

Public Health Division

Center for Health Protection, Drinking Water Services

Tina Kotek, Governor

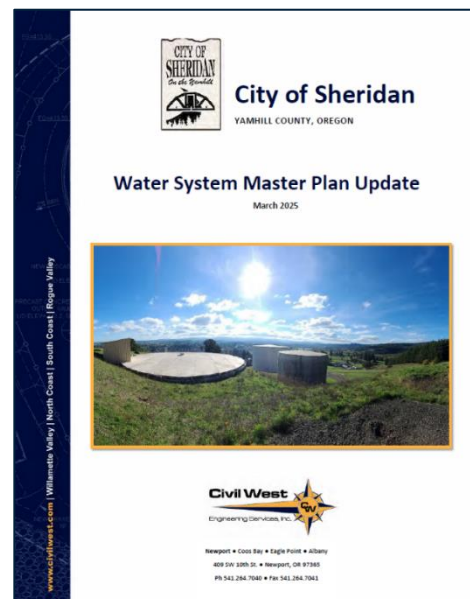


April 8, 2025

Timothy Gross, PE
tgross@civilwest.net
Civil West Engineering Services, Inc.
409 SW 10th St.
Newport, OR 97365

Sent by email only

Re: **March 2025 Master Plan Update (PR#176-2024)**
City of Sheridan (PWS ID#00811)
Master Plan Approval



Dear Mr. Gross:

Thank you for your submittal to the Oregon Health Authority's Drinking Water Services (DWS) of plan review information for the Water System Master Plan for the City of Sheridan. On December 3, 2024, our office received a copy of the *Water System Master Plan Update* dated December 2, 2024. A plan review fee of \$4125 was received on December 24, 2024. Comments on the master plan sent December 27, 2024 noted that the master plan lacked any information on the Water Management and Conservation Plan ([WMCP](#)) among a few other minor edits. A revised Water System Master Plan Update dated March 2025 was received on March 26, 2025, which included the WMCP as Chapter 8, minor corrections, and added in the Sheridan Road water project and looping to Jefferson Street.

The Master Plan represents a 20-year planning horizon out to the year 2044. The plan includes system goals and description, future demand estimates, engineering evaluation, evaluations of options to meet future demand, financing, and list of recommended projects and cost estimates. A seismic risk assessment and mitigation plan is required and was also included in the master plan update.

Preceding this master planning process, a Water System Master Plan dated March 2007, a Water Source/Supply Facility Plan dated February 2000, and an Addendum No. 1 to the Water/Source Supply Plan dated July 2002, were prepared by Murray, Smith, & Associates,

800 NE Oregon St., Ste 640, Portland, OR 97232-2162
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Inc. This Water System Master Plan Update references those previous documents throughout the plan.

Upon review of the March 2025 Master Plan Update, it appears the elements required in Oregon Administrative Rules (OAR) 333-061-0060(5) have been addressed, however, I have a couple of comments, and I found a few typographical errors that you may want to resolve.

1. There is a missing reference in section 7.2 as shown below.

7.2 Capital Improvement Plan

The various water distribution system, treatment, storage and raw water supply, and booster pump station improvements recommended in this Master Plan for the 20-year planning period are summarized below in Table 6-1 with opinions of probable costs and a summary map of projects is provided as Figure 7-1. **Error! Reference source not found..** Refer to Sections 4 and 5 for detailed breakdown and justification for the specific recommended improvements.

2. Section 3.4 indicates that alum is used for a coagulant. I believe the current coagulant is PASS-C (polyaluminum chloride). I also do not believe that potassium permanganate and polymer are used. Fluoridation was also recently discontinued.

3.4 Water Treatment Facilities

Water from the South Yamhill River requires treatment prior to distribution. The City operates a conventional water filtration plant located on NW Evans Street on the hillside in the northerly portion of the City. One packaged treatment system was constructed in 1982 with a 340 gpm (0.5 MGD) design capacity. In 1990 a second treatment unit with a design capacity of 560 gpm (0.8 MDG) was added. The system as a whole, which includes the river intake pump station, delivers a maximum single day capacity of 900 gpm (1.3 MGD).

The major treatment plant facilities and structures include:

- 8-inch diameter raw water pipeline
- Chemical feed (alum, soda ash, polymer, potassium permanganate (KMnO₄), chlorine, fluoride)

3. Fluoride is referenced in three other sections shown below. Fluoridation was recently discontinued.

4.3 Stoney Mountain Reservoir, Springs, and Transmission Pipeline

Before the Stoney Mountain Reservoir was constructed, all spring water was directed to the spring transmission line. Reservoir construction changed how spring water is captured and directed. See Figure 4-2 for a site plan of the Stoney Mountain Reservoir site.

Kegbine Springs #1 and #2, and New Wells #1 and #2 are always discharged directly to the reservoir. Big and Little La Toutena Mary Springs and the East and West Forks of Baltimore Creek are directed to a spring box. From this spring box the springs can be directed either to the reservoir or to the transmission line. Pumper Springs and Wells #1-4 are down gradient from the reservoir and always discharge to the transmission main. See Figure 4-2.

The City does not currently use water from the reservoir although it is connected to the transmission main. Instead, the City bypasses the reservoir and sends water from La Toutena springs and Baltimore Creek directly to the transmission main to join water from Pumper Springs and Wells #1-4. As spring water, filtration is not required by OHA, and the City only adds chlorine and fluoride at the NE Rock Creek Rd. Injection Station before the water is distributed to customers.

8.3 Water Supplier Description (OAR 690-086-0140)

The municipal water supplier element of a water management and conservation plan shall include at least the following:

- (1) A description of the supplier's source(s) of water including diversion, storage and regulation facilities, exchange agreements, intergovernmental cooperation agreements, and water supply or delivery contracts.*

The City of Sheridan gets its water from two main sources: 4.15 CFS of water rights from several groundwater springs at Stoney Mountain located approximately 9 miles from the City limits, and 8 cfs of surface water rights from Willamina Creek and the South Yamhill River. The point of diversion for the surface water rights is located at the South Yamhill Intake Station located at the southeast corner of Bridge Street and Business 18 in Sheridan. Annually, on average about two-thirds of the City's water supply comes from the Stoney Mountain Springs.

Spring water from Stoney Mountain is either sent to the Stoney Mountain Reservoir or the transmission line. The City of Sheridan has a 276-acre-feet/year storage right in the Stoney Mountain Reservoir. Spring water that is not stored in the reservoir does not require filtration. The Oregon Health Authority (OHA) requires filtration for surface water, but the City doesn't currently have the capability to filter surface water from the Stoney Mountain Reservoir, so spring water is primarily bypassed directly to the transmission main.

The City has two water treatment facilities; a conventional rapid sand filtration plant located on NE Evans Street and an injection station which adds chlorine and fluoride to the spring water in the transmission line, located at SE Rock Creek Road.

1.9.1 Stoney Mountain Reservoir and Transmission Main

The City currently does not use the Stoney Mountain Reservoir and bypasses spring water directly to the transmission main. Filtration is not required by OHA for spring water and the City only adds chlorine and fluoride at the NE Rock Creek Rd. Injection Station before the water is distributed to customers.

4. Indexing CIP cost estimates can help with future updates as mentioned in Section 7.1. I recommend identifying such an index either in the Master Plan (e.g. Engineering News Record's 20-City Construction Cost Index) or in an addendum. [Here is an article](https://www.enr.com/economics/faq) from the Environmental Finance Center at UNC you may be interested in regarding using cost indices for future CIP updates. This article describes ENR cost indices: <https://www.enr.com/economics/faq>.

Example: To update costs using the Engineering News Record Construction Cost Index (ENR CCI), the formula is:

$$\text{Updated Cost} = \text{Original Cost} * (\text{Current ENR CCI} / \text{Base Year ENR CCI})$$

Where:

- ✓ Original Cost = the cost at the base year (e.g., costs included in the master plan),
- ✓ Current ENR CCI = the current index value (e.g. today's index value), and
- ✓ Base Year ENR CCI = the index value at the time the original cost was established (e.g., the ENR CCI included in the master plan).

CIP cost estimates did include an additional percentage added for engineering, legal, admin & contingency as follows:

ENG/LEGAL/ADMIN(22%)
CONTINGENCY (30%)

Except as noted in project 7-4 in which the engineering/legal/admin was 20% for increasing the size of the water transmission main for the Stoney Mt. Springs.

PROJECT 7-4

TABLE 4-4: INCREASE STONEY MOUNTAIN TRANSMISSION MAIN FROM 8" STEEL TO 16" DI (37,190')

| No. | Description | Unit | Qty | UNIT PRICE | TOTAL |
|-----------------------|--|------|-------|------------|--------------|
| 1 | MOBILIZATION, BONDING AND INSURANCE | LS | 1 | 11% | \$1,654,240 |
| 2 | CONSTRUCTION FACILITIES AND TEMP. CONTROLS | LS | 1 | 3% | \$451,156 |
| 3 | DEMOLITION AND SITE PREP | LS | 1 | 3% | \$451,156 |
| 4 | MISC. METAL FITTINGS/ADAPTERS | LS | 1 | 1.25% | \$178,401 |
| 5 | FITTINGS AND BENDS | EA | 147 | \$4,000 | \$588,101 |
| 6 | 16" GATE VALVE | EA | 37 | \$17,300 | \$643,560 |
| 7 | 16" DI PIPE | EA | 37200 | \$348 | \$12,938,243 |
| 8 | AIR RELIEF VAULT ASSEMBLY | EA | 50 | \$4,400 | \$218,240 |
| 9 | PRESSURE REDUCING VALVE | EA | 4 | \$118,000 | \$472,000 |
| SUBTOTAL (rounded): | | | | | \$17,600,000 |
| ENG/LEGAL/ADMIN(20%): | | | | | \$3,520,000 |
| CONTINGENCY (30%): | | | | | \$5,280,000 |
| Total (rounded): | | | | | \$26,400,000 |

5. Although CIP alternatives did not seem to require a detailed comparison of O&M costs associated with the alternatives as they were mostly waterline improvements, I recommend evaluating the differences in O&M costs among the alternatives. An effort should also be made to account for O&M costs and needed operating revenue when addressing rate increases.
6. The Master Plan referenced the following planning documents:

Murray Smith & Associates, Inc. (2000). *Water Source/Supply Facility Plan*.

Murray Smith & Associates, Inc. (2002). *Addendum No. 1 to the Water Source/Supply Facility Plan*.

7. Section 8 of the master plan addressed the Water Management and Conservation Plan as required under [OAR 690-086-00100](#) & [OAR 333-061-0060\(5\)](#) and as a condition of the surface water right [S-13862](#). It appears that there is a progress report for the Water Management and Conservation Plan (WMCP) due 3-20-2027 as shown below:

| ▶ Application: S 17897 | | | |
|---|------------------|--------------------|------------------------------|
| ▼ Permit: S 13862 document , paper map | | | |
| ▶ Signature: 10/20/1939 | | | |
| Process Step | Date Completed | Result | Completed By |
| Completion Date [C Date] | 10/1/1992 | | |
| Extension Application Received | 6/25/2004 | | ANN REECE |
| Extension Comment Period Ends | 7/6/2004 | | ANN REECE |
| Extension PFO 315 Issued | 5/31/2011 | Propose to Approve | JERRY GAINES |
| ▶ Extension PFO Protest Period Ends | 7/15/2011 | | JERRY GAINES |
| ▶ Extension FO Issued | 8/4/2011 | Approved | JERRY GAINES |
| WMCP FO Issued | 3/28/2025 | Approved | KERRI COPE |
| WMCP Progress Report Due | 3/20/2027 | | KERRI COPE |
| WMCP Due Date (WMCP FO) | 9/20/2029 | | KERRI COPE |
| WMCP In Effect Until | 3/20/2030 | | KERRI COPE |
| Extended Completion Date [Extension C Date] | 10/1/2100 | | ANN REECE |

Source: https://apps.wrd.state.or.us/apps/wr/wrinfo/wr_details.aspx?snp_id=39734

8. Demand estimates appear to be calculated as shown below.

| | A | B | C | D | E | F | G |
|----|---|---------------------|-------------------------|---|---|---|--|
| | | Peaking Factor (PF) | 2024 =PF x (614,366) | 2029 D2=FV(0.007,5,0,C2) D3=FV(0.007,5,0,C3)... | 2034 E2=FV(0.007,10,0,C2) E3=FV(0.007,15,0,C3)... | 2039 F2=FV(0.007,15,0,C2) F3=FV(0.007,15,0,C3)... | 2044 G2=FV(0.007,20,0,C2) G3=FV(0.007,20,0,C3) |
| 1 | Demand Parameter (gal/day) | | | | | | |
| 2 | Average Day Demand (ADD) | 1 | 614,366 | 636,172 | 658,752 | 682,133 | 706,345 |
| 3 | Max. Day Demand (MDD) | 1.906975646 | 1,171,581 | 1,213,164 | 1,256,224 | 1,300,812 | 1,346,982 |
| 4 | Peak Hour Demand (PHD) | 2.860462656 | 1,757,371 | 1,819,746 | 1,884,335 | 1,951,217 | 2,020,472 |
| 5 | Max. Month Demand (MMD) | 1.299998698 | 798,675 | 827,023 | 856,377 | 886,772 | 918,247 |
| 6 | The 2024 MDD, PHD, and MMD were calculated by multiplying the 2024 ADD by peaking factors (PF) for each demand parameter | | | | | | |
| 7 | The future demands were calculated using a formula for future value with an annual growth rate of 0.7% (0.007) per the generic excel formula "= FV(rate, nper, pmt, [pv], [type]) | | | | | | |
| 8 | where rate = 0.007, nper = # of years since 2024, pmt = 0, pv = the demand in 2024, type = not used) | | | | | | |
| 9 | | | | | | | |
| 10 | TABLE 2-7 PROJECTED WATER DEMAND (GALLONS/DAY) | | | | | | |
| 11 | Demand Parameter (gal/day) | Peaking Factor | 2024 | 2029 | 2034 | 2039 | 2044 |
| 12 | Average Daily Demand (ADD) | 1 | 614,366 | 636,172 | 658,751 | 682,133 | 706,344 |
| 13 | Max. Day Demand (MDD) | 2 | 1,171,581 | 1,213,164 | 1,256,224 | 1,300,811 | 1,346,982 |
| 14 | Peak Hour Demand (PHD) | 2.9 | 1,757,371 | 1,819,747 | 1,884,336 | 1,951,217 | 2,020,473 |
| 15 | Max. Monthly Demand (MMD) | 1.3 | 798,675 | 827,023 | 856,377 | 886,773 | 918,247 |
| 16 | | | | | | | |

2.4.2 Future Demands

The baseline demand quantities for MDD and PHD were calculated using peaking factors. The future demand quantities were projected using an annual growth rate of 0.7 percent Table 2-7 shows a summary of the projected future demands for the City.

Based on these calculations, it was relatively easy to compare values used in the storage needs analysis as shown below.

| | A | B | C | D |
|----|--|-----------------------|---------------------------|---------------------------|
| 17 | | | | |
| 18 | Storage Type | Description | 2024 Capacity Needs (gal) | 2044 Capacity Needs (gal) |
| 19 | Equalization | 25% of MDD | 292,895 | 336,745 |
| 20 | Emergency | 3 x ADD | 1,843,098 | 2,119,034 |
| 21 | Fire Reserve | 3,500 gpm x 3 hrs | 630,000 | 630,000 |
| 22 | | Total Storage = | 2,765,993 | 3,085,779 |
| 23 | | | | |
| 24 | TABLE 2-8 CURRENT AND FUTURE WATER STORAGE NEEDS SUMMARY | | | |
| 25 | | | | |
| 26 | Storage Type | Description | 2024 Capacity Needs (gal) | 2044 Capacity Needs (gal) |
| 27 | Equalization Storage | 25% of MDD | 292,895 | 336,745 |
| 28 | Emergency Storage | 3 times ADD | 1,843,097 | 2,119,032 |
| 29 | Fire Reserve Storage | 3,500 gpm for 3 hours | 630,000 | 630,000 |
| 30 | | Total Storage | 2,765,992 | 3,085,778 |
| 31 | | | | |

9. The master plan noted that the city has sufficient water rights and water availability to meet the projected maximum daily demand (MDD) at the end of the planning period. However, the infrastructure to capture, transfer and treat that water will need to be upsized to meet future demand.

10. The master plan noted that “Without the Ballston Tank, the City’s total water storage capacity is only 2.58 MG. This does not meet either the 2024 or projected 2044 storage needs. It is imperative that the city repair the automated functioning of the Ballston Pump Station so that the water from the Ballston Tank is available for the main distribution system’s needs.”

11. In addition to the recommended capital improvements, additional action is recommended in section 5.4.1 of the master plan as follows:

The city does not have an up-to-date water distribution system map in either paper or electronic form. The lack of this information made the development of an accurate system model very difficult.

It is highly recommended that the City invest the time and funds to develop an accurate and up-to-date distribution system map that correctly shows:

- ✓ all pipe sizes, locations and connection configurations;
- ✓ valve locations;
- ✓ fire hydrant locations;
- ✓ and water meter connections.

This map can be created by using a summer intern or temporary employee to log infrastructure information in the field using a GPS unit. This information can be entered into either GIS or CAD based software.

The records that the city does have, combined with the institutional knowledge of the water distribution system workers, can be added to this electronic map to further improve accuracy.

This map is a living document and should be updated on a regular basis as new information is discovered that adds to or improves the accuracy of the map.

12. The master plan indicated that the city was required to submit plans to OHA by June 30, 2025 to address the city's first lead action level exceedance in 2023 as shown below.

4.5.3 Lead

On September 15, 2015, and again on June 25, 2023, the City recorded high lead concentration sampling results of 0.0134 and 0.0176 parts per million (ppm) respectively. The maximum contaminant level (MCL) for lead is 0.015 ppm. Consequently, OHA has required the City to conduct lead concentration reduction education and come up with a plan to implement lead reduction processes in the treatment process. The City must submit plans for implementing this process to OHA by June 30, 2025, and install the equipment by December 31, 2025.

Typically, water treatment plants control lead by adding chemicals such as soda ash or sodium hydroxide to reduce the acidity (increase pH) of the drinking water to reduce the leaching of lead from plumbing fixtures, thereby reducing the lead concentration in the water. Most lead in drinking water comes from older privately owned plumbing fixtures or older brass fittings which used to contain lead. Although these sources are almost always privately owned, it is the responsibility of the water provider to provide water that reduces the potential of these fixtures to leach lead.

The City has a robust chemical feed process at the water treatment plant that includes batch containers, mixers, and chemical feed pumps. Some of these units are redundant and could be used to implement the injection of pH chemical control with no infrastructure investment. The City should prepare a plan for implementing this process and submit that plan to OHA for their consideration as soon as possible.

On May 1, 2024 Gary Mathis emailed (enclosed) a revised list of lead and copper tap sample locations (14 Tier 1 sites and 46 Tier 3 sites).

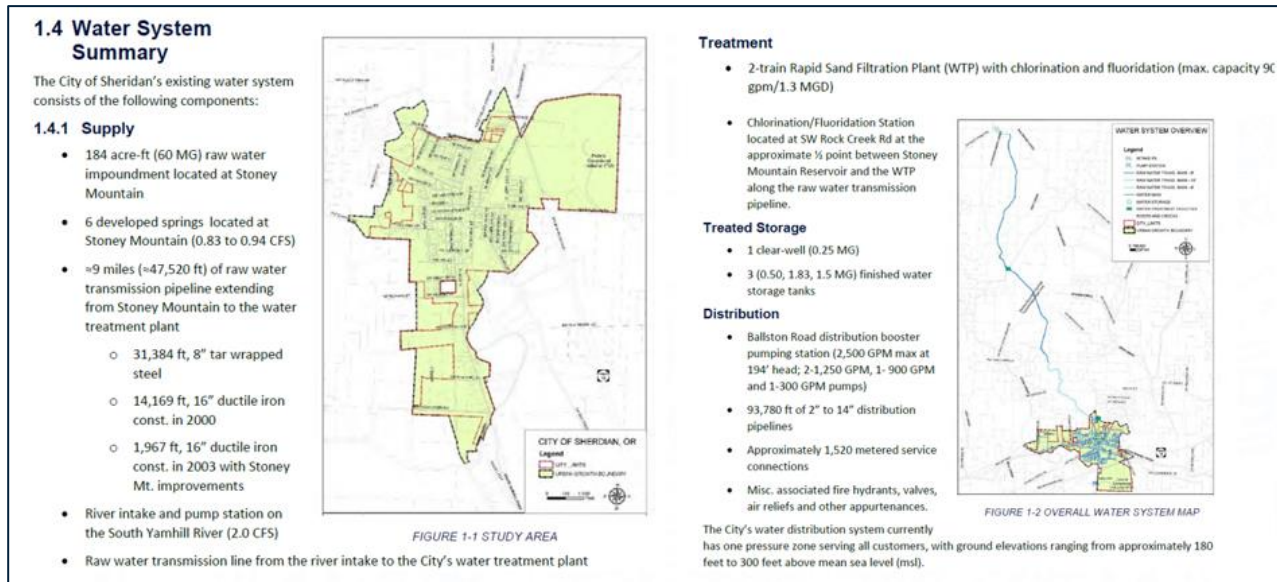
The list of sites was approved in an email from Evan Hofeld (OHA) dated May 31, 2024 (enclosed). The city was instructed in this email to complete two rounds of sampling from the new sites (40 samples per round) with the first round to be collected prior to June 30, 2024 and the second round completed between 7/1/24 and 12/31/24. Results shown below from these two rounds showed that the levels were below the action level for both lead and copper.

90th Percentile Summary Results

| Sample Dates | Date Received | Sample Count | Frequency | Lead (mg/L) | Copper (mg/L) | Consumer Notice Date |
|-----------------------|---------------|--------------|-----------|-------------|---------------|----------------------|
| 7/1/2024 - 10/5/2024 | 10/28/2024 | 46 | 6 months | 0.0014 | 0.529 | |
| 6/24/2024 - 6/29/2024 | 7/23/2024 | 40 | 6 months | 0.0010 | 0.561 | |
| 7/7/2023 - 12/28/2023 | 1/2/2024 | 43 | 6 months | 0.0020 | 0.485 | |
| 5/23/2023 - 6/28/2023 | 7/19/2023 | 40 | 6 months | 0.0176 | 0.946 | 9/7/2023 |

Based on the results of these two rounds of sampling, the city may submit a plan to either actively treat for corrosion control or propose that the two rounds in 2024 demonstrate that corrosion control treatment is not required (an additional round taken between 1/1/25 and 6/30/25 is recommended but may not be required).

13. Overall, the master plan was well written and included a good system description at the beginning as shown below in the excerpts below.



Thank you for awaiting this letter and if you have any questions, please feel free to call me at 971-200-0288.

Sincerely,



Evan Hofeld, Regional Engineer
OHA-Drinking Water Services
evan.e.hofeld@oha.oregon.gov

CC:

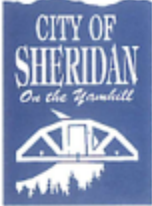
- Kie C, City of Sheridan: kiec@sheridanpw.com
- Yvonne Hamilton, City of Sheridan: yhamilton@cityofsheridanor.com
- Gary Mathis, City of Sheridan: garym@sheridanpw.com
- Kevin Shreeve, Civil West: Kshreeve@civilwest.net

Enclosures:

- December 28, 2023 letter from Gary Mathis regarding actions to address lead levels
- May 1, 2024 email from Gary Mathis with new lead and copper sample sites
- May 31, 2024 email from Evan Hofeld regarding lead and copper tap sampling sites

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Voice: 971-673-0405 | Fax: 503-673-0694
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December 28, 2023 letter from Gary Mathis regarding actions to address lead levels



City of Sheridan

120 S.W. Mill Street • Sheridan, Oregon 97378
City Hall • Municipal Court (503) 843-2347
Police Department (503) 843-2431
Fax (503) 843-3661

December 28, 2023

Nicole:

Although we still believe the Lead & Copper exceedances in May of 2023 were due to an error in the collection and handling of the samples, we are proposing the following.

We add Soda Ash to our treatment process to better allow our coagulant to work to its potential. As you can see by the table below it appears that our coagulant is still using a fair amount of the natural alkalinity in the water. Thus, dropping the pH below 7.0 entering our distribution system. We are therefore going to be testing the addition of more Soda Ash to the process until we find the right amount for the reaction with our coagulant. This should bring the pH of the water entering our distribution system above 7.0.

pH Average Values:

| | April | May | June | July | August | September | October | November |
|--------------|-------|------|------|------|--------|-----------|---------|----------|
| Spring | 6.83 | 6.68 | 6.56 | 6.63 | 6.67 | 6.71 | 6.74 | 6.69 |
| Plant | 6.81 | 7.16 | 7.49 | 7.60 | 7.60 | 7.57 | 7.38 | 7.09 |
| Distribution | 6.77 | 6.63 | 6.69 | 6.67 | 6.65 | 6.41 | 6.62 | 6.61 |

If we still can't get the distribution pH above 7.0, we propose adding an additional amount of Soda Ash into the spring supply to offset the lowering of the pH of the water from the addition of chlorine and fluoride. The injection site would be at the plant site where both supply streams combine before entering the distribution system. It is our intention to have the distribution pH at a 7.2 or higher continuously.

Gary Mathis

City of Sheridan
Water & Wastewater Director of Operations
Cell 971-312-1892

May 1, 2024 email from Gary Mathis with new lead and copper sample sites

From: Gary Mathis <garym@sheridanpw.com>
Sent: Wednesday, May 1, 2024 3:30 PM
To: Hofeld Evan E <EVAN.E.HOFELD@oha.oregon.gov>
Cc: Brandon Owings <BrandonO@sheridanpw.com>; richard@waterdropconsulting.com; Joe Loiselle <jloiselle@sheridanpw.com>
Subject: Lead & Copper Addresses

Think twice before clicking on links or opening attachments. This email came from outside our organization and might not be safe. If you are not expecting an attachment, contact the sender before opening it.

Good Afternoon Evan,

Here are the addresses we would like to get certified to use for lead & copper testing. Just to reiterate our phone call earlier today; there was not a lot of construction during the mid-80's in Sheridan so we were only able to find 14 Tier one sites, so we also included 46 Tier 3 sites. We have included the maps and the sample site identification & certification sheets. Please let us know if you have any questions or comments, we appreciate all of you help on this!

Thank you,

Gary Mathis
Acting Public Works Director
Sheridan Public Works
971-312-1892

May 31, 2024 email from Evan Hofeld regarding lead and copper tap sampling sites

Hofeld Evan E

From: Hofeld Evan E
Sent: Friday, May 31, 2024 3:18 PM
To: Gary Mathis
Cc: Brandon Owings; richard@waterdropconsulting.com; Joe Loiselle
Subject: FW: Lead & Copper Addresses and invalidation of Spring 2023 results for Sheridan
Attachments: SW City of Sheridan.pdf; SE City of Sheridan.pdf; NE City of Sheridan.pdf; NE City of Sheridan #2.pdf; NW City of Sheridan & SW Monroe.pdf; NW City of Sheridan #2.pdf; NW City of Sheridan #3.pdf; NW City of Sheridan #4.pdf; Completed L&C.zip

Hi Gary,
Thank you for sending over the revised list of lead and copper tap sampling sites (14 Tier 1 sites and 46 Tier 3 sites (attached) per your email below from May 1st).

- We will need two rounds of samples from the new sites (40 samples per round).
- The first round will need to be collected prior to June 30, 2024 (results to be reported prior to 7/10/24 or a late reporting violation may be issued).
- The second round will need to be completed between 7/1/24 and 12/31/24 (results of the second round to be reported prior to 1/10/25).

I recommend providing the instructions we have on our website to the homeowners and having them complete the box at the bottom of these instructions as that will help you to validate how the samples were collected prior to submitting them to the lab for analysis. I also recommend having homeowners indicate who collected the sample and the street address of the sample site on the sample bottle/lab slips so you know who exactly collected the sample and so you can match the results to the address should questions arise about how the samples were collected.

- [\[pdf\] Directions for homeowner tap sample collection](#)
- [\[pdf\] Directions for homeowner tap sample collection in Spanish](#)

Additionally, the request to invalidate the sample [results from the spring of 2023](#) shown in the table below was rejected.

| Sample ID | Sample Date | Received | WSF | Lead | Copper |
|------------------------------|-------------|-----------|--------|--------|--------|
| 20230531-043 | 5/31/2023 | 6/16/2023 | DIST-A | 0.0176 | 0.9 |
| 20230531-026 | 5/31/2023 | 6/16/2023 | DIST-A | 0.0922 | 1. |
| 20230531-028 | 5/31/2023 | 6/16/2023 | DIST-A | 0.0349 | 0.7 |
| 20230531-029 | 5/31/2023 | 6/16/2023 | DIST-A | 0.0243 | 0.2 |
| 20230531-031 | 5/31/2023 | 6/16/2023 | DIST-A | 0.0383 | 1 |

I hope you understand and thanks for your patience Gary in awaiting this information and please feel free to contact me at any time if you have any questions.

Evan Hofeld
Regional Engineer
OREGON HEALTH AUTHORITY - Public Health Division - Drinking Water Services
evan.e.hofeld@oha.oregon.gov
Cell: 971-200-0288
Fax: 971-673-0458
www.healthoregon.org/dwp