Citizens’ Water Advisory Committee (CWAC) Agenda  
August 10, 2021, 6:00 p.m.  
AMC 15151 E Alameda Pkwy – Aspen Conference Room 2nd Floor

WebEx Link:  
https://auroragov.webex.com/auroragov/j.php?MTID=m8ab81ecdb995f6f3ec185516480d2f1a

Public Participation through call in number (listen only)  
720-650-7664  
Access code: 146 245 5086

Members:  Janet Marlow - Chair, Angie Binder - Vice Chair, Jay Campbell, Tom Coker, Brandy DeLange, Richard Eason, William Gondrez, David Patterson, Mike Spatter

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Approval of Minutes – July 13, 2021</td>
<td>Chair</td>
</tr>
<tr>
<td>2.</td>
<td>Introductions/Public Invited to be Heard</td>
<td>Chair</td>
</tr>
<tr>
<td>3.</td>
<td>New/Old Business</td>
<td>Chair</td>
</tr>
<tr>
<td>4.</td>
<td>Communications Update</td>
<td>Greg Baker</td>
</tr>
<tr>
<td>6.</td>
<td>SEAM Update/Environmental Covenant</td>
<td>Sarah Young/ Andrea Long</td>
</tr>
<tr>
<td>7.</td>
<td>Sand Creek Programmable Logic Controller (PLC) Replacement</td>
<td>Ted Hartfelder</td>
</tr>
<tr>
<td>8.</td>
<td>Education and Outreach Team - Supporting the Colorado Statewide Water Education Action Plan</td>
<td>Natalie Brower Kirton</td>
</tr>
<tr>
<td>9.</td>
<td>CWAC letter for the Special Study Session for Boards and Commissions</td>
<td>Chair</td>
</tr>
<tr>
<td>10.</td>
<td>Committee tour in September</td>
<td>Chair</td>
</tr>
<tr>
<td>11.</td>
<td>Review Follow-Up Questions Generated at this Meeting</td>
<td>Chair</td>
</tr>
<tr>
<td>12.</td>
<td>Confirm Next Meeting – Tuesday, September 14, 2021</td>
<td>Chair</td>
</tr>
<tr>
<td>13.</td>
<td>Adjourn</td>
<td>Chair</td>
</tr>
</tbody>
</table>

Aurora Water was ranked #1 in Customer Satisfaction with Midsize Water Utilities in the West of the J.D. Power 2021 Water Utility Residential Customer Satisfaction Study.  
For J.D. Power 2021 award information, visit jdpower.com/awards for more details.
Citizens’ Water Advisory Committee (CWAC) Minutes
July 13, 2021, 6:00 p.m.
AMC 15151 E. Alameda Pkwy – Aspen Conference Room 2nd Floor

WebEx Link:
https://auroragov.webex.com/auroragov/j.php?MTID=m8ab81ecdb995f6f3ec185516480d2f1a

Public Participation through call in number (listen only)
720-650-7664
Access code: 146 245 5086

Members Present: Janet Marlow - Chair, Angie Binder - Vice Chair, Jay Campbell, Tom Coker, Brandy DeLange, Richard Eason, William Gondrez,

Absent: Mike Spatter, David Patterson,

Staff Present: Greg Baker, Leiana Baker, Jo Ann Giddings, Gail Thrasher, Josh Godwin, Sonya Gonzalez, Greg Hansen, Fernando Aranda Perozo, Kathy Kitzmann, Rory Franklin

Visitors Present: None

The meeting was called to order at 6:02 p.m.

1. Approval of Minutes – May 11, 2021
The June 8, 2021, minutes were approved.

2. Introductions/Public Invited to be Heard
None.

3. New/Old Business
None.

4. Communications Update
G. Baker gave an update.

5. 2021 State Legislative Update
K. Kitzmann gave an update on the 2021 State Legislative efforts by Aurora Water. Aurora Water Supported 22 bills and one joint resolution that were beneficial to protect, maintain, and develop Aurora’s water, sewer, and storm water systems for today and the future. Of these 23 (bills & resolution), 19 have passed, one is awaiting the Governor’s signature, and only three (3)
failed. Aurora Water opposed one introduced bill and opposed one draft bill with both bills failing. The remaining 37 bills and one resolution were monitored for potential amendments and passage.

6. **Aurora Water Virtual Water Tour Demonstration**

J. Godwin stated, the Virtual Water Tour (VWT) was developed to better explain the size and scope of Aurora Water’s system in more than words: to provide a visual explanation of how expansive our system is and how Aurora moves water, at a high-level scale. This VWT is the first of its kind and while the original intent of the VWT was to help educate state legislators, the tour was developed with all in mind.

VWT Link: [https://storymaps.arcgis.com/collections/245f2bb7556a408fb24fd02842415b73](https://storymaps.arcgis.com/collections/245f2bb7556a408fb24fd02842415b73)

7. **2022 Proposed Operating and Capital Improvement Program Budget**

G. Thrasher stated, the 2022 budget is being proposed with a 3.5% average increase in water retail revenues, 4.0% increase in sewer rates and 3.5% in stormwater rates. Connection fees for water and sewer are proposed to increase 10.6% and 6.3% respectively. These increases are necessary to maintain and build Aurora Water’s infrastructure and since there was no rate or fee increases in 2021 due to pandemic, the proposed budget was built knowing there is still uncertainty in the economy. During this time, late fees were waived on customer accounts. In addition, a 2% increase in salary-related costs is incorporated for 2022.

Increases in the Water and Wastewater Operating budgets are driven by personnel requests, an increase in utilities primarily for Metro Wastewater, and debt related increases to account for principal and interest payments in the original water and sewer debt schedules. Aurora Water is requesting 12 FTEs plus two .5 FTEs. One will be shared with Housing and Community Services. The other will be shared with the Information Technology Dept.

The combined Water and Wastewater Capital Improvement Program budget for 2022 is $153.8 million and $880.5 million over the five years.

8. **2022 Proposed Rate and Fee Changes**

F. Aranda Perozo gave a presentation on the 2022 Proposed Rate and Fee Changes for water, sewer, and storm. The proposed 2022 budget includes the proposed rate and fee adjustments based on the latest financial plan. Aurora Water understands the impacts rate increases have to customers and therefore have a policy, whenever possible, to have small incremental rate increases as opposed to having infrequent large rate increases.

9. **Water Tour Participation Discussion**

G. Baker stated, the Water Tour is August 17-18 and seats are limited to allow more residents to attend. The Aurora Water Tour will be a biennial tour after this year.
10. Water Policy Committee Quarterly Report Discussion
This will be presented tomorrow at Water Policy Committee tomorrow.

11. Review Follow-Up Questions Generate at this Meeting
Will there be plant tours this year? G. Baker replied, no. There will be a tour to Wild Horse. A request was made to visit Rocky Ford. G. Baker suggested next year.

12. Confirm Next Meeting – Tuesday, August 10, 2021

13. Adjourn
The meeting was adjourned at 7:40 p.m.

Janet Marlow, Chair
Citizens’ Water Advisory Committee

Submitted by Leiana Baker
Administrative Specialist, Aurora Water

Adopted: ___________________________
MEMORANDUM

To: Citizens’ Water Advisory Committee

Through: Marshall P. Brown, General Manager, Aurora Water

From: JoAnn Giddings, Deputy Director Water Financial Administration

Date: August 10, 2021


Highlights

Combined operating revenues (Water, Sewer, and Stormwater): Through the Second quarter were 7.1% lower than plan and 9.1% lower than the second quarter of 2020. The decrease is due to the wet spring which delayed outdoor irrigation.

Combined Development revenues (Water, Sewer, and Stormwater) in the Second quarter of 2021 were 77% higher than plan and 1.5% higher than for the same period in 2020.

Proceeds from the SEAM debt issuance for water and wastewater ($183 million) as well as the repayment of the interfund loan of $16M from wastewater to water are reflected in the financial statements.

Operating expenses (Water, Sewer and Stormwater combined), excluding debt service, are under the spending plan by $5.5 million or 8.7 percent. This variance is mainly driven by lower than anticipated expenses in Supplies and Services due to the timing of Professional Services and Purchased Vehicle and Equipment replacement. Utilities were lower than anticipated for Homestake and Pumping electricity costs and Metro Wastewater was under plan for the second quarter. Credit card fees were higher than anticipated by $1.3 million due to account misclassification corrected in June 2021. Operating expenses, excluding debt service, were higher than 2020 (same period) by $1.4 million or 2.5 percent.

The debt service was higher in May 2021 due to a SEAM debt repayment ($16 million) from the Wastewater Fund to the Water Fund, and debt issue costs for the First-Lien Water & Sewer Revenue Bonds, Series 2021 ($2.6 million). These two items are not included in the current budget and will be appropriated through the fall supplemental budget.

Statements showing the budget to actual results and the year to year comparison can be found at the end of this memo on pages 8 and 9. Capital details can be found on pages 5 and 6.
Cash Balances
The total cash in the Water Fund increased in the Second quarter of 2021 by $122.5 million. The increase is due to the issuance of debt and the start of the irrigation season. Total cash in the Wastewater Fund increased by $48.4 million in the Second quarter. Reserves detail and cash balances are shown in the table below.

<table>
<thead>
<tr>
<th></th>
<th>Water</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cash</td>
<td>$289.9M</td>
<td>$133.0M</td>
</tr>
<tr>
<td>Reserve &amp; Commitment Type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Debt Service Policy Reserve (next fiscal year debt payment)</td>
<td>$25.3M</td>
<td>$4.8M</td>
</tr>
<tr>
<td>Operating Reserve (25% of adopted operating budget excl debt service)</td>
<td>$16.9M</td>
<td>$13.9M</td>
</tr>
<tr>
<td>Water Resources Reserve ($20 Million)</td>
<td>$20.0M</td>
<td></td>
</tr>
<tr>
<td>Capital Reserve (0.5% of Net Fixed assets)</td>
<td>$9.3M</td>
<td>$3.2M</td>
</tr>
<tr>
<td>Capital and Operating Encumbrances</td>
<td>$144.8M</td>
<td>$64.3M</td>
</tr>
<tr>
<td>Pass-Thru Commitments (METRO and CC Basin)</td>
<td></td>
<td>$4.7M</td>
</tr>
<tr>
<td>WISE Liability to Denver Water</td>
<td>$5.0M</td>
<td></td>
</tr>
<tr>
<td>Total Reserves and Commitments</td>
<td>$221.3M</td>
<td>$90.9M</td>
</tr>
<tr>
<td>Cash after Reserves &amp; Commitments</td>
<td>$68.5M</td>
<td>$42.1M</td>
</tr>
</tbody>
</table>
**Water Connections**

The total number of water connections (single-family, commercial, irrigation and multi-family) and the corresponding Water Connection Fee revenue for 2012-2021 are shown on the following graph. The number of water connections through the Second quarter of 2021 increased by 213 connections or 23 percent compared to the second quarter of 2020. Total water connection fee revenues through the Second quarter of 2021 were $1.1 million (4.5 percent) lower than for the same period in 2020. Even though the number of connections was higher the revenues were lower because at this time last year a couple of large multifamily connections were added. The overall growth due to development is the highest in the last ten years.
2021 Revenue, Expenses and Cash Flow

The following graphs present a summary of the last 12 months of monthly revenues, expenses, and cash flow.

The Available Cash & Revenue increase in May is due to bond issuance of $120 million in Water and $60 million in Wastewater. The encumbrances are subtracted from the cash for purposes of determining the cash available.
Overall Capital Plan

<table>
<thead>
<tr>
<th>Program</th>
<th>Working Budget*</th>
<th>YTD Spending Plan</th>
<th>YTD Actual Spend</th>
<th>Encumbered**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water CIP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operations &amp; General Management</td>
<td>93,426,820</td>
<td>5,604,063</td>
<td>3,956,115</td>
<td>78,775,399</td>
</tr>
<tr>
<td>Pumping</td>
<td>5,545,383</td>
<td>1,774,201</td>
<td>1,375,889</td>
<td>3,165,605</td>
</tr>
<tr>
<td>SOS Other</td>
<td>48,526,089</td>
<td>4,217,699</td>
<td>833,106</td>
<td>4,666,122</td>
</tr>
<tr>
<td>SOS Storage</td>
<td>32,008,338</td>
<td>4,196,957</td>
<td>1,265,634</td>
<td>10,509,057</td>
</tr>
<tr>
<td>SOS Water</td>
<td>35,933,508</td>
<td>4,382,120</td>
<td>27,836,621</td>
<td>8,880,980</td>
</tr>
<tr>
<td>Transmission &amp; Distribution</td>
<td>36,793,119</td>
<td>6,890,801</td>
<td>4,867,898</td>
<td>24,661,175</td>
</tr>
<tr>
<td>Treatment</td>
<td>41,496,533</td>
<td>11,619,678</td>
<td>7,094,964</td>
<td>9,076,712</td>
</tr>
<tr>
<td><strong>Water Total</strong></td>
<td>293,729,790</td>
<td>38,685,520</td>
<td>$47,230,227</td>
<td>$139,735,050</td>
</tr>
<tr>
<td><strong>Sewer CIP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collection</td>
<td>38,261,034</td>
<td>5,885,363</td>
<td>2,987,759</td>
<td>9,542,020</td>
</tr>
<tr>
<td>Operations &amp; General Management</td>
<td>43,988,797</td>
<td>4,549,247</td>
<td>3,521,762</td>
<td>30,613,300</td>
</tr>
<tr>
<td><strong>Sewer Total</strong></td>
<td>$82,249,831</td>
<td>$10,434,610</td>
<td>$6,509,521</td>
<td>$40,155,320</td>
</tr>
<tr>
<td><strong>Stormwater CIP</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stormwater</td>
<td>33,791,299</td>
<td>6,652,847</td>
<td>2,888,054</td>
<td>10,964,430</td>
</tr>
<tr>
<td>Operations &amp; General Management</td>
<td>19,943,556</td>
<td>775,250</td>
<td>757,004</td>
<td>17,702,522</td>
</tr>
<tr>
<td><strong>Stormwater Total</strong></td>
<td>53,734,855</td>
<td>$7,428,097</td>
<td>$3,645,058</td>
<td>$28,666,952</td>
</tr>
<tr>
<td><strong>Wastewater Total</strong></td>
<td>135,984,686</td>
<td>$17,862,707</td>
<td>$10,154,578</td>
<td>$68,822,272</td>
</tr>
<tr>
<td><strong>Water &amp; Wastewater Total</strong></td>
<td>$429,714,476</td>
<td>$56,548,226</td>
<td>$57,384,805</td>
<td>$208,557,322</td>
</tr>
</tbody>
</table>

*Working budget includes adopted budget, carryforward, transfers, lapsed appropriations, and supplementals.

**Encumbered amounts are PO contracts that may carry multiple years.

Capital Projects Spending

Total capital spending in the Water Fund through the Second quarter was $47.2 million, which was $8.5 million greater than the year-to-date spending plan of $38.7 million. This is due to timing differences in anticipated spending. The variance can primarily be attributed to Water Rights Acquisitions (SOS Water), which ended the quarter $25.0 million higher than planned. A $21.0 million purchase closed at the end of June, which included 512 acres of land for future storage development and water rights from the Godfrey Ditch & Big Bend Ditch totaling 577 Acre Feet of Consumptive Use. This overage was partially offset by the Solids Handling System Improvements project (Treatment) experiencing delayed geotechnical/surveying efforts as well as permitting delays at
the South East Area Maintenance Facility (SEAM) and Wild Horse Reservoir (SOS Storage). Many of the projects in the Water Fund are encumbered for a total of $139.7 million.

Through the Second quarter, total capital spending in the Wastewater Fund was $10.1 million, which was $7.7 million less than the spending plan of $17.9 million. There are also timing differences of anticipated spending in the Wastewater Fund. In the Stormwater program, the Peninsula Townhomes Construction project is $1.3 million less than plan due to contracting issues. In addition, the Fitzsimons Peoria Stormwater Outfall Project is $0.8 million less than planned. This can be attributed to less expenditures than anticipated in phase 4 and 5 of the project. The South East Area Maintenance Facility (SEAM) is $0.9 million less than planned also due to minor delays caused by permitting. Many of the projects in the Wastewater Fund are encumbered for a total amount of $68.8 million.
Capital Improvement Project of the Quarter
AVRP Shop Building

With the purchase of the Rocky Ford Ditch by the City of Aurora, which brings 14,000-acre ft. of water to Aurora every year, also brings Colorado Water Court ordered maintenance and ongoing revegetation of over 6800 acres of land. These decreed requirements are part of the responsibilities of Aurora’s Arkansas Valley Range Project (AVRP). To perform these decreed requirements there is a need for a variety of large equipment. Aurora has purchased and owns tractors, mowers, sprinklers, large pumps, ATVs, and other equipment. The maintenance, upkeep, and storage of this equipment for the most part must be performed outside. This presents a challenge and can result in unsafe working conditions in the winter cold and during summer storms.

The project was to build a 90’ x 40’ building with a 30’ x 90’ lean-to near the Rocky Ford Aurora office. This building will provide an adequate and safe indoor workspace for City of Aurora employees responsible for the maintenance and repair of the City’s equipment. It will also provide additional storage for the equipment that the City has invested in which will also extend the life of the equipment by keeping it protected from the elements. The building is also being supplied with electrical and gas services. The shop will include a single phase 200A 40 circuit bolt on breaker panel, 4 square boxes with 110 v plugs set 4 ft high a maximum of 8’ apart as well as 2’ from each corner and door. Lights shall be high bay LED, Lithonia Lighting IBE L24 22000LM 40K or equivalent and 3 way switched by each door. The building will have a 150,000 BTU Infrared Gas tube heater and a 150,000 BTU radiant heater to maintain comfortable working temperatures in the shop building.

The building is currently being constructed and is scheduled to be completed in September this year.
### 2021 Financial Comparison

The following table presents a comparison of budget to revenues and expenses through the Second quarter for the year 2021.

#### WATER as of 06/30/2021

<table>
<thead>
<tr>
<th>Revenues &amp; Expenses</th>
<th>Working Budget*</th>
<th>YTD Plan</th>
<th>YTD Actual</th>
<th>% Actual to Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenue</td>
<td>$134,055,574</td>
<td>$52,753,268</td>
<td>$46,480,030</td>
<td>-12%</td>
</tr>
<tr>
<td>Development Revenue</td>
<td>34,892,631</td>
<td>14,443,442</td>
<td>24,261,592</td>
<td>68%</td>
</tr>
<tr>
<td>Bond Proceeds and Transfers</td>
<td>120,000,000</td>
<td>-</td>
<td>138,760,000</td>
<td>0%</td>
</tr>
<tr>
<td>Interest Income</td>
<td>1,900,000</td>
<td>949,998</td>
<td>1,266,831</td>
<td>33%</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>$290,848,205</strong></td>
<td><strong>$68,146,708</strong></td>
<td><strong>$201,768,453</strong></td>
<td><strong>209%</strong></td>
</tr>
<tr>
<td>Operating Expense</td>
<td>($72,871,596)</td>
<td>($35,512,194)</td>
<td>($33,093,416)</td>
<td>-7%</td>
</tr>
<tr>
<td>Capital Projects</td>
<td>(293,729,790)</td>
<td>(38,685,520)</td>
<td>(47,230,227)</td>
<td>22%</td>
</tr>
<tr>
<td>Debt Service</td>
<td>(22,857,980)</td>
<td>(9,001,490)</td>
<td>(11,507,916)</td>
<td>28%</td>
</tr>
<tr>
<td><strong>Total Expense</strong></td>
<td><strong>($389,459,366)</strong></td>
<td><strong>($83,199,204)</strong></td>
<td><strong>($91,831,559)</strong></td>
<td><strong>10%</strong></td>
</tr>
<tr>
<td>Net Revenue &amp; Expense</td>
<td>($98,611,161)</td>
<td>($15,052,496)</td>
<td>$118,936,894</td>
<td></td>
</tr>
</tbody>
</table>

#### SEWER as of 06/30/2021

<table>
<thead>
<tr>
<th>Revenues &amp; Expenses</th>
<th>Working Budget*</th>
<th>YTD Plan</th>
<th>YTD Actual</th>
<th>% Actual to Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenue</td>
<td>$51,239,954</td>
<td>$24,740,030</td>
<td>$24,486,351</td>
<td>-1%</td>
</tr>
<tr>
<td>Development Revenue</td>
<td>5,762,750</td>
<td>2,384,352</td>
<td>4,663,605</td>
<td>96%</td>
</tr>
<tr>
<td>Bond Proceeds and Transfers</td>
<td>44,000,000</td>
<td>0</td>
<td>60,283,084</td>
<td>0%</td>
</tr>
<tr>
<td>Interest Income</td>
<td>526,360</td>
<td>210,000</td>
<td>287,615</td>
<td>37%</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>$101,529,064</strong></td>
<td><strong>$27,334,382</strong></td>
<td><strong>$89,720,655</strong></td>
<td><strong>228%</strong></td>
</tr>
<tr>
<td>Operating Expense</td>
<td>($42,674,581)</td>
<td>($21,033,662)</td>
<td>($19,736,842)</td>
<td>-6%</td>
</tr>
<tr>
<td>Capital Projects</td>
<td>(82,249,831)</td>
<td>(10,434,610)</td>
<td>(6,509,521)</td>
<td>-38%</td>
</tr>
<tr>
<td>Debt Service</td>
<td>(2,523,396)</td>
<td>(351,382)</td>
<td>(10,319,983)</td>
<td>2837%</td>
</tr>
<tr>
<td><strong>Total Expense</strong></td>
<td><strong>($127,447,808)</strong></td>
<td><strong>($31,819,654)</strong></td>
<td><strong>($36,566,346)</strong></td>
<td><strong>15%</strong></td>
</tr>
<tr>
<td>Net Revenue &amp; Expense</td>
<td>($25,918,744)</td>
<td>($4,485,272)</td>
<td>$53,154,309</td>
<td></td>
</tr>
</tbody>
</table>

#### STORMWATER as of 06/30/2021

<table>
<thead>
<tr>
<th>Revenues &amp; Expenses</th>
<th>Working Budget*</th>
<th>YTD Plan</th>
<th>YTD Actual</th>
<th>% Actual to Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenue</td>
<td>$23,650,020</td>
<td>$11,765,003</td>
<td>$11,771,918</td>
<td>0%</td>
</tr>
<tr>
<td>Development Revenue</td>
<td>1,700,000</td>
<td>703,379</td>
<td>2,035,399</td>
<td>189%</td>
</tr>
<tr>
<td>Bond Proceeds and Transfers</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Interest Income</td>
<td>320,000</td>
<td>159,996</td>
<td>204,589</td>
<td>28%</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>$25,670,020</strong></td>
<td><strong>$12,628,378</strong></td>
<td><strong>$14,011,906</strong></td>
<td><strong>11%</strong></td>
</tr>
<tr>
<td>Operating Expense</td>
<td>($13,612,830)</td>
<td>($6,666,459)</td>
<td>($4,851,347)</td>
<td>-27%</td>
</tr>
<tr>
<td>Capital Projects</td>
<td>(53,734,855)</td>
<td>(7,428,097)</td>
<td>(3,645,058)</td>
<td>-51%</td>
</tr>
<tr>
<td>Debt Service</td>
<td>(2,773,526)</td>
<td>(305,736)</td>
<td>(6,208,624)</td>
<td>1931%</td>
</tr>
<tr>
<td><strong>Total Expense</strong></td>
<td><strong>($70,121,211)</strong></td>
<td><strong>($14,400,292)</strong></td>
<td><strong>($14,705,029)</strong></td>
<td><strong>2%</strong></td>
</tr>
<tr>
<td>Net Revenue &amp; Expense</td>
<td>($44,451,191)</td>
<td>($1,771,914)</td>
<td>($693,123)</td>
<td></td>
</tr>
</tbody>
</table>

*Working budget includes adopted budget, carryforward, transfers, lapsed appropriations, and supplementals.
## Year-to-date Comparison to Prior Year (Water, Sewer and Stormwater)

The following table presents a comparison of revenues and expenses through the Second quarter for years 2021 and 2020.

### WATER Second Quarter Comparison

<table>
<thead>
<tr>
<th>Revenues &amp; Expenses</th>
<th>2021</th>
<th>2020</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenue</td>
<td>$46,480,030</td>
<td>$55,294,349</td>
<td>-16%</td>
</tr>
<tr>
<td>Development Revenue</td>
<td>24,261,592</td>
<td>25,434,108</td>
<td>-5%</td>
</tr>
<tr>
<td>Bond Proceeds and Transfers</td>
<td>138,760,000</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Interest Income</td>
<td>1,266,831</td>
<td>1,896,611</td>
<td>-33%</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>$210,768,453</strong></td>
<td><strong>$82,625,068</strong></td>
<td><strong>155%</strong></td>
</tr>
<tr>
<td>Operating Expense</td>
<td>($33,093,416)</td>
<td>($30,145,578)</td>
<td>10%</td>
</tr>
<tr>
<td>Capital Projects</td>
<td>(47,230,227)</td>
<td>(28,844,218)</td>
<td>64%</td>
</tr>
<tr>
<td>Debt Service</td>
<td>(11,507,916)</td>
<td>(9,018,025)</td>
<td>28%</td>
</tr>
<tr>
<td><strong>Total Expense</strong></td>
<td><strong>($91,831,559)</strong></td>
<td><strong>($68,007,821)</strong></td>
<td><strong>35%</strong></td>
</tr>
<tr>
<td><strong>Net Revenue &amp; Expense</strong></td>
<td><strong>$118,936,894</strong></td>
<td><strong>$14,617,247</strong></td>
<td><strong>35%</strong></td>
</tr>
</tbody>
</table>

### SEWER Second Quarter Comparison

<table>
<thead>
<tr>
<th>Revenues &amp; Expenses</th>
<th>2021</th>
<th>2020</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenue</td>
<td>$24,486,351</td>
<td>$24,184,937</td>
<td>1%</td>
</tr>
<tr>
<td>Development Revenue</td>
<td>4,663,605</td>
<td>4,226,547</td>
<td>10%</td>
</tr>
<tr>
<td>Bond Proceeds and Transfers</td>
<td>60,283,084</td>
<td>-</td>
<td>0%</td>
</tr>
<tr>
<td>Interest Income</td>
<td>287,615</td>
<td>471,413</td>
<td>-39%</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>$89,720,655</strong></td>
<td><strong>$28,882,897</strong></td>
<td><strong>211%</strong></td>
</tr>
<tr>
<td>Operating Expense</td>
<td>($19,736,842)</td>
<td>($21,576,762)</td>
<td>-9%</td>
</tr>
<tr>
<td>Capital Projects</td>
<td>(6,509,521)</td>
<td>(5,350,369)</td>
<td>22%</td>
</tr>
<tr>
<td>Debt Service</td>
<td>(10,319,983)</td>
<td>(117,382)</td>
<td>8692%</td>
</tr>
<tr>
<td><strong>Total Expense</strong></td>
<td><strong>($36,566,346)</strong></td>
<td><strong>($27,044,513)</strong></td>
<td><strong>35%</strong></td>
</tr>
<tr>
<td><strong>Net Revenue &amp; Expense</strong></td>
<td><strong>$53,154,309</strong></td>
<td><strong>$1,838,384</strong></td>
<td><strong>35%</strong></td>
</tr>
</tbody>
</table>

### STORMWATER Second Quarter Comparison

<table>
<thead>
<tr>
<th>Revenues &amp; Expenses</th>
<th>2021</th>
<th>2020</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Revenue</td>
<td>$11,771,918</td>
<td>$11,496,701</td>
<td>2%</td>
</tr>
<tr>
<td>Development Revenue</td>
<td>2,035,399</td>
<td>836,447</td>
<td>143%</td>
</tr>
<tr>
<td>Bond Proceeds and Transfers</td>
<td>0</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Interest Income</td>
<td>204,589</td>
<td>304,403</td>
<td>-33%</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td><strong>$14,011,906</strong></td>
<td><strong>$12,637,551</strong></td>
<td><strong>11%</strong></td>
</tr>
<tr>
<td>Operating Expense</td>
<td>($4,851,347)</td>
<td>($4,577,446)</td>
<td>6%</td>
</tr>
<tr>
<td>Capital Projects</td>
<td>(3,645,058)</td>
<td>(6,440,463)</td>
<td>-43%</td>
</tr>
<tr>
<td>Debt Service</td>
<td>(6,208,624)</td>
<td>(111,343)</td>
<td>5476%</td>
</tr>
<tr>
<td><strong>Total Expense</strong></td>
<td><strong>($14,705,029)</strong></td>
<td><strong>($11,129,252)</strong></td>
<td><strong>32%</strong></td>
</tr>
<tr>
<td><strong>Net Revenue &amp; Expense</strong></td>
<td><strong>($693,123)</strong></td>
<td><strong>$1,508,299</strong></td>
<td><strong>35%</strong></td>
</tr>
</tbody>
</table>
MEMORANDUM

To: Citizens’ Water Advisory Committee

Through: Marshall P. Brown, General Manager, Aurora Water

From: Sarah Young, Deputy Director for Planning & Engineering, Aurora Water
Andrea Long, Senior Engineer, Planning & Engineering, Aurora Water

Date: August 10, 2021

Subject: South East Maintenance (SEAM Facility) and Senac Creek Sanitary Sewer Interceptor Environmental Covenants

Purpose:

Aurora Water is currently constructing the first phase of the Southeast Area Maintenance Facility (SEAM), with an anticipated move-in date of mid-2023. The need for sanitary sewer conveyance at the SEAM site aligned with other identified needs in this area including the opportunity to abandon an existing, historically problematic, wastewater lift station. The Senac Creek Sanitary Sewer Interceptor project details will be discussed including the unique environmental project challenges.

Background:

The 2016-2017 Central Facilities Space Study determined that Central Facilities is space constrained and will not be able to meet the needs of continued growth. The assessment of existing facilities considered current and future space needs as well as how and where those needs should be allocated to best serve citizens and meet the operations goals of the department. Based on the findings of the Space Study, the recommendation is that a new facility be constructed in southeast Aurora, given that existing infrastructure is constrained for Water, Public Works, Fleet and Parks, Recreation and Open Space (PROS) employees. The Southeast Area Maintenance Facility (SEAM) will be located in southeast Aurora off Quincy Avenue and near the 470 interchange with Quincy, on an 88.1-acre, City-owned parcel. The multi-department facility will first house Aurora Water employees, with long term growth opportunities to expand to include departments such as Public Works, Fleet and PROS.

Question:

Informational item only. No action required.

cc: File copy
This Page Is Intentionally Left Blank
SEAM Update and
Senac Creek Sanitary Sewer Interceptor

Sarah Young, Aurora Water DD P&E
Andrea Long, Senior Engineer
Purpose and Need

“The quality of services that Aurora Water provides to its customers has the potential to be less effective in the future due to the current constraints of the central facilities campus. When considered along with future geographical and population growth within the city, the need for a future new facility to the southeast becomes apparent”
We are bursting at the seams!

#1 in Customer Satisfaction with Midsize Water Utilities in the West
For J.D. Power 2021 award information, visit jdpower.com/awards
Location, Location, Location
Staff SEAM Design Input Process


#1 in Customer Satisfaction with Midsize Water Utilities in the West
For J.D. Power 2021 award information, visit jdpower.com/awards
Staff Concept Sketches

#1 in Customer Satisfaction with Midsize Water Utilities in the West
For J.D. Power 2021 award information, visit jdpower.com/awards
Efficiency Inside and Out
The SEAM Leadership Team

- Aurora Water
- Public Works
- Designer – Eidos Architects
- Contractor – Saunders Construction
Southeast Area Maintenance Facility
SEAM

- SOS, SW and T&D Const Bays
- Pumping, T&D (M&M), WW Bays
- Cold Storage
- Trades and Warehouse
- Meter Shop, Support Services
- I&C
- Lab and Flow Control
- Billing, Env. Services, Planning & Eng.
- Operations Offices and Meeting Spaces
- Water Resources and Finance

#1 in Customer Satisfaction with Midsize Water Utilities in the West
For J.D. Power 2021 award information, visit jdpower.com/awards
Latest SEAM Renderings
SEAM Time Lapse

- [https://app.oxblue.com/open/saunders/SEAM](https://app.oxblue.com/open/saunders/SEAM)

#1 in Customer Satisfaction with Midsize Water Utilities in the West
For J.D. Power 2021 award information, visit jdpower.com/awards
Senac Creek Sanitary Sewer Interceptor
Quick Facts

- 30,400 LF
- 83 MH
- 5 – 40 Ft deep
- 27-inch diameter
- 7 tunnel locations
Environmental Covenant

- Governed by CDPHE
- Outline land use restrictions
- Protects human health and the environment
- Sections 4 & 9 - previously used for wastewater treatment biosolids disposal
- Restricted GW use
Questions
MEMORANDUM

To: Citizens’ Water Advisory Committee

Through: Marshall P. Brown, Director, Aurora Water
Sarah Young, Deputy Director, Planning and Engineering, Aurora Water

From: Ted Hartfelder, Project Manager, Planning and Engineering, Aurora Water

Date: August 10, 2021

Subject: Sand Creek Water Reuse Facility PLC Conversion Project

Purpose:

The Sand Creek Water Reuse Facility PLC Conversion Project replaced aging/obsolete electronic process control hardware, including programmable logic controllers (PLCs) used to monitor and control the facility’s processes. This system upgrade also required new communications lines and an update to the facility’s Control Room, all on a compressed timeframe to avoid seasonal operational needs.

Background:

The Sand Creek Water Reuse Facility is a 5.5 million gallon per day reuse water treatment facility that employs biological, chemical, and physical treatment processes to convert raw water diverted from a sewer interceptor into reuse water for municipal irrigation. Since commencing operations in the 1960s, the facility has undergone multiple capacity expansions and treatment processes upgrades.

Question:

Informational item only. No action required.

cc: File copy
This Page Is Intentionally Left Blank
Sand Creek Water Reuse Facility
PLC Conversion Project

Ted Hartfelder, Project Manager
August 10th, 2021
Outline

• Sand Creek Water Reuse Facility (SCWRF) Overview

• SCWRF PLC Conversion Project (Project) Overview

• Project Achievements
SCWRF…what is it?

- 5.5 million gallon per day reuse water treatment facility.
- Facility employs biological, chemical, and physical treatment processes to convert raw water to reuse water.
- Commenced operation in 1960s.
- Since commencing operations, facility has undergone multiple capacity expansions and treatment processes upgrades.
SCWRF....where is it located?

- The SCWRF is located at 11405 East 30th Avenue on bank of Sand Creek in northeast Aurora.
SCWRF...what purpose does it serve?

- Reuse water produced at the facility used to irrigate City golf courses, parks and landscaping.
- Using reuse water reduces the demand on the City’s potable water system.
Project Scope

- Replace aging/obsolete electronic process control hardware (i.e., PLCs [programable logic controllers]) used to monitor and control the facility’s processes. This hardware primarily contained in 5 control cabinets located throughout the facility.

  - Replace 5 existing process control cabinets with new, updated cabinets.
  - Upgrade the existing process control programming and communication network.
  - Update the security camera and phone system.
  - Modernize the existing control room.
Project Challenges

- Facility must remain operational at all times to maintain biological processes and provide irrigation water to downstream users if required.
- Construction can’t commence before November 2020, but must be substantially complete by end of March 2021.
- Project team must comply with all Covid-19 safety protocols and accommodate all Covid-19 related administrative delays.
- Records regarding previous facility improvements are incomplete.
- Existing process control programming and wiring is convoluted.
Project Delivery

- **Project Delivery Method** – Design Build
  Better suited for…
  – accommodating an aggressive project delivery schedule,
  – resolving project risk and uncertainty in real time, and
  – providing cost certainty.

- Project completed under two (2) separate phases…
  – Phase I – Design
  – Phase II – Construction

- **Design Build Team** – Carollo Engineers, Technical Systems Incorporated (TSI), McDade Woodcock, and Velocity Constructors

- **Phase I – Design**
  – $0.6M contract.

- **Phase II – Construction**
  – September 2020 and June 2021 (actual construction January through March 2021).
  – $4.2M contract.
The Project...Design

- Understand how the facility originally was designed, and how it subsequently has been modified.
- Understand how the facility operates.
- Determine how the facility should operate.
The Project...Design

- Identify Project uncertainty.
- Prepare construction related design documents (i.e., drawings and specifications).
- Develop and negotiate a guaranteed maximum price for the construction phase.
The Project...Construction

- Fabricate the new process control cabinets.
- Develop the new process control programming.
- Mobilize to the Project Site.
The Project...Construction

- Install additional conduit, conductors, and fiber required to support new control system, communications network, and phone system.
The Project...Construction

- Install security and phone system upgrades (i.e., additional security cameras and new video display phones).
- Modernize the control room.

For J.D. Power 2021 award information, visit jdpower.com/awards
The Project...Construction

- Replacement process control cabinets have been delivered to Project Site.
- New process control programming has been uploaded into each replacement cabinet.
- The process control cabinets are now collectively tested as a network prior to installation. This testing simulates facility operations and helps ensure replacement cabinets are functioning as intended prior to installation.
- Facility operators gain hands on experience with upgraded process control programming.
The Project...Construction
(existing process control cabinets removed, replacement cabinets installed)
The Project...Construction

- As each control cabinet is replaced it is tested again, but under actual operating conditions, and from the modernized control room. Other improvements installed under the Project also are tested.
- Ultimately everything is tested as an integrated system.
- Facility operators gain further experience with the upgraded process controls.
- Substantial Completion is achieved, and subsequent issues are resolved as they are identified (115 in April, 32 in May, 17 in June).
Achievements

- Built, programmed, and delivered 5 new process control panels in 3 months (October – December 2020).
- Compressed a 5 month construction schedule into 3 months (January – March 2021).
- De- and re-terminated over 1,800 control wires, tested and verified over 1,200 system alarms.
- Facility operations and biological processes were not interrupted.
- Minimal time for facility operators to acclimate to new programming.
- Project realized a $0.4M underrun.
- All this while following Covid-19 protocols.
Questions
MEMORANDUM

To: Citizens’ Water Advisory Committee

Through: Marshall P. Brown, General Manager, Aurora Water
         Greg Baker, Manager of Public Relations, Aurora Water

From: Natalie Brower-Kirton, Environmental Education and Outreach Program Manager, Aurora Water

Date: July 26, 2021

Subject: Aurora Water Education and Outreach Team- Supporting the Colorado Statewide Water Education Action Plan

Purpose:
Aurora Water has provided water education and outreach programs for the community in many forms reaching a wide range of community members for over twenty years. Staff will present highlights of the Education team’s work during the 2020-2021 school year and provide information on how we are leading water education in Colorado by supporting the Statewide Water Education Action Plan.

Action Required:
No action at this time is required. This presentation is purely informative in nature.

cc: File copy
WATER EDUCATION IN ACTION

Aurora Water’s Environmental Education & Outreach Program and the Statewide Water Education Action Plan

Natalie Brower-Kirton, CMEE
Aurora Water
Environmental Education & Outreach Program Manager
Environmental Education and Outreach

Public Affairs

- Increasing need
- Education that impacts behavior change
- Expanded team to broaden the scope
Environmental Education & Outreach
Aurora Water
Environmental Education & Outreach

Driving Excellence in Water Education

Providing...
Consistent
Creative
and Impactful
education and outreach
programs that promote
water literacy, water conservation,
water pollution prevention and
water stewardship
in Aurora

Creating an Informed Community

Collaborating to Create Behavior Change
STATEWIDE WATER EDUCATION
ACTION PLAN (SWEAP)

“Colorado's first statewide education action plan designed to support the Water Plan's goal of sustainable water by 2050.”

SCOTT WILLIAMSON
Education Programs Manager
Water Education Colorado

AURORA
WATER
WHY SWEAP?

The Colorado Water Plan and the Water Educator Network called for a common vision for water education.

Colorado Water Plan
Chapter 9.5: Outreach, Education and Public Engagement

“To expand outreach and education efforts that engage the public to promote well-informed community discourse and decision making regarding balanced water solutions.”

Empower Coloradans to take an active role in their communities and make informed decisions about critical water issues.
• A New Water Education Guide for Colorado

• Plan for reaching the “Outreach, Education and Public Engagement” goals of the Colorado Water Plan - Sustainable Water 2050

• Aurora Water
  2019-Core Collaborator in the creation of the Plan
  2020-Endorsed
  2021-Committees to evaluate and implement

• Programming that supports the plan
ENDORSEMENTS

Organizations and entities that affirm the value of the SWEAP vision and framework and the importance of achieving its outcomes.
EDUCATION CONTINUUM

Types of SWEAP outcomes and related disciplines...

<table>
<thead>
<tr>
<th>TYPE OF OUTCOME</th>
<th>DISCIPLINES AND STRATEGIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWARENESS</td>
<td><strong>PUBLIC RELATIONS</strong>&lt;br&gt; Water educators use public relations strategies to raise awareness.</td>
</tr>
<tr>
<td>KNOWLEDGE &amp; SKILLS</td>
<td><strong>EDUCATION</strong>&lt;br&gt; Water educators use education strategies to increase knowledge and teach skills.</td>
</tr>
<tr>
<td>BEHAVIOR CHANGE</td>
<td><strong>SOCIAL MARKETING</strong>&lt;br&gt; Water educators use social marketing strategies to encourage behavior changes.</td>
</tr>
<tr>
<td>SYSTEMS CHANGE</td>
<td><strong>SYSTEMS THINKING</strong>&lt;br&gt; Water educators use systems thinking strategies to ensure citizens help shape systems change.</td>
</tr>
</tbody>
</table>

Awareness is the first step toward engagement.

Knowledge is required for well-informed decisions. Skills are required for effective discourse.

Behavior changes are required for increased engagement.

Systems change is required for balanced solutions and empowered communities.
SWEAP Outcomes

Statewide Water Education Action Plan Outcomes

1. The proportion of Coloradans in each river basin who can identify how water supports their quality of life, as well as the threats to and potential solutions for a sustainable water supply, increases.

2. The proportion of Coloradans in each river basin who can articulate at least three “Critical Water Concepts” increases.

3. The proportion of Coloradans in each river basin who report confidence in having the knowledge necessary to take an active role in water stewardship in their community increases.

4. The proportion of Coloradans in each river basin who report confidence in having the skills necessary to take an active role in water stewardship in their community increases.

5. Participation in community discourse and decision processes about water at the state, regional and local levels increases.

6. Voters have access to factual information that addresses potential impacts to sustainable water resources in relevant issue areas.

7. The proportion of Coloradans in each river basin that are demonstrating sustainable water behaviors increases.

8. Where relevant, local and state policies and practices are supportive of advancing statewide water literacy.

9. Where relevant, local and state policies, regulations, and practices demonstrate a consideration of impacts on sustainable water resources.

10. Water decision-making bodies are increasingly representative of the demographic make-up of the area they serve.

More details on draft metrics for each outcome can be found on the SWEAP website under “Measuring Success”. 
# Aurora Water

## Watershed Education in Action

<table>
<thead>
<tr>
<th>Aurora Water Environmental Education &amp; Outreach (EE&amp;O)</th>
<th>Statewide Water Education Action Plan Outcomes Alignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driving Excellence in Water Education</td>
<td>1</td>
</tr>
<tr>
<td>Aurora Public Schools 5th Grade Water Unit</td>
<td>✓</td>
</tr>
<tr>
<td>Classroom Presentations, School Assemblies &amp; Field Trips</td>
<td>✓</td>
</tr>
<tr>
<td>MSU Theatre Project</td>
<td>✓</td>
</tr>
<tr>
<td>H2O Outdoors</td>
<td>✓</td>
</tr>
<tr>
<td>Trumbull Experimental Forest - Outdoor Watershed Classroom</td>
<td>✓</td>
</tr>
<tr>
<td>Creating and Informed Community - Collaborating to Create Behavior Change</td>
<td>✓</td>
</tr>
<tr>
<td>Outreach &amp; Events</td>
<td>✓</td>
</tr>
<tr>
<td>In person and Online Conservation Courses</td>
<td>✓</td>
</tr>
<tr>
<td>Pipeline: Careers in Water Program</td>
<td>✓</td>
</tr>
<tr>
<td>Forest to Faucets Teacher Workshops</td>
<td>✓</td>
</tr>
<tr>
<td>Aurora Water Course (Coming Soon!)</td>
<td>✓</td>
</tr>
</tbody>
</table>
Youth Education Programs 1994-2020

School Year | # of Students |
------------|---------------|
1994-1995  | 30            |
1995-1996  | 43            |
1996-1997  | 52            |
1997-1998  | 100           |
1998-1999  | 99            |
2000-2001  | 60            |
2001-2002  | 67            |
2002-2003  | 1257          |
2003-2004  | 1641          |
2004-2005  | 2641          |
2005-2006  | 4426          |
2006-2007  | 5228          |
2007-2008  | 6364          |
2008-2009  | 5922          |
2009-2010  | 6420          |
2010-2011  | 7352          |
2011-2012  | 8715          |
2012-2013  | 10516         |
2013-2014  | 10964         |
2014-2015  | 11704         |
2015-2016  | 12098         |
2016-2017  | 13360         |
2017-2018  | 12908         |
2018-2019  | 17889         |
2019-2020  | 17408         |
Aurora Water Education Program History

# OF STUDENTS

<table>
<thead>
<tr>
<th>SCHOOL YEAR</th>
<th># Staff</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996-1997</td>
<td>1450</td>
<td>0.25</td>
</tr>
<tr>
<td>1997-1998</td>
<td>1500</td>
<td>0.25</td>
</tr>
<tr>
<td>1998-1999</td>
<td>1841</td>
<td>0.21</td>
</tr>
<tr>
<td>2000-2001</td>
<td>2570</td>
<td>0.25</td>
</tr>
<tr>
<td>2001-2002</td>
<td>1673</td>
<td>0.5</td>
</tr>
<tr>
<td>2002-2003</td>
<td>2415</td>
<td>0.5</td>
</tr>
<tr>
<td>2003-2004</td>
<td>1257</td>
<td>1</td>
</tr>
<tr>
<td>2004-2005</td>
<td>1641</td>
<td>1</td>
</tr>
<tr>
<td>2005-2006</td>
<td>2641</td>
<td>1</td>
</tr>
<tr>
<td>2006-2007</td>
<td>4426</td>
<td>4.5</td>
</tr>
<tr>
<td>2007-2008</td>
<td>5228</td>
<td>4.5</td>
</tr>
<tr>
<td>2008-2009</td>
<td>6364</td>
<td>6.7</td>
</tr>
<tr>
<td>2009-2010</td>
<td>5922</td>
<td>7.5</td>
</tr>
<tr>
<td>2010-2011</td>
<td>6420</td>
<td>8.0</td>
</tr>
<tr>
<td>2011-2012</td>
<td>7352</td>
<td>8.0</td>
</tr>
<tr>
<td>2012-2013</td>
<td>8715</td>
<td>10.0</td>
</tr>
<tr>
<td>2013-2014</td>
<td>10516</td>
<td>10.0</td>
</tr>
<tr>
<td>2014-2015</td>
<td>10964</td>
<td>10.0</td>
</tr>
<tr>
<td>2015-2016</td>
<td>11704</td>
<td>11.0</td>
</tr>
<tr>
<td>2016-2017</td>
<td>13360</td>
<td>12.0</td>
</tr>
<tr>
<td>2017-2018</td>
<td>12098</td>
<td>12.0</td>
</tr>
<tr>
<td>2018-2019</td>
<td>17889</td>
<td>17.5</td>
</tr>
<tr>
<td>2019-2020</td>
<td>17408</td>
<td>17.5</td>
</tr>
</tbody>
</table>
Aurora Public Schools - 5th Grade Water Unit & Classroom Presentations
Virtual Water Education
School Assemblies
Field Trips

Aurora Reservoir
Aurora Water Wise Gardens
Water Theatre

Metropolitan State University
Denver Water
Aurora Water
Forests to Faucets
Teachers Exploring the South Platte Watershed
Teacher Continuing Education

- Forests to Faucets: Aurora’s Water Resources
  - 3 Day Project WET and Project Learning Tree Workshop
- Forests to Faucets 2
  - 1 Day Project Wet Workshop
Pipeline: Careers in Water
Introduction to Water-wise Landscape

Welcome

Introduction to Water-Wise Landscape

Start course
Creating an Informed Community

Outreach & Events

Classes

WATER CONSERVATION CLASSES

Registration is required for all classes. Call 303.739.7195 or visit AuroraGov.org/WaterClasses to register or to learn more about our classes.

BELOW YOUR OWN DRIP SYSTEM
Water-efficient drip irrigation systems are great for gardens of all sizes. You'll learn how to design, construct, and maintain your new system in this hands-on class.

DISCOVER WATER-WISE PLANTS*
Get to know our top recommended plants. We'll take a tour of the UCD Demonstration Garden and learn about these favorite trees, shrubs, perennials, and grasses.

DIY SPRINKLERS SYSTEM*
Tune up your sprinkler system for maximum efficiency and learn how to check for leaks in this hands-on class. Get to know your system components and learn how to program your clock. Yes, you can ask about your specific system.

DIY WATER-WISE LANDSCAPE DESIGN
Learn how to plan and draw your own water-wise landscape. After March 19, these parts will be combined into one class.
Part One: Learn basic principles of design and draw your site map.
Part Two: Get started on your design.

GROW FOOD, SAVE WATER
Vegetables require 40 percent less water than your lawn. This course covers design and implementation of a vegetable garden. The class on March 11 will include a guest speaker on composting.

LOW-WATER TREES*
Get to know the low-water, drought-tolerant trees that thrive in our climate. This class will introduce you to many species and their unique features. Learn how to properly maintain your trees year-round for optimal health.

MAKE COMPOST, SAVE WATER
Adding compost will significantly improve your soil and reduce the amount of water you use. We'll walk you through the steps.

SEASONAL GARDEN MAINTENANCE*
We'll teach you how to care for your landscape year-round in this hands-on class. You'll see demonstrations of managing trees, shrubs, perennials, and grasses in the city's Demonstration Garden.

WATER-WISE LANDSCAPE BASICS
Find out how to convert your lawn into a beautiful, low-water landscape without breaking the bank.

WATER-WISE LANDSCAPE START TO FINISH*
Discover the ins and outs of converting your lawn into a low-water landscape with this hands-on class. We'll talk about turf removal, irrigation, and how to choose plants. We'll also show you site layout and proper planting techniques.

*Classes outside Civic Center in Aurora. Please dress appropriately.

Volunteers are always welcome in the Aurora Water-Wise Garden.
For information, call 303.739.7195.

FREE DESIGN CONSULTATION SERVICE
Rather than designing your own landscape, have our professional designer do it for you. To participate, take the DIY Water-Wise Design class listed above. When you’ve finished your homework from the class, call us to schedule a design consultation.
# Aurora Water EE&O Programs & SWEAP Outcomes

## Aurora Water Environmental Education & Outreach (EE&O)

|----------------------------------------------------------|-----------|-------------------------|-----------|--------|---------------|-----------------------------|-----------------------------|---------------------------------|--------------------------|---------------|

### Driving Excellence in Water Education

Aurora Public Schools 5th Grade Water Unit  
Classroom Presentations, School Assemblies & Field Trips  
MSU Theatre Project  
H2O Outdoors  
Trumbull Experimental Forest- Outdoor Watershed Classroom

### Creating and Informed Community - Collaborating to Create Behavior Change

Outreach & Events  
In person and Online Conservation Courses  
Pipeline: Careers in Water Program  
Forest to Faucets Teacher Workshops  
Aurora Water Course (Coming Soon!)
Water Educator Network - Water Education Colorado
https://www.watereducationcolorado.org/programs-events/water-educator-network/

Colorado Alliance for Environmental Education
https://caee.org/

Corelate to Standards
Work with School Districts

National Association of Interpretation Principles
https://www.interpnet.com/

Collaborate

AuroraGov.org/H2OEducation
watereducation@auroragov.org