. He stated prior comments referenced the physical composition of the bricks and

concerns regarding possible damage during removal efforts. City Manager Klebes expressed appreciation for volunteer contributions associated with the Transportation Building project and local historic preservation efforts.

CITY COUNCIL REPORTS

Councilor Wring reported;

- Attendance at the Urban Renewal Agency budget meeting, Federal Street Plaza Committee meeting, City briefing session, and wastewater treatment facility tour.
- Federal Street Plaza Committee discussion regarding commemorative bricks and historic elements near the Transportation Building.
- Support for improved detour communication, signage, and collaboration with community partners to assist businesses impacted by the Weber Street closure.

Councilor McGlothlin reported;

- Participation in a Coffee Break radio appearance with Mayor Mays.
- Attendance at a City briefing session.
- Participation in the Cherry Festival parade representing the Mayor.
- Presentation of the Mayor's Parade Award to The Dalles High School marching band.
- Support for additional communication and signage related to construction impacts affecting Port-area businesses.

Councilor Runyon reported;

- Attendance at a City briefing session, Q-Life Board meeting, League of Oregon Cities Spring Conference, and wastewater treatment facility tour.
- Support for improved detour signage and communication for businesses impacted by the Weber Street closure.
- Conference discussion regarding artificial intelligence, public communication, storytelling, social media outreach, and highlighting City operations and staff work through visual content and online engagement.

Councilor Richardson reported;

- Attendance at the Federal Street Plaza Committee meeting, Urban Renewal Agency meeting, Columbia Cascade Housing Corporation Board meeting, and wastewater treatment facility tour.
- Urban Renewal Agency discussion regarding continued support for the First Street Project and Basalt Commons Project.
- Federal Street Plaza Committee discussion regarding commemorative bricks, volunteer contributions, and historic preservation considerations.

Councilor Randall reported;

- Attendance at a City briefing session, League of Oregon Cities Water and Wastewater Advisory Committee meeting, League of Oregon Cities Spring Conference, Cherry Festival parade, and wastewater treatment facility tour.
- Conference discussion regarding conflict resolution, fire mitigation, artificial intelligence, government ethics, and community engagement strategies.
- Appreciation for staff assistance coordinating parade participation and community activities.

Mayor Mays reported that the meetings and activities he participated in had already been mentioned by other Councilors

CONSENT AGENDA

Richardson requested Item C, authorization for additional archaeological monitoring services associated with the First Street Project, be removed from the Consent Agenda for separate consideration.

It was moved by Wring and seconded by McGlothlin to approve the Consent Agenda as amended.

The motion carried 5 to 0, Wring, McGlothlin, Richardson, Randall, and Runyon voting in favor; none opposed; none absent.

Items approved on the consent agenda were:

A) Approval of the April 14, 2026 Regular City Council Meeting Minutes
B) Resolution authorizing participation in the Discover Card Merchant Settlement
D) Authorization for elevator modernization contract at the library
E) Authorization for elevator modernization contract at the Police Department

CONTRACT REVIEW BOARD ACTIONS

Authorization of Third Amendment to Professional Services Agreement with Archaeological Investigations Northwest

Community Development Director Chandler presented a request to authorize an amendment to the professional services agreement with Archaeological Investigations Northwest for additional archaeological monitoring associated with the First Street Streetscaping Project. He reported the amendment would increase the contract by approximately $146,804 for up to fifty additional monitoring days due to the complexity of excavation activities occurring within multiple archaeological sites along First Street.

Representatives from Archaeological Investigations Northwest explained monitoring requirements, permit obligations, artifact documentation processes, and coordination with the State Historic Preservation Office (SHPO).

City Attorney Kara explained the City was required to comply with state archaeological permitting requirements and approved monitoring plans. He stated failure to comply with permit requirements could expose the City and contractors to legal and regulatory consequences, including project delays, enforcement actions, and potential penalties.

Council discussion included:

- Concerns regarding the increasing cost of archaeological monitoring and overall impacts to the First Street Project budget.
- Questions regarding whether limits existed on monitoring expenditures required by the State.
- Discussion regarding the legal risks and liabilities associated with proceeding without required monitoring.
- Questions regarding how archaeological monitoring was conducted in the field and how many monitors were required at one time.
- Discussion regarding artifact collection, reporting requirements, and transfer of materials to the University of Oregon.
- Concerns regarding long-term project contingencies and possible future budget impacts.
- Discussion regarding balancing historic preservation requirements with public infrastructure needs and responsible use of taxpayer funds.
- Questions regarding whether the requested amendment amount could be reduced or phased to provide additional budget oversight.
- Staff explanation that the amendment was structured as a not-to-exceed amount intended to avoid delays in construction scheduling and future interruptions to excavation work.

Richardson said the expenditures represented significant public funds and expressed frustration regarding the escalating monitoring costs. He stated the Council had a responsibility to carefully scrutinize major project expenses and questioned whether the City effectively had any practical alternative under current state requirements. He was dissatisfied with the cost increase but recognized the City's legal obligations and the need to continue the project.

Randall said the City should preserve historically significant materials when possible and noted archaeological findings could become increasingly important over time as additional historical information becomes available.

Runyon questioned whether the amendment amount could be reduced and requested additional budget oversight and "guard rails" on future spending. He expressed concern regarding authorizing a large not-to-exceed amount without additional Council review.

Chandler responded that the amendment structure was intended to avoid construction delays and interruptions to excavation work during the upcoming construction schedule.

It was moved by Councilor Randall and seconded by Councilor Richardson to authorize the City Manager to execute the third amendment to the professional services agreement with Archaeological Investigations Northwest for additional archaeological monitoring associated with the First Street Streetscaping Project.

The motion carried 4 to 1, Randall, Richardson, Wring, and McGlothlin voting in favor; Runyon opposed; none absent.

ACTION ITEMS

General Ordinance No. 26-1428 – Elections Code Amendments

City Attorney Kara reviewed the staff report.

Kara said the ordinance updated candidate filing deadlines and corrected references to Oregon election statutes to align with current State requirements. He explained the amendments were primarily administrative and intended to ensure the Municipal Code remained consistent with existing State election law and filing timelines.

Discussion included clarification regarding filing deadlines for City Council candidates, coordination with Wasco County Elections, and the City Clerk's role as Elections Officer for City elections.

Kara said the ordinance did not create major policy changes but instead updated outdated language and statutory references that no longer aligned with State law requirements.
It was moved by McGlothlin and seconded by Randall to adopt General Ordinance No. 26-1428 by title only.

Ell read the ordinance by title only.

The motion carried unanimously, McGlothlin, Randall, Richardson, Runyon, and Wring voting in favor; none opposed; none absent.

DISCUSSION ITEMS

Local Agency and Nonprofit Funding Request Program

City Manager Matthew Klebes reviewed the staff report.

Council discussion included:

- Support for creating a process that treated applicants more consistently from year to year.
- Concern regarding balancing community benefit requests with increasing pressure on the City's general fund and operational costs.
- Interest in establishing clearer expectations regarding how awarded funds were used and reported back to the City.
- Support for separating nonprofit funding discussions from the compressed timeline of annual budget adoption.
- Interest in creating a process that allowed organizations to better prepare applications and understand evaluation criteria in advance.

Richardson said the City regularly received requests from organizations providing valuable community services, but Council often lacked a consistent framework for comparing requests or evaluating long-term funding expectations.

Runyon said a standardized process could help improve fairness and transparency for both Council and community organizations. He also expressed support for developing measurable expectations regarding community benefit and use of City funds.

Randall said community organizations provided important local services and events, but the City also needed to ensure funding decisions remained financially sustainable and aligned with broader City priorities.

McGlothlin expressed support for a process that would improve communication and reduce uncertainty for organizations applying for City support.

General consensus supported continued development of the revised process and returning with additional information during the upcoming budget process.

EXECUTIVE SESSION

In accordance with ORS 192.660(2)(h) to consult with legal counsel concerning legal rights and duties regarding current litigation or litigation likely to be filed.

Mayor Mays recessed Open Session at 8:22 p.m.

Mayor Mays reconvened Open Session at 8:44 p.m.

Runyon provided additional comments regarding sessions attended during the League of Oregon Cities Spring Conference in Pendleton. He said one session focused on responsible use of artificial intelligence in municipal government. Presenters discussed how artificial intelligence

technologies were advancing rapidly and emphasized the importance of staff understanding basic terminology, critical thinking, communication skills, and responsible implementation practices. Presenters believed properly trained staff in smaller communities could significantly expand operational capacity through effective use of artificial intelligence tools. He also noted discussion regarding the importance of remaining cautious and ensuring critical thinking was not replaced by technology.

Mayor Mays commented that the conference session had shifted from discussion about what artificial intelligence could do for local governments toward broader discussion regarding concerns about how artificial intelligence may impact society and government operations in the future.

ADJOURNMENT

Being no further business, the meeting adjourned at 8:57 p.m.

_____

Submitted by/
Amie Ell, City Clerk

SIGNED: _____
Richard A. Mays, Mayor

ATTEST: _____
Amie Ell, City Clerk

MINUTES

SPECIAL CITY COUNCIL MEETING
COUNCIL CHAMBER, CITY HALL
APRIL 30, 2026
5:30 p.m.

VIA ZOOM/ IN PERSON

PRESIDING: Mayor Richard Mays

COUNCIL PRESENT: Tim McGlothlin, Rod Runyon, Scott Randall, Dan Richardson, Ben Wring

STAFF PRESENT: City Manager Matthew Klebes, City Attorney Jonathan Kara, City Clerk Amie Ell, Public Works Director Dale McCabe, Deputy Public Works Director David Mills, Police Chief Tom Worthy, City Engineer Michael Bosse, Assistant City Manager/HR Director Brenda Fahey

CALL TO ORDER

The meeting was called to order by Mayor Mays at 5:30 p.m.

ROLL CALL OF COUNCIL

City Clerk Ell conducted Roll Call. McGlothlin, Runyon, Randall, Richardson, Wring, Mays present.

PLEDGE OF ALLEGIANCE

Councilor Runyon invited the audience to join in the Pledge of Allegiance.

APPROVAL OF AGENDA

It was moved by Wring and seconded by Randall to approve the agenda as presented.

Motion carried 5 to 0: Wring, Randall, Richardson, Runyon, McGlothin voting in favor; none opposed; none absent.

EXECUTIVE SESSION

In accordance with ORS 192.660(2)(h) to consult with counsel concerning the legal rights and duties of the City with regard to current litigation or litigation likely to be filed; and ORS 192.660(2)(f) to consider information or records exempt by law from public inspection.

Mayor Mays recessed Open Session at 5:33 p.m.

Mayor Mays reconvened Open Session at 6:51 p.m.

CONTRACT REVIEW BOARD ACTIONS

Westside Interceptor Phase 2 Project Contract Action

Following Executive Session, the City Manager provided additional information requested by the Council during the April 27, 2026 Council meeting regarding community impacts associated with the Webber Street closure.

Klebes describe the five evaluated options:

1. Maintain the current project schedule with no changes;
2. Temporarily reopen the Webber Street crossing for the weekend;
3. Accelerate the project schedule;
4. Implement phased utility installation to allow flagging operations; and
5. Increase signage and public notification efforts.

Klebes provided additional information about the evaluated options:

- Temporarily reopening Webber Street for the weekend would add four calendar days to the project schedule and an estimated cost of $18,359.
- Accelerating the project schedule would reduce the project duration by approximately nine calendar days at an estimated cost not to exceed $118,000.
- Implementing phased utility installation and flagging operations would extend the project schedule by approximately 50 calendar days with an estimated cost of $504,850.
- Additional City-owned and rented signage was already being implemented under the City Manager's spending authority at an estimated cost of approximately $9,728.

Council discussed balancing project impacts to the community with overall project completion timelines and costs. The Council expressed support for accelerating the project schedule to reduce the duration of the Webber Street closure.

It was moved by Randall and seconded by Richardson to authorize the City Manager to execute a

written change order with Crestline Construction for schedule acceleration on the West Side Interceptor Phase 2 Project in an amount not to exceed $118,000, with any contract time adjustment not to exceed nine calendar days, subject to final approval by the City Manager following review by the City Engineer and City Attorney, and if applicable, confirmation by the City Engineer that any revised traffic control plan could be implemented safely to accelerate reopening of the Webber Street crossing.

Motion carried 5 to 0: Randall, Richardson, McLaughlin, Runyon, and Wring voting in favor; none opposed; none absent.

ADJOURNMENT

Being no further business, the meeting adjourned at 6:56 p.m.

Submitted by/
Amie Ell, City Clerk

SIGNED: _____
Richard A. Mays, Mayor

ATTEST: _____
Amie Ell, City Clerk

RESOLUTION NO. 26-017

A RESOLUTION ASSESSING THE REAL PROPERTY LOCATED AT 3604 WEST 8TH STREET THE COST OF NUISANCE ABATEMENT

the City Code Enforcement Officer posted a Notice to Abate Nuisance upon the following listed properties on the dates shown below:

Property	Assessor's Map No.	Date of Posting
3604 West 8th Street	2N 13E 29 DB 4700	March 4, 2026

WHEREAS, according to Wasco County real property records, the following persons are the owners of record for tax purposes of the following listed property:

Property	Owner
3604 West 8th Street	Alexis Gowdy

WHEREAS, the Notice to Abate Nuisance required the removal of junk from the listed property pursuant to the provisions of Section 5.24.040 of The Dalles Municipal Code;

WHEREAS, the Notice to Abate Nuisance further provided if the nuisance conditions were not abated the City would hire a contractor to abate the nuisance conditions, and the costs of the abatement would be charged to the owner of the property, and become a lien upon the property;

WHEREAS, as a result of the owners' failure to abate the nuisance conditions on the property, the City hired the following listed contractor, who abated the nuisance conditions on the dates listed below, for the costs listed below:

Property	Contractor	Date of Abatement	Cost
3604 West 8th Street	Rod Huante	April 14, 2026	$1,445.00

WHEREAS, pursuant to Section 5.24.070 of The Dalles Municipal Code, on April 15, 2026, the City Clerk sent a Notice of Assessment by certified mail to Alexis Gowdy advising them the total cost of the assessment for the property was $1,445.00, and the listed sum would become a lien upon the property if the amount was not paid by April 30, 2026, or the assessment was not protested by April 20, 2026 by Brenda Green;

WHEREAS, Brenda Green failed to file any objection by the stated deadline and failed to pay the balance of the assessment by the deadline listed in the Notices of Assessment, and the City Council finds the statement of the amount of the proposed assessments is correct and no reason exists to justify any delay in proceeding with the imposition of a lien upon the properties for the cost of the assessments.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF THE DALLES RESOLVES AS FOLLOWS:

Section 1. Assessment. The cost of the abatements of the nuisance conditions for the following property:

Name/Address	Description	Final Assessment
Brenda Green	2N 13E 29 DB 4700	$1,445.00

The legal description for the properties is shown in the list of descriptions attached to and made part of this Resolution as Exhibit "**A**".

Section 2. Docket Entry. Upon passage of this Resolution and its approval by the Mayor, the following information shall be entered into the City Electronic Lien Docket:

a. The foregoing legal description of the property assessed.

b. The names of the owners or a statement the owners are unknown.

c. The sum assessed upon each lot or tract of land.

d. The date of the docket entry.

Section 3. Notices/Collection of Assessment. The City Clerk is directed to proceed with notice and collection of the assessment in accordance with the procedures prescribed by Oregon law for enforcement of liens and collection of assessments.

Section 4. Effective Date. This Resolution shall be effective upon adoption.

PASSED AND ADOPTED THIS 26TH DAY OF MAY, 2026.

Voting Yes Councilors: _____
Voting No Councilors: _____
Abstaining Councilors: _____
Absent Councilors: _____

AND APPROVED BY THE MAYOR THIS 26TH DAY OF MAY, 2026.

ATTEST:

_____ _____
Richard A. Mays, Mayor Amie Ell, City Clerk

EXHIBIT A

LEGAL DESCRIPTION OF 3604 WEST 8TH STREET

Lot 7, Block A, Garden Lane Second Addition to Wasco County, State of Oregon.

EXHIBIT B

Taxlot **2N 13E 29 DB 4700**

Account Number **2100**
Taxpayer **GOODMAN ALEXIS N**
Mailing Address **3604 W 8TH**
City **THE DALLES**
State **Oregon**
ZIP **97058**

EXHIBIT B

Taxlot **2N 13E 29 DB 4700**
Account Number **2100**
Taxpayer **GOODMAN ALEXIS N**
Mailing Address **3604 W 8TH**
City **THE DALLES**
State **Oregon**
ZIP **97058**

EXHIBIT B

Taxlot **2N 13E 29 DB 4700**

Account Number **2100**
Taxpayer **GOODMAN ALEXIS N**
Mailing Address **3604 W 8TH**
City **THE DALLES**
State **Oregon**

RESOLUTION NO. 26-018

A RESOLUTION ASSESSING THE REAL PROPERTY LOCATED AT 1721 EAST 10TH STREET THE COST OF NUISANCE ABATEMENT

the City Code Enforcement Officer posted a Notice to Abate Nuisance upon the following listed properties on the dates shown below:

Property	Assessor's Map No.	Date of Posting
1721 East 10th Street	1N 13E 2 CB 5000	February 9, 2026

WHEREAS, according to Wasco County real property records, the following persons are the owners of record for tax purposes of the following listed property:

Property	Owner
1721 East 10th Street	Brenda Green

WHEREAS, the Notice to Abate Nuisance required the removal of junk from the listed property pursuant to the provisions of Section 5.24.040 of The Dalles Municipal Code;

WHEREAS, the Notice to Abate Nuisance further provided if the nuisance conditions were not abated the City would hire a contractor to abate the nuisance conditions, and the costs of the abatement would be charged to the owner of the property, and become a lien upon the property;

WHEREAS, as a result of the owners' failure to abate the nuisance conditions on the property, the City hired the following listed contractor, who abated the nuisance conditions on the dates listed below, for the costs listed below:

Property	Contractor	Date of Abatement	Cost
1721 East 10th St	A Life with Trees LLC	March 11, 2026	$2,105.00

WHEREAS, pursuant to Section 5.24.070 of The Dalles Municipal Code, on April 24, 2026, the City Clerk sent a Notice of Assessment by certified mail to Brenda Green advising them the total cost of the assessment for the property was $2,105.00, and the listed sum would become a lien upon the property if the amount was not paid by May 9, 2026, or the assessment was not protested by April 29, 2026 by Brenda Green;

WHEREAS, Brenda Green failed to file any objection by the stated deadline and failed to pay the balance of the assessment by the deadline listed in the Notices of Assessment, and the City Council finds the statement of the amount of the proposed assessments is correct and no reason exists to justify any delay in proceeding with the imposition of a lien upon the properties for the cost of the assessments.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF THE DALLES RESOLVES AS FOLLOWS:

Section 1. Assessment. The cost of the abatements of the nuisance conditions for the following property:

Name/Address	Description	Final Assessment
Brenda Green	1N 13E 2 CB 5000	$2,105.00

The legal description for the properties is shown in the list of descriptions attached to and made part of this Resolution as Exhibit "**A**".

Section 2. Docket Entry. Upon passage of this Resolution and its approval by the Mayor, the following information shall be entered into the City Electronic Lien Docket:

a. The foregoing legal description of the property assessed.

b. The names of the owners or a statement the owners are unknown.

c. The sum assessed upon each lot or tract of land.

d. The date of the docket entry.

Section 3. Notices/Collection of Assessment. The City Clerk is directed to proceed with notice and collection of the assessment in accordance with the procedures prescribed by Oregon law for enforcement of liens and collection of assessments.

Section 4. Effective Date. This Resolution shall be effective upon adoption.

PASSED AND ADOPTED THIS 26TH DAY OF MAY, 2026.

Voting Yes Councilors: _____
Voting No Councilors: _____
Abstaining Councilors: _____
Absent Councilors: _____

AND APPROVED BY THE MAYOR THIS 26TH DAY OF MAY, 2026.

ATTEST:

_____ _____
Richard A. Mays, Mayor Amie Ell, City Clerk

EXHIBIT A

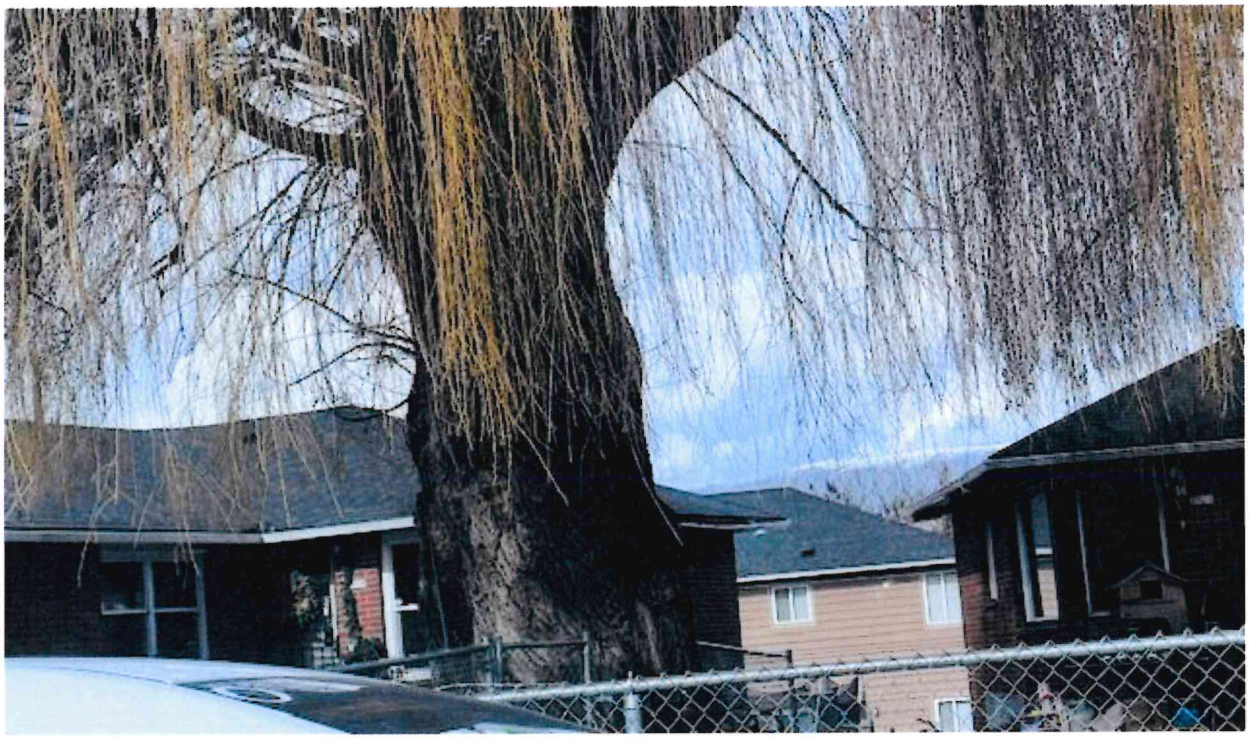
LEGAL DESCRIPTION OF 1721 EAST 10TH STREET

Lot 13, Block 1 of MAIER AND CREIGHTON'S FIRST ADDITION to Dalles City, Wasco County, State of Oregon.

02/17/2026 Tree Abatement 1717 / 1723 East 10th Street

Taxlot **1N 13E 2 CB 5100** Account Number **2845**
Taxpayer **VISTA RIDGE LLC** Mailing Address **654 HUNTER RD HR 97031**

Taxlot **1N 13E 2 CB 5000** Account Number **2846**
Taxpayer **GREEN BRENDA L** Mailing Address **250 LONE PINE LN #3 TD 97052**



RESOLUTION NO. 26-019

A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE THE FOURTH ADDENDUM TO LEASE AGREEMENT WITH JR ZUKIN DBA MEADOW OUTDOOR ADVERTISING

WHEREAS, the City and JR Zukin, a California corporation dba Meadow Outdoor Advertising (**Lessee**), entered into that certain *Lease Agreement* dated June 1, 2006, for the lease of City real property depicted by Assessor's Map No. 1N 13E 4AB as Tax Lot 2000 on the north line of West 6th Street 100 feet east of Mt. Hood Street;

WHEREAS, the City and Lessee later entered into those certain *First Addendum to Lease Agreement* dated October 30, 2007, *Second Addendum to Lease Agreement* dated November 27, 2007, and *Third Addendum to Lease Agreement* dated May 23, 2016;

WHEREAS, the current lease term expires May 31, 2026, and the proposed *Fourth Addendum to Lease Agreement* (**Fourth Addendum**) would extend the lease for an additional ten-year term beginning June 1, 2026, and ending May 31, 2036, revise the annual rent, and preserve the terms of the prior lease and addenda except as expressly modified;

WHEREAS, the proposed Fourth Addendum expressly subordinates the lease to the City's bridge, right-of-way, utility, access, traffic-control, and other public-improvement needs, including public improvements associated with the West Sixth Street Bridge;

WHEREAS, ORS Chapter 271 authorizes the City, acting through the City Council, to lease real property for up to 99 years when the public interest may be furthered, provided the lease is authorized by ordinance or order and contains terms and conditions fixed and determined by the City Council; and

WHEREAS, the City Council finds that the proposed Fourth Addendum furthers the public interest by preserving lease revenue while protecting the City's bridge, right-of-way, utility, access, and other public-improvement needs.

NOW, THEREFORE, THE COUNCIL OF THE CITY OF THE DALLES RESOLVES AS FOLLOWS:

Section 1 Findings Adopted. The City Council hereby adopts the recitals above as findings in support of this Resolution.

Section 2 Public Interest and Lease Terms. The City Council finds that the Fourth Addendum furthers the public interest under ORS 271.310 and the City Council approves, fixes, and determines the terms and conditions of the Fourth Addendum substantially in the form attached as **Exhibit A**.

Section 3 Order. This Resolution constitutes the City Council's order authorizing the Fourth Addendum for purposes of ORS 271.360.

Section 4 City Manager Authorized. The City Manager is authorized to execute the Fourth Addendum substantially in the form attached as **Exhibit A**. The City Manager, in consultation with the City Attorney, may make clerical corrections and nonmaterial changes necessary to finalize the Fourth Addendum, provided that no correction or change materially increases the City's obligations, materially reduces the City's public-improvement protections, or changes the approved lease term or rent without further City Council authorization.

Section 5 Effective Date. This Resolution is effective upon adoption.

PASSED AND ADOPTED THIS 26TH DAY OF MAY, 2026.

Voting **Yes**	Councilors: _____
Voting **No**	Councilors: _____
Abstaining	Councilors: _____
Absent	Councilors: _____

AND APPROVED BY THE MAYOR THIS 26TH DAY OF MAY, 2026.

_____
Richard A. Mays, Mayor

ATTEST:

_____
Amie Ell, City Clerk

FOURTH ADDENDUM **TO** LEASE AGREEMENT
(Lease No. **98020)**

WHEREAS, the City of The Dalles, a municipal corporation of the State of Oregon, hereinafter referred to as "Lessor", and JR Zukin, a California corporation dba Meadow Outdoor Advertising, hereinafter referred to as "Lessee", entered into a Lease Agreement on June 1, 2006, for the lease of real property described as a portion of the property located on Assessor's Map No. 1N 13E 4AB, Tax Lot 2000; on the north line of West Sixth Street 100 feet East of Mt. Hood Street;

WHEREAS, Lessor and Lessee entered into a First Addendum for the June 1, 2006, Lease Agreement on October 30, 2007, which included a provision for the Lessee to be responsible for payment of any real property taxes assessed against the real property which was the subject of the Lease Agreement;

WHEREAS, Lessor and Lessee entered into a Second Addendum for the June 1, 2006, Lease Agreement on November 27, 2007, which corrected the description for the property which was the subject of the Lease Agreement;

WHEREAS, Lessor and Lessee entered into a Third Addendum for the June 1, 2006, Lease Agreement on May 23, 2016, and the parties mutually agreed upon the terms for renewal and extended the term of the Lease Agreement for an additional ten-year term to May 31, 2026;

WHEREAS, Lessor anticipates that the premises and the existing outdoor advertising sign may be affected by public improvements, including, without limitation, the repair, replacement, reconstruction, relocation, removal, widening, maintenance, operation, or construction of the West Sixth Street Bridge and related streets, approaches, sidewalks, utilities, staging areas, temporary construction areas, traffic control, access, and other appurtenant work; and

WHEREAS, the City Council has determined that this Fourth Addendum furthers the public interest under ORS 271.310 and has authorized execution of this Fourth Addendum by Resolution No. 26-019 adopted at its May 25, 2026, regular meeting.

NOW, THEREFORE, in consideration of the mutual promises set forth in this Fourth Addendum, it is mutually agreed as follows:

1. Subject to Lessor's rights under the Lease Agreement as amended by this Fourth Addendum, including Lessor's relocation and termination rights, the Lease Agreement shall be extended for a period of ten (10) years beginning on June 1, 2026, and terminating on May 31, 2036.

2. Section 3 of the Lease Agreement shall be revised to read as follows:

   The first payment in the amount of $750.00 for the ten (10) year renewal term shall be paid on November 15, 2026, with a similar payment to be made upon the fifteenth (15th) day of November 2027, 2028, 2029, and 2030. Beginning

on November 15, 2031, the annual rental payment shall be increased to $863.85, with a similar payment to be made on the fifteenth (15th) day of November 2032, 2033, 2034, and 2035.

As a condition of renewal of the Lease Agreement for any future additional ten (10) year term, Lessor and Lessee shall mutually agree upon the annual rent to be paid at the beginning of any additional renewal term. Lessor and Lessee agree that upon the five (5) year anniversary of the renewal of an additional ten (10) year term, the parties shall mutually agree upon the rental amount to be paid for the remaining five (5) year balance of any additional renewal term. In the event the Lessor and Lessee cannot mutually agree upon the rental amount to be paid for any future additional ten (10) year renewal term, or upon the rental amount to be paid for the five (5) year balance of any additional renewal term, this Agreement shall expire, and Lessee will be obligated to remove the sign from the premises in accordance with the provisions of this agreement.

3. Section 6 of the Lease Agreement shall be revised to read as follows:

Lessee understands and agrees that the premises are located adjacent to or within an area that may be affected by City public improvements, including (without limitation) the Mill Creek Greenway and the repair, replacement, reconstruction, relocation, removal, widening, maintenance, operation, or construction of the West Sixth Street Bridge and related streets, approaches, sidewalks, utilities, staging areas, temporary construction areas, traffic control, access, and other appurtenant work (collectively, "Public Improvements").

If Lessor determines, in Lessor's sole discretion, that the sign, sign structure, utilities, access, or any related improvements must be moved, modified, de-energized, protected, or removed to facilitate design, permitting, construction, maintenance, repair, replacement, operation, or use of the Public Improvements, Lessee shall, at Lessee's sole cost and expense, complete the required work within the time stated in Lessor's written notice.

If Lessor determines that relocation on the same parcel is feasible and appropriate, Lessee may relocate the sign to a location on the same parcel mutually approved in writing by Lessor and Lessee, subject to all applicable federal, state, and local permits and approvals. If Lessor determines that no mutually acceptable, legally permissible, or operationally feasible relocation is available, or if Lessee fails to complete the required work within the time stated in Lessor's written notice, Lessor may terminate this Lease, or any successor lease agreement, upon thirty (30) days' written notice to Lessee. Lessee shall remove the sign and sign structure and restore the premises within thirty (30) days after receipt of the termination notice, unless Lessor specifies a longer period in writing.

4. Notwithstanding Sections 5, 7, 10, 13, 14, or 17 of the Lease Agreement, or any other provision of the Lease Agreement or prior addenda, Lessee's rights under the Lease Agreement are subordinate to Lessor's ownership and governmental authority to design, permit, construct, maintain, repair, replace, reconstruct, operate, and use public streets, bridges, utilities, rights-of-way, trails, parks, and other public improvements. No construction activity, staging, equipment, materials, traffic

control, utility work, temporary obstruction, permanent improvement, or change in grade, access, visibility, illumination, traffic flow, or view corridor associated with Public Improvements shall constitute a breach of the Lease Agreement, a violation of quiet enjoyment, interference with Lessee's rights, or a basis for damages, rent abatement, refund, relocation payment, just compensation, injunction, or other claim against Lessor, except to the extent expressly required by law and not waivable.

5. This Fourth Addendum is a lease amendment only. It does not grant, approve, or waive any land use approval, building permit, sign permit, electrical permit, right-of-way permit, Oregon Motorist Information Act permit, ODOT approval, franchise, license, or other governmental approval, and it does not limit Lessor's police power or regulatory authority. Lessee remains solely responsible, at Lessee's sole cost, for obtaining and maintaining all approvals required for construction, maintenance, alteration, relocation, illumination, operation, and removal of the sign and sign structure.

6. Lessee shall indemnify, defend, and hold harmless Lessor and its officers, employees, agents, contractors, consultants, and representatives from claims, damages, liabilities, penalties, liens, costs, expenses, and attorney fees to the extent arising out of or related to Lessee's sign, sign structure, utilities, access, permits, advertising copy, relocation, modification, removal, restoration work, breach of the Lease Agreement, or violation of law, except to the extent caused by Lessor's negligence or willful misconduct.

7. No assignment, sublease, license, transfer, or other arrangement by Lessee shall release Lessee from any obligation under the Lease Agreement. Any assignee, sublessee, licensee, transferee, billboard owner, permit holder, advertiser, or other person claiming by or through Lessee is subject to this Fourth Addendum, including the Public Improvements provisions, relocation and removal obligations, and waiver and release provisions.

8. Except as expressly modified by this Fourth Addendum, the Third Addendum entered into on May 23, 2016, the Second Addendum entered into on November 27, 2007, and the First Addendum entered into on October 30, 2007, the terms and conditions of the June 1, 2006, Lease Agreement shall remain in full force and effect. For avoidance of doubt, Section 19 added by the First Addendum remains in full force and effect. If any provision of this Fourth Addendum conflicts with any provision of the Lease Agreement or prior addenda, this Fourth Addendum controls.

Dated this _____day of May, 2026.

Each person signing this Fourth Addendum represents that the person has authority to bind the party on whose behalf the person signs.

CITY OF THE DALLES	JR ZUKIN dba MEADOW OUTDOOR ADVERTISING
By:_____	By:_____
Matthew Klebes, City Manager	J. Chris Zukin, President

CITY OF THE DALLES
CONTRACT CHANGE ORDER

PROJECT NAME:	CONTRACT NO.:
First Street Streetscape Project	**2025-014**
LOCATION: East 1st Street, Union Street to Laughlin Street, The Dalles, Oregon	**PROJECT MANAGER**: Michael H. Bosse, PE, City Engineer
CONTRACTOR NAME & ADDRESS: Ajax Northwest LLC, 3305 Lingren Road, Hood River, OR 97031	**CHANGE ORDER:** 1

CHANGE TYPE: [ ] Time-Only (No Cost Change) **[X] Cost-Only** (No Time Change) **[ ] Both Cost and Time Changes**

THIS CONTRACT IS HEREBY MODIFIED AS FOLLOWS:

Contractor shall furnish and install additional waterline utilities and related restoration associated with RFI 5.1, as described in this Change Order and **Exhibit A**. The changed Work includes additional waterline components, valves, connections, hydrant work, excavation, backfill, aggregate, flagging, railroad flagging, curb and gutter, asphalt pavement restoration, and all related labor, equipment, materials, coordination, incidentals, and subordinate tasks necessary to complete the changed Work. This Change Order does not revise Contract Time, the Completion Date, insurance, bonds, warranties, retainage, prevailing-wage obligations, or any other Contract Documents except as expressly stated here.

SPECIFICATIONS & PROVISIONS: THE WORK TO BE DONE UNDER THIS ORDER IS TO BE PERFORMED, MEASURED, AND PAID FOR IN ACCORDANCE WITH THE TERMS FOR THE ABOVE CONTRACT EXCEPT AS SPECIFICALLY MODIFIED BY THIS CHANGE ORDER AS FOLLOWS: Existing Contract unit prices apply where identified below. Extra work priced as a lump sum is paid only for the changed Work described in this Change Order. Exhibit A is incorporated solely to describe the changed Work and provide cost backup. Contractor proposals, supplier quotes, and third-party terms attached as backup are not incorporated as independent Contract terms and do not modify the Contract Documents.

PAY ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
CO1-01	Direct labor, materials, equipment, and applicable markup for additional waterline utility work per RFI 5.1 and Ajax COP No. 3	1	LS	$64,532.08	$64,532.08
CO1-02	Unit-price work for flagging, railroad flagging, ACP mixture, curb and gutter, 12-inch connections, 12-inch ductile iron pipe, tees, bends, 12-inch gate valves, and hydrant assembly per Ajax COP No. 3	1	LS	$72,965.00	$72,965.00
					$0.00
					$0.00
					$0.00
					$0.00

COST CHANGES

ESTIMATED NET COST OF THIS CO:	**$137,497.08**
ORIGINAL CONTRACT AMOUNT:	$4,069,727.00
AMOUNT OF PREVIOUS COs:	$0.00
ESTIMATED PROJECT COST WITH ALL COs:	**$4,207,224.08**
% OF ORIGINAL CONTRACT AMOUNT FOR THIS CO:	**3.38%**
% OF ORIGINAL CONTRACT AMOUNT FOR ALL COs:	3.38%
CUMULATIVE PRICE IMPACT TO DATE (ALL COs):	$137,497.08

TIME CHANGES

ADJUSTMENT IN CONTRACT TIME WITH THIS CO:	**INCREASE**	**0**	**DAYS**
	DECREASE	**0**	**DAYS**
CUMULATIVE TIME IMPACT TO DATE (ALL COs):		**0**	**DAYS**

THIS CHANGE REVISES (check all that apply):

[ ] SUBSTANTIAL COMPLETION TARGET DATE:	**No change.**
[ ] COMPLETION DATE (Final Completion/Outside Date) to the earlier of Final Acceptance or:	**No change.**
[ ] INTERIM MILESTONE(S):	[ ] Milestone table attached.
[ ] NTP / START DATE:	**N/A**

COMPLETION DATE (if time is adjusted): No change. This Change Order is cost-only and does not revise Contract Time, the Completion Date, Substantial Completion target, interim milestones, NTP/start date, liquidated damages, warranty/correction periods, or any other schedule requirements.

REASON FOR CHANGE ORDER:

During December 2025 water main break repairs and subsequent field coordination, City staff identified existing waterline valves and waterline components within the Project corridor that could not be reliably isolated or were failing or likely to fail. Completing the work during the active Project is the least disruptive and most cost-effective approach because the affected utilities are located beneath planned First Street improvements, related rail coordination is already part of the Project, and future repair would likely require excavation of newly completed streetscape improvements. The changed Work is within the general scope of the original procurement for underground utility and related streetscape construction work and is not a new procurement under OAR 137-049-0910.

General-scope attestation (initial): ____ PM ____ City Eng. This Change is within the general scope of the original procurement and is not a new procurement (OAR 137-049-0910(2), (4)). The City reserves all rights under the Contract Documents, including rights concerning responsibility, payment, performance, warranty, correction, and claims.

SURETY CONSENT

[ ] Performance surety consent attached (**required** if Contract/bond requires; recommended for time-only extensions) Bond No.: _____ Surety: _____

[ ] Payment surety consent attached (**required** if cumulative net increases exceed 25% of the Original Contract Price**;** recommended for time-only extensions >90 days)
Bond No.: _____ Surety: _____

[ ] Copy to Grantor/LAL with short justification; period of performance remains aligned for reimbursement.

CONTRACTOR SIGNATURE DATE	**CHANGE ORDER WAS REQUESTED BY:** City of The Dalles
PROJECT MANAGER SIGNATURE DATE	CITY MANAGER APPROVAL DATE

CHANGE ORDER PROPOSAL

Owner:	**COTD**
ASI/ASK/RFI:	**5.1**
Ajax NW COP:	**3**

Project: **First Street Streetscape Project**
Project No: **252012-OR**
Date: **4/23/2026**

Description:

Add cost to supply and install additional waterline utilities per RFI 5.1. Labor, equipment, and materials associated with added 6" waterline, see attached material invoice for material breakout. Unit cost breakout provided.

LABOR/MATERIAL/EQUIPMENT COST BREAKDOWN:

Direct Labor Total	192.00	man hours	$13,571.20
Material Total			$16,477.00
Special Services			$0.00
Equipment Total			$23,040.00
LABOR, MATERIAL, EQUIPMENT, SERVICES SUBTOTAL:			**$ 53,088.20**

MARKUP & FEE BREAKDOWN

SUBTOTAL BEFORE MARKUP	**MARKUP**		$ 53,088.20
Direct Labor Markup	29.00%		$ 3,935.65
Material Markup	19.00%		$ 3,130.63
Special Services Markup	19.00%		$ -
Equipment Markup	19.00%		$ 4,377.60
		Markup Totals:	*$ 11,443.88*
Unit Costs	0.00%	***Totals:***	*$72,965.00*
SUBTOTAL AFTER MARKUP			$ 64,532.08
		CHANGE ORDER TOTAL:	**$137,497.08**

AJAX NW	Austin Amon	4/23/2026
Subcontractor	Project Manager	Date
General Conctractor	Project Manager	Date

BREAKDOWN SUMMARY

Project: First Street Streetscape Project
Project No: 252012-OR

Conctractor: AJAX NW

COP No: 3

1. CRAFT LABOR COSTS

CRAFT	QUANTITY	UNITS	RATE	EXTENSION
Foreman	32.00	Hours	$79.88	$2,556.16
Superintendent	32.00	Hours	$100.00	$3,200.00
General Laborer	64.00	Hours	$59.23	$3,790.72
Operator	32.00	Hours	$74.18	$2,373.76
Truck Driver (Solo Truck)	32.00	Hours	$51.58	$1,650.56
Overtime		*Hours*		*$0.00*
		1. Craft Labor Total		**$13,571.20**
2. MATERIAL COSTS		**2. Material Total**		**$16,477.00**
3. EQUIPMENT COSTS		**3. Equipment Total**		**$23,040.00**
5. SPECIAL SERVICES		**5. Sub-Sub Total**		**$0.00**
6. UNIT PRICE WORK		**6. Unit Price Work**		**$72,965.00**
		TOTAL COST		**$126,053.20**

BREAKDOWN SUMMARY

First Street Streetscape Project — **COP No. 3**

LABOR BREAKDOWN

DESCRIPTION	QUANTITY	UNITS	Labor Hours	EXTENSION
			Hours	
Foreman	32.00	*MHS*	32.00	$2,556.16
Supt.	32.00	*MHS*	32.00	$3,200.00
General Laborer	64.00	*MHS*	64.00	$3,790.72
Operator	32.00	*MHS*	32.00	$2,373.76
Truck Driver	16.00	*MHS*	16.00	$825.28
	176.00	***Hours***	**Direct Labor Subtotal:**	**$12,745.92**

EQUIPMENT BREAKDOWN

DESCRIPTION	QUANTITY	UNITS	RATE	EXTENSION
Pickup Truck	64.00	*HR*	$40.00	$2,560.00
Excavator	64.00	*HR*	$185.00	$11,840.00
Skid Steer	32.00	*HR*	$75.00	$2,400.00
Loader	32.00	*HR*	$150.00	$4,800.00
Dump Truck	16.00	*HR*	$90.00	$1,440.00
			Subtotal Equipment:	**$23,040.00**

MATERIAL BREAKDOWN

DESCRIPTION	QUANTITY	UNITS	COST	EXTENSION
Water Utilities	1	*LS*	$15,784.00	$15,784.00
Aggregate	42	*Tons*	$16.50	$693.00
				$0.00
			Subtotal Materials:	**$16,477.00**

SPECIAL SERVICES BREAKDOWN

DESCRIPTION	QUANTITY	UNITS	COST	EXTENSION
			Subtotal Subtier Contractors:	**$0.00**

UNIT PRICE BREAKDOWN

DESCRIPTION	QUANTITY	UNITS	RATE	EXTENSION
Bid Item 4 - Flaggers	64	*Hour*	$60.00	$3,840.00
Bid Item 5 - Railroad Flagger Services	4	*EA*	$1,300.00	$5,200.00
Bid Item 50 - Level 3, 1/2" Inch ACPT Mixture	10	*TON*	$100.00	$1,000.00
Bid Item 54 - Concrete Curbs, Curb and Gutter	15	*LF*	$45.00	$675.00
Bid Item 96 - 12 Inch Connection Existing Main	3	*EA*	$2,500.00	$7,500.00
Bid item 98 - 12 Inch Ductile Iron Pipe With Class B Backfill	90	*LF*	$125.00	$11,250.00
Bid Item 99 - Ductile Iron Pipe Tees, 12Inch	1	*EA*	$2,500.00	$2,500.00
Bid Item 100 - Ductile Iron Pipe Bends, 12Inch	2	*EA*	$2,500.00	$5,000.00
Bid Item 102 - 12 Inch Gate Valve	4	*EA*	$6,000.00	$24,000.00
Bid Item 103 - Hydrant Assemblies	1	*EA*	$12,000.00	$12,000.00
				$0.00
			Unit Price Subtotal:	**$72,965.00**

CITY of THE DALLES
313 COURT STREET
THE DALLES, OREGON 97058

(541) 296-5481
FAX (541) 296-6906

AGENDA STAFF REPORT

AGENDA LOCATION: Item # 9A

MEETING DATE: May 26, 2026

TO: Honorable Mayor and City Council

FROM: Dale McCabe, Public Works Director

ISSUE: Water Management and Conservation Plan Update – July 2025 Plan Adoption

BACKGROUND: Water Management and Conservation Plans (WMCPs) provide municipal water suppliers with the guidance and processes necessary for the municipality to manage their water supplies in the most efficient manner possible for meeting their existing and future water demands. Oregon Administrative Rules (OAR) Chapter 690, Division 086 (OAR 690-086), establishes the process and criteria for approving WMCPs required under the conditions of permits, permit extensions and other orders of the Oregon Water Resources Department (OWRD).

The City's first WMCP was approved and issued in 2014. This WMCP meets all OWRD's requirements for providing a 10-year update to the previously approved plan. This plan includes 5-year benchmarks for continuation of annual water audits, system-wide metering, meter testing and maintenance, water rate structuring, water loss analyses, public education, technical and financial assistance programs, supplier financed retrofit or replacement of inefficient fixtures, and water reuse and recycling. The final order approving the City of The Dalles WMCP update was issued by OWRD on April 2, 2026.

The Final Order specifies the following deadlines:

- The plan is effective through: **April 1, 2036.**

- Because the City's water loss is above ten (10) percent, the City is required to submit an analysis identifying potential water loss factors and proposed corrective actions by **April 1, 2028.**

(Note: As part of the data gathering efforts and information compiled for the development of this WMCP, it was determined that the current water loss or "unaccounted for water" total for the City is currently in excess of 10%. It is anticipated that this value is in part due to leaks within the transmission lines between the Wicks Water Treatment Plant and the City's water distribution system and in the distribution system itself, as well as possible inaccuracies in old meters that are yet to be discovered and replaced. These items are just a few potential early suspects that we will be delving into to get a better understanding of identifying the true culprits causing those water losses. As required, over the next two years, we will be diligently investigating all potential water loss sources and then developing the corrective action plan to remedy the situation and eliminate the losses. The requirement by OWRD for this bullet item is to get the City's water loss value below 10%.)

• The City is also required to submit a progress report to the Department by **April 1, 2031,** detailing progress made toward the implementation of conservation benchmarks scheduled in the plan.

• The City must submit an updated Water Management and Conservation Plan to the Department by **October 1, 2035.**

Council adoption of this WMCP is needed so that the OWRD approved and City adopted plan can then be incorporated into and become a part of the future City adopted Comprehensive Plan to ultimately allow the City to be in compliance with the statewide planning goals. Council adoption of the plan will also allow the City to pursue possible grant funding and low interest loan opportunities for all water related infrastructure projects.

BUDGET ALLOCATION: None at this time. Funding for the work required to meet the 5-year benchmarks included in the plan is integrated into the Water Fund budget each year.

ALTERNATIVES:

A. Staff Recommendation: Adopt the 2025 Water Management and Conservation Plan with final order in its entirety.

B. Decline to adopt the 2025 Water Management and Conservation Plan and provide additional direction to staff.

Final

Water Management and Conservation Plan

City of The Dalles

July 2025

Prepared by:

GSI Water Solutions, Inc.
1600 SW Western Boulevard, Suite 240
Corvallis, OR 97333
541.753.0745
www.gsiws.com

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Oregon
Tina Kotek, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone 503 986-0900
Fax 503 986-0904
www.oregon.gov/owrd

April 2, 2025

City of the Dalles
Department of Public Works
Attn: Jill Hoyenga, Regulatory Compliance Manager
1215 West First St.
The Dalles, OR 97058
VIA EMAIL: jhoyenga@ci.the-dalles.or.us

Subject: Water Management and Conservation Plan

Dear Jill:

Please find enclosed the final order approving the City of The Dalles' Water Management and Conservation Plan and authorizing the diversion of water as follows:

- **Up to 24.1 cubic feet per second (cfs) under Permit S-49653, OR**
- **Up to 2,100 acre-feet (AF) under Permit S-53930**

The City of the Dalles (City) has requested the option to access greenlight water under **EITHER** Permit S-49653, **OR** Permit S-53930. Due to the unusual nature of this situation, unique findings have been included in the final order. These include:

1. COL No. 4: Greenlight water under Permits S-49653 and S-53930 may not be used simultaneously. At no time will greenlight water be diverted from both permits with the issuance of this order.

2. COL No. 5: The City of the Dalles will not develop both sources or sell either water source while afforded the opportunity to develop one of the permits under terms of this order.

3. COL No. 6: The City is authorized to develop only one of the two sources. Initiation of diversion under Permit S-49653 shall terminate the greenlight authorization under Permit S-53930. Initiation of diversion under Permit S-53930 shall terminate the greenlight authorization under Permit S-49653.

4. COL No. 7: The City shall notify the Department in writing once it has determined which source it will develop. Upon receipt of that notification, the Department shall issue a superseding final order confirming recission of the greenlight authorization for the unused source.

5. Continued access to the greenlight water authorized by this Final Order is contingent upon the City meeting all applicable conservation benchmarks in its WMCP, including their Annual Water Audit benchmark, which includes a benchmark to reduce water loss to under ten (10) percent, and implementation of the City's Meter Testing and Maintenance Benchmark. Failure to complete these benchmark requirements may result in rescission of the City's authorization to access greenlight water under this Final Order.

The Final Order specifies the following deadlines:

- The plan is effective through: **April 1, 2036**.
- Because the City's water loss is above ten (10) percent, the City is required to submit an analysis identifying potential water loss factors and proposed corrective actions by **April 1, 2028.**
- The City is also required to submit a progress report to the Department by **April 1, 2031**, detailing progress made toward the implementation of conservation benchmarks scheduled in the plan.
- The City must submit an updated Water Management and Conservation Plan to the Department by **October 1, 2035**.
-

NOTE: *The deadline established in the attached final order for submittal of an updated water management and conservation plan (consistent with OAR Chapter 690, Division 086) shall not relieve the City of The Dalles from any existing or future requirement(s) for submittal of a water management and conservation plan at an earlier date as established through other final orders of the Department.*

We appreciate your cooperation in this effort. Please contact me by telephone at 458-253-0597 or by e-mail at tamera.l.smith@water.oregon.gov if you have any questions.

Kind regards,

Tamera Smith

Tamera Smith
Water Management and Conservation Analyst
Water Right Services Division
enclosure
cc: WMCP File
Application S-55346 (Permit S-49653)
Application S-84050 (Permit S-53930)
District 3 Watermaster Bob Wood *via email*
Tim Henkle, GSI, *via email* thenkle@gsiws.com

BEFORE THE WATER RESOURCES DEPARTMENT
OF THE
STATE OF OREGON

In the Matter of the Proposed Water Management and Conservation Plan for City of The Dalles, Wasco County	FINAL ORDER APPROVING A WATER MANAGEMENT AND CONSERVATION PLAN

Authority

OAR Chapter 690, Division 086, establishes the process and criteria for approving water management and conservation plans required under the conditions of permits, permit extensions and other orders of the Department. An approved water management and conservation plan may authorize the diversion and use of water under a permit extended pursuant to OAR Chapter 690, Division 315.

Findings of Fact

1. The City of The Dalles submitted a Water Management and Conservation Plan (plan) to the Water Resources Department (Department) on February 5, 2025. The required statutory fee for review of the plan was received by the Department on February 6, 2025. The plan was required by a condition set forth under the City's previously approved plan (Sp. Or. Vol. 93, Pg. 846), issued on November 25, 2014.

2. The Department published notice of receipt of the plan on February 11, 2025, as required under OAR Chapter 690, Division 086. No comments were received.

3. The Department provided written comments on the plan to the City on April 3, 2025. In response, the City submitted a revised plan on July 7, 2025.

4. The Department reviewed the revised plan and finds that it contains all of the elements required under OAR 690-086-0125 and OAR 690-086-0130.

5. The projections of future water needs in the revised plan demonstrate a need for **EITHER** 24.1 cfs of water available under Permit S-49653 (currently limited to 0.0 cfs), **OR** 2100 AF per year of water available under Permit S-53930 (currently limited to 0.0 AF) to help meet overall projected twenty (20) year demands. These projections are reasonable and consistent with the City's land use plan.

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080, you may petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

6. The system is fully metered, and the rate structure includes a base rate and volumetric charge. **Unaccounted-for water is estimated at 17.5 percent**.

7. Because the City's unaccounted for water exceeds 10 percent, consistent with OAR 690-086-0150(4)(e), the revised plan established the following conservation benchmarks:

    a. Within two (2) years of approval of this plan, the City shall provide the Department with a description of and analysis identifying potential factors for their water loss and selected actions for remedy.

    b. If the above identified analysis and selected actions for remedy do not result in the reduction of water losses to 10 percent or less, within five (5) years of approval of this plan, the City shall develop and implement a water loss control program as required under either OAR 690-086-0150(4)(e)(B)(i) or (ii).

8. The plan includes 5-year benchmarks for continuation of annual water audits, system-wide metering, meter testing and maintenance, water rate structuring, water loss analyses, public education, technical and financial assistance programs, supplier financed retrofit or replacement of inefficient fixtures, and water reuse and recycling.

9. The plan includes 5-year benchmarks for evaluation, development, and implementation of the following conservation measures:

    a. Annual Water Audit

        i. The City intends to add authorized, unmetered uses associated with reservoir draining, fill station use, and water used for pressure testing, chlorinating, and flushing new water main lines to future audits.

        ii. In 2025, the City will conduct an audit of the transmission system which includes fourteen(14) miles of pipeline (two seven-mile lines): The audit will compare volumes diverted at the South Fork Mill Creek as read by the master meters located at the Mill Creek and High transmission pipelines, and the volumes entering the Garrison and Sorosis Reservoirs (the City's distribution system). The audit will incorporate consumption of approximately 200 customers who are served directly from the transmission main, enabling the consumption from these customers to be excluded from water loss volumes.

        iii. If the results of the transmission audit show water loss of ten (10) percent or more, the City will implement measures to reduce leakage and perform follow-up audits periodically to check the efficacy of those measures. One of these measures may include the replacement of the Mill Creek and High transmission lines.

b. Meter Testing and Maintenance

i. Test and repair or replace large meters at a rate of approximately 8 percent per year.

ii. Replace small meters at approximately seven percent per year and identify and replace small meters that have failed.

iii. Continue to test the electronics of master meters annually; and

iv. Replace master meters on a 20-year replacement cycle following installation.

10. The plan identifies the Columbia River, Crow Creek Reservoir, Dog River, and South Fork Mill Creek as the sources of the City's water rights and accurately and completely describes Chinook and Sockeye Salmon as endangered; Steelhead, Chum, Bull Trout, Pacific Eulachon, and Green Sturgeon as threatened; Steelhead and Bull Trout as sensitive critical; West Slope Cutthroat Trout as sensitive vulnerable; and Coastal Cutthroat Trout, Western River Lamprey, Western Brook Lamprey and Pacific Lamprey as sensitive. The Columbia River, Dog River, and South Fork Mill Creek are listed as water quality limited streams.

11. The water curtailment element included in the plan satisfactorily promotes water curtailment practices and includes a list of four stages of alert with concurrent curtailment actions.

12. The diversion of water under **EITHER Permit S-49653 OR Permit S-53930** will be initiated/increased during the next 20 years and is consistent with OAR 690-086-0130(7), as follows:

a. The City of The Dalles has established a schedule to maintain or pursue several water conservation measures which will delay but cannot eliminate the need for increased development under the City's permits.

b. Increased use from either Permit S-49653 OR Permit S-53930 is the most feasible and appropriate supply alternative available to the supplier.

c. The City is aware that it is subject to conditions establishing flows in the Columbia River identified by the Oregon Department of Fish and Wildlife that are necessary to maintain the persistence of listed stream-flow dependent species per OWRD's final order extending the completion to date of Permit S-49653, issued October 16, 2012.

13. As outlined in Finding of Fact #5 above, the City is currently seeking authorization to appropriate water under one of two sources (Permit S-49653 OR Permit S-53930) which are both currently limited to 0.0 cfs/0 AF, respectively.

14. The City's previously approved WMCP, dated November 14, 2014, established a five-year benchmark to implement a system-wide leak repair and replacement program aimed at reducing water loss to no more than 15 percent. The City's progress report, submitted on January 27, 2020, confirmed that these benchmarks were met; however, in accordance with OAR 690-086-0150(4) (e), the City has not demonstrated a sustained reduction in system water loss to under ten (10) percent, and system water loss remains above the original 15 percent target. However, in accordance with OAR 690-086-0120(3), and in light of the conservation benchmarks outlined in the City's 2025 WMCP and its projected 20-year demands, the Department has determined that it may authorize the greenlight water requested under either Permit S-49653 or Permit S-53930; provided, the City meet all applicable conservation benchmarks to retain access to greenlight water under Permit S-49653 OR Permit S-53930.

Conclusion of Law

The Water Management and Conservation Plan submitted by the City of The Dalles is consistent with the criteria in OAR Chapter 690, Division 086.

Now, therefore, it is ORDERED:

Duration of Plan Approval:

1. The City of The Dalles Water Management and Conservation Plan is approved and shall remain in effect until **April 1, 2036**, unless this approval is rescinded pursuant to OAR 690-086-0920.

Development Limitations:

2. The limitation of the diversion of water under Permit S-49653 established by the extension of time approved on October 16, 2012, is modified and, subject to other limitations or conditions of the permit, the City of the Dalles is authorized to divert up to **24.1 cfs** (*out of the total permitted 40.0 cfs*) **under Permit S-49653**; **OR**

3. The limitation of the diversion of water under Permit S-53930 established by the extension of time approved on October 28, 2011, is removed and, subject to other limitations or conditions or the permit, the City of the Dalles is authorized to divert up to **2100 AF** (*out of the total permitted 2100 AF per year*) **under Permit S-53930**.

4. Greenlight water authorized under Permits S-49653 and S-53930 may not be used simultaneously. At no time will greenlight water be diverted from both permits concurrently with the issuance of this order; **AND**

5. The City of the Dalles will not develop both water sources or sell either water source while afforded the opportunity to develop one of the permits under terms of this order; **AND**

6. The City is authorized to develop only one of the two sources. Initiation of diversion under Permit S-49653 shall terminate the greenlight authorization under Permit S-53930. Initiation of diversion under Permit S-53930 shall terminate the greenlight authorization under Permit S-49653.

7. The City shall notify the Department in writing once it has determined which source it will develop. Upon receipt of that notification, the Department shall issue a superseding final order confirming recission of the greenlight authorization for the unused source.

8. Failure to meet the conservation benchmarks listed below may result in the reduction of the quantity of water authorized for diversion under **EITHER** Permit S-49653 **OR** Permit S-53930 during review of the City's next plan update.
    a. Annual Water Audit (Finding of Fact 9(a))
    b. Meter Testing and Maintenance (Finding of Fact 9(b))

Plan Update Schedule:

9. The City of The Dalles shall submit an updated plan meeting the requirements of OAR Chapter 690, Division 086 no later than **October 1, 2035**.

Progress Report Schedules:

10. The City of The Dalles shall submit to the Department an analysis of potential water loss factors and proposed corrective actions as required under OAR 690-086-0150(4) by **April 1, 2028**.
11. The City of The Dalles shall submit a progress report containing the information required under OAR 690-086-0120(4) by **April 1, 2031**.

Other Requirements for Plan Submittal:

12. The deadline established herein for the submittal of an updated Water Management and Conservation Plan (consistent with OAR Chapter 690, Division 086) shall not relieve the City of The Dalles from any existing or future requirement(s) for submittal of a Water Management and Conservation Plan at an earlier date as established through other final orders of the Department.

Dated at Salem, Oregon this day 4/2/2026

Lisa J. Jaramillo, Transfer and Conservation Section Manager for
T . ER, DIRECTOR
Oregon Water Resources

Mailing date: 4/3/2026

Notice Regarding Service Members: Active duty service members have a right to stay these proceedings under the federal service members Civil Relief Act. For more information, contact the Oregon State Bar at 800-452-8260, the Oregon Military Department at 971-453-1175, or the nearest United States Armed Forces Legal Assistance Office through http://legalassistance.law.af.mil. The Oregon Military Department does not have a toll-free telephone number.

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Contents

Index of Exhibits

Appendices

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1. Municipal Water Supplier Plan Elements

This section satisfies OWRD's requirement to provide a list of affected local governments to whom the plan was made available and a proposed date for submittal of an updated plan.

1.1 Introduction

The City of The Dalles (City or The Dalles) is located along the Columbia River, east of Mount Hood in Wasco County and within the Columbia River Gorge National Scenic area. The City has a rich history in the region, operating as a trading hub for the Mid-Columbia Region for over a century. The City was incorporated as Dalles City by act of the Oregon Territorial Legislature on June 26, 1857, and is the third oldest incorporated city in Oregon and is second in population to Portland for cities along the river. The City also offers easy access to numerous recreational opportunities.

The climate of the region is characterized by hot and dry summers and cold, mildly wet winters. Average daily high summer temperatures occur June through September and range from 80 to 90 degrees Fahrenheit. Average temperatures in December through February are in the high 20 degrees Fahrenheit. The region sees most of its annual precipitation occurring in November through March and averages 14.5 inches of precipitation per year with minimal precipitation during the winter.

The City relies primarily on surface water supplies to meet system demand needs. The City relies on several creeks within South Fork Mill Creek watershed that flow into South Fork Mill Creek. In addition, South Fork Mill Creek flow is augmented by water diverted from Dog River, a tributary of Hood River. An impoundment on the South Fork Mill Creek creates the Crow Creek Reservoir. An intake downstream of the reservoir diverts stored water and live flow to the City's water treatment plant (WTP). The City has three groundwater wells that supplement surface water supply during the summer months and provide emergency supplies and three additional wells that provide emergency supplies and may be used to supplement surface water supplies during peak season as needed.

In the 2010s, the City began dedicating substantial time and resources towards water management and conservation measures, an effort that has helped reduce per capita single family residential water consumption. As a result, the City has been able to extend the duration at which its current available water supplies are able to meet future demand.

The purpose of this Water Management and Conservation Plan (WMCP or Plan) is to: (1) guide development, financing, and implementation of water management and conservation policies, programs, and practices that ensure long-term sustainable water use by the City and its customers and (2) assess the City's water supply and document a plan to meet the City's future water needs. This WMCP addresses a 20-year planning period from 2024 to 2044.

1.2 Plan Requirement

This is the City's second WMCP and updates the City's 2014 WMCP. The City's 2014 WMCP was developed in response to final orders approving extensions for Permits S-53930 and S-49653 issued by Oregon Water Resources Department (OWRD) on October 28, 2011, and October 16, 2012, respectively. These final orders included conditions requiring the City to submit a WMCP within three years.

This WMCP was developed to satisfy a condition to submit a WMCP to OWRD per OWRD's final order approving the 2014 WMCP issued on November 14, 2014. This WMCP meets all of OWRD's water management and conservation plan requirements that apply to municipal water providers adopted by the Water Resources Commission effective December 21, 2018, regarding WMCPs.

1.3 Plan Organization

The WMCP is organized into the following sections, each addressing specific sections of OWRD's requirements. Section 2 is a self-evaluation of the City's water supply, water use, water rights and water system. The information developed for Section 2 is the foundation for the sections that follow. The later sections use this information to consider how the City will direct its water conservation and water supply planning efforts. The WMCP also includes appendices with supporting information.

Section
Section 1 – Water Supplier Plan
Section 2 – Water Supplier Description
Section 3 – Water Conservation Element
Section 4 – Water Curtailment Element
Section 5 – Water Supply Element

1.4 Affected Local Governments

The following local governments may be affected by this WMCP:

- Wasco County

Thirty days before submitting this WMCP to OWRD, the City made the draft WMCP available for review by Wasco County (County) along with a request for comments relating to consistency with the County's comprehensive land use plan. No formal comments were provided by the County regarding consistency with the County's land use plan, however informal communication occurred between the City and County regarding sources of supply. In addition, the City provided Chenowith Water People's Utility District (Chenowith PUD) and The Dalles Irrigation District with the draft plan as a courtesy. Letters from the City to these entities are found in Appendix A.

1.5 Plan Update Schedule

The City anticipates submitting an update of this WMCP within 10 years of the final order approving this WMCP. As required by OWRD, a progress report will be submitted within 5 years of the final order.

1.6 Time Extension

The City is not requesting additional time to implement metering or a previous benchmark.

1.7 Water System Master Plan Coordination

Concurrent with development of this WMCP, the City was updating its Water System Master Plan (WSMP). Information common to both documents is consistent between documents. In some cases, the same base data was used, but modifications were made in order to fulfill the unique purposes of this WMCP.

1.8 Terminology

Demand refers to the quantity of treated water delivered to the water distribution system as measured at the meters immediately downstream of the City's WTP installed on the Mill Creek and Highline transmission lines. Demand also refers to water produced from the Lone Pine, Jordan, and Marks Wells located within the City. Water system demands occur as a result of metered consumption, unmetered uses, and water lost to leakage and evaporation, among other factors.

Consumption refers to the portion of water use that is metered and authorized, unmetered volumes of water estimated by the City.

Generally, demand and consumption in municipal systems are expressed in units of million gallons per day (mgd). They may also be expressed in cubic feet per second (cfs) or gallons per minute (gpm). One mgd is equivalent to 1.55 cfs or 694 gpm. For annual or monthly values, a quantity of water is typically reported in million gallons (MG). Water use per person (per capita use) is expressed in gallons per person (per capita) per day (gpcd).

This WMCP uses the following terms to describe specific values of system demands:

- Average day demand (ADD) equals the total annual system input (demand) divided by 365 days.
- Maximum day demand (MDD) equals the highest system demand that occurs on any single day during a calendar year.
- Maximum monthly demand (MMD) in MG equals the highest total monthly demand of the 12 months of a calendar year. MMD in mgd equals the average day demand of the one month with the highest total demand of the 12 months of a calendar year.
- Peaking factors are the ratio of MDD to ADD.

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2. Water Supplier Description

This section satisfies OWRD's requirements to describe the City's water sources, water delivery area and population, water rights, and adequacy and reliability of the existing water supply. This section meets OWRD's requirements to describe the City's customers and their water use, the water system, interconnections and agreements with other water suppliers, and quantification of system leakage.

2.1 Water Sources

The City's primary source of water is surface water from the South Fork Mill Creek and Dog River watersheds. South Fork Mill Creek originates on the east slope of Surveyor's Ridge, in Mill Creek Buttes, about 25 miles southwest of the City. In addition, South Fork Mill Creek flow is augmented by water diverted from Dog River, a tributary of Hood River also to the southwest of the City. Surface water from Dog River, Crow Creek, and South Fork Mill Creek flows into Crow Creek Reservoir, an impoundment created by Crow Creek Dam. Stored water is released at Crow Creek Dam into South Fork Mill Creek and live flow and released stored water are captured 8 miles downstream at the South Fork Mill Creek Intake. This water then flows by gravity a short distance to Wicks WTP from which it is treated and conveyed approximately 7 miles to the City's service area via two transmission lines.

The City has three groundwater wells (Lone Pine, Jordan, Marks Wells) that supplement surface water supply during the summer months and one additional well, Wicks well, that is used only to provide emergency supplies due to low water quality. The Dalles has two additional wells under construction, Riverside wells 1 and 2, that can be used to meet demand using native groundwater or for use in the City's ASR system. The wells draw water from The Dalles Pool aquifer and are located within City limits and The Dalles Critical Groundwater Area.

In 2022, approximately 81 percent of municipal water supply came from the City's surface water sources and 19 percent came from groundwater.

2.2 Interconnections with Other Systems

The City has an emergency intertie with Chenowith PUD located in the western portion of the City's service area (approximately 10th and Perkins). This intertie has a maximum capacity of 1,400 gpm. Chenoweth PUD has its own water supply, and this bi-directional intertie enables both Chenoweth PUD and The Dalles to receive water from the other during water supply shortages.

2.3 Intergovernmental Agreements

The City has one formal intergovernmental agreement related to water supply. The City and Wasco County entered into an intergovernmental agreement on June 19, 1989, concerning the purchase of land, wells, and water rights for the Discovery Center. The parties developed a second intergovernmental agreement regarding ownership and management of the water

system on September 27, 1995, and subsequently amended the agreement on November 13, 1996. Under the terms of this agreement, the County constructed a water and sanitary sewer system for the Service Area, and the City operates and maintains the system. Water service is metered, and the County pays the City to provide operation and maintenance services according to the agreement. Ownership of the infrastructure will be transferred from the County to the City upon satisfaction of the bonded indebtedness from construction of the Discovery Center. The agreement describes the potential for future service connections within the Service Area, including The Dalles Country Club, as well as a potential future interconnection with the municipal water system of the City of The Dalles. The Service Area is currently outside the City's current Urban Growth Boundary.

2.4 Service Area Description and Population

Exhibits 2-1 through 2-3 provide schematics of the City water system. Exhibit 2-1 provides an overview of the system with sources of supply, Exhibit 2-2 shows the City's service area, and Exhibit 2-3 presents a system schematic, complete with key components of the City's distribution system. The service area shown in Exhibit 2-2 includes a significant portion of the City and an area along the transmission line corridor leading to the WTP that includes some residential customers. Chenowith PUD serves some City residents.

To estimate the population within this service area, the City relied on a population estimate produced by Portland State University's Population Research Center (PSU). PSU's estimated population within City limits in 2023 was 16,417. Of this population, the City estimates that approximately 3,000 people are served by Chenowith PUD located within the City limits. The City serves approximately 292 residents outside City limits through 117 residential service connections. Taking into account these adjustments, the City's estimated water service population in 2023 was 13,709.

Exhibit 2-1. Map of Sources of Supply

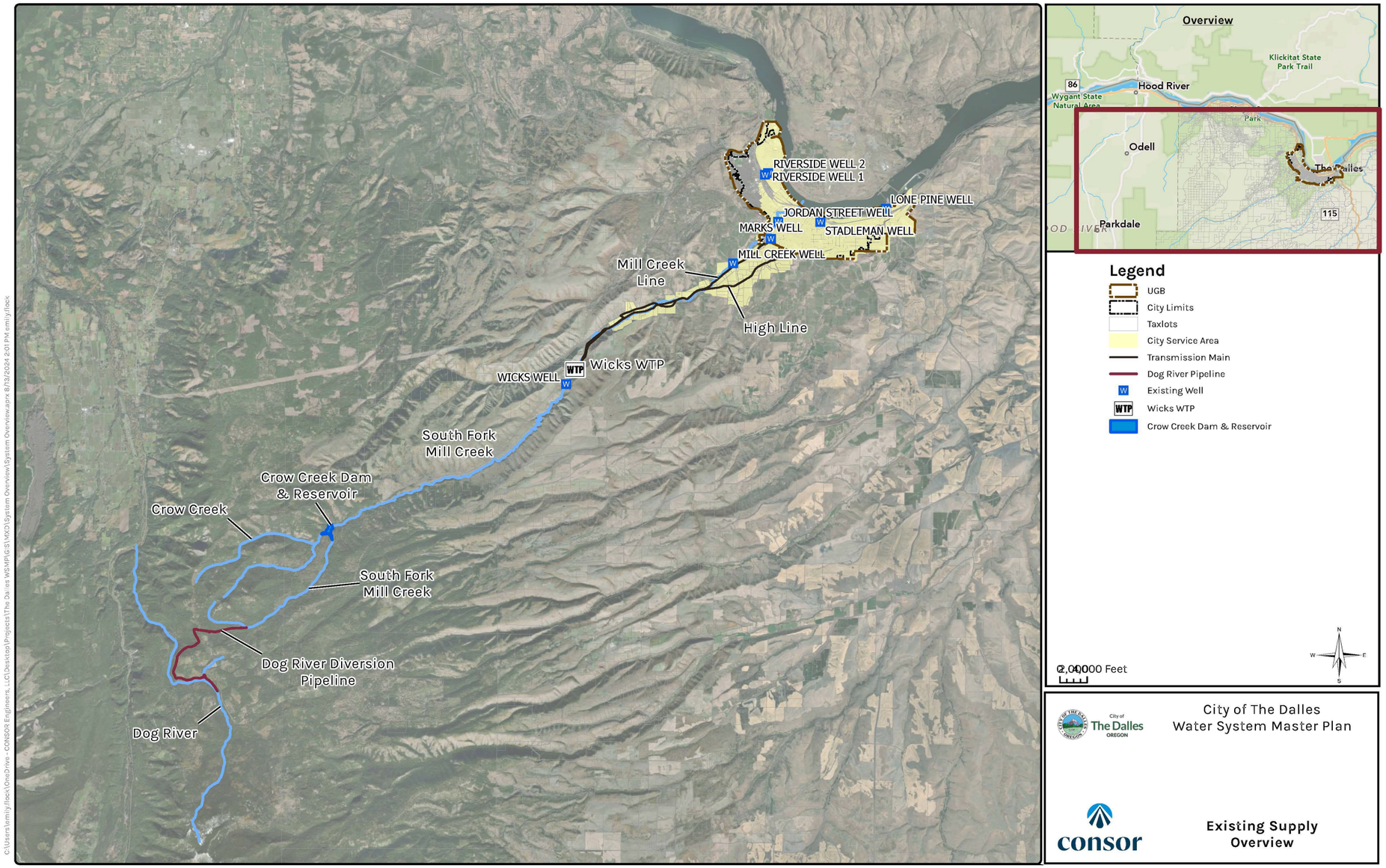
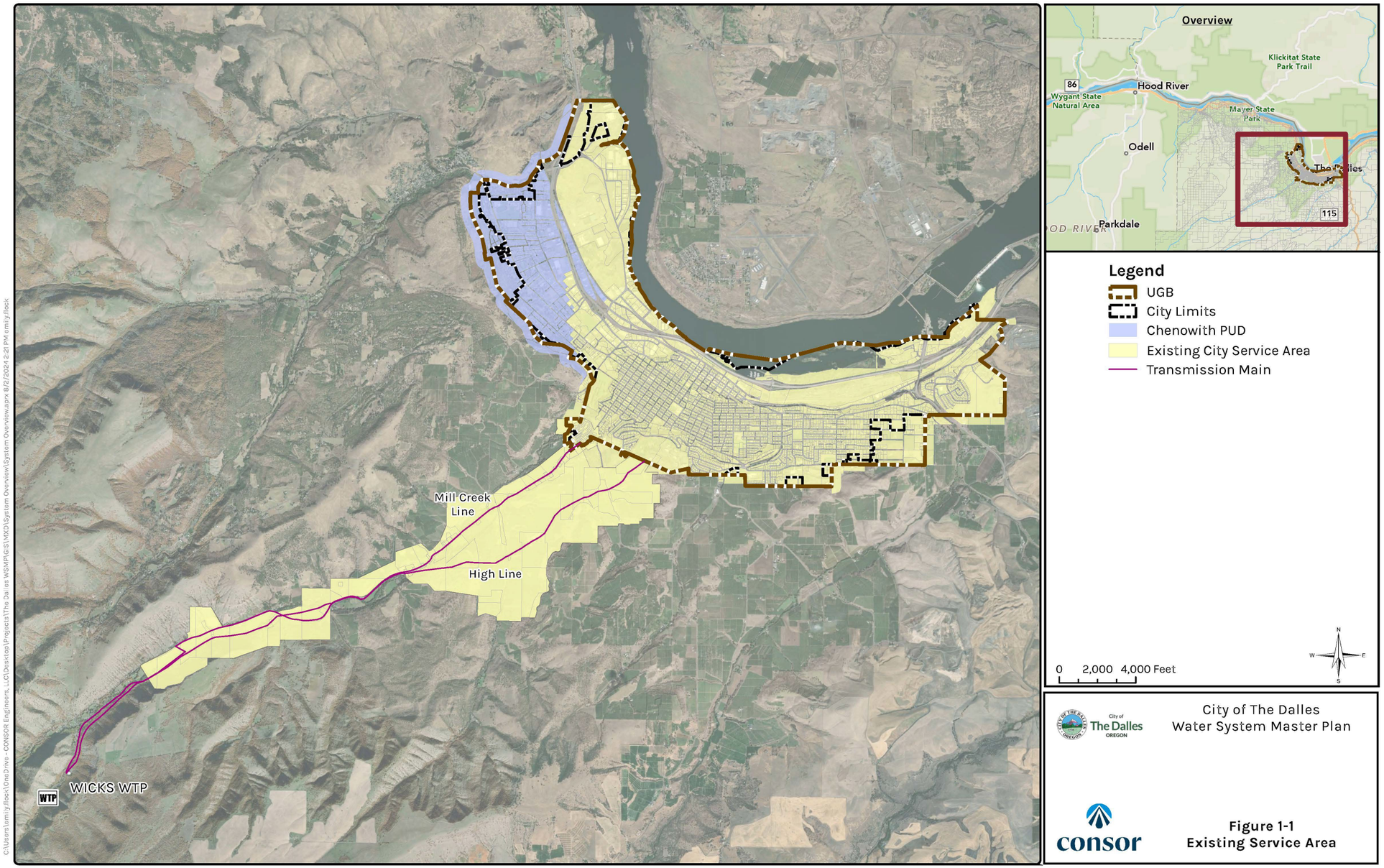
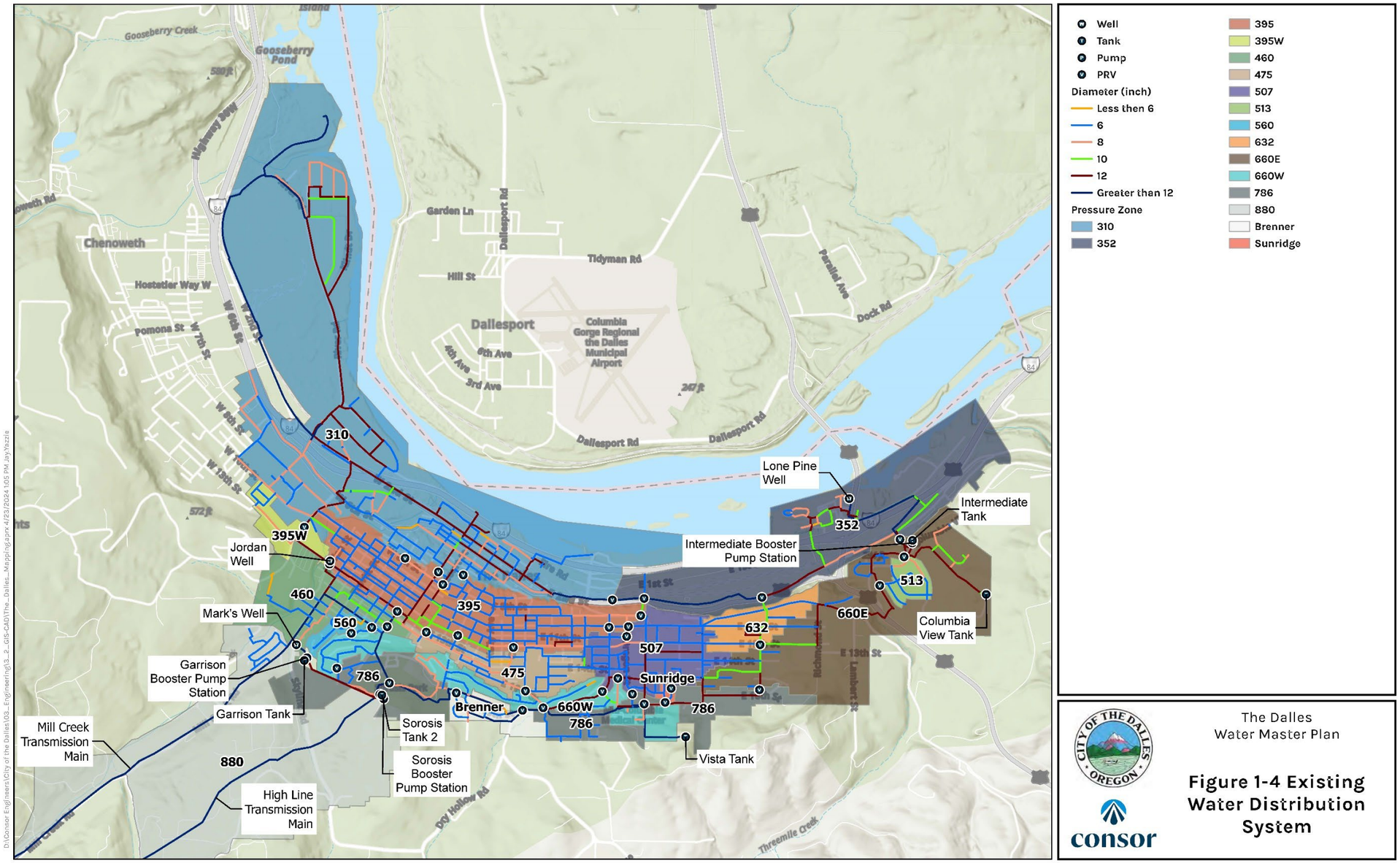


Exhibit 2-2. Water System Service Area



Data Sources: City of The Dalles, 2023;Community: Oregon State Parks, State of Oregon GEO, WA State Parks GIS, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USFWS
World Imagery: Maxar
Coordinate System:
Disclaimer: Consor and CLIENT make no representations, express or implied, as to the accuracy, completeness and timeliness of the information displayed. This map is not suitable for legal, engineering, or surveying purposes. Notification of any errors is appreciated.

Exhibit 2-3. Service Area Schematic



The Dalles
Water Master Plan

Figure 1-4 Existing Water Distribution System

Project No. W196117OR.00 April 2024

Data Sources: NTUA 2020; ESRI; World Topographic Map: Oregon State Parks, State of Oregon GEO, WA State Parks GIS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS
World Hillshade: Esri, NASA, NGA, USGS, FEMA
Coordinate System: NAD 1927 StatePlane Oregon North FIPS 3601 NAD 1983 State Plane Coordinate System
Disclaimer: Consor and NTUA make no representations, express or implied, as to the accuracy, completeness and timeliness of the information displayed. This map is not suitable for legal, engineering, or surveying purposes. Notification of any errors is appreciated.

D:\Consor Engineers\City of the Dalles\03_Engineering\3_2_GIS-CAD\The_Dalles_Mapping.aprx 4/23/2024 1:05 PM JayYazzie

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2.5 Historical Water Demands

The following water demand data is based on the sum of volume of treated surface water as measured at the WTP following treatment and supplies from groundwater as measured at the City's wells. Exhibit 2-4 summarizes the City's water demands from 2017 through 2022. Demand volumes for 2023 and 2024 were available following OWRD's review of this WMCP and are provided in Appendix B.

Exhibit 2-4. Historical Water Demand, 2017 – 2022

Year	Demand (MG)	ADD (MGD)	MDD (MGD)	MDD: ADD Peaking Factor
2017	1,150.0	3.2	7.0	2.2
2018	1,260.0	3.5	7.4	2.1
2019	1,210.0	3.3	(1)	(1)
2020	1,300.0	3.6	8.4	2.4
2021	1,460.0	4.0	9.0	2.3
2022	1,300.0	3.6	8.4	2.4
Max	**1,450.0**	**3.6**	**9.0**	**2.4**

(1) MDD from the months in which MDD would most likely occur were not available.

Demand values in Exhibit 2-4 were adjusted to account for missing volume data for specific days in July and August of 2019, March and April of 2020, and August and September of 2021. As described in the City's WSMP, this adjustment was accomplished by extrapolating monthly usage based on the daily volumes available in the months in which partial volume data was available.

2.5.1 Annual and Daily Demands

As shown in Exhibit 2-5 and Exhibit 2-6, annual demand, ADD, and MDD showed increasing trends from 2017 through 2022. The City attributes increasing values over this period to a change in population over time and increased demands from the City's Commercial/Industrial customer class. Consumption by the City's customer classes is discussed in Section 2.6.

Exhibit 2-5. Historical Annual Demand, 2017-2022

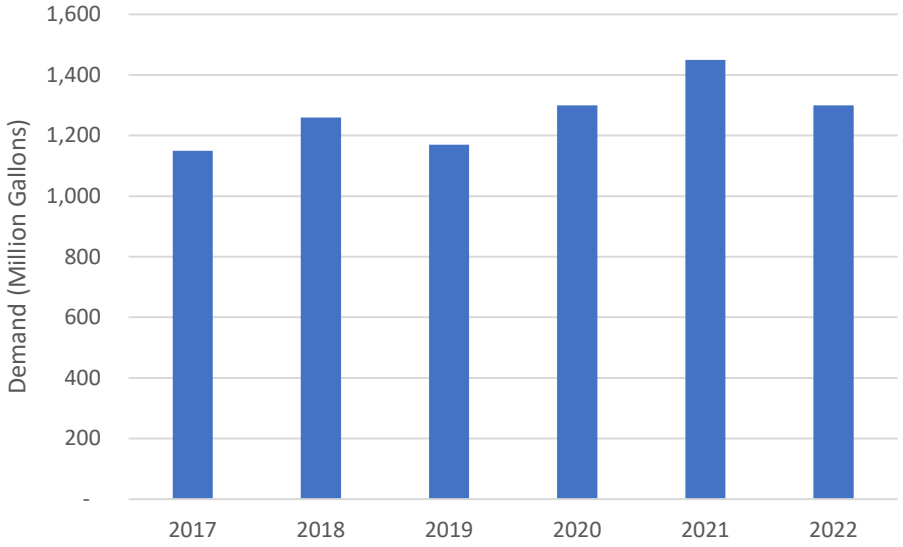
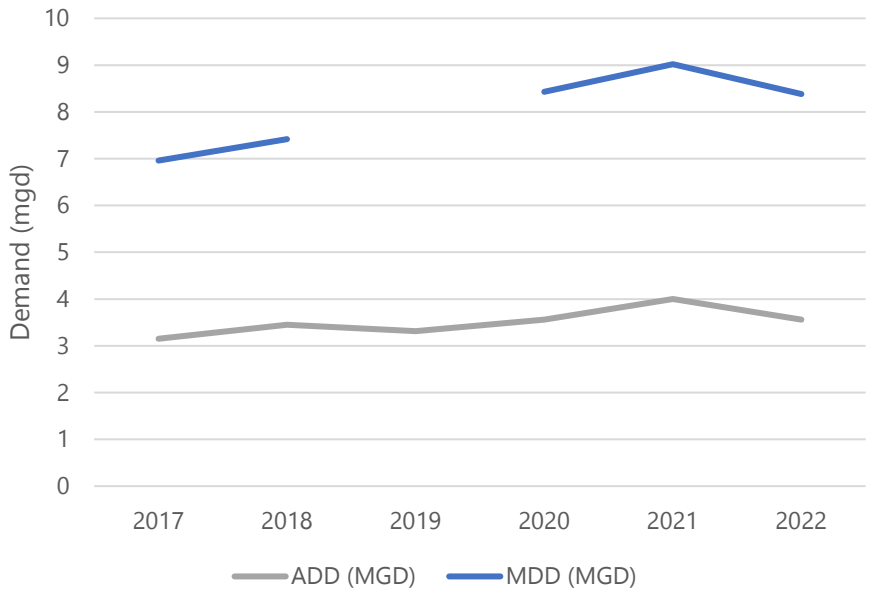


Exhibit 2-6. ADD and MDD, 2017-2022[1]



(1) MDD for 2019 was unavailable.

MDD is an important value for water system planning. Water rights and supply facilities (e.g., treatment plants, pipelines, and reservoirs) must be capable of meeting the City's MDD. If the MDD exceeds the combined supply capacity on any given day, finished water storage levels will be reduced, and if the MDD exceeds combined supply capacity on several consecutive days, a water shortage may occur.

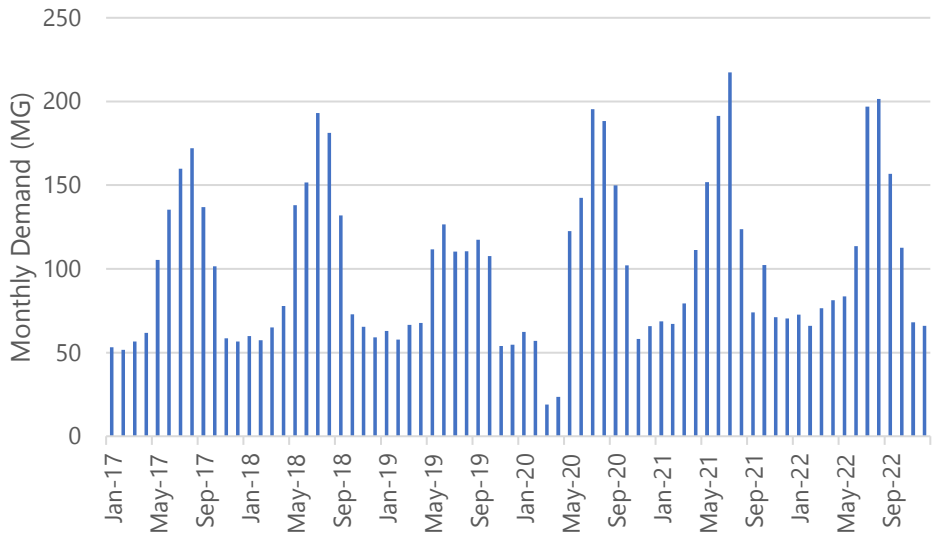
Weather patterns and the economy strongly influence MDD. Weather patterns that can cause fluctuations in MDD from year to year include maximum temperatures, the number of consecutive days with high temperatures, when high temperatures occur in the summer, overall rainfall levels during the summer, and consecutive days without rainfall. Unusually hot and/or dry weather results in more outdoor irrigation, which increases the MDD. The economy can affect MDD by influencing customer spending on irrigation, the number of new homes with landscapes needing intense irrigation for plant establishment, the opening or closing of facilities that use water in their operations, or the seasonal nature of some economic activity.

The City's MDD to ADD peaking factor ranged from 2.1 to 2.4 as compared to the range provided in the City's 2014 WMCP of 2.3 to 3.3. The City attributes a decrease in this peaking factor primarily to the expansion of its conservation program in the 2010s and the increase in the use of water by the Commercial/Industrial class over time, which tends to have more even volumes of seasonal usage, among other factors. This peaking factor is an important component used in demand forecasting.

2.5.2 Monthly Demand

Exhibit 2-7 shows monthly demand from 2017 through 2022. The highest monthly demand during this period occurred in July of 2021 at 217 MG and the months with the greatest demand were consistently June through August. This seasonal nature of demand is primarily attributable to outdoor uses of water, such as irrigation, and commercial and industrial cooling water uses during the summer months. Monthly demand was lowest during the winter season, typically December through February. These seasonal differences are further described below.

Exhibit 2-7. Monthly Demand (MG), 2017-2022



As previously noted, data for some months were not available, which describes inconsistencies in the seasonal pattern of demand shown in Exhibit 2-5.

2.6 Customer Characteristics and Use Patterns

The following analyses of the City's customer water use are based on metered water use records from 2006 through 2022. Data for 2019 through 2022 were obtained from the City's draft WSMP and data previous to 2019 was collected from City's 2018 WMCP progress report and 2014 WMCP. Consumption volumes for 2023 and 2024 were available following OWRD's review period of this WMCP and are provided in Appendix B.

2.6.1 Customer Description

The City's customers are categorized into three major customer classes: residential, commercial/industrial, and government. The Residential class includes all properties with four or less dwelling units. Multifamily units larger in size are categorized within the Commercial/Industrial class along with restaurants and other businesses within the services industry. Also within this class are some meters affiliated with data centers. The Government class includes facilities owned by the City, County, Port of The Dalles, and the Columbia Gorge Community College. Exhibit 2-8 shows the number of accounts by customer category in December 2022. The Residential class represents the largest block of users on the system.

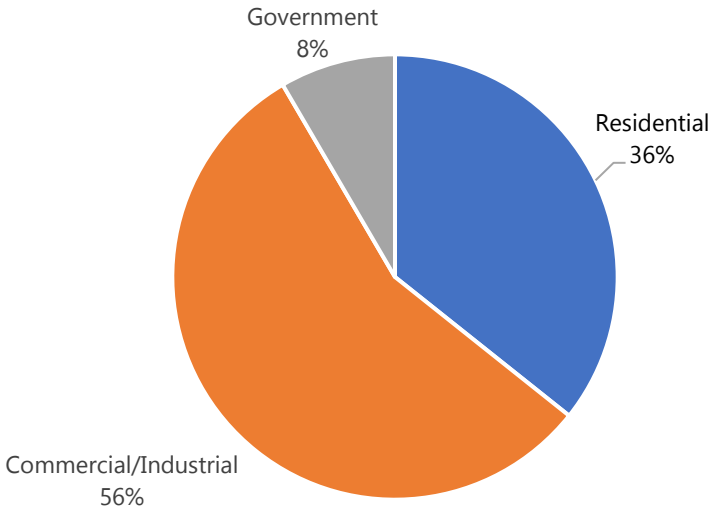
Exhibit 2-8. Number of Accounts by Customer Class, December 2022

Customer Class	Number of Accounts
Commercial/Industrial	595
Residential	4,287
Government	84
Total	**4,966**

2.6.2 Annual Consumption

Exhibit 2-9 illustrates the percentage consumed by each customer class in 2022. The City's Residential class used 36 percent of all water consumed, but because The Dalles is a hub of regional economic activity, boasting a large industrial base and thriving commercial sector, the Commercial/Industrial accounted for 56 percent of total consumption, in part due to the considerable acreage and number of active industrial properties. The presence of the available water sources that are capable of supporting industry are attractants to many types of industrial customers.

Exhibit 2- 9. Percentage of Consumption by Customer Class of Total Consumption, 2022



The total annual consumption for the combined classes shows an increasing trend since 2006, as presented in Exhibit 2-10. This increase in consumption is attributable to increases in usage by the industrial and commercial classes primarily. Consumption volumes for 2016 to 2018 were based on fiscal years and volumes for 2013 to 2015 were not available.

Exhibit 2-10. Annual Water Consumption, 2006-2012 and 2019-2022

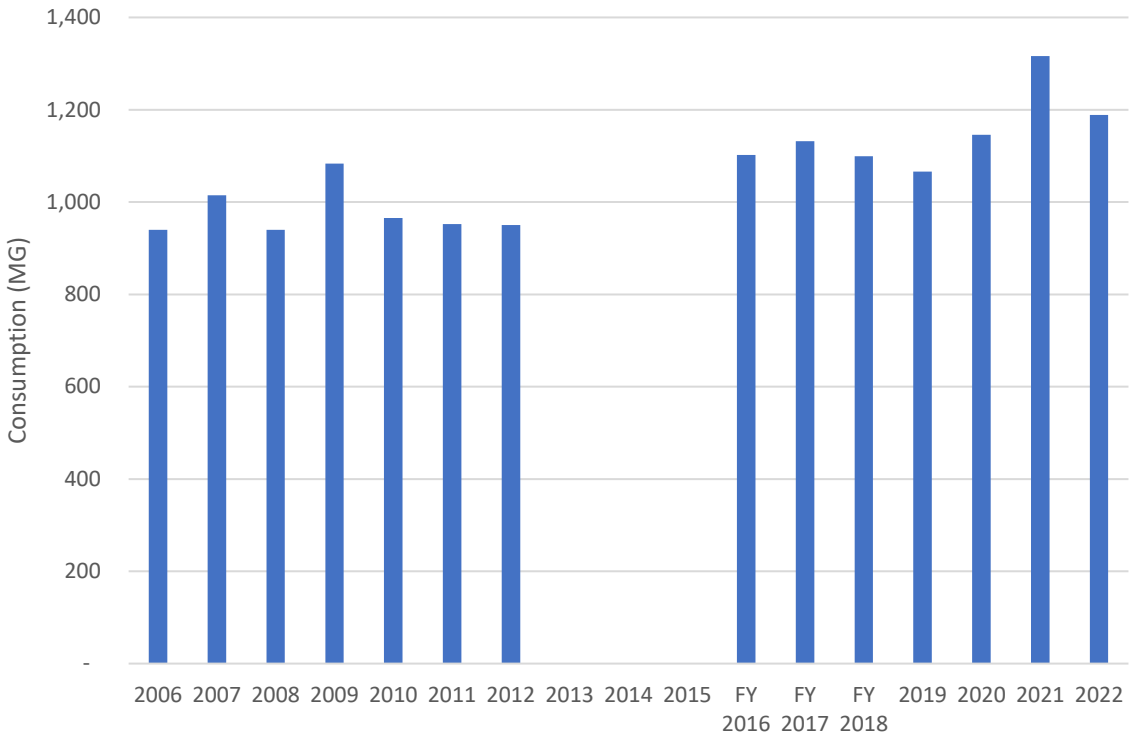
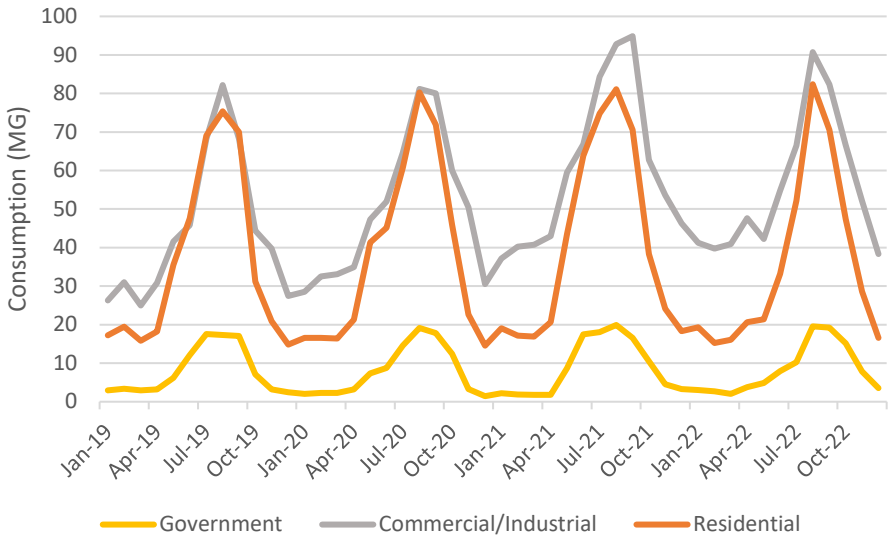


Exhibit 2-11 describes annual metered water use by customer classes. Residential water use exceeded the consumption volume of other classes in 2019 and 2020 and in 2021 and 2022, the commercial sector was the largest customer class.

Exhibit 2-11. Annual Water Use by Customer Class, 2019-2022

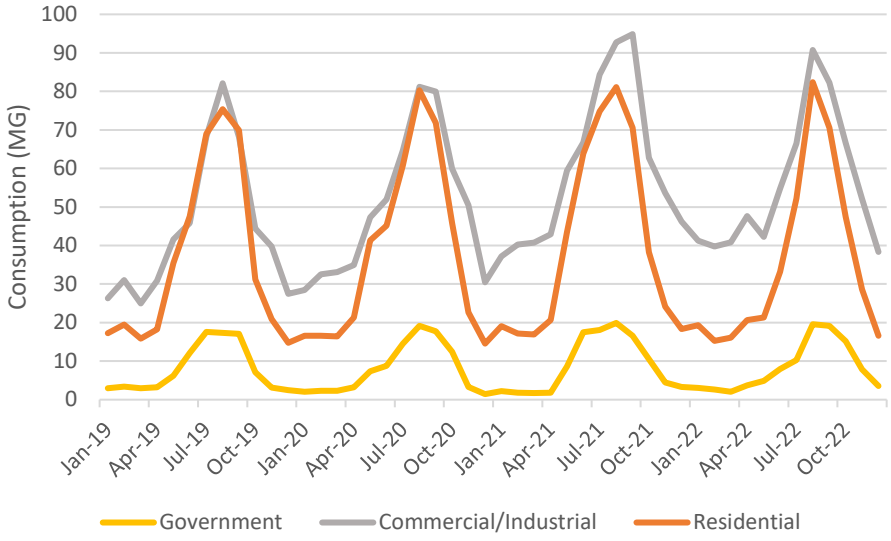


Direct comparisons of recent consumption volumes by customer class to volumes found in the City's 2014 WMCP and the City's 2019 WMCP Progress Report are not possible due to the differing classes used to aggregate customer consumption. However, the City reviewed the annual consumption volumes of the Residential class over time since the definition of this customer type has not significantly changed since 2006. This comparison showed that the volume of water consumed by the Residential class has shown a decreasing trend over time. The average annual consumption volumes for the Residential class for the period 2006 to 2012 was 486 MG and from 2019 to 2022 was 450 MG, a decrease of 7.5 percent. This decrease in residential consumption is in contrast to the population increase in the City from 2006 to 2022 of 3,792 people, or 30 percent. The diverging results of the changes in use compared to population indicate a decrease in the residential per capita use over time. This decrease has been observed among residential classes at utilities across the state resulting from the tightening federal fixture and appliance water use standards over time, of which The Dalles is a beneficiary, and ongoing conservation programming implemented by The Dalles since the mid-2000s.

2.6.3 Monthly Consumption

Exhibit 2-12 shows monthly metered consumption by customer category from January 2019 through December 2022. Monthly metered consumption peaked in the summer months for all customer categories. The Commercial/Industrial class had the greatest consumption in the summer months, slightly greater than the summer consumption volumes of the Residential class, though showed far greater use in the winter.

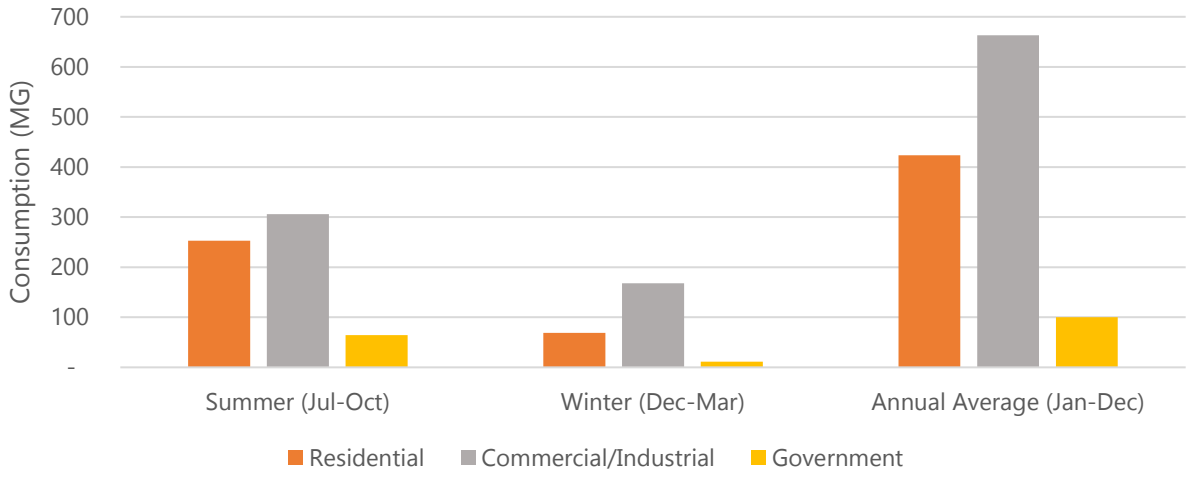
Exhibit 2-12. Monthly Metered Consumption by Customer Class, 2019-2022



2.6.4 Seasonal Consumption

Average monthly consumption by season and customer category in 2022 is shown in Exhibit 2-13. The City's total summer consumption was approximately 2.5 times greater than its total winter consumption, which was similar to the value of 2.9 times greater for 2011 as reported in the City's 2014 WMCP. Consumption during summer months exceeded winter consumption by 3.7 times for Residential class and by 2.8 times for Commercial/Industrial class. This reinforces the trend demonstrated by the monthly consumption data that Residential consumption has greater seasonal variation than Commercial/Industrial water consumption.

Exhibit 2-13. Seasonal Water Consumption by Customer Category, 2022



2.6.5 Single Family Residential Per Capita Consumption

Single Family Residential per capita demand, expressed in gallons per capita per day (gpcd), is the City's total demand from single family residential customers divided by the estimated water delivery area population. This value is intended to provide an estimate of the amount of water actually used by typical individuals. In 2012, Single Family Residential water use totaled 449.6 MG when the City's service area population was 11,964, resulting in a Single Family Residential per capita demand of 103.0 gpcd. In 2022, the per capita value had decreased to 72 gpcd.

2.7 Water Loss

Water loss is defined as the difference between demand and the sum of metered water consumption plus unmetered authorized water usage. Demand volumes are a combination of the water treated at the WTP, and water appropriated at the City's wells. Water consumption volumes are those measured at the service meters of City customers. Unmetered, authorized volumes include water used during the City's flushing operations. Hydrant flushing is tracked based on the duration of each hydrant flush times the rate through the use of a software database program.

The City fee schedule includes a system for tracking and invoicing contractor water usage for construction purposes. Water taken from fire hydrants is metered and water taken from the Public Works Department fill station is tracked by volume estimate per load. Records are totaled to obtain the volume of contractor water use and this data is incorporated into the annual consumption totals.

With accurate record keeping and metering of all water consumed, the percentage of water loss should approach the net volume lost to leakage. System leakage, as the name implies, is water lost due to deteriorating pipes, compromised pipe joints, service connections, valves, etc. The Dalles water loss represents real losses, such as system leakage, and apparent water losses, for example meter errors, and also includes uses that are authorized, but not tracked, such as uses by the Fire Department for fire suppression trainings and events. Significant losses are addressed by the City immediately. For example, any major leaks are repaired upon discovery. Currently, the City is not aware of significant losses. The City is not aware of unauthorized water uses (i.e., theft).

Exhibit 2-14 shows historical water losses. Demand and consumption volumes for FY 2017/18 were obtained from the City's 2019 WMCP Progress Report. Loss averaged 9.6 percent over the five-year period and was 8.5 percent in 2022. Water loss estimates for 2023 and 2024 were available following OWRD's review period of this WMCP and are provided in Appendix B.

Exhibit 2-14. Historical Water Losses

	Demand (MG)	Consumption (MG)		Water Loss (MG)	Percent Loss
		Metered	Unmetered, Authorized		
FY 2017-18	1,219	1,132	16.3	70.7	5.8%
2019	1,210	1,061	3.8	145.0	12.0%
2020	1,300	1,143	2.5	154.4	11.9%
2021	1,460	1,317	1.4	141.8	9.7%
2022	1,300	1,187	2.6[1]	110.8	8.5%
				Average	9.6%

[1] The volume of unmetered, authorized uses for 2022 had not been aggregated by the City at the time of this water loss audit. The value is an average of the previous three calendar years.

2.8 Water Rights

2.8.1 Water Rights Descriptions

The City of the Dalles holds three surface water certificates, two surface water permits, one storage certificate, one storage permit, seven groundwater certificates, four groundwater rights in transfer status, two groundwater registrations, and one Aquifer Storage and Recovery (ASR) Limited ASR License. Details of these rights, such as source of supply and authorized rates of diversions, are presented in Exhibit 2-15. Exhibit 2-16 presents average monthly and daily water diversions by source of supply (point of diversion/point of appropriation) for the years 2018 through 2022 (5 years). Exhibit 2-16 includes the Water Use Report ID to match OWRD's water use reporting system.

Surface Water Rights The City holds five surface water rights for municipal use. Three of these rights are certificated. Certificate 5691, which is the City's most senior water right (priority date of 1862) and authorizes the use of up to 2 cfs from South Fork Mill Creek. Certificate 14954 is the City's second oldest water right (priority date of 1870) and authorizes the use of all the water in Dog River at the point of diversion near the headwater of the Dog River.

Certificate 60410 authorizes use of 955 AF from Crow Creek Reservoir and is a secondary right to Certificate 44917, which authorizes the storage of up to 955 AF of water from South Fork Mill Creek and Dog Creek in Crow Creek Reservoir. As discussed in Section 2.1, these surface water sources provide the majority of the City's municipal water supply.

The City holds Permit R-13105, which is for the enlargement of Crow Creek Reservoir by up to an additional 2100 AF. OWRD issued a final order approving an extension of time for Permit R-13105 on December 8, 2023; this order describes the deadline for beginning construction to enlarge the reservoir, completing construction, and filling the reservoir for Permit R-13105 by November 20, 2031. A project to potentially enlarge the reservoir is in the pre-planning stage and the need for the project is confirmed in the City's 2024 WSMP update. The City has begun to evaluate Permit S-53930, which allows use of the additional 2100 AF from Crow Creek Reservoir for municipal purposes. Permit S-53930 has a development limitation requiring

approval of a WMCP before diverting any water, as established by an OWRD Extension Final Order issued on October 28, 2011, and the 2014 WMCP Final Order. Permit S-53930 has a completion date of October 1, 2041, established by the extension of time final order.

The City has authorization to appropriate up to 40 cfs from the Columbia River under Permit S-49653 for municipal use. The City is not currently authorized to divert any water under this permit. The permit is subject to fish persistence conditions established in an Extension Final Order dated October 16, 2012. The completion deadline for Permit S-49653 is October 1, 2073.

Groundwater Rights The City holds eleven groundwater rights for municipal use that authorize a total of 26.834 cfs (17.3 mgd). Of the 26.834 cfs, the Lone Pine, Marks, Jordan Street Wells and ASR Well 1 are authorized to appropriate up to 18.454 cfs. GR 4258 as modified by GR Modifications T-10865 and T-12893 authorize appropriation of up to 5.124 cfs from all four wells. Certificate 15543 and Certificate 86380 authorize the use of up to 2.68 cfs and 0.69 cfs, respectively, from the Marks Well. Certificate 48991 authorizes use of up to 5.5 cfs from the Jordan Street Well. Certificate 60026 authorizes use of up to 4.46 cfs from the Lone Pine Well.

Certificates 85886 and 44915 authorize the use of up to 0.81 cfs from the Mill Creek Well and up to 1.56 cfs from the Wicks Well, respectively. The Mill Creek Well currently is not actively used. GR-4257 is a domestic/manufacturing water right for use of up to 0.368 cfs from the Stadelman well, however, this well currently is not actively used.

OWRD approved Transfer T-13904 in 2024, which authorizes appropriation from Riverside Wells 1 and 2 at a total rate of up to 6.01 cfs for municipal use within the City's service area. Design LLC filed the transfer application and assigned it to the City. The authorized wells identified in T-13904, Riverside Wells 1 and 2, are also identified in Limited ASR License AL-25 as points of diversions. Use of native groundwater from either well may be available to the City following complete diversions of stored water under the City's ASR program, as noted in Limited ASR License AL-25.

Limited ASR License AL-25 Since 2018, the Dalles has held Limited ASR License AL-25 for aquifer storage and recovery (ASR). This license authorizes diversion of up to 16.7 cfs from Dog River, South Fork Mill Creek, and Crow Creek Reservoir for storage of up to 1,200 MG. Limited ASR License AL-25 authorizes recovery from four ASR well sites at a maximum recovery rate of 2,500 gpm per well. The City plans to begin using Riverside Well 1 for its ASR program under AL-25 in 2025.

Non-municipal Rights The City holds a groundwater right that is not part of the municipal water supply. Certificate 87278 is a commercial water right for up to 0.3384 cfs from three wells for use in a heating and cooling system at The Dalles Middle School. These wells are not connected to the City water system.

In addition, the City operates a well system that supplies water to Wasco County's Columbia Gorge Discovery Center tourist facility which is located outside City limits. The City provides this service to the County. This system includes a well (Kuck Well) that is not connected to the City's water system, and well appropriations are authorized under Permit G-13421 held by the County.

The City will inherit ownership of the water supply facilities once the County's period of bonded indebtedness expires. Because this permit is not held currently by the City, this right is not shown in Exhibit 2-14 and will not be discussed further in this WMCP.

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Exhibit 2-15. Water Rights Table

Application	Permit	Claim, Decree, or Transfer	Certificate	Priority Date	Type of Beneficial Use	Authorized Rate (cfs)	Source	Authorized Volume (AF)	Authorized Date for Completion	Maximum Withdrawal to Date	
										Rate (cfs)	Annual (MG unless otherwise noted)
Groundwater: Municipal System Connection											
-	-	GR 4258, Modification T-12893	-	10/11/1923	Municipal, Domestic, Irrigation, Manufacturing, and Industrial	5.12 (2300 gpm)	Marks Well Jordan Well Lone Pine Well ASR Well 1	-	-	5.124 cfs	415.50
U-135	U-127	-	15543	11/1/1940	Municipal	2.68	A well - Marks Well	-	-	2.68 cfs	
U-181	U-189	T-7258	~~20790~~ ~~44783~~ 86380	10/4/1945	Municipal	0.69	A well - Marks Well	-	-	0.69 cfs	
G-23	G-7806	-	48991	10/16/1953	Municipal	5.5	A well - Jordan Street Well	-	-	5.5	
G-1415	G-7807	-	60026	3/13/1959	Municipal	4.46	A well - Lone Pine Well	-	-	4.46	
G-2076	G-2132	-	~~44915~~	7/2/1962	Municipal	1.56	Wicks Well	-	-	1.56	47.82
U-181	U-189	T-7258	~~20790~~ ~~44783~~ 85886	10/4/1945	Municipal	0.81	Mill Creek Well	-	-	0.81	Water use data not available for this water right[1]
-	-	GR 4257	-	1910	Domestic / manufacturing	0.368 (165 gpm)	Stadelman Well	-	-	0.368	Water use data not available for this water right[2]
G-471	G-338	T-13904	~~46835~~	9/7/1956	Municipal	2.9	Riverside Wells 1 & 2	-	10/1/2044	2.9	12.76[3]
G-734	G-645		~~46836~~	8/19/1957	Municipal	1.11	Riverside Wells 1 & 2	-		1.11	
G-737	G-648		~~46839~~	8/19/1957	Municipal	1.6	Riverside Wells 1 & 2	-		1.6	
G-735	G-646		~~82480~~	8/19/1957	Municipal	0.4	Riverside Wells 1 & 2	-		0.4	
ASR											

Application	Permit	Claim, Decree, or Transfer	Certificate	Priority Date	Type of Beneficial Use	Authorized Rate (cfs)	Source	Authorized Volume (AF)	Authorized Date for Completion	Maximum Withdrawal to Date	
										Rate (cfs)	Annual (MG unless otherwise noted)
AL-25		-	-	None - diversion of water for ASR testing retains the priority date of source water rights (14954, 5691, 60410)	ASR testing	16.7 cfs diverted from surface water sources; max injection rate of 1,875 gpm per well (up to four wells); max recovery rate of 2,500 gpm per well	Dog River, a tributary of Hood River (under Cert 14954); South Fork Mill Creek (under Cert 5691); and Crow Creek Reservoir (under Cert 60410)	Up to 1,200 MG stored in aquifer	Limited ASR License expires 3/21/2028	0	0

Exhibit 2-15 (continued). Water Rights Table

Application	Permit	Claim, Decree, or Transfer	Certificate	Priority Date	Type of Beneficial Use	Authorized Rate (cfs)	Source	Authorized Volume (AF)	Authorized Date for Completion	Maximum Withdrawal to Date	
										Rate (cfs)	Annual (MG unless otherwise noted)
Groundwater: No Municipal System Connection											
G-15518	G-15149	-	87278	6/4/2001	Commercial	0.338 cfs, limited to: Well 1-- 0.077 cfs, Well 5-- 0.2 cfs, and Well 9-- 0.111 cfs	3 Wells - Wells 1, 5, and 9	-	-	0.338	57.50
Surface Water											
-	-	Mill Creek Decree	5691	1862	Municipal	2.0	South Fork Mill Creek, a tributary of Mill Creek	-	-	2.0	1,586.74
-	-	Hood River Decree	14954	8/1/1870	Municipal use for irrigation, domestic, power and stock	"All the water in stream at point of diversion"	Dog River, a tributary of Hood River	-	-	All the water in stream at point of diversion	1,726.68
S-43668	S-32479	-	60410	5/29/1967	Municipal	-	Crow Creek Reservoir, a tributary of Mill Creek	955	-	N/A	955 AF
S-84050	S-53930	-	-	1/21/1999	Municipal	-	Crow Creek Reservoir, a tributary of South Fork Mill Creek	2100	10/1/2041	0	0.00
S-55346	S-49653	-	-	1/13/1986	Municipal	40	Columbia River, a tributary of the Pacific Ocean	-	10/1/2073	0	0.00
Storage											
R-43667	R-4988	-	44917	5/29/1967	Storage for Municipal Use	-	South Fork Mill Creek, Dog River	955	-	N/A	955 AF
R-84049	R-13105	-	-	1/21/1999	Storage for Municipal Use	-	South Fork Mill Creek, Dog River	2100	11/20/2031	0	0

[1]Water use has not been reported on OWRD's Water Use Reporting site from the current point of appropriation or the point of appropriation authorized on the water right prior to Transfer T-7258.
[2]Water has not been used under this water right since before water use reporting began.

[3]The maximum use reported for these water rights is from prior to Transfer T-13904, from Wells WASC 3256, WASC 3249, and WASC 3255, no longer authorized on these water rights.

Exhibit 2-16. Five Year Monthly and Daily Diversions by Source

Water Use Report ID	POD Name	Water Right	2022 Average Withdrawal[1]			Five-Year (2018-2022) Average Withdrawal[1]		
			Annual (MG)	Monthly (MG)	Daily (mgd)	Annual (MG)	Monthly (MG)	Daily (mgd)
Groundwater								
12249	Lone Pine Well	Claim GR-4258 (T-12893), Certificate 60026	82.50	6.88	0.23	56.48	4.71	0.15
12252	Jordan St. Well (WASC 2428)	Claim GR-4258 (T-12893), Certificate 48991	28.20	2.35	0.08	126.66	10.56	0.35
12256	Marks Well (WASC 2431)	Claim GR-4258 (T-12893), Certificate 15543, Certificate 86380	131.50	10.96	0.36	107.16	8.93	0.29
12248	Wicks Well	Certificate 44915	34.80	2.90	0.10	21.50	1.79	0.06
32602	Mill Creek Well (WASC 2431)	Certificate 85886	0.00	0.00	0.00	0.00	0.00	0.00
18571	Stadelman Well (WASC 2422)	Claim GR-4257	0.00	0.00	0.00	0.00	0.00	0.00
N/A	Riverside Well 1	Transfer T-13904	0.00	0.00	0.00	0.00	0.00	0.00
N/A	Riverside Well 2							
N/A	ASR Well 1	Claim GR-4258 (T-12893)	0.00	0.00	0.00	0.00	0.00	0.00
Surface Water								
12247[2]	South Fork Mill Creek	Certificate 5691	246.50	20.54	0.68	273.98	22.83	0.75
12254[3]	Dog River	Certificate 14954	901.20	75.10	2.47	815.74	67.98	2.23
12250	Columbia River	Permit S-49653	0.00	0.00	0.00	0.00	0.00	0.00
30261[4]	Crow Creek Reservoir	Certificate 60410, Permit S-53930	198.20	16.52	0.54	189.50	15.79	0.52
Storage								
12246[5]	Crow Creek Dam	Certificate 44917	152.50	12.71	0.42	137.72	11.48	0.38
13784	South Fork Mill Creek	Permit R-13105	0.00	0.00	0.00	0.00	0.00	0.00
13785	Dog River							

[1]Annual volumes obtained from water use reporting data in OWRD's Water Rights Inventory System.
[2]Measurements are taken at the South Fork Mill Creek diversion and adjusted to account for water being rediverted for storage and Dog River Flow.
[3]Volumes include all use at Dog River from measurements taken at the point of diversion.
[4]Volumes include flow released from the Crow Creek Reservoir calculated as the difference in reservoir levels from month to month, converted to volumes.
[5]Volumes include South Fork Mill Creek and Dog River diversions used to fill the Crow Creek Reservoir, calculated as the difference in reservoir levels from month to month, converted to volumes.

2.8.2 Aquatic Resource Concerns

The City's authorized surface water sources are Dog River, South Fork Mill Creek, Crow Creek Reservoir, and the Columbia River. The Columbia River, Dog River, and South Fork Mill Creek are listed as water quality limited streams according to the Oregon Department of Environmental Quality (DEQ). The City's authorized point of diversion on the Columbia River is located just upstream of The Dalles Dam (RM 191.5). The assessment unit number for this reach of the Columbia River is OR_LK_1707010504_88_100137. At this location, the river is water quality limited for the following parameters: pH, temperature, dioxin, methylmercury, Polychlorinated Biphenyls, and total dissolved gas. Dog River (assessment unit OR_WS_170701050503_02_101998) is listed as impaired for iron (total) and South Fork Mill Creek (assessment unit OR_WS_170701050403_02_101992) is listed as impaired for temperature (spawning).

The list of water quality limiting parameters for these water bodies can be found in DEQ's Water Quality Assessment – Oregon's 2022 Integrated Report Assessment Database at https://rstudioconnect.deq.state.or.us/2022_IR_Database/.

Exhibit 2-17 shows the listed fish species in the middle Columbia River, including the mainstem Columbia River, Dog River, South Fork Mill Creek, and Crow Creek Dam drainages (Hydrologic Unit Code 17070105 subbasin).

Exhibit 2-17. Listed Fish Species That May Occur in City's Sources of Supply[1]

Species	Common Name	Federal Listing	State Listing
Oncorhynchus tshawytscha	Chinook	Endangered (Spring)	Sensitive (Fall and Spring)
Oncorhynchus mykiss	Steelhead	Threatened (Middle Col. R. and Upper Col. R.)	Sensitive-Critical (Summer)
Oncorhynchus nerka	Sockeye	Endangered	--
Oncorhynchus keta	Chum	Threatened	--
Salvelinus confluentus	Bull Trout	Threatened	Sensitive "Critical"
Oncorhynchus clarkia lewisi	Westslope Cutthroat Trout	--	Sensitive- Vulnerable
Oncorhynchus clarkii clarkii	Coastal Cutthroat Trout	--	Sensitive
Lampetra ayresii	*Western River Lamprey*	--	Sensitive
Lampetra richardsoni	Western Brook Lamprey	--	Sensitive
Lampetra tridentate	Pacific Lamprey	--	Sensitive
Thaleichthys pacificus	Pacific Eulachon	Threatened	--
Acipenser medirostris	Green Sturgeon	Threatened	--

1 The fish species listed in this exhibit are from all of the sources combined, such that not all of the species listed are found in each source.

Sources:

- OR Sensitive Species List: https://www.dfw.state.or.us/wildlife/diversity/species/docs/Sensitive_Species_List.pdf
- Threatened, Endangered, and Candidate Fish and Wildlife Species in Oregon: https://www.dfw.state.or.us/wildlife/diversity/species/docs/Threatened_and_Endangered_Species.pdf
- Status of ESA Listings and Critical Habitat Designations for West Coast Salmon and Steelhead https://www.fisheries.noaa.gov/resource/document/status-esa-listings-and-critical-habitat-designations-west-coast-salmon-and
- Endangered Species Act, Threatened and Endangered Species Directory: https://www.fisheries.noaa.gov/species-directory/threatened-endangered?species_title=&field_species_categories_vocab_target_id=1000000031&field_species_status_value=All&field_region_vocab_target_id=1000001126

2.9 Evaluation of Water Rights/Supply

2.9.1 Surface Water

The City's primary water supply is currently provided by surface water from The Dalles Municipal Watershed, which encompasses a 22,000-acre drainage containing the watersheds of Dog River and South Fork Mill Creek. Water from Dog River is diverted and conveyed to South Fork Mill Creek via a 3.5-mile pipeline. At the confluence of South Fork Mill Creek and Crow Creek, Crow Creek Dam impounds water from Dog River and South Fork Mill Creek in Crow Creek Reservoir. The City's live flow from Dog River and South Fork Mill Creek and stored water in Crow Creek Reservoir are released from the Crow Creek Dam into South Fork Mill Creek. This water is then diverted eight miles downstream at the City's South Fork Mill Creek intake, at which point the water flows by gravity a short distance to the Wicks WTP. This stored water and available live flow are used throughout the year to meet municipal demands. Though the City's WTP is capable of treating up to 8.2 cfs, reliable late summer flows from these surface water sources, including available live flows and stored water releases, are currently 5.4 cfs (3.5 mgd). This is based upon a rate that can be sustained all summer long and without over-drafting the water in Crow Creek Reservoir before refilling begins and is also based on the sustainable rate of treatment at the City's WTP. Reservoir drawdown usually begins in early July, and it is often November before the City starts refilling the reservoir.

As part of the City's Water System Master Plan Development, Jacobs Engineering Group (Jacobs) modeled natural flows in the City's municipal watershed under current and future conditions, with consideration of the impacts of climate change on the timing and amount of flow available under the City's water rights. Water availability during a 10 percent exceedance flow scenario is shown in comparison to the City's projected demands in Exhibit 2-18. The table shows both Jacobs' flow projection (in mgd) and supply available (in acre-feet [AF]). The latter also accounts for a required 0.5 cfs bypass flow during August through October the City agreed to as part of a recent Dog River pipeline replacement project. Flows are shown to be lowest in the summer months, leading to the lowest available supply during that period. During these periods, the City relies on groundwater as a supplemental source.

Exhibit 2-18. Dog River and South Fork Mill Creek Reliable Flow Estimates

Month	Jacobs' Water Supply Evaluation – Natural Flow (mgd)		Water Supply Available (AF)	
	Dog River	South Fork Mill Creek	Dog River[1]	South Fork Mill Creek
January	9.15	21.32	871	123
February	9.63	22.43	828	111
March	10.07	23.45	958	123
April	8.34	19.41	767	119
May	8.68	20.21	826	123
June	2.22	5.18	205	119
July	0.17	0.40	16	38
August	0.64	1.48	30	123
September	1.62	3.78	120	119
October	2.16	5.02	205	123
November	3.25	7.56	299	119
December	7.25	16.90	690	123

[1] As part of a recent expansion of the Dog River Pipeline, the City agreed to provide a bypass flow of 0.5 cfs during August through October. This bypass flow is reflected in the estimate of water supply available but not in the monthly natural flow estimates.

The City holds the most senior water right on Dog River (Certificate 14954) and on South Fork Mill Creek (Certificate 5691). The City's Dog River and South Fork Mill Creek water rights have not been subject to regulation. However, as described above, natural streamflow limits the supply available from the Dog River and South Fork Mill Creek. The City's storage water rights (Certificate 44917 and Permit R-13105) are junior to several water rights, but the reliability of the stored water and use of that stored water is not expected to be diminished given that storage occurs in winter months when flows are typically ample and senior water rights are primarily for irrigation for use during the irrigation season.

Permit S-49653 authorizes the use of the Columbia River. The City has not developed this source of supply; however the permit could serve as an important source of supply for the City in the future. Future use of this permit is affected by conditions placed by OWRD on the use of this permit and federal regulations prohibiting new net withdrawals. The permit is conditioned to require a reduction in the authorized rate of use when target flows are not met on a 7-day rolling average at McNary Dam, OR. These target flows are 260,000 cubic feet (cf) from April 10 to June 30 and 200,000 cf from July 1 to August 31. (There are no target flow restrictions identified in the permit from September1 to April 9.) During these periods of potentially restricted use, the City's diversions must be reduced in proportion to the amount by which river flows are missed. If these flows are not met, the City's authorized diversion rates are reduced in proportion to the amount that flows were missed. The permit extension describes that the overall reduction will not exceed 20 percent of the right. Exhibit 2-16 shows the frequency that these flow targets were met from 1950 to 1981 while Gage 14109200 was in use. It is likely that

the City will not always have full access to the entire 40 cfs under Permit S-49653 during this period, limiting the reliability of this source of supply.

Exhibit 2-19. Columbia River Flow Targets

Time Period	Flow Target (cfs)	Frequency Flow Target Met at USGS Gage 14019200, 1950 - 1981
April 10 – June 30	260,000	45.2%
July 1 – August 31	200,000	59.6%

Expansion of Crow Creek storage can also provide an important source of supply to help meet future growth. Permit S-53930, a secondary right, authorizes use of up to 2,100 AF of water stored in the Crow Creek Reservoir under R-13105. Completion of R-13105 (by enlarging the reservoir and storing an additional 2,100 AF) following construction of an enlargement of the Crow Creek Reservoir will enable the City to use Permit S-53930. The City has not initiated development of Permit S-53930.

Permit S-49653 (authorizing use of water from the Columbia River) and Permit S-53930 (authorizing use of stored water in an enlarged Crow Creek Reservoir) are viable alternatives to help the City meet future demands. The City will conduct a detailed analysis of these future supply options to determine which source would best meet the City's future needs.

2.9.2 Groundwater

The City's current surface water supplies are supplemented by groundwater sources for use during the summer months when demand peaks and for backup supply. Of the 20.824 cfs (13.5 mgd) that the City holds in groundwater rights for municipal use, 18.454 cfs (11.9 mgd) may be appropriated using four wells: Lone Pine Well, Marks Well, Jordan Street Well, and the ASR Well 1 (known as Riverside Well 1) evidenced by: GR 4258 as modified by T-10865 and T-12893 (Lone Pine Well, Marks Well, Jordan Street Well, and the ASR Well 1) and Certificates 15543 (Marks Well), 86380 (Marks Well), 48991 (Jordan Street Well), and 60026 (Lone Pine Well). The Lone Pine, Marks, and Jordan Street Wells serve as the City's primary municipal groundwater sources. The pumping capacities of the three non-ASR wells is 11.9 cfs (7.7 mgd) when running 24 hours per day.[1] Thus, of the 18.454 cfs in water rights authorizing use from these three wells, the current maximum sustainable rate is 11.9 cfs. Since the Marks and Jordan Street Wells have less desirable water quality due to elevated iron, manganese, and turbidity levels, water produced from these wells is blended with treated surface water supplies. The Marks Well is the last of the three wells that the City uses when groundwater is needed as a result of having the poorest water quality. ASR Well 1 is newly constructed and called Riverside Well 1.

The Dalles has four other well locations. Appropriation at Riverside Well 1 and 2 is authorized under Transfer T-13904 for municipal use. The Riverside Wells are newly constructed, with a design capacity of 1,800 gallons per minute (gpm) each but are not yet in use. The Wicks Well

[1] The pumping capacities of the wells are: Jordan, 3.9 cfs; Marks, 3.34 cfs; and Lone Pine, 4.67 cfs.

has very poor water quality (Certificate 44915), such that the authorized rate of 1.56 cfs (1 mgd) can only be used in emergencies to supplement surface water supplies after full treatment through the WTP. The Mill Creek Well (Certificate 85886) and the Stadelman Well (GR-4257) are currently not in use, also as a result of poor water quality. The three wells providing water to The Dalles Middle School (Certificate 87278) are not connected to the City's municipal water supply system.

All existing wells except the Wicks Well are completed in the Dalles Pool aquifer. OWRD declared the Dalles Pool aquifer a Critical Groundwater Area in 1959. This designation closed the aquifer to new appropriations and allows OWRD to implement various restrictions on water use to help prevent water level declines.

Water levels in the aquifer have fluctuated in response to drought and total groundwater pumping. A 1999 hydrogeologic assessment prepared by Golder Associates identified a sustainable annual yield—the level of groundwater pumping at which water levels are stable—of 5,000 to 5,500 acre-feet.

Through the early 2000s, the largest users of groundwater from the Dalles Pool Aquifer were aluminum smelters. As these industries shifted to less water intensive uses or discontinued operations, water levels increased by nearly 50 feet. Small declines over the past few years are driven by drought, as total groundwater pumping from the Dalles Pool Aquifer has declined to approximately 1,500 to 2,000 acre-feet per year. Maintaining higher groundwater levels in the Dalles Pool Aquifer improves the resiliency of the supply against drought, benefiting all users of the aquifer. Thus, the City limits use of its water supply wells to minimize impacts to the aquifer.

To determine total reliable municipal groundwater supply, water industry guidelines instruct water utilities to anticipate the loss of the single largest source. The City's largest well is the Jordan Street Well capable of producing 3.9 cfs. The resulting rate is called "firm capacity". Subtracting 3.9 cfs from the 11.9 cfs of the City's primary municipal groundwater sources results in a firm capacity of 8 cfs (5.2 mgd).

Combining the City's current reliable supplies of surface water (5.4 cfs) and groundwater (8 cfs), the City's total current reliable water supply typically available during peak summer demand is 13.4 cfs (8.7 mgd). The City's historical MDD exceeded 9 mgd in 2021 and exceeded 8 mgd in 2020 and 2022. Due to the stability of its water system infrastructure, its storage rights and the use of those rights, operational measures associated with its distribution system (e.g., use of inline storage reservoirs), and maximizing the use of the WTP, the City has been able to meet periods of high system demands.

The Dalles Limited ASR License AL-25 is intended to provide a temporary source of supply until a new source, or sources of supply are available, such as the Columbia River (S-49653) or diversions from the Crow Creek Reservoir under the City's secondary right (Permit S-53930). Limited ASR Licenses are issued by OWRD and are valid for five years. The Dalles Limited ASR License is valid until March 2028. Limited ASR Licenses, including AL-25, do not provide secure sources of supplies as compared to the assurances of security conferred upon a permanent

water right. For example, Limited ASR Licenses retain junior status relative to water rights and can be revoked, suspended, or modified for multiple reasons.

2.10 System Description

The City operates a public drinking water system (Public Water System Identification Number 4100869). Exhibit 2-1 is a schematic of the City's water distribution system.

The City's surface water sources are described above. The City's Wicks Water Treatment Plant (WTP) was constructed in 1949 and is located about seven miles south of The Dalles. Operationally, the City can realistically treat approximately 3.5 mgd and still have reasonable WTP filter run times, though it can be run a greater rate for short durations. Two finished water transmission pipelines, the High Line and the Mill Creek Line, use gravity flow to convey water approximately 7 miles from the WTP to the City limits. The High Line conveys water to Sorosis Reservoir and the Mill Creek Line conveys water to Garrison Reservoir. Together, these lines have a combined capacity of approximately 7.5 mgd. Each line serves a limited number of customers along its length, in addition to supplying the City's distribution system.

The City's primary municipal groundwater wells are the Jordan Street Well, Marks Well, and Lone Pine Well. The Jordan Street and Marks wells pump directly into the distribution system and the Lone Pine Well has a dedicated pump line to the Intermediate Reservoir. The City recently completed construction of Riverside Wells 1 and 2; each well has a capacity of 1,800 gallons per minute.

The City's distribution system has seven reservoirs with a total storage capacity of 16 MG, approximately 91 miles of distribution system pipeline, 16 service zones, and four booster pump stations.

3. Water Conservation Element

This section addresses OWRD's water conservation element requirements by describing the City's progress meeting historical conservation measures benchmarks and providing future conservation measures and associated benchmarks and additional conservation measures to be implemented by the City.

3.1 Progress Report

This is the City's second WMCP. The City submitted a five-year progress report to OWRD in 2020 describing the City's progress on meeting the conservation benchmarks presented in its 2014 WMCP. Exhibit 3-1 provides an update on the City's progress toward meeting these 2014 benchmarks.

3.2 Use and Reporting Program

The City's water measurement and reporting program complies with OWRD measurement standards in OAR Chapter 690, Division 85. The City's water use records can be found at http://apps.wrd.state.or.us/apps/wr/wateruse_report/.

The City has magnetic meters at Vista Reservoir and its pump station, the Mill Creek, and High Line transmission line intakes at the Wicks WTP, Jordan Street Well, Marks Well, Lone Pine Well, and Riverside Wells 1 and 2. The remaining City wells have in-line prop meters. Data are recorded daily at these locations and are compiled for reporting to OWRD on an annual basis.

3.3 Required Conservation Programs

OWRD requires that all water suppliers establish five-year benchmarks for implementing the following water management and conservation measures:

1. Annual water audit
2. System-wide metering
3. Meter testing and maintenance
4. Unit-based billing
5. Water loss analysis
6. Public education

Exhibit 3-1. Progress Meeting 2014 Conservation Benchmarks

Conservation Measure	2014 Conservation Benchmark	2024 Benchmark Status
Annual Water Audit	The City will continue to annually compare metered water production to metered consumption and estimated unmetered authorized uses to calculate unaccounted-for water.	Continued to compare metered water production to metered consumption and estimated unmetered authorized uses to calculate water losses.
	The City will continue to improve its billing system to provide more detailed consumption records.	Implemented a new billing system in FY 2016/17 which allowed for consumption reports detailing water use by customer class.
	The City will maintain practices to reduce the occurrence of missed meter reads, which results in higher use attributed to the next month's consumption.	The new billing system generates monthly exception reports for missed meter reads. These reports are used to consistently capture all meter reads in the current billing period thus reducing the occurrence of missed meter reads.
System Metering	The City will continue to require metering on all new connections in accordance with City of The Dalles Municipal Code 3.04.110 Meters (Formerly Ordinance 17-1358).	The water system is fully metered, and metering is required on all new connections.
Meter Testing and Maintenance	The City will continue annually testing large meters.	Continued to all test large meter at a rate of approximately 15 to 20 percent per year.
	The City will continue residential meter repair and replacement as needed and will replace meters smaller than 3 inches on a schedule.	Continued replacing and repairing residential meters as needed and replaces meters smaller than 3 inches on the schedule described below.
	The City will set a target to replace 10 percent of the residential meters on an annual basis.	Annual residential meter replacement target revised in 2020 from 10% to 8% to better align with available staffing and funding.
	The City will continue replacing all meters included on the monthly meter malfunction report, generated from meter reading software.	Continued replacing all meters included on the monthly meter malfunction report in lieu of repair.
	The City will implement a program to test its well meters and its magnetic meters.	Though testing of these meters would require removing and shipping them to a certified testing facility, these magnetic meters are inspected annually by the City's meter vendor to confirm proper operation.

Conservation Measure	2014 Conservation Benchmark	2024 Benchmark Status
Rate Structure and Billing Practices	In the next five years, the City will continue to bill customers based, in part, on the quantity of water metered at the service connection.	Continued to bill customers based, in part, on the quantity of water metered at the service connection.
Leak Detection and Repair	Over the next 5 years, the City will conduct leak detection on approximately 26 miles of pipeline, and based on the results of that effort, the City may revisit its annual leak detection efforts.	Purchased and trained City crews in 2017 to use leak detection equipment. Leak surveys of the distribution piping are conducted as time allows. Leak surveys are conducted annually on the two transmission lines. More than 70 miles of pipeline have been surveyed in the last 5 years.
	In the next 5 years, the City will continue to seek funding for major leak repairs to fix the leaks as soon as possible.	Continue to provide funding for major leak repairs to fix the leaks as soon as possible.
	The City will continue to address minor leaks on a priority basis from the annual maintenance budget or from a capital improvement budget established for future years.	Continues to address minor leaks on a priority basis from annual maintenance budget or capital improvement budget.
Public Education	The City will continue to maintain and update its print materials and Web site content about water conservation.	The Public Works Department Communication Plan includes relevant water conservation messaging for various platforms, including newsletter articles, the City website, press releases and Facebook posts, all of which are periodically updated.
	The City will continue to provide water conservation information and items at community events.	Annual water quality report (consumer confidence report) distributed to every water customer has included an article about water conservation.
	In the next 5 years, the City will seek additional partnerships to promote water conservation.	Continue to work with NW Natural to hold the NW Natural Get Ready emergency preparedness event. Distributes information about leak detection and repair, meter access, tips on water budgeting and water conservation at this event.

Conservation Measure	2014 Conservation Benchmark	2024 Benchmark Status
Technical and Financial Assistance Programs	The City will continue to offer rate adjustments for timely leak repair.	Continues to offer rate adjustments for timely leak repair, per The Dalles Municipal Code 3.04.090 Billing, Item K.
	Leak gauges, and lawn watering gauges at the annual Cherry Festival and at the Public Works Department office upon request.	Offered leak gauges and lawn gauges at the Cherry Festival and upon request. Stopped distributing toilet leak detection tablets due to concerns about children mistaking them for candy. Instead, updated water conservation flyer suggests using food coloring.
	Commercial/Industrial customers to discuss water conservation opportunities.	Discussed water conservation opportunities with commercial and industrial customers. Additionally, a question about water conservation measures is included in the industrial discharge permit application, permit fact sheet, and the site inspection form to ensure customers consider opportunities for conservation when applying and City assess opportunities during City review. Upon request, provides technical consultation about industrial scale water reuse and commercial scale water efficient products and processes.
Supplier Financed Retrofit or Replacement of Inefficient Fixtures	The City will continue to offer 1.5 gpm faucet aerators and toilet flappers to customers at the annual Cherry Festival.	The Cherry Festival was temporarily suspended due to COVID, and no suitable substitute events were identified.
Water Reuse, Recycling, and Non-potable Opportunities	The City will continue to explore opportunities for water reuse and recycling.	Upon request, provided technical consultation about industrial scale water reuse and commercial scale water efficient products and processes to industrial customers.
	In the next 5 years, the City will contact industrial users to discuss the potential for water reuse in their operations.	

Conservation Measure	2014 Conservation Benchmark	2024 Benchmark Status
Other Conservation Measures	In the next 5 years, the City will review City ordinances and its building permit review process to find opportunities to encourage water conservation.	Opportunities to incorporate water conservation measures in the City's municipal code were not available, however, City staff keep a running list of revisions that would promote conservation when the opportunity arises.
		Since 2014, ceded building permit authority to Wasco County, reducing the City's ability to use this process to drive conservation. However, recently re-affirmed conservation-related considerations (e.g., water re-use and recycling) found in its wastewater permit review procedural manual and updated this manual to inform permittees of state reuse and recycling rules.

During the next five years, The Dalles plans to initiate, continue, or expand measures that promote more efficient uses of water. These measures and associated benchmarks that The Dalles intends to implement are presented below.

3.3.1 Annual Water Audit

OWRD defines a water audit as an analysis of the water system that includes a thorough accounting of all water entering and leaving the system to identify leaks in the system and authorized and unauthorized water uses, metered, or estimated. The water audit also includes analysis of the water supplier's own water use.

The City conducts water system audits for its distribution system annually. For these audits, the City subtracts water production from consumption. Consumption volumes are comprised of uses at metered connections and estimates of unmetered authorized uses associated with distribution system line flushing. The City's water loss was 8.5 percent in 2022 and averaged 9.6 percent over the previous five years. Water losses were estimated to have exceeded the City's goal of 10 percent or less in 2023 and 2024, as shown in Appendix B.

The City's utility billing system has a fail-safe measure to help ensure accurate consumption volumes are captured by the City. Specifically, the City's billing system generates monthly exception reports for missed meter reads. City staff use the reports to identify missed meters and follow up to resolve the error, helping to ensure customer consumption is documented and used during the annual audit.

The City's water audit includes authorized, unmetered volumes of water used during distribution system flushing activities that are intended to maintain the City's water quality standards. In future audits, the City intends to add authorized, unmetered uses associated with reservoir draining; fill station use; and water used for pressure testing, chlorinating, and flushing new water main lines. In addition, the City will begin to include estimates of water volumes used at hydrants to fill the public swimming pool. Incorporating volumes for these uses will reduce the City's water loss estimates.

In addition to conducting annual water audits for the City's distribution system, the City endeavors to perform audits for the transmission system which includes 14 miles of pipeline (two seven-miles lines). The audit will compare volumes diverted at the South Fork Mill Creek—as read by the master meters located the Mill Creek and High transmission pipelines—and the volumes entering the Garrison and Sorosis Reservoirs (the City's distribution system). The audit also will incorporate consumption of approximately 200 customers who are served directly from the transmission main, enabling the consumption from these customers to be excluded from water loss volumes.[2] The City will conduct an audit of the transmission system in 2025. If the results show water loss of 10 percent or more, the City will implement measures to reduce leakage and perform follow-up audits periodically in order to check the efficacy of those measures. One of these measures may include the replacement of the Mill Creek and High

[2] Consumption by these customers is included in the City's annual water audits.

transmission lines as noted in the City's 2024 WSMP. These steps will help the City reduce the City's own uses of water. In addition, the City determined that it would replace aging, inefficient water-using fixtures and appliances during City facility remodels or building construction projects with high efficiency fixtures and appliances.

Five-Year Benchmarks

- Continue to perform annual water audits.
- Continue to reduce the occurrence of missed meter reads.
- Incorporate additional uses of water into the annual water audit: use during reservoir draining, use of hydrants for new water main line flushing, use at the filling station, and the filling of the public swimming pool.
- Conduct a water audit of the transmissions system and implement water loss reduction measures if leakage exceeds 10 percent.
- Replace water inefficient fixtures and appliances with more efficient options during City facility remodels or building construction projects.

3.3.2 System-wide Metering

The City's water system is fully metered and all new service connections are metered in keeping with the City's Municipal Code 3.04.110 that requires City water services to be metered.

Five-Year Benchmark

- Continue to require meters on all service connections.

3.3.3 Meter Testing and Maintenance

The City's Water Distribution Division installed automated meter reading (AMR) technology on all of its service connection (customer) meters, which involved attaching an encoder receiver transmitter (ERT) to the water meter. This project was completed in 2015. During this project, the City replaced any nonfunctioning meters. This technology improves the accuracy rate of meter reads and, in turn, the accuracy of the City's water audit. The meter replacements that occurred during the AMR installation project improved the ability of the City to capture customer consumption at the locations found to have failed meters.

The City's meter testing and repair program focuses on maintaining the accuracy of customer meters and the City's master meters. The City repairs or replaces any meter found to be malfunctioning or operating outside of its accuracy rating. The City annually tests 10 to 12 of its large and/or high-volume customer meters in the system, which represents about one-fifth of the City's large meters. Large meters are defined as 3-inch or greater in size. Consequently, every large customer meter is tested approximately every five years. Small meters (less than 3-inches in size) are replaced on a schedule based on age and are not tested. These meter maintenance measures help ensure that the City's meters are accurately registering water use at service connections.

The City uses magnetic flow meters for its master meters. These are located at Vista Reservoir (installed in 2011), Wicks WTP (2007), Marks and Jordan Street wells (2013), Lone Pine well (2014), and Riverside Wells 1 and 2 (2024). These meters are inspected annually by the vendor of the meters to verify the electronics continue to meet factory specifications. Master meters are also installed at both ends of each of the two transmission mains, from the WTP (installed in 2008) to the City's distribution system (installed in 2013 and 2020). Magnetic meters cannot be easily tested without removal since they do not have moving parts. The City has a 20-year master meter replacement cycle for its master meters.

In addition to the City's proactive measures, a monthly meter malfunction report is generated from the meter reading software and the City replaces all meters (along with the ERTs) on this list. In addition, meters known to have malfunctioned that are not identified in this report are also replaced. During the reporting period 2014 to 2022, the average annual meter replacement rate for meters identified by the meter reading software was seven percent.

Five-Year Benchmarks:

- Continue testing and repairing or replacing large meters at a rate of approximately eight percent per year.
- Continue replacing small meters at approximately seven percent per year and identifying and replacing small meters that have failed.
- Continue to test the electronics of master meters annually.
- Replace master meters on a 20-year replacement cycle following installation.

3.3.4 Water Rate Structure

The City has a Residential class monthly basic service charge based on meter size and a consumption charge per 10,000 gallons over 10,000 gallons per month at $1.61 per 1,000 gallons. The City also has a charge based on meter size for the Commercial/Industrial class with a volumetric rate of $3.61 per 5,000 gallons.

Residential and commercial customers outside City limits are charged 1.5 times the applicable rates shown in Exhibit 3-1 for bonded water system improvements, in lieu of debt service property taxes collected inside the City. The City also charges contractors for hydrant water usage at commercial volume rate per 1,000 gallons.

Five-Year Benchmark

- Continue to bill customers based, in part, on the quantity of water metered at the service connection.

3.3.5 Water Loss Analysis

The City's water audit identified a water loss in 2024 of 17.5 percent, as noted in Appendix B. (Appendix B was incorporated into this WMCP in response to OWRD's review period comments.) The City has several operational and maintenance measures devoted to water loss reduction.

The City's service connection meter maintenance and repair program is an important component of the City's water loss reduction program. Inaccurate service meters increase water loss, thus the City's program to identify and replace, repair, or recalibrate service connection meters as described in the previous section helps ensure water use is accurately measured at customer connections. The City recognizes the importance of maintaining master meter accuracy as well and has a program to meet accuracy standards for these meters. These meter accuracy measures implemented by the City help ensure the integrity of the City's audits.

Another water loss reduction measure is the City's leak detection and repair program. The annual operations budget for the Water Distribution Division includes an allocation for leak detection surveys. Typically, one to two miles of distribution main are targeted annually to identify suspected leaks using the City's leak detection equipment. City staff conduct these surveys. The City intends to establish a schedule to survey approximately 10 percent of distribution system pipelines annually using its leak detection equipment. The equipment has also been used to survey segments of the two transmission lines in addition to visual inspections that are conducted periodically; these lines are seven miles each in length. Depending on the results of the City's water audit conducted for its transmission system, as noted above, the City may also begin surveying these lines as well. Distribution system leaks also are detected by visual inspection by City staff or by customers who contact the City with concerns.

When discovered, larger leaks are repaired immediately, and minor leaks are repaired based on priority though City staff repair minor leaks discovered at customers' connections promptly. Older lines are typically identified for replacement and the City prioritizes lines constructed of galvanized iron, a leak-prone material. As an example of one of the City's line replacement projects, the City replaced 530 feet of galvanized mainline pipe on West 16th Street and Pentland Street in fiscal year (FY) 2022/23.

The City is able to make repairs quickly due to consistent funding made available through the annual maintenance or capital improvements budgets.

To improve its leak detection capabilities, the City will explore alternate means of leak detection systems, such as the evaluation of the use of leak correlator meters. These leak-sensing meters can be installed throughout the distribution system at strategic locations and allow for leak locations to be "correlated" between two meters. These types of meters deployed in a water system will more accurately pinpoint leaks compared to the City's existing leak detection equipment and are always "on", thus capable of identifying and reporting leaks in real-time. If the City deems this system is compatible with the existing system and affordable, the new meter-correlators will be incorporated into the meter replacement program.

If water losses continue to exceed 10 percent two years following issuance of a final order by OWRD approving this WMCP, the City will provide OWRD a description and analysis identifying potential factors for the loss and select actions for remedy. If, after five years from issuance of the final order water loss continues to exceed 10 percent, the Dalles will implement one of OWRD's prescriptive water loss reduction measures.

Benchmarks

- Continue to perform targeted leak detection surveys in the distribution system.
- Establish and implement a schedule to survey approximately 10 percent of the distribution system annually within two years.
- Continue to repair major leaks immediately and track, document, and repair minor leaks based on a prioritized leak list.
- Explore purchasing a type of meter that also serves as a correlator to assist with detecting leaks in the water distribution system within five years.
- If water loss continues to exceed 10% within two years of the final order approving this WMCP, submit to OWRD a description and analysis identifying potential factors for the loss and select actions for remedy.
- If, after five years from issuance of the final order approving this WMCP, water loss continues to exceed 10 percent, implement one of OWRD's prescriptive water loss reduction measures.

3.3.6 Public Education

The City has relied on a variety of approaches to educate the public about water conservation. Outreach efforts have included attendance at community events, such as the annual Cherry Festival, where the City staffed a booth. Information distributed at community events included information and free items that promote efficient indoor and outdoor water use, including:

- For leaking toilets: Dye tablets and toilet flappers
- For efficient outdoor watering: Hose nozzles with a watering brochure, Master Gardeners information, and rain gauges to measure water applied
- For water-efficient landscaping: Master Gardeners information, AWWA brochures, and a drawing for free drought-tolerant plants
- For reduced flow: 1.5 gpm faucet aerators
- For shorter showers: Shower timers
- For leaky faucets: Leak gauge with conversion to annual gallons wasted
- For children, grades K-3 and 4-6: Booklets on water conservation in English and Spanish
- For children: Stickers and pencils with water conservation messages

The Cherry Festival was postponed in 2020, and the City intends to resume its participation in the event in 2025. In addition, in 2019, the City participated with NW Natural in bringing NW Natural's "Get Ready" emergency preparedness event to The Dalles. Dual purpose messaging (emergency preparedness and water conservation) was presented at this event. For example, the City promoted the prevention of frozen pipes at the event that can help prevent leaks and reduce leaks which can cause flooding in homes during severe winter weather. In addition,

messaging also included the topic of maintaining meter access because water must be shut off to repair leaks within a building. The City will continue to partner with NW Natural and participate in this event when it is offered.

The City's Public Works Department administers its conservation program. Department staff developed a Communications Plan that defines the City's approach to marketing, outreach, and communication practices related to water conservation, among other topics. The plan identifies the use of various media to inform customers about water conservation on an annual cycle, such as use of the City's newsletter, website, brochures, press releases, and social media posts. Topics and methods of distribution include:

- Leak Detection & Repair, Be a Leak Seeker: published in the City's newsletter, website, at events, and as a brochure is distributed by staff when a potential leak is discovered on the customers' sides of meters.
- Prevent Frozen Pipes (leak prevention): published in the newsletter, on the website, in brochures, in bill insert, and issued in press releases
- WaterSense Find It, Flag It, Fix It: published in the newsletter and on the website
- WaterSense Sprinkler Spruce Up: published in the newsletter
- Water Conservation/Know Your Water Budget: published in the newsletter, on the website, in brochures, and Water Quality Report
- Meter Access: published in the newsletter, in brochures for distribution at events and to customers, and as a bill insert.

Written materials in the form of flyers and brochures are available that describe technical information on water efficient practices. Additional technical information is also available on the City's website, such as an irrigation calculator. These materials and conservation content found on the City's website are further described in Section 3.4.1, Technical and Financial Assistance.

The City contracts for Spanish translation of all water conservation flyers and brochures to reach a wider audience. The water conservation print materials described above are available to the public at the Public Works Department office and City Hall Finance Department where utility bills are paid. In addition, the City delivers an annual Water Quality Report (Consumer Confidence Report) to every water customer that has included an article about water conservation.

Five-Year Benchmarks

- Continue to provide water conservation information at community events, such as the Northwest Natural Get Ready event and Cherry Festival.
- Continue implementing Communications Plan.
- Continue making outreach materials available in Spanish.
- Continue to maintain and update as necessary and distribute its water conservation

materials using a variety of media and making this information widely available.

3.4 Additional Conservation Measures

OWRD requires municipal water suppliers that serve a population greater than 1,000 and propose to expand or initiate the diversion of water under an extended permit for which resource issues have been identified, or if the population served is greater than 7,500, to provide a description of the specific activities, along with a five-year schedule, of several additional conservation measures. The City's population is greater than 7,500 and proposes to initiate the diversion of water under an extended permit with identified resources issues, therefore, this requirement applies.

3.4.1 Technical and Financial Assistance Programs

The City's conservation program offers a variety of technical and financial assistance measures. Technical assistance measures that promote water conservation include the following existing services:

- The City's website provides a variety of indoor and outdoor water saving techniques. Examples include an irrigation calculator, recommended watering rates, and outdoor irrigation system checklist designed to help customers identify and fix inefficiencies in the system. The website also focuses on indoor water efficiency, identifying methods to identify and repair leaks.
- A "Find it, Flag It, Fix It" flyer and another flyer describing how to identify and repair leaks is available to customers in print and on the City's website.
- The annual Water Quality Report frequently includes irrigation tips because the report is distributed near the beginning of the irrigation season.

The City provides interested customers with leak gauges to identify leaks and to increase customer awareness about water losses. The City provides shower timers upon customer request to inform customers of shower lengths and encourage conservation.

Financial assistance comes in the form of adjustments to water bills for repaired leaks. A City ordinance (General Ordinance No 91-1133, Section 9 (j)) allows a rate adjustment for customers who repair leaks promptly. Under the ordinance, customers that have cause to believe a leak may exist between the meter and the customers' premises, these customers may notify the Public Works Department. Customers that repair these leaks within ten days after notification to the Public Works Department, or within a time schedule approved by the Public Works Department, can have their customer bill adjusted by up to one-half of the total estimated excess consumption over the previous thirty days.

Five-Year Benchmarks

- Continue to use print materials and online digital content on the City's web site to provide technical assistance to customers.

- Continue to offer invoice adjustments for timely leak repair.

3.4.2 Supplier Financed Retrofit or Replacement of Inefficient Fixtures

The City offers its customers items that promote efficient water use indoors and outdoors. These items include 1.5 gpm faucet aerators, toilet flappers, and outdoor hose nozzles (that come with a brochure about efficient watering). These items are available at the Public Works Department and the Finance Department and are also distributed at community events.

Five-Year Benchmark

- Continue to offer fixture replacements to customers free of charge and make these readily available.

3.4.3 Rate Structure and Billing Practices that Encourage Conservation

Since 1996, City water rates have included both a base charge and a volumetric charge. The volumetric charges encourage efficient use of water.

The City bills customers monthly to provide relatively quick feedback on water usage to customers. Customers' bills include usage for the month billed and for the same month in the previous year, allowing customers to detect changes in use over time. The City also has printed conservation messages on bills on the topics of frozen pipe prevention and meter access related to emergency water shut off.

Five-Year Benchmarks

- Continue to bill customers based, in part, on the quantity of water metered at the service connection and maintain monthly billing schedule.
- Continue to periodically add water conservation messages onto its bills.

3.4.4 Water Reuse, Recycling, and Non-potable Opportunities

The City re-uses treated effluent at its wastewater treatment plant (WWTP) for clarifier sprayers, gravity belt wash down, and digester gas defoaming. The City also seeks opportunities for reuse or recycling of wastewater at some industrial customers' sites. During the City's reviews of wastewater discharge permit applications, the City has worked with at least one applicant to determine if reuse or recycling of wastewater or pre-treated wastewater is feasible. Common opportunities include the use of wastewater for cooling purposes or non-potable irrigation applications. The City will continue to explore these opportunities with permittees.

Five-Year Benchmarks

- Continue to re-use treated effluent during wastewater treatment plant operations.
- Continue to explore additional opportunities for wastewater reuse and recycling as part of the wastewater discharge permitting process.

3.4.5 Other Conservation Measures

In addition to the conservation measures previously discussed, The Dalles also promotes other means of conservation, including the following.

- City ordinance (General Ordinance No. 91-1133, Section 6) allows the City to terminate water service when a customer has been convicted for a violation of water restrictions. This helps maintain the integrity of The Dalles annual water audit.
- City staff participates actively in the American Water Works Association (AWWA), including the Pacific NW Section of AWWA. City staff participate in the Water Conservation Committee of the local section of AWWA and served recently as chair of the committee. Membership and participation in the association allow City staff to stay abreast of the latest conservation topics.

Five-Year Benchmarks

- Retain the ability to remove customers from the water system when customers violate water restrictions.
- Continue membership and participation in water industry organizations with a focus on water conservation.

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4. Municipal Water Curtailment Element

This section satisfies OWRD's requirements to describe past supply deficiencies and current capacity limitations, include stages of alert and associated triggers, and provides curtailment actions for each stage.

4.1 Introduction

This water curtailment plan describes proactive measures that The Dalles can take to reduce demand and describes potential alternative supplies during short-term water supply shortages. The goal of this water curtailment plan is to minimize the impacts of these shortages and to ensure that the City can maintain at a minimum an adequate water supply for public health and safety during a shortage.

4.2 History of Supply Deficiencies

From the 1980s through 1996, the City regularly implemented its water curtailment plan several times each year during high water use periods (typically May - September). Prior to 1996, the City charged residential customers a flat rate for water and did not meter customers' water use. Since achieving a fully metered residential customer base and implementing a rate structure based, in part, on the amount of water used for residential customers in late 1996, the City has not needed to curtail water use except on two occasions. Flooding in 1996 resulted in the temporary loss of the City's WTP. The flood occurred in February, a low water use time of year. The WTP was off-line for three days due to flood debris that buried the intake, and it continued to remain off-line for a total of about one month due to damage that occurred to numerous sections of the water transmission lines from the WTP to the City. The City was able to provide sufficient supply from its groundwater sources, but customers outside the City that were served from the surface water supply transmission lines were without water service for the month. In 2002, a threat from wildfire necessitated that the City's WTP be taken off-line for four days. These two events caused the City to request voluntary water curtailment by its customers. The City has not experienced another shortage since 2002.

4.3 Capabilities to Address Shortages

The Dog River and South Fork Mill Creek watersheds have the potential to be impacted by fire and volcanic activity. In the summer of 2013, a fire in the municipal watershed threatened the City's WTP and denuded some areas of vegetation around the streams that contribute to the City's supply. This increased the threat of the WTP becoming overwhelmed by water clogged with ash and sediments during heavy rain events. Though such an event did not occur, a fire in 1967 that burned in the municipal watershed was followed by heavy rains, resulting in enough ash and sediment that the City had to shut the WTP down for an extended period of time. The effects of the 1967 fire on water quality were still evident 20 years later. In addition, the City's watersheds are immediately adjacent to and downwind from Mt. Hood and may potentially be impacted by volcanic activity.

In the event that the City's surface water sources are unavailable, the City could rely on groundwater. Groundwater can provide up to 11.9 cfs (7.7 mgd) which exceeds the City's 2022 ADD of 3.55 mgd, however this is less than the City's 2022 MDD of 13.0 cfs (8.39 mgd). If the City's groundwater system was unavailable from contamination in the aquifer for example, the City would rely on surface water to meet system demands, as available. The City's WTP capacity is limited to a maximum of 8.2 cfs (5.3 mgd), which is greater than the City's 2022 ADD, but lower than the 2022 MDD. In sum, events that would eliminate the use of either surface or groundwater systems or both would likely require the City to initiate curtailment during peak season.

If the City's surface or groundwater sources are limited or unavailable, the City could rely temporarily on storage from the City's distribution system reservoirs. These reservoirs could meet ADD for more than four days and MDD for less than two days, assuming these reservoirs are full at the onset of use. The City may also rely on water supply trucks to bring in water, provide bottled water to customers during severe shortage situations, or open the interconnection with Chenowith PUD to access this source of emergency supply.

4.4 Evaluation of Capacity Limitations

Under normal conditions, the combination of the City's surface and groundwater systems can meet system demands any time of the year. Thus, the City does not have any current capacity limitations that impinge on its ability to meet demand.

4.5 Curtailment Event Triggers and Stages

The City has adopted a four-stage curtailment plan that will be implemented during certain water supply shortages. These shortages could result from several feasible scenarios identified by the City, including flooding (from the Columbia River or Mill Creek), mechanical or electrical equipment failure in the system, fires in the watershed that directly or indirectly affect surface water quality, landslides or earthquakes that affect diversion or transmission infrastructure, and source water contamination. These stages may be implemented successively (from Stage 1 to Stage 2), or the City may bypass stages (from Stage 1 to Stage 3).

Each stage is initiated or triggered when defined conditions are met. These "initiating conditions" serve as guidelines and may be changed to reflect the water shortage event at hand. In addition to these initiating conditions, The Dalles will also consider the knowledge and judgment of staff members familiar with the water system as criteria to determine when the curtailment plan should be implemented, and which stage of curtailment should be implemented. Staff members may consider the extent of system damage or contamination, duration of repair, costs, fire hazards, and weather forecasts, among other factors to determine The Dalles' response to a water supply shortage.

Exhibit 4-1 presents the four curtailment stages and initiating conditions. The City's initiating conditions are defined by the relationship between system demand and water system capacity. Generally, when system demand approaches, is equivalent to, or exceeds the capacity of the City's water system, one of the stages of this curtailment plan may be implemented. Water

system capacity is defined as the combination of supply available from the City's surface and groundwater systems and the operational capacities of the distribution and transmission systems and the WTP.

Exhibit 4-1. Curtailment Stages 1 through 4

Curtailment Stages	Initiating Conditions
Stage 1: Water Shortage Advisory	System demand anticipated to approach or approaches capacity of water system for 3 days or more.
Stage 2: Moderate Water Shortage Alert	System demand anticipated to reach or has reached capacity of water system for 3 days or more.
Stage 3: Severe Water Shortage Alert	System demand anticipated to exceed or exceeds capacity of water system for 2 days or more and distribution system reservoir volumes anticipated to decline or are declining but are anticipated to meet volumes reserved for fire flow and basic health and safety needs.[1]
Stage 4: Water Shortage Emergence	System demand anticipated to exceed or exceeds capacity of water system and distribution system reservoir volumes anticipated to decline or have declined below volumes reserved for fire flow and basic health and safety needs.[1]

[1]The City's 2024 Water System Master Plan identified minimum recommended volumes to maintain in each of the City's distribution system reservoirs to meet emergency (standby) and fire suppression needs. This combined volume for these is currently 8.5 MG. See WSMP for more information.

4.6 Authority and Enforcement

The Dalles municipal code Title 3 Chapter 3.04 states that the City Manager has the authority to declare a water emergency. Upon that declaration, the City Manager has authority to impose water use restrictions deemed necessary to protect the health, safety, and welfare of citizens and will notify the public of the water use restrictions. The City Council has the authority to confirm, change, or terminate the restrictions imposed by the City Manager.

4.7 Communication

The City will notify customers of the activation of each stage through local newspapers or print media, local radio, television, its Web site, mailings, or other means. The City's communications with customers will describe the activities that may be curtailed (under Stage 1) or are required to be curtailed (all other stages) and will provide water conservation measures that will help its customers reduce use.

4.8 Curtailment Plan Implementation

Each of the four stages of alert includes specific curtailment measures applicable to the City and the City's customers that are designed to offset demand. These measures are described below for each stage of alert. These measures may be modified or removed, and additional measures may be added by the City to address the specific supply shortage at hand.

Curtailment measures are not intended to negatively affect the health and safety of the City's customers. The City may modify or remove measures that unintentionally result in these types of impacts or may provide waivers to individual customers or groups of customers for specific uses.

4.8.1 Stage 1: Water Shortage Advisory

Under Stage 1, the City may take the following actions to curtail water use:

- Ask customers to voluntarily decrease water use (indoor and outdoor) using, for example, water conservation tips recommended by the City.
- Request that City staff and customers caring for large turf areas, such as schools, parks, and cemeteries, voluntarily reduce water use.
- Require that customers using City water for irrigation purposes use a water delivery attachment on the end of the hose, such as a sprinkler, soaker, or other sprinkling device. Open hose irrigation is not allowed.
- Limit City water use for street sweeping and for hydrant and water line flushing.

4.8.2 Stage 2: Moderate Water Shortage Alert

In Stage 2, the curtailment actions under Stage 1 become mandatory and the following additional measures will be implemented:

- Irrigation of landscapes and gardens will be restricted from 8 pm to 8 am.
- City to encourage vehicle washing during regulated irrigation hours only. All vehicle washing not performed at a washing station where wash water is recirculated, such as a commercial car wash, must be done using a hand-operated spray nozzle device equipped with a spring-loaded trigger assembly or other mechanism in working order, which can be used to stop the flow of water.
- Restrict sprinkler irrigation of parking strips to the above established irrigation hours; water runoff into the streets should be kept to a practical minimum.
- Prohibit the use of water for cleaning or washing down sidewalks, driveways, parking lot areas, or other similar exterior cleaning uses at all times.
- Limit hydrant and water main flushing to emergencies only.
- Cease washing City vehicles except at facilities equipped with water re-circulation equipment or if necessary for public health or safety (e.g., garbage trucks or food transport) or as required by law.
- Ask commercial and industrial customers to voluntarily reduce non-essential water use.
- City to cease recharging the aquifer under the City's ASR program.

4.8.3 Stage 3: Severe Water Shortage Alert

In addition to curtailment actions under Stage 2, the City may take the following actions to curtail water use under Stage 3:

- Prohibit use of City water to clean, fill, or maintain levels in decorative streams, ponds, or fountains unless they have recirculating water systems.
- Prohibit use of City water to fill or top off swimming pools and hot tubs.
- Prohibit the installation of new turf and landscape.
- Impose a temporary moratorium on new water delivery connections and temporary water delivery (i.e., construction operations).
- Ask large water volume commercial and industrial customers to ~~implement curtailment plans developed by these customers to~~ eliminate non-business-essential use.
- Prohibit the use of City water to wash vehicles.

4.8.4 Stage 4: Water Shortage Emergency

In addition to curtailment actions under Stage 3, the City may take the following actions to curtail water use under Stage 4:

- Prohibit outdoor water use.
- Request that residential customers limit water use to those uses necessary for basic sanitation, drinking, and eating.
- In a Stage 4 emergency water shortage, the City may implement a water allocation regimen based on customer type, for example:
    - Single-family-- Hybrid of Per-capita and Percentage Reduction
    - Multi-family-- Hybrid of Per-capita and Percentage Reduction
    - Commercial-- Percentage Reduction
    - Industrial-- Percentage Reduction
    - Govt/Institutional-- Percentage Reduction
    - New Customers-- Per-capita (no allocation for new landscaping during Stage 4).

The percentage reductions for each customer class will be based on the customers' previous year's water bills as available or based on historical consumption of groups of customers.

4.9 Water Allocations

The City has prioritized the use of available potable water during shortages. Water allocations are established for all customers according to the following ranking system. Ranking of 1 is most critical and ranking of 5 least critical:

1. Minimum health and safety allocations for indoor residential needs (includes single-family, multi-family, hospital and convalescent facilities, retirement and mobile home communities, student housing, firefighting, and public safety).
2. Institutional/government operations (where water is used for manufacturing and for minimum health and safety allocations for employees and visitors), commercial, industrial to maintain jobs and economic base of the community (not including landscape uses).
3. Newly installed landscaping or shrubbery.
4. Existing landscaping.
5. New customers, i.e., proposed projects without building permits when the shortage is declared.

4.10 Drought Declaration

If a declaration of a severe drought in Wasco County is declared by the Governor per ORS 536.720, the Oregon Water Resources Commission may order political subdivisions within any drainage basin or subbasin to implement a water conservation or curtailment plan or both, approved under ORS 536.780. The conservation and curtailment elements of this WMCP meet these requirements. If the City's service area falls within a severe drought area declared by the Governor, such as Wasco County, the City will consider whether curtailment measures are needed to meet system demands. If ordered to implement a water conservation or curtailment plan during a declared drought, the City will comply by implementing the water conservation and curtailment provisions of this WMCP. Regardless of whether curtailment is needed, the City will continue to encourage customers to conserve water.

5. Water Supply Element

This Water Supply Element satisfies the requirement to describe the City's current and future water delivery areas and population projections, demand projections for 10 and 20 years, and the schedule for when the City expects to fully exercise its water rights. This section also presents the City's projected water needs and the available sources of supply, provides an analysis of alternative sources of water, and describes required mitigation actions.

5.1 Delineation of Service Areas

The City's Urban Growth Boundary (UGB), as shown in Exhibit 2-1, describes the boundary of the City's future water service area during the 20-year planning period of this WMCP. Within the planning period, the City anticipates growth will occur within the service area as infill and development of underdeveloped properties. The service area also may expand by 2044 to the areas identified in Exhibit 2-1 as outside the service area, but within the City's Urban Growth Boundary, generally to the south of the existing city limits.

5.2 Population Projections

As part of the WSMP update, the City conducted a population projection in 2023 that was based on the latest population forecast conducted by PSU (2020) for the City's UGB, less the estimated population residing in the Chenowith PUD service area. The Chenowith PUD service area population was assumed to remain constant over the 20-year planning period while the population within the City's service area was increased using an average annual growth rate (AAGR) of 0.6 percent per PSU's forecast. Future populations of the City's service area are presented in Exhibit 5-1.

Exhibit 5-1. Projected Water Service Area Population

Year	Population
2024	13,516
2034	14,534
2044	15,615

The City's service area population is anticipated to increase by 2,099 persons from 2024 to 2044.

5.3 Demand Forecast

The City conducted a demand forecast as part of the update to the WSMP and the results are presented in Exhibit 5-2. Future water demand was estimated for residential and non-residential consumption, then aggregated with an estimate of water loss of 10 percent to obtain the results shown in Exhibit 5-2. The City used a per capita consumption approach to estimate future residential consumption by multiplying the maximum annual per capita consumption of the residential class observed from 2019 to 2022 of 107 gallons per capita per day (gpcd) by the estimated service area populations in 2034 and 2044. (The maximum annual per capita consumption was selected as a conservative approach to forecasting demand.) Generally, non-residential demand was forecasted by increasing existing demand proportional to population growth and in cases of the current and future largest users, demand was held flat or increased based on the future estimates provided by the users. The projected ADDs for residential and most non-residential demands were multiplied by a peaking factor of 2.4, the maximum observed since 2017 (2020 and 2022). Peaking factors for the largest users were lower than 2.4 and based on the historical data or future estimates as provided by the users.

Exhibit 5-2. Projected Demands by Annual Rate, 2024, 2024, 2044

Year	ADD (mgd)[1]			MDD[1] (mgd)	MDD[1] (cfs)
	Residential	Non-Residential	Total		
2024	1.6	2.6	4.2	9.3	14.4
2034	1.7	4.2	5.9	14.9	23.1
2044	1.7	5.7	7.4	15.6	24.1

[1] Demand includes a water loss factor of 10 percent.

In addition to the City's annual and maximum day demands, the WSMP also projected monthly demands for 2034 and 2044. These projected demands are shown in Exhibit 5-3. Because the City's sources of supply are subject to seasonal and annual limitations on water availability, it is important to consider not only the City's annual and maximum instantaneous demands (i.e., use measured in cfs), but also the timing of those demands in relation to water availability requires consideration of monthly volumes. For example, peak season demands are greatest when the City's surface water sources of supply have the lowest flows. This is discussed in greater detail in Section 5.4.

Exhibit 5-3. Projected ADD by Month and Rate, 2034 and 2044

	2034 (mgd)	2044 (mgd)
January	4.08	4.24
February	4.41	4.59
March	4.71	4.90
April	6.83	7.11
May	9.01	9.38
June	11.74	12.22
July	12.90	13.43
August	11.18	11.64
September	9.19	9.57
October	6.39	6.65
November	4.36	4.54
December	4.18	4.35

5.4 Schedule to Exercise Permits and Comparison of Projected Need to Available Sources

Future demands are anticipated to increase within the 20-year planning period of this WMCP, with projected maximum day demand reaching 24.1 cfs (15.6 mgd) by 2044 (see Section 5.3). As discussed in Section 2, the City's estimate of the total rate of reliable water supply (surface and groundwater) during the peak season is currently 13.4 cfs (8.7 mgd) in consideration of operational constraints and assuming the City's WTP is operating at its typical summer low flow capacity (5.4 cfs). In 2025, the Riverside Well 1 will become operational and Riverside Well 2 will be operational within the 20-year planning horizon. These wells are anticipated to provide up to 6.01 cfs for an anticipated 2044 peak season system capacity of 19.41 cfs. Exhibit 5-4 describes the City's groundwater and surface water systems' future capacities.

Exhibit 5-4. Anticipated 2044 Peak Season System Capacity

System Capacity	Maximum Capacities (cfs)
Groundwater Capacity	
Firm Capacity (Marks and Lone Pine Wells only)	8.0
Add Riverside Wells 1 & 2 (future)	6.01
Groundwater Capacity Subtotal	*14.01*
Surface Water Capacity (reliable summer supply)	
Wicks WTP	5.4
Surface Water Capacity Subtotal	*5.4*
Grand Total	**19.41**

The 2044 MDD of 24.1 cfs (15.6 mgd) exceeds the City's reliable water supply of 19.41 cfs, resulting in a potential deficit in the City's ability to meet the maximum day demand of 4.69 cfs by 2044.

As described in Chapter 2, as part of the City's Water System Master Plan Development, Jacobs modeled natural flows in the City's municipal watershed and considered potential impacts of climate change on the timing and amount of flow available under the City's water rights. Water availability during a 10 percent exceedance flow scenario is shown in comparison to the City's projected demands in Exhibit 5-5. For the purpose of comparing supply and demand to units specified in the City's water rights, Exhibit 5-5 shows total monthly supply and demand in terms of acre-feet.

Exhibit 5-5. Anticipated 2044 Peak Season System Capacity

Month	Total Demand (AF)		Water Supply Available (AF)			Additional Water Supply Needed (AF)	
			Dog River[1]	South Fork Mill Creek	Total		
	2034	2044				2034	2044
January	388	404	871	123	994	0	0
February	379	394	828	111	939	0	0
March	448	466	958	123	1,081	0	0
April	628	654	767	119	886	0	0
May	857	893	826	123	949	0	0
June	1,081	1,125	205	119	324	757	801
July	1,227	1,278	16	38	54	1,173	1,224
August	1,063	1,107	30	123	183	911	954
September	846	881	120	119	209	607	642
October	608	633	205	123	328	280	305
November	401	418	299	119	418	0	0
December	398	414	871	123	813	0	0
				Total Supply Deficit without Crow Creek Storage (AF)		3,728	3,926
					Crow Creek Available Storage (AF) [4]	800	800
				Total Supply Deficit Less Crow Creek Certificated Storage (AF)		**2,928**	**3,126**

[1] As part of a recent expansion of the Dog River Pipeline, the City agreed to provide a bypass flow of 0.5 cfs during August through October. This bypass flow is reflected in the Dog River Supply.

[2] Calculated as follows: total demand minus total natural flow supply available.

[3] Additional water supply needed includes the total volume of water that must be supplied from sources other than natural flow, including the City's existing wells. Because 800 AF of existing Crow Creek storage is considered reliable, this is shown in the figure.

[4] The City's certificated storage right, (Certificate 44917) authorizes storage of up to 955 acre-feet, and the current available storage is 800 acre-feet.

To meet this deficit, the City developed a multi-pronged approach. Over the short-term, the City plans to commence testing under its ASR Limited ASR License and obtain Limited ASR Licenses for artificial groundwater recharge (AR) testing and recovery to supplement the sources of supply for the City's ASR Limited ASR License. (See Section 5.8 for more information about the City's plans for AR.) Over the long-term, the City will evaluate development of additional Crow Creek Reservoir storage or use of water from the Columbia River.

The City holds surface water Permit S-49653 for use of up to 40 cfs from the Columbia River and Permit S-53930 for use of up to 2,100 AF of stored water in an expanded Crow Creek Reservoir (stored under

Permit R-13105). Since both permits individually authorize water in quantities that exceed the projected 20-year deficit in supply, the City will seek to develop one of these rights within the planning period of this WMCP. The City has not begun to develop either source of supply and the City recognizes that development of either source will require significant investment in planning, permitting, and construction of the works necessary to access these sources. To develop Permit S-49653, the City must construct an intake, transmission lines, and a water treatment plant, among other water system improvements. To develop Permit S-53930, the City would need to raise the height of the Crow Creek Reservoir dam to impound a sufficient volume of water to meet the City's future needs.

The City will perform a comprehensive study to evaluate both options prior to selecting the option that will best meet the City's long-term needs; however this study has not been conducted, and the City is not prepared to select one of these supply options at this time. The City anticipates selecting and beginning to develop one of these sources within the next ten years. Prior to expending the resources necessary to evaluate and then develop either permit, the City seeks certainty from OWRD that the agency would favorably consider authorizing access to either of these sources of supply.

Based on the analysis of future demand described in the previous section, the City has identified the future quantity of water needed from *extended* Permits S-49653 and S-53930. The City seeks access to Permit S-49653 at a rate equivalent to the projected MDD in 2044 of 24.1 cfs of the 40 cfs authorized under the permit. Use of 24.1 cfs will allow the City to meet the 2044 projected MDD. Even if some of the City's operational constraints were alleviated through modification to existing infrastructure or construction of new infrastructure, these system changes would not alleviate the need to rely on the Columbia River as a redundant source of supply in the event that the City's current surface and groundwater sources of supplies are unavailable. Providing system redundancy for the City's groundwater system is important due to the location of the City's primary wells in a Critical Groundwater Area. Redundancy of the City's active surface water supplies is necessary due to the potential for drought, fires, or volcanic activity to take the City's surface water supplies offline.

As shown in Exhibit 5-5, if the City were to meet its future water needs through expansion of Crow Creek Reservoir, access to the full volume of water (2,100 AF) under Extended permit S-53930 (use of stored water from expanded Crow Creek Reservoir) would be needed to meet demands without further increases in groundwater pumping beyond the typical volume of the City's water use over the past five years.

In the short-term, the City plans to use its ASR system under AL-25 to help meet demand while the City pursues its long-term plan to develop either Permit S-49653 or Permit S-53930. AL-25 allows diversions of up to 5.57 cfs (2,500 gpm) per well. ASR Riverside Well 1 is expected to be operational with storage and recovery of water under AL-25 beginning in 2025. The rate of recovery from this well is expected to be 4 cfs (1,800 gpm), a rate that exceeds the rate necessary to meet MDD for the next several years, in combination with the City's current reliable sources of supply. While use of ASR will increase the rate available to the City to help meet peak season demand, the City may reach a point when water diverted for aquifer recharge limits the rate of water available for non-peak season use. Moreover, AL-25 is not a secure source of supply as compared to the security of a water right. Thus, the City considers its ASR program a short-term solution to meet demand.

In summary, the City anticipates meeting a portion of its projected demand over the next 20 years using its existing certificated surface water rights and storage to the fullest extent possible, while continuing to use groundwater to supplement surface water supplies during the summer months. The remainder of demand and redundancy needs will be met by gaining access to 24.1 cfs of water using Permit S-49653. Alternatively, the City could meet future demand by gaining access to 2,100 AF using Permit S-53930, which will also provide for system redundancy for the City's groundwater supplies. The City will select one of these sources of supply after further analysis of both options. Thus, the City requests access to 24.1 cfs by extended Permit S-49653 and the 2,100 AF authorized volume by extended Permit S-53930, however intends only to use either Permit S-49653 or Permit S-53930.

As described in the City's approved permit extensions, the City currently projects completing development of Permit S49653 by 2073 and S-53930 by 2041.

5.5 Alternative Sources

OWRD requires an analysis of alternative sources of water to see if any initial diversion of water allocated under existing permits is necessary to meet future water demand. The City intends initial diversion of water allocated under one of its existing Permits S-49653 or S-53930 during the planning period of this WMCP; therefore, this rule applies. Additionally, OWRD requires that if acquisition of new water rights will be necessary within the next 20 years to meet future needs, the City must also perform a similar analysis of alternative sources. Since the City intends to seek authorization for an artificial groundwater recharge (AR) Limited ASR License and permit, this section of the rule may also apply.

5.5.1 Conservation Measures

The City intends to continue implementing its water management and conservation program and to add additional water conservation measures as appropriate over the 20-year planning horizon of this WMCP. This could delay the need for additional supply. However, even with an assumed conservation savings of 5 percent (equivalent to 1.2 cfs in 2044) in addition to the savings the City likely realized as a result of implementation of its existing conservation program, the City will still need to pursue initial diversion of water under one of its existing permits to meet projected demands.

The primary goal of the City's ASR and AR systems is to increase the resiliency of the City's supply. While water conservation measures can help to reduce demand, water conservation would not provide the City with the same operational benefits of maintaining static water levels in the Dalles Pool aquifer.

5.5.2 Interconnections

The City has an interconnection with Chenowith PUD that serves as an important source of emergency water supply for the City. However, Chenowith PUD is unlikely to be able to provide supplemental supplies to The Dalles beyond those necessary for emergencies. Chenowith PUD relies entirely on groundwater to meet its system demands from aquifer(s) within The Dalles Critical Groundwater Area. Given the large quantity of water needed by the City to meet future demand and the susceptibility of the aquifer(s) to drawdown, the City's use of these rights may exceed the sustainable annual yield of the aquifer(s). The City has not explored opportunities to obtain water from providers other than Chenowith PUD via interconnections because the distances between the City and other large municipal water providers would make the expense of constructing necessary infrastructure cost-prohibitive.

5.5.3 Cost Effectiveness

OWRD requires an assessment of whether the projected water needs can be satisfied through other conservation measures that would provide water at a cost that is equal to or less than the cost of other identified sources.

As noted in Section 3, the City has committed to maintaining its existing conservation measures and enhancing its conservation program by adding new measures. These actions will help the City continue to be a good steward of the environment by reducing long-term demands. However, demands will outpace any potential savings realized through conservation over time and the costs associated with the City gaining access to Permits S-49653 or S-53930 will be necessary regardless of conservation efforts. The City re-iterates its commitment to conservation, though recognizes that water conservation alone cannot preclude the City's need to expand diversion of water under Permits S-49653 or S-53930.

With respect to a new water right for aquifer recharge: as the City is already constructing all the necessary infrastructure to improve its water supply resiliency through ASR, the requested AR limited license and permit and associated compliance testing would add little additional cost to the project.

5.6 Quantification of Projected Maximum Rate and Monthly Volume

OWRD requires a quantification of the maximum rate of withdrawal and maximum monthly use if expansion or initial diversion of water allocated under an existing permit is necessary to meet demands during the planning period of this WMCP. The City intends to begin diverting water allocated under Permits S-49653 or S-53930 during this time frame, therefore, this rule applies.

The City intends to divert water under Permit S-49653 at the maximum authorized rate of 24.1 cfs. Usage at 24.1 cfs 24 hours per day over a 30-day period translates into a monthly volume of water equal to approximately 467 MG.

Assuming Permit S-53930 is used at the maximum allowable volume of diversion of 2,100 AF over a 12-month period, the average use would equal approximately 175 AF during a one-month period.

5.7 Mitigation Actions under State and Federal Law

For expanded or initial diversion of water under an existing permit, OWRD requires that the water supplier is to describe mitigation actions it is taking to comply with legal requirements of the Endangered Species Act, Clean Water Act, and other applicable state or federal environmental regulations. The City currently is not taking mitigation actions in response to legal requirements associated with its permits. However, the City is aware that it is subject to conditions establishing flows in the Columbia River identified by the Oregon Department of Fish and Wildlife that are necessary to maintain the persistence of listed stream-flow dependent species per OWRD's final order extending the completion date of Permit S-49653 held by The Dalles. The Dalles is also aware of federal restrictions on new diversions on the Columbia River that require mitigation for additional withdrawals of water.

5.8 New Water Rights

If a municipal water supplier finds it necessary to acquire new water rights within the next 20 years in order to meet its projected demand, an analysis of alternative sources of the additional water is required. As shown in the above analysis, the City's water rights are sufficient to meet projected demands during the next 20 years, however, the City intends to obtain an AR Limited ASR License for recharge to supplement the City's ASR system.

The purpose of obtaining a Limited ASR License (and subsequently a permit) for AR is to enable consistent operation of the City's ASR system during the winter months. The City's ASR Limited ASR License allows for injection of water diverted under existing natural flow surface water rights for the Dog River and South Fork Mill Creek. The City's Dog River diversion is located at an elevation of approximately 4,300 feet. When temperatures are below freezing, flow available at the City's diversion may be as low 1 to 2 cfs, as the watershed above this elevation remains under snowpack.

The City's diversion on South Fork Mill Creek is located at an elevation below 1,000 feet. At and above this elevation, freezing temperatures are less common. As a result, South Fork Mill Creek flow tends to remain higher throughout the winter. But the City's water right for South Fork Mill Creek is limited to 2 cfs. The combined supply from the Dog River and South Fork Mill Creek would therefore be insufficient to meet the authorized rates of injection for two ASR injection wells under the City's ASR LL.

In order to ensure that water is available at a consistent rate for storage in the aquifer during the winter months, the City would seek a new authorization for aquifer recharge. While aquifer recharge is typically associated with basin infiltration, the City already plans to meet the higher standards for injection under its AR Limited ASR License.

Aquifer Recharge projects are typically authorized initially under a Limited ASR License, with data collection during testing of aquifer recharge necessary for obtaining a permit for aquifer recharge. However, because the City has already completed an ASR feasibility study and will begin testing ASR in fall 2025, the City may have sufficient data to apply for an AR permit by 2025. The City will communicate with OWRD staff regarding the best application pathway.

Based on OWRD's water availability database, water available for diversion from South Fork Mill Creek at the 50 percent exceedance flow would at least double the rate available under the City's existing natural flow surface water rights during winter.

Thus, the City intends to pursue an AR project as early as 2025 by obtaining an AR Limited ASR License for the storage of water sourced from the South Fork Mill Creek. Successful implementation of this project under this Limited ASR License may result in the City acquiring an AR permit for permanent authorization for the project starting in 2026.

Appendix A

Letters to Affected Governments

December 12, 2024

Daniel Dougherty
Planning Director
Wasco County, Planning Division
2705 East Second Street
The Dalles, OR 97085
danield@co.wasco.or.us

Subject: Water Management and Conservation Plan for the City of the Dalles

Dear Mr. Dougherty,

The City of the Dalles (City) has developed a Water Management and Conservation Plan (WMCP) to fulfill the requirements of the Oregon Water Resources Department.

Under these rules, a water supplier must make its draft WMCP available for review by affected local governments, seeking comments related to consistency with the local governments' comprehensive land use plans. We are providing you an electronic version of the City's draft WMCP for your review.

Please provide any comments to me within 30 days from the date of this letter. If the WMCP appears consistent with your Comprehensive Land Use Plan, a letter or email response to that effect would be appreciated. My email address is below.

If you have any comments or questions, please feel free to contact me at 971-236-2550 or thenkle@gsiws.com.

Sincerely,
GSI Water Solutions Inc.

Tim Henkle
Water Resources Consultant

Enclosure

GSI Water Solutions, Inc.

December 12, 2024

Jeb Miller
District Manager
Chenowith Water People's Utility District
P.O. Box 870
The Dalles, OR 97058
jebm@chenowithwaterpud.com

Subject: Water Management and Conservation Plan for the City of The Dalles

Dear Mr. Miller,

The City of the Dalles (City) has developed a draft Water Management and Conservation Plan (WMCP) to fulfill the requirements of the Oregon Water Resources Department.

Given the relationship between the City and your agency, we are providing you with an electronic copy of the draft WMCP as a courtesy. If you have any comments or questions, please feel free to contact me at 971-236-2550 or thenkle@gsiws.com.

Sincerely,
GSI Water Solutions Inc.

Tim Henkle
Water Resources Consultant

Enclosure

Appendix B

July 2025 Revisions

Appendix B
July 2025 Revisions

The Oregon Water Resources Department (OWRD) provided comments dated April 3, 2025 for the City of the Dalles (Dalles) Draft Water Management and Conservation Plan. These comments included a request for consumption, demand, and water loss data for 2023. Exhibit A-1 addresses OWRD's request and includes data for 2024 as well.

Exhibit A-1. Water Loss Estimates, 2023 and 2024

	Demand	Consumption		Water Loss	Percent Loss
		Metered	Unmetered, Authorized		
2023	1,500	1,239	2.5	258.9	17.3%
2024	1,620	1,336	(1)	284.1	17.5%

(1) Hydrant flushing operations were not conducted in 2024.

When water loss exceeds 10 percent, OWRD requires water providers to address additional requirements. The Dalles response to these additional requirements are found in Section 3.3.5, Water Loss Analysis, which was revised following submittal of the draft WMCP.

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AGENDA STAFF REPORT

AGENDA LOCATION: Item #10A

MEETING DATE: May 26, 2026

TO: Honorable Mayor and City Council

FROM: Dale McCabe, Public Works Director

ISSUE: Wastewater Facilities Master Plan Update; Contract No. 2024-006 CIP Presentation and Discussion

BACKGROUND: Oregon wastewater regulations require that public wastewater utilities develop 20-year master plans. It is common practice to update these 20-year plans about every 10 years. The City's previous Wastewater Facilities Master Plan was developed in 2013 and subsequently updated in 2017 as part of the progressive design-build contract to make improvements to the Wastewater Treatment Plant (WWTP). At the January 13, 2025 City Council meeting, City Council authorized the City to enter into a contract with Consor North America (Consor) to perform the work to update the 2017 plan.

The scope of work for the Wastewater Facilities Master Plan Update that is currently underway, includes those tasks normally undertaken in a master planning effort such as performing 20-year population and wastewater treatment demand projections, wastewater treatment system condition and capacity evaluations, treatment process evaluations, regulatory requirement projections, development of a 20-year Capital Improvement Plan (CIP), and a wastewater rates and System Development Charge (SDC) assessment and recommendations.

On the afternoon of April 27th, 2026, City Council was provided a tour of the WWTP to witness firsthand, the existing operational procedures and condition of the WWTP site and facilities. The tour was provided ahead of this meeting to help Councilors gain a better understanding of the major components of the WWTP, how they function, what the current condition is and what the expected remaining lifespan of the facilities might be.

To date, Consor has completed or is continuing to work on the following Tasks:

- Task 0200 – Background Data Collection and Review
- Task 0300 – WWTP Existing Condition Assessment

- Task 0400 – Existing Treatment Plant Description
- Task 0500 – Future Requirements
- Task 0600 – WWTP Capacity Assessment
- Task 0700 – Outfall Assessment Capacity
- Task 0800 – Liquids Process Alternative Development
- Task 0900 – Solids Process Alternative Development
- Task 1000 – Capital Improvement Plan (CIP)

For this discussion item, the Consor Team will be focusing on presenting future projects identified in the draft Capital Improvement Plan chapter. The Capital Improvement projects identified, represent a significant financial investment that the City will be facing as the master plan will be including a financial plan to meet the operational and capital needs of WWTP facility. Similar to the development of the Water System Master Plan Update that was adopted by City Council in December of 2024, there will be two to three future Financial Analysis presentations and discussions as well. This CIP presentation and discussion is intended to provide a clearer understanding of the future needs and upcoming projects at the WWTP site, as well as to help facilitate future discussions regarding financial impacts and funding needs.

BUDGET ALLOCATION: None at this time. This is a discussion item only. This WWFMP update project is currently being paid for out of Fund 57, the Sewer Plant Construction/Debt Service Reserve Fund.

ALTERNATIVES:

A. Staff Recommendation: None at this time. This is a discussion item only.