

SOUTH JORDAN CITY
CITY COUNCIL MEETING

May 1, 2018

Present: Mayor Dawn Ramsey, Council Member Patrick Harris, Council Member Brad Marlor, Council Member Jason McGuire, Council Member Tamara Zander, CM Gary Whatcott, Fire Chief Andrew Butler, Administrative Services Director Spencer Kyle, Public Works Director Jason Rasmussen, Strategic Services Director Don Tingey, Development Services Director Brad Klavano, City Attorney Ryan Loose, ACM Dustin Lewis, City Commerce Director Brian Preece, Finance Director Sunil Naidu, IT Director John Day, Police Chief Jeff Carr, City Council Secretary MaryAnn Dean

Others: Attachment A

REGULAR MEETING

A. Welcome and Roll Call – *Mayor Dawn Ramsey*

Mayor Ramsey welcomed everyone present. Council Member Shelton was excused from the meeting.

B. Invocation – *Provided by Scout – Trynn Oliphant*

Trynn Oliphant, scout from troop 517, offered the invocation.

C. Pledge of Allegiance

Mayor Ramsey recognized the scouts that were present.

Xander Lower, scout from troop 517, led the audience in the Pledge of Allegiance.

Mayor Ramsey recognized more scouts that arrived at the meeting.

Council Member Zander made a motion to move item G. to the end of the agenda. Council Member Marlor seconded the motion. The vote was 4-0 in favor.

D. Minute Approval

D.1. April 17, 2018 Joint Council & Planning Commission Study Meeting

D.2. April 17, 2018 City Council Meeting

Council Member McGuire made a motion to approve the April 17, 2018 Joint Council & Planning Commission Study meeting minutes, and the April 17, 2018 City Council meeting

minutes, as printed. Council Member Zander seconded the motion. The vote was 4-0 in favor.

E. Public Comment:

Ethan Higley, 11642 Golden Wheat Cove, asked when the Trax line will be extended to Herriman? CM Whatcott said 2 studies have been done. They have solidified a route. The only problem left is funding. He noted that the trax line costs \$60 million a mile.

Mayor Ramsey said all of the elected officials in this part of Salt Lake Valley are letting their state legislators know that this is a priority project for them.

Jackson Caster, 3794 Autumn Rain Rd., asked if there are any plans to add any new basketball courts to their area? Associate Director of Public Works Hill said there are no parks planned for the area. It has been suggested that they add more amenities, such as basketball and pickle ball. Where those will be added, he does not know. It is good information to know there is an interest for basketball.

F. Presentation: Life Saving Award Proclamation “Charlotte Schockmel-Glade Day”

Mayor Ramsey read the proclamation and recognized Charlotte Schockmel-Glade.

Janell Payne, manager of the Fitness Aquatics Center, presented the American Red Cross Life Saving Award to the life guards on duty.

Erin Grimshaw, friend of Charlotte Schockmel-Glade, was also recognized and awarded with a challenge coin.

G. Action Item: Resolution R2018-20, Appointment of Randi Shaw to the Arts Council.
(*By Administrative Services Director, Spencer Kyle*)

This item was moved to the end of the agenda.

H. Public Hearing: Ordinance 2018-05, approving the definition for, and the restrictions related to, camping within the City of South Jordan. (*By ACM, Dustin Lewis*)

ACM Lewis reviewed the background information on this item.

Mayor Ramsey opened the public hearing. There were no comments. She closed the public hearing.

Council Member Zander asked if this ordinance is to address homeless people? Mr. Lewis said yes, but sometimes they have other people that are camping in the city as well. Recently, the issue that is most encountered is with the homeless population. They have seen an increase in the last 8-9 months as neighboring jurisdictions have changed their rules.

Council Member Marlor asked if this includes those that bring in a camper or trailer to park on public property? Mr. Lewis said yes.

Council Member Harris asked if they are recommending where these individuals should go? Mr. Lewis said yes, they give recommendations based on the individual situation. Unless something serious is occurring, the person is just given an infraction.

Council Member Marlor made a motion to approve Ordinance 2018-05. Council Member Zander seconded the motion. Roll call vote. The vote was 4-0 in favor. Council Member Shelton was absent from vote.

I. Reports and Comments: *(Mayor, City Council, City Manager, and City Attorney)*

Dr. Johnson, Superintendent of Jordan School District, thanked Police Chief Carr and Mayor Ramsey for their participation in the recent school safety meeting. She also thanked the city for the invitation for her to be Grand Marshal of the parade this year.

Council Member Harris noted that they attended the ULCT conference.

Council Member Marlor reported on the ARC (Architectural Review Committee) meeting. He said he also enjoyed the ULCT conference. He appreciated the legislative update and the information about bills they may be coming up. He appreciated a class about handling difficult residents. He also liked a class on how to improve communication between the Council and with staff.

Council Member Zander reported on her meeting with the Salt Lake Valley Mosquito Abatement District. She reported on the Arts Council. She noted a children's theatre of Snow White that is coming up. The Arts Council is doing 10 more wraps on utility boxes this year. She said they are hoping the winners of the chalk art contest for Summer Fest will be the artists for the utility wraps.

Council Member McGuire said he is looking forward to the children's theater group performance.

Mayor Ramsey wished Council Member McGuire a happy birthday.

Mayor Ramsey said she spoke to student leaders at East Lake Elementary and spoke at a Dare Graduation at Bastian Elementary. She met with developers and residents. She attended a ribbon cutting at the Sheraton. She gave a brief update on Summer Fest. She also finished delivering the outstanding educator awards.

Council Member McGuire said his daughter's 5th grade teacher received that honor. There are many quality teachers at Eastlake Elementary.

The City Council addressed their take away's from the ULCT conference.

Council Member Harris said he went to a session on affordable housing. They discussed placement of high density housing near TOD's. They talked about a point system for road funding. He said it is uncertain, but it appears that past projects won't receive any points, current projects will likely not get any points either. He said there is a chance that it won't include any projects that are currently in planning. They need to consider the timing and understand that if they start projects too early, they may not get road funding.

Council Member Harris discussed a class he attended on contracts. He said he would like to make sure that the city is including the appropriate wording so the city is protected from lawsuits in their contracts. ACM Lewis said they are doing a 1-hour staff training to review those contract issues.

Council Member Marlor said he previously shared his take away's. He said Mayor Ramsey is a great ambassador to the city. The city gets a lot accomplished because of her efforts.

Council Member Zander said in one of the classes, they talked about the 2020 census. After the census, they will be able to redistrict and shift the boundaries of their districts. She said they took a class on communicating with the residents; they can always improve on that. She attended a class on the opioid crisis. She became more educated on that issue. She said as a city, they can join in the class action lawsuit that is being filed. City Attorney Loose said to join that, they need to determine what the impact has been on South Jordan. They have to be able to show some damage. Police Chief Carr noted an incident where one of their officers won an award for working with the DEA on a fake opioid case in South Jordan. He said the opioid crisis is an impact to the city.

Mayor Ramsey said she attended the elected women's breakfast. She attended a meeting for the first and second-class cities and discussed how to implement progress. She said there are a number of police officers, over 300, that all of the cities are fighting over. There is still an officer deficit in the state. She attended the new Mayor's reception. She said the Salt Lake City Council discussed a shared concern. The door is wide open for land use control to be taken away for South Jordan. It was helpful to hear more about how that has impacted Salt Lake City. They have a huge land area that they have to provide services for and they do not receive any taxes for it.

CM Whatcott said mental health issues are having an effect on city resources. He noted a video where a South Jordan officer was interviewed for a local news story on the issue. Due to technical difficulties, the video was shown later in the meeting.

CM Whatcott said he and Public Works Director Rasmussen went to tour a water treatment facility in Florida. They do not use the RO process. It gives them hope for the future of the state to understand this process. He said reuse has to be a future part of the water plan. He said the technology they use eliminates elements that have been a concern. The water is cleaner than what is pumped out of the ground.

Public Works Director Rasmussen reviewed a prepared presentation about the water treatment plant (Attachment B) He said the EPA is studying this process. He believes they will see more plants like this as it is turning out to be successful.

Council Member Marlor asked why Florida is in need of this process, considering the amount of rain they receive? CM Whatcott said they have concerns with water shortages with aquifers. They have also over papered their water rights. They are pumping out more than they have. They have a lot of water, but also a significant population to serve.

Mr. Rasmussen noted that the RO process takes a lot of energy. He said bio filtration and gas filtration are not used in the RO process. He said federal regulations make a process like the one in Florida difficult.

Police Chief Carr updated the City Council on the plan for the youth temple walk to the Jordan River Temple. He said they will have 10 officers on extra duty assignments, paid for by the church, in addition to the regular patrol. They are planning to have adequate adult leaders to supervise the youth. The concern is the number of attendees (planning 20,000) and pedestrian safety. Fire Chief Butler said they also have 10 additional staff planned for that event. They share the same concerns as the police department.

The afore mentioned video on mental health's effect on the police officer's job was shown.

Police Chief Carr said police officers are crime fighters, but they have increasingly become problem solvers. Daily, sometimes multiple times a day, they are dealing with mental health issues. They team up with MCOT (Mobile Crisis Outreach Teams). They are lucky to work with MCOT. MCOT is overwhelmed by their workload as well. The mental health cases, including the one noted in the video, takes a lot of time and effort. There is an overlap with the opioid crisis and mental health issues. Sometimes, all the community has is the police officers. Even if it is not the right choice.

CM Whatcott said they got the survey back about the resident to serve on the General Plan steering committee. He said the top 3 picks were Laars Erickson, Cecily Brunnell, and David Jenkins. Mayor Ramsey noted that the committee would be an advisory committee to the City Council as they put together the General Plan. It is not a committee that makes decisions. They will be serving with her, Planning Commission Chairman Woolley, Council Member Harris, and Council Member McGuire.

Council Member Zander, Council Member McGuire, and Council Member Marlor all indicated a willingness to increase the resident's involvement on that steering committee from 1 resident to 3 residents. Council Member Harris said he does not want them to all be from the same area. It was noted that the top 3 individuals live in different parts of the city.

All of the City Council, including Mayor Ramsey, concurred to allow 3 residents to serve on that committee. Council Member Harris noted that any resident can attend. He asked if comments

would be allowed at the meetings? CM Whatcott said that is up to the chair. Mayor Ramsey said she would be agreeable to comments and input.

Council Member Harris asked that when staff sends a letter to those that did not get chosen to serve, they should invite those individuals to still attend the meetings. He does not want them excluded. Mr. Schaefermeyer said they can also gather emails and notify the individuals of upcoming meetings. Mayor Ramsey said to make sure they understand that this is not a decision making body. Council Member Zander asked that the City Council be included in that email as well.

City Attorney Loose said Salt Lake County recently passed an Ordinance that says they have imposed the tax, if 67 percent of the elected officials say that they want the tax levied for the roads authorized by SB136. If that does not pass, it will go into effect anyway by the State. The County is asking for cities who support this to pass a Resolution of support by June 22nd. It was determined to put the Resolution on the next City Council agenda.

Mayor Ramsey said she will follow up on the point system and find out when it applies for housing by TOD projects.

Mayor Ramsey noted that there was some changes on the Wasatch Front Regional Council transportation committee, but she will still be part of that committee.

Council Member Zander informed the City Council that there is a group of parents that are advocates for a pool facility for Bingham High and Herriman. They met with Darrell Robinson from the Jordan School District, and he is eager to help resolve the concerns and find a solution.

G. Action Item: Resolution R2018-20, Appointment of Randi Shaw to the Arts Council. (By Administrative Services Director, Spencer Kyle)

Administrative Services Director Kyle reviewed the background information on this item. Council Member Zander said Ms. Shaw opened a dance studio in South Jordan and is a huge arts advocate.

Council Member Zander made a motion to approve Resolution R2018-20. Council Member McGuire seconded the motion. The vote was 4-0 in favor. Council Member Shelton was absent from vote.

ADJOURNMENT

Council Member McGuire made a motion to adjourn. Council Member Zander seconded the motion. The vote was unanimous in favor.

The May 1, 2018 City Council meeting adjourned at 8:37 p.m.

This is a true and correct copy of the May 1, 2018 City Council Meeting Minutes, which were approved on May 15, 2018.

Anna M. West
South Jordan City Recorder



DPR Without RO at pureALTA

Alternatives for Potable Reuse in Florida

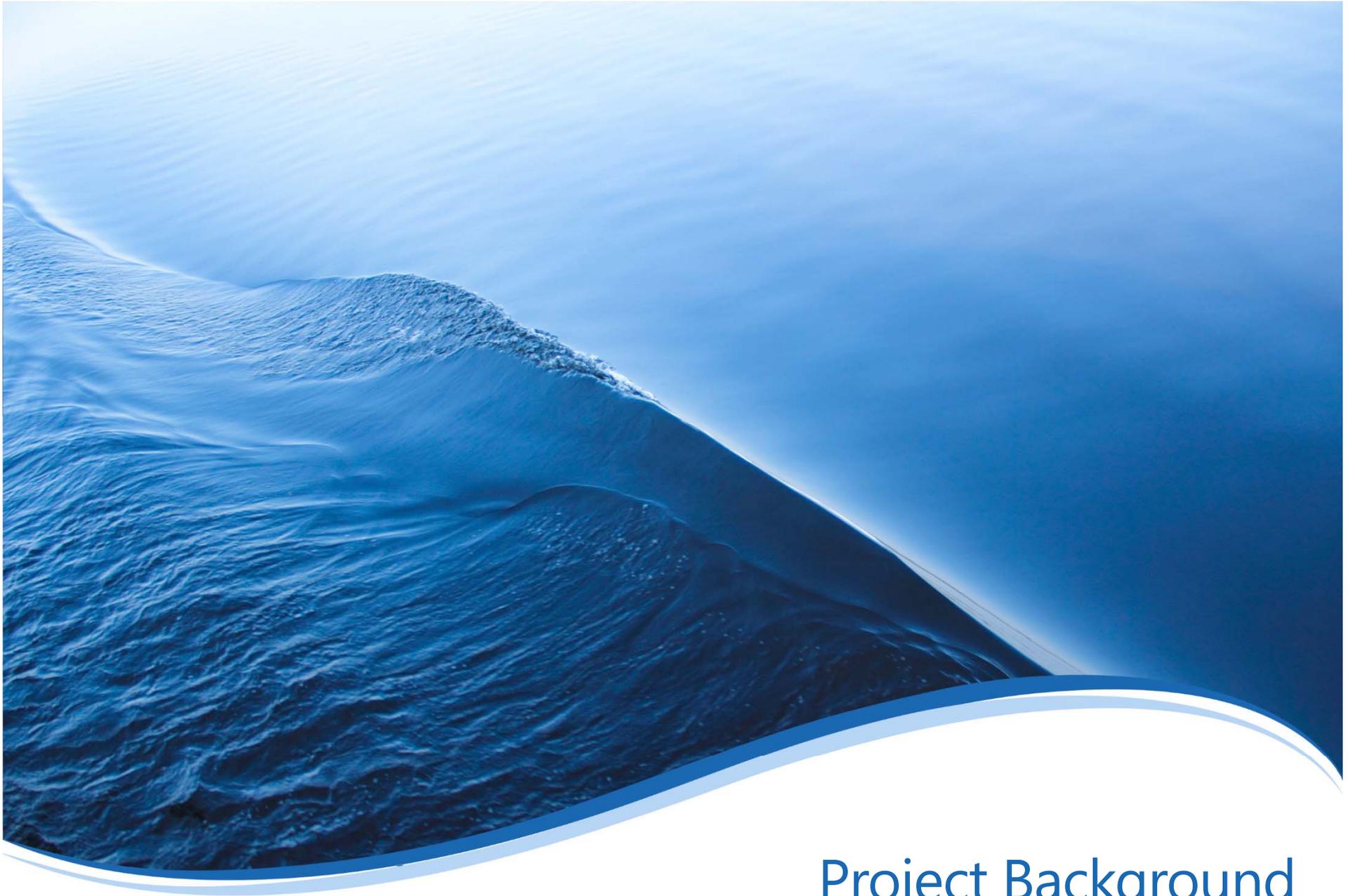
Jo Ann Jackson
City of Altamonte Springs

Pranjali Kumar
Carollo Engineers

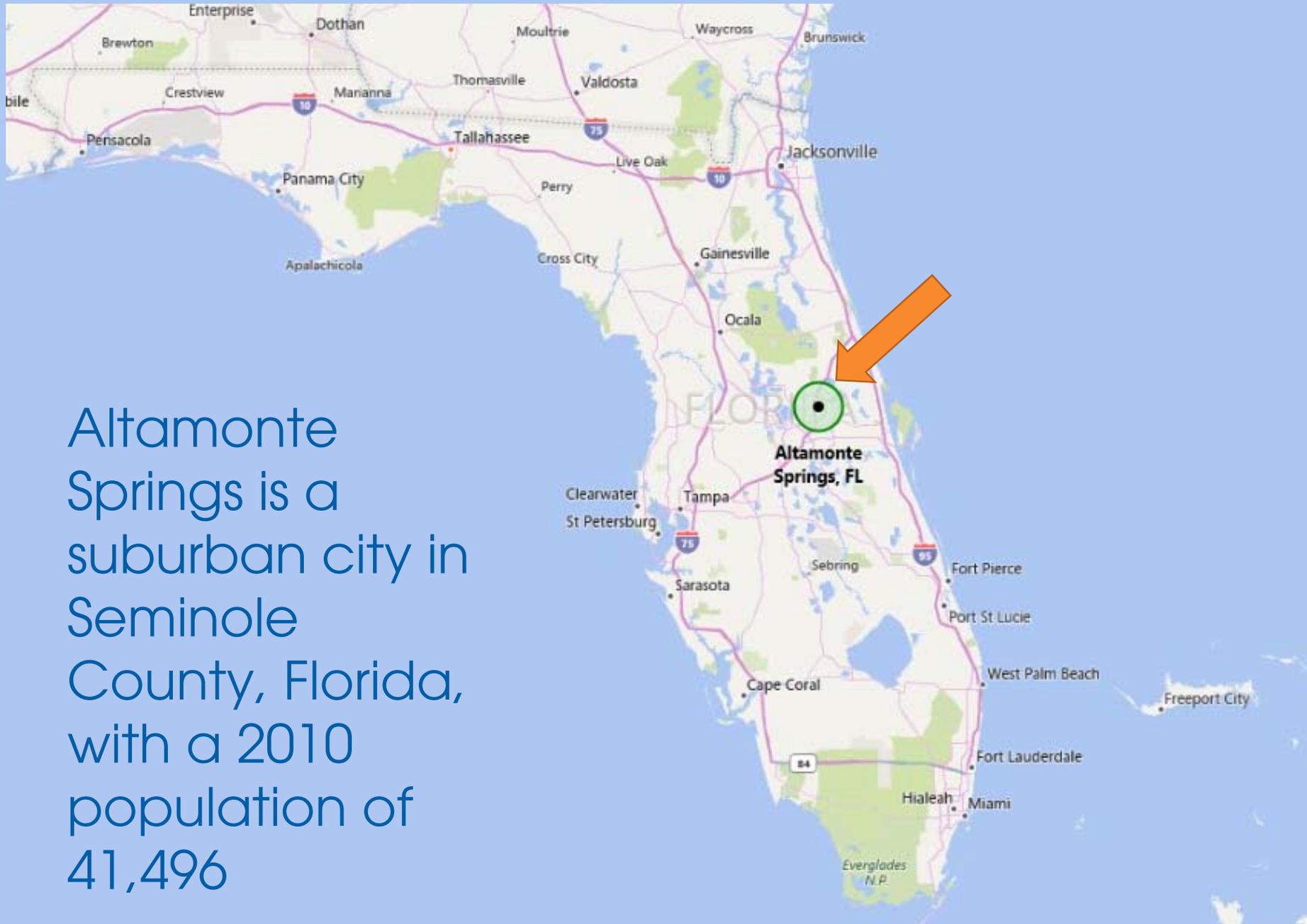
April 16th, 2018

WATER
OUR FOCUS
OUR BUSINESS
OUR PASSION


Engineers...Working Wonders With Water®



Project Background



Altamonte Springs is a suburban city in Seminole County, Florida, with a 2010 population of 41,496

Why Potable Reuse?



pureALTA is a potable reuse pilot that provides an opportunity for the City of Altamonte Springs to investigate the development of a safe, secure and sustainable water supply for the future. pureALTA aims to further diversify the City's water portfolio while also utilizing novel and energy-efficient treatment technologies.

Due to population increases and dwindling Floridan aquifer levels, experts have long predicted the state will not have enough groundwater to satisfy the public's drinking water needs. To address this issue, the City is creating an innovative pilot that evaluates a safe, reliable and drought-resistant water source for the community.

Why create a potable reuse pilot in Altamonte Springs?
 The City's goal is to maintain a high-quality, viable water supply for today's community and future generations. The pilot aims to demonstrate energy-efficient technologies that will create a safe and sustainable water supply and also extend the City's use of existing sources. The City is aware that:

- The Central Florida Water Initiative (CFWI) has shown fresh traditional groundwater resources alone cannot meet future water demands or current permitted allocations without resulting in unacceptable impacts to water resources and related natural systems.
- Increasing population densities in the City's service area over time will require more water, more efficient use of water, and an expanded portfolio of alternative water supplies (groundwater, stormwater, reclaimed water and a small portion of potable reuse).
- Most of our seemingly abundant yearly rainfall is lost to the ocean through past "ditch and drain" practices that provide flood protection.
- We have also experienced periodic prolonged droughts in the past, such as in 1984, 1998 and 2001, during which water supply sources were threatened and natural systems experienced added stress.

What will the pilot accomplish?
 Beyond producing purified water that meets all drinking water quality standards, data from the pilot will allow the City to:

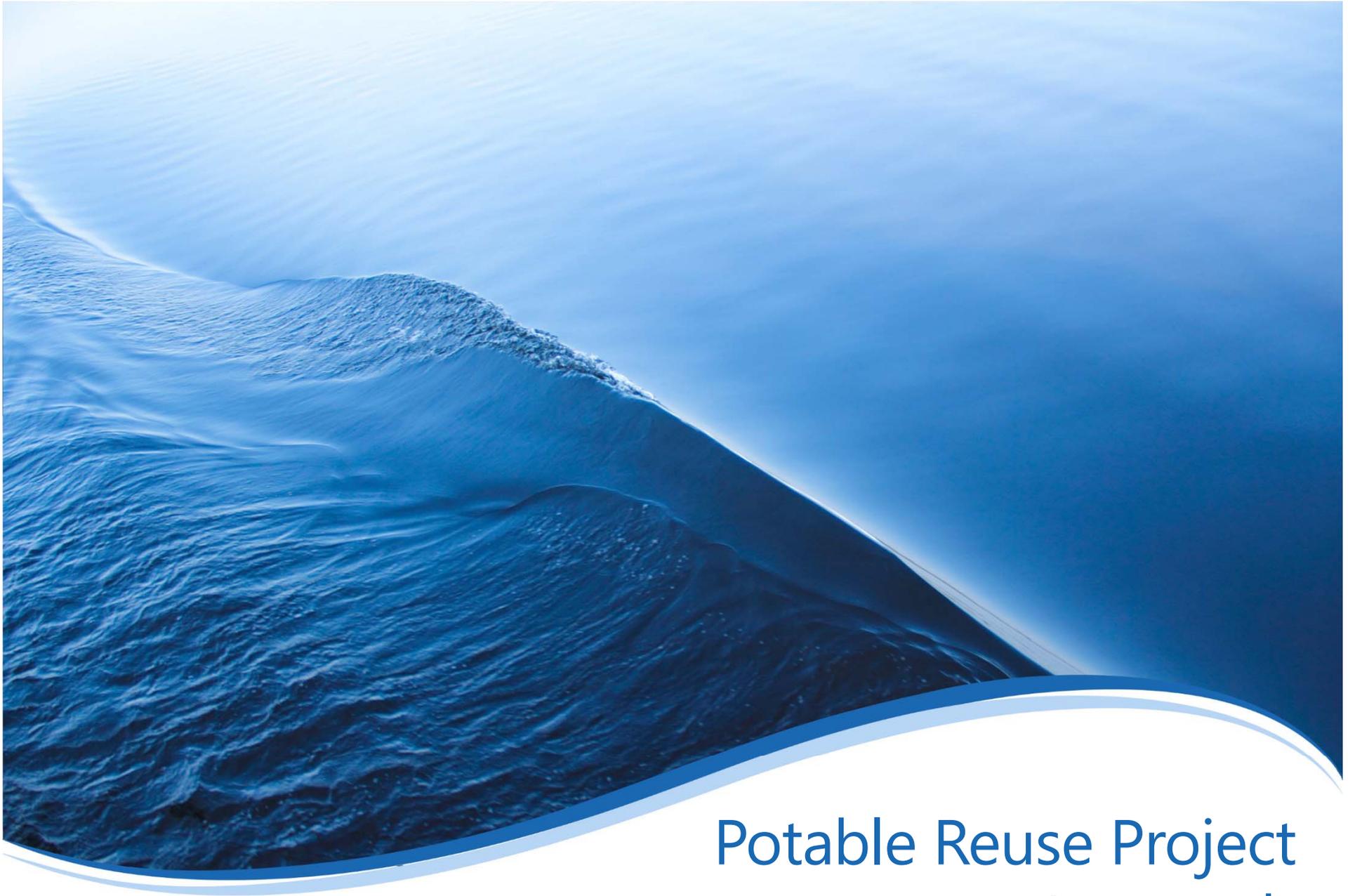
- Develop cost and process treatment data as a model for other potable reuse projects throughout the state.
- Explore, construct and demonstrate treatment processes that when combined exceed drinking water standards and reduce long-term operating costs.
- Demonstrate advanced monitoring technologies that help ensure the resulting purified water is safe and reliable.
- Share the project findings with the Florida Department of Environmental Protection (FDEP) for the future development of regulatory framework for potable reuse.
- Introduce potable reuse and treatment technologies to Seminole County students annually through the Altamonte Springs Science Incubator (AS²I) program. This will help expand awareness of the pilot project in the community and enable students to gain a deeper understanding of our precious water resources.

These facts signify the need to plan and develop additional water sources to meet our future demands.

Regional and National Leadership from Altamonte Springs and SJRWMD

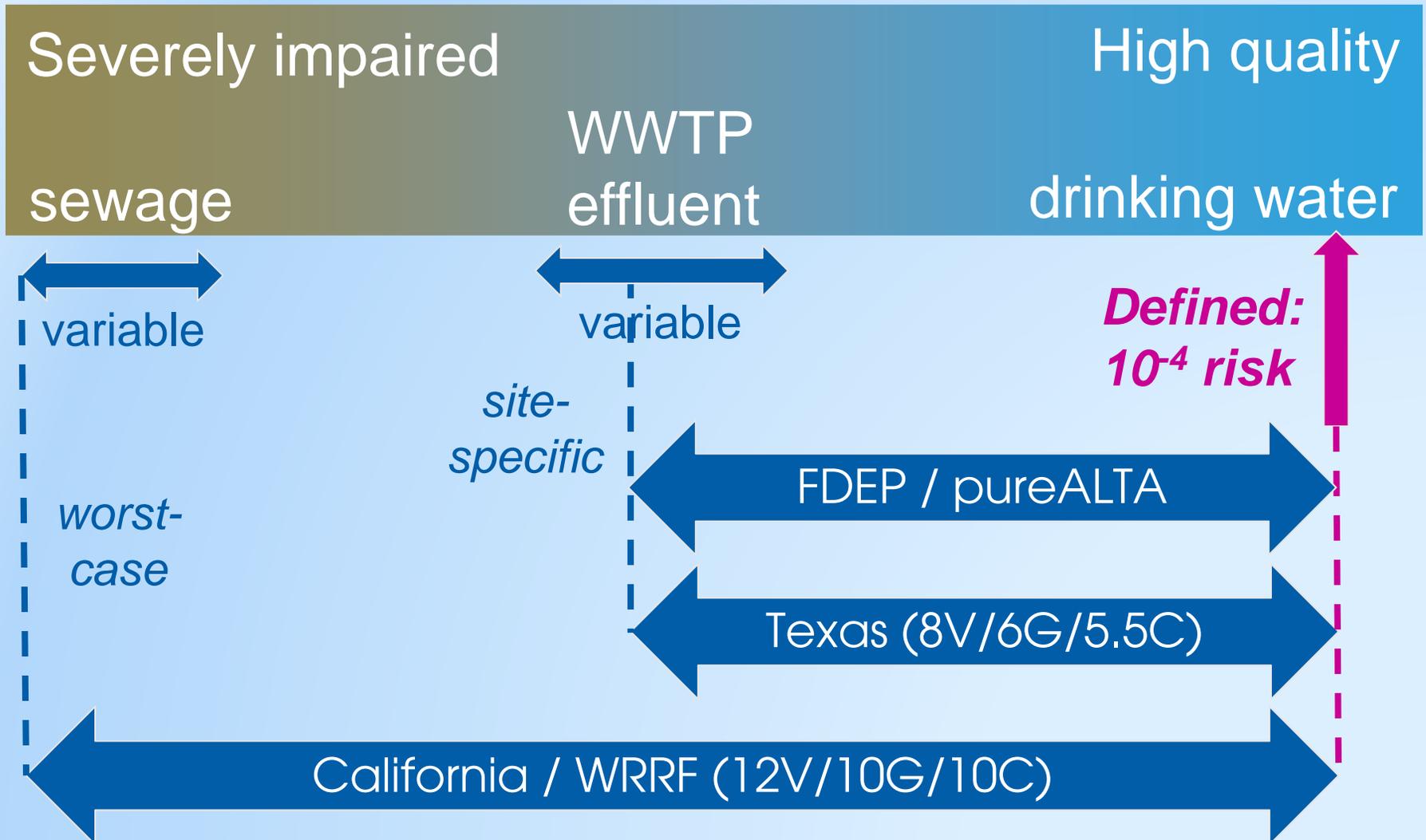
Demonstrate energy-efficient technologies that will create a safe and sustainable water supply extending the City's use of existing sources.





Potable Reuse Project Approach

Pathogens Pose an Acute Risk to Public Health and Safety – Gap Analysis



FDEP 62-610 Part V - Ground Water Recharge and Indirect Potable Reuse

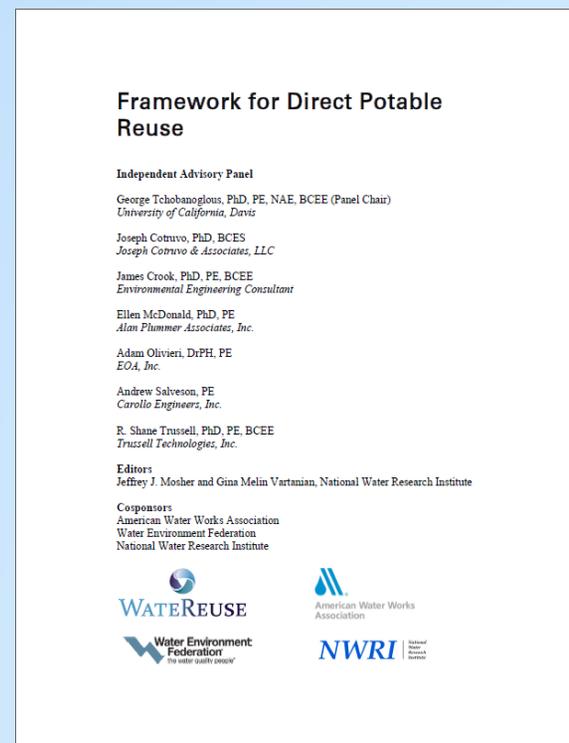
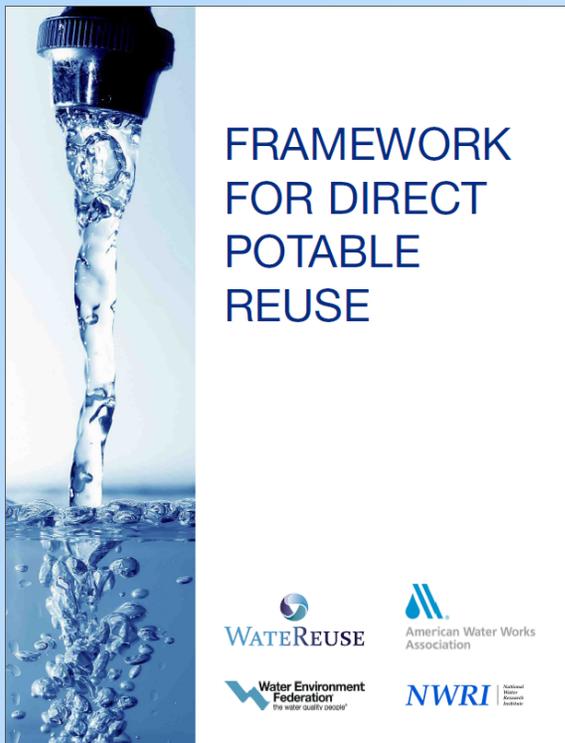
- TOC \leq 3 mg/L
- TN \leq 10 mg/L
- TOX \leq 0.2 mg/L
- TSS \leq 5 mg/L
- Drinking Water MCL/SMCLs
- Pathogens
- 12 Month Pilot Study



Amended 1-9-96, 8-8-99

Advanced treatment system meets ALL regulated and unregulated criteria for potable water reuse

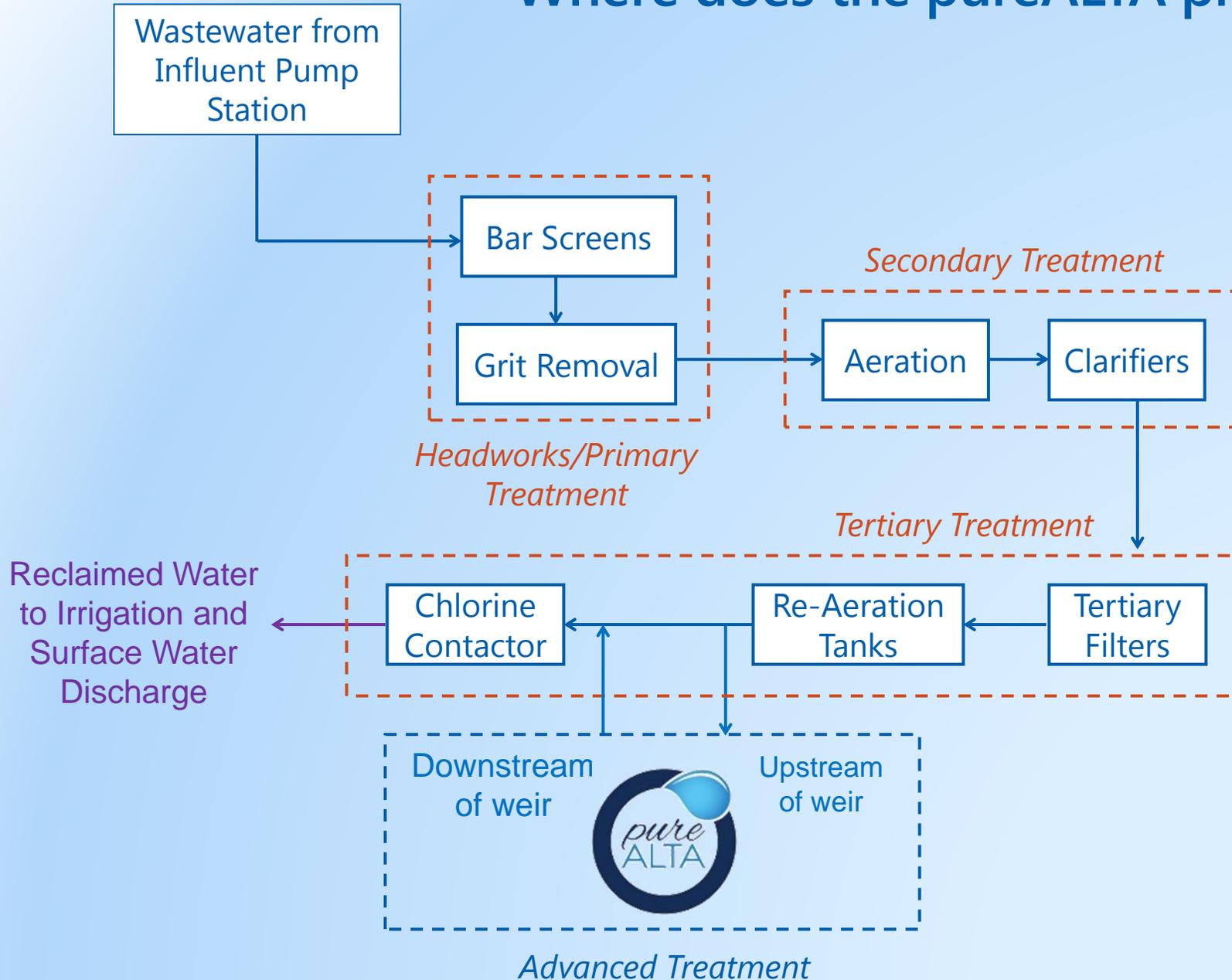
- *Pathogens*
- *Regulated Pollutants*
- *Emerging Concerns*





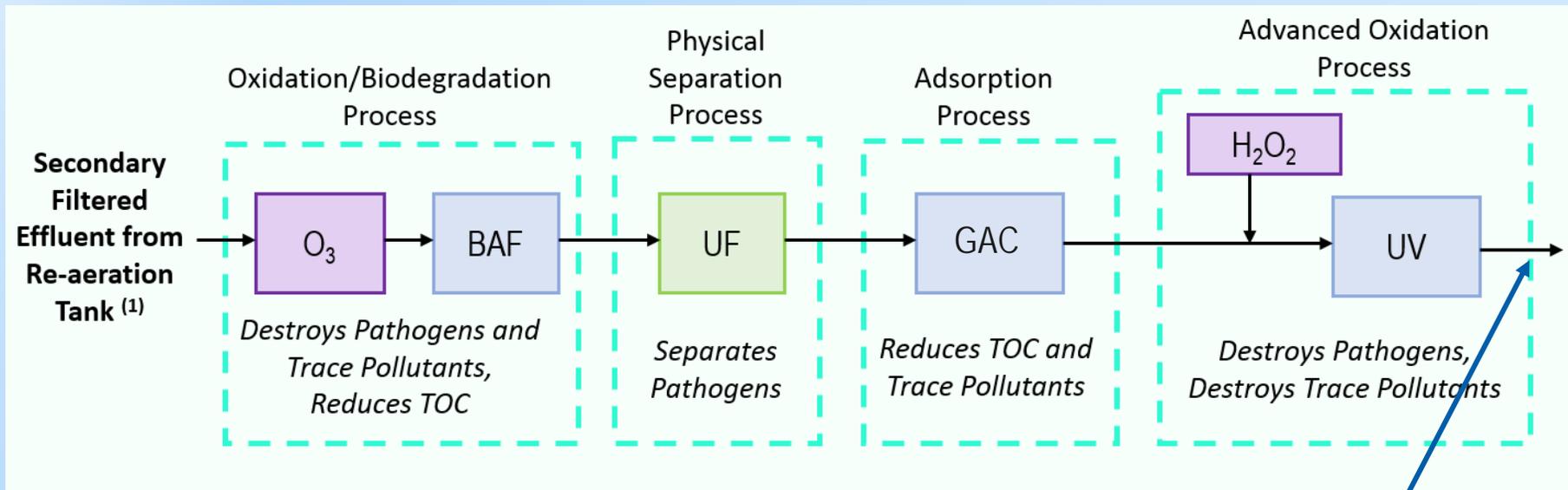
Pilot Overview

Where does the pureALTA pilot fit?



Advanced treatment facilities can meet water quality goals *without RO*

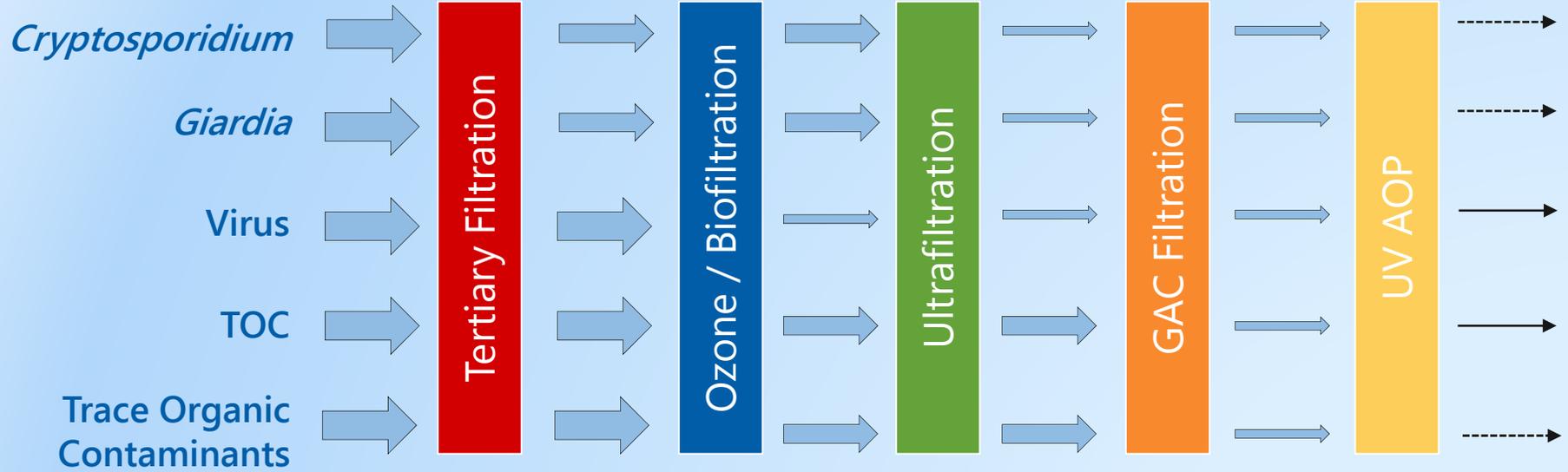
Leveraging decades of Ozone+Biofiltration experience from the drinking water industry



**Full-Scale System Would Add
Engineered Storage**

(1) Low TDS in source water - meets secondary MCL of 500 mg/L

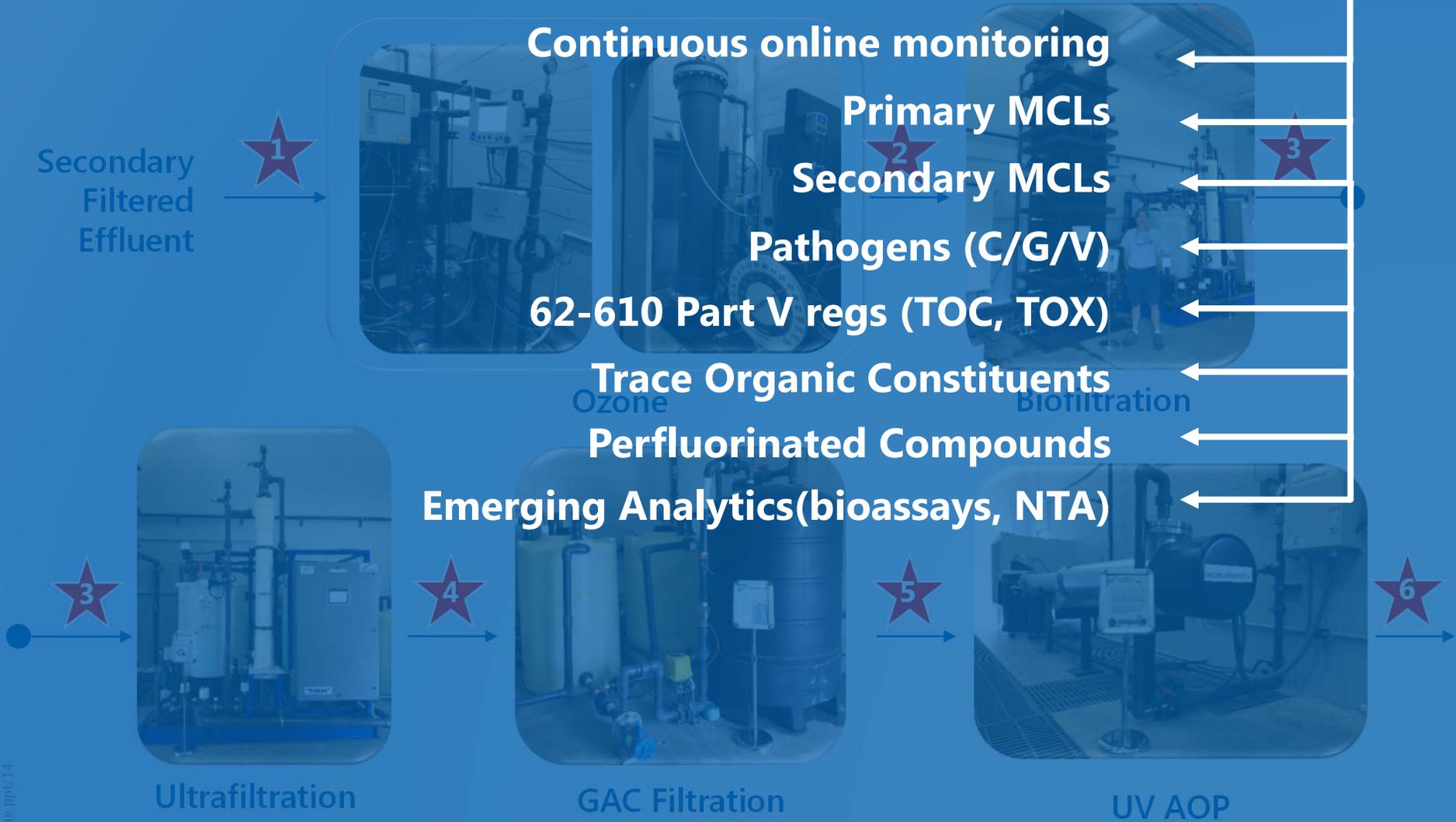
Multiple barriers achieve reliability through a redundant, robust and resilient design





Pilot (City owned)

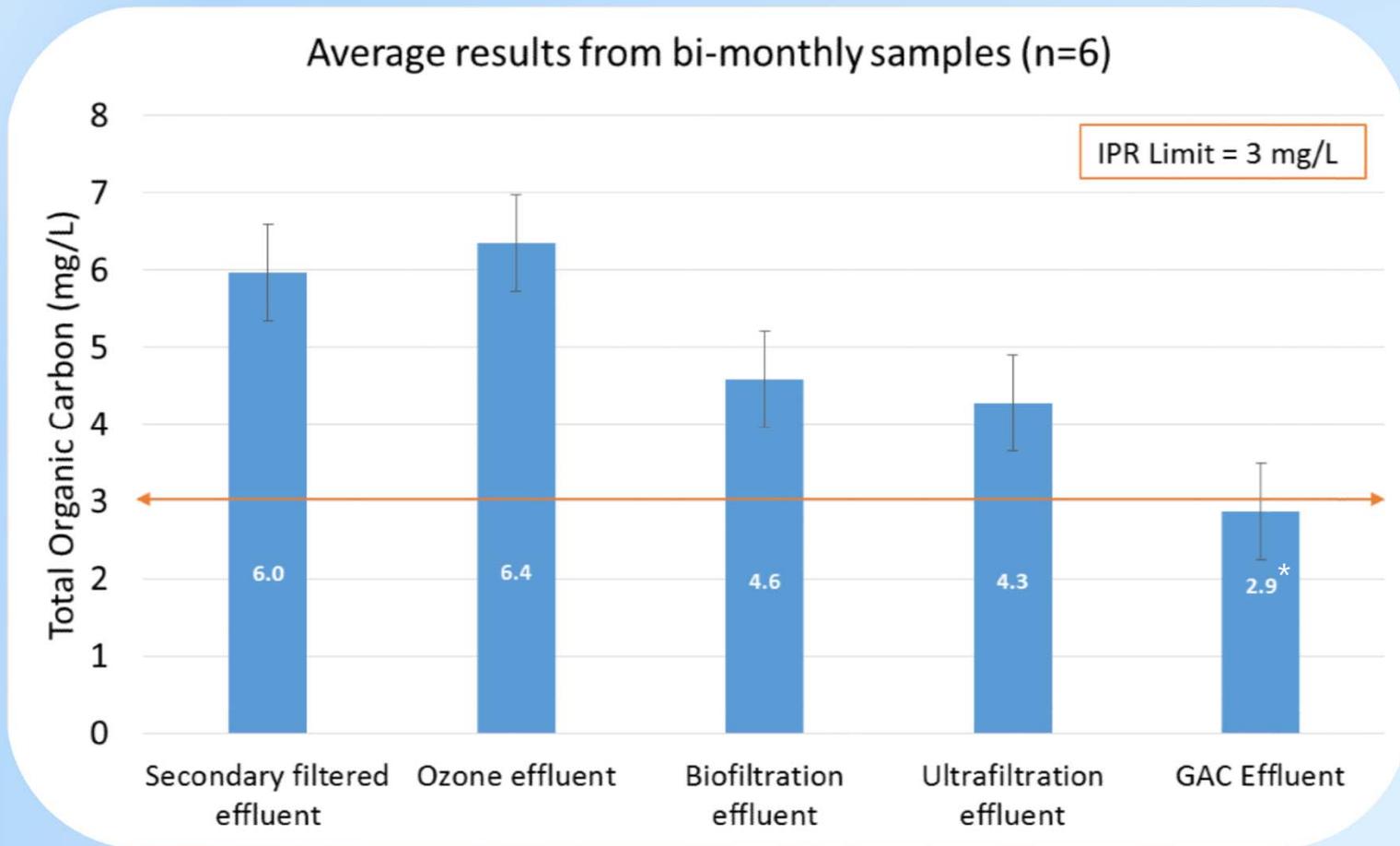
Sample/Monitoring Point





Water Quality Results

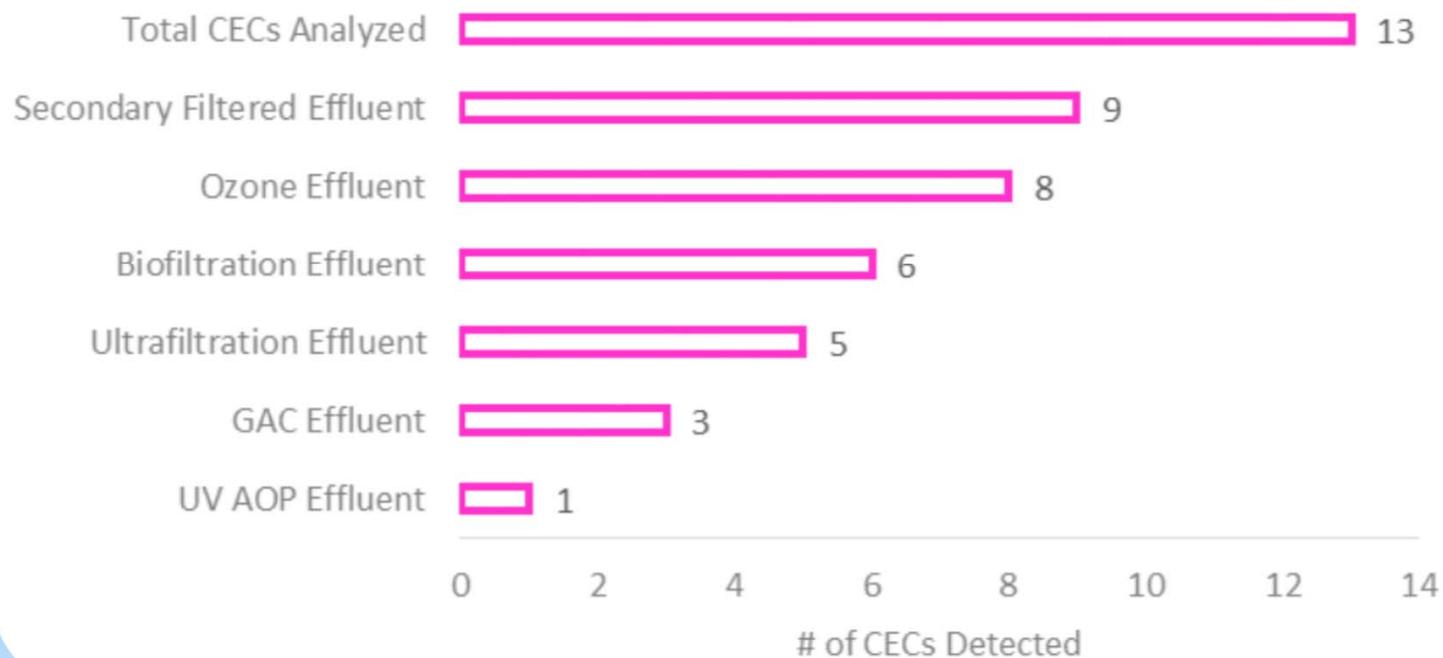
TOC in Finished Water Meets Florida IPR Regulations



* Reported TOC value includes testing of GAC unit beyond 3 mg/L (IPR limit) in the effluent to record time to bed exhaustion as an operational parameter.

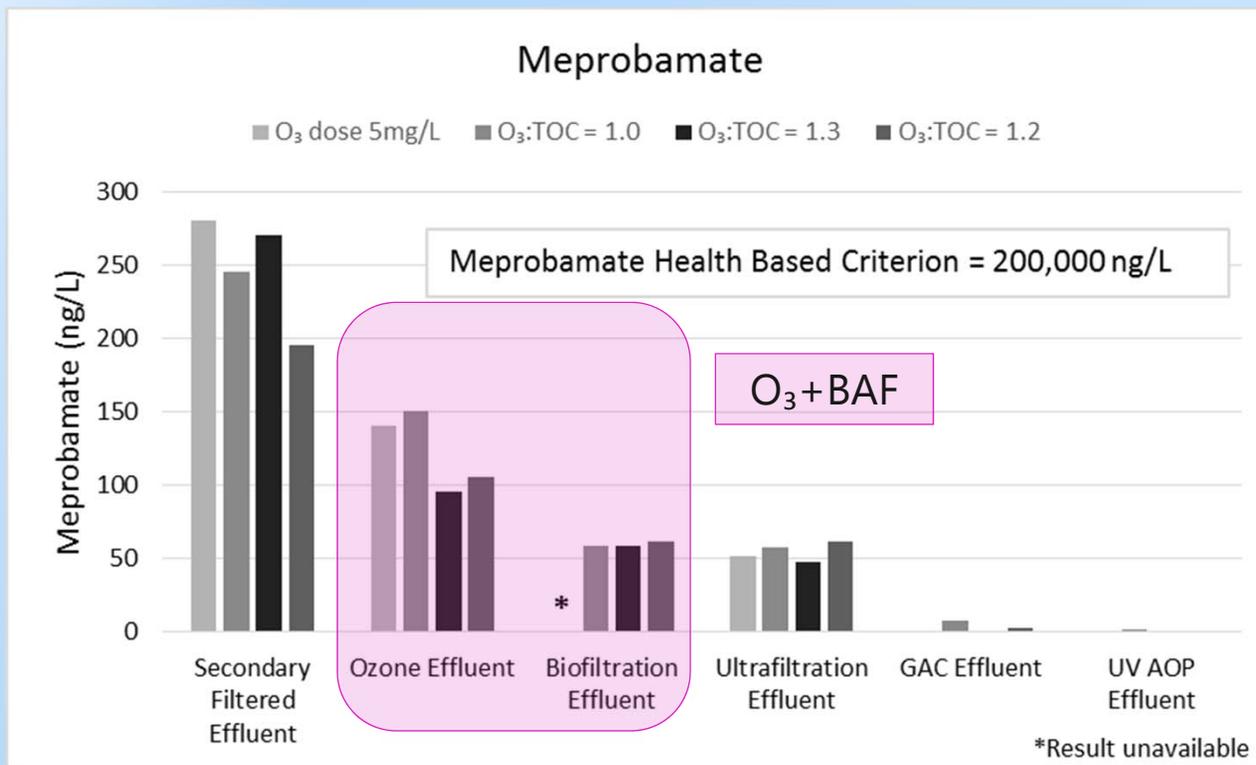
CECs are Removed in pureALTA's Treatment Barriers

CECs Detected in pureALTA



Representative sample from sampling event in April 2017

CECs, PPCPs, PFCs are Removed Through the Pilot to Provide a Polished Product Water

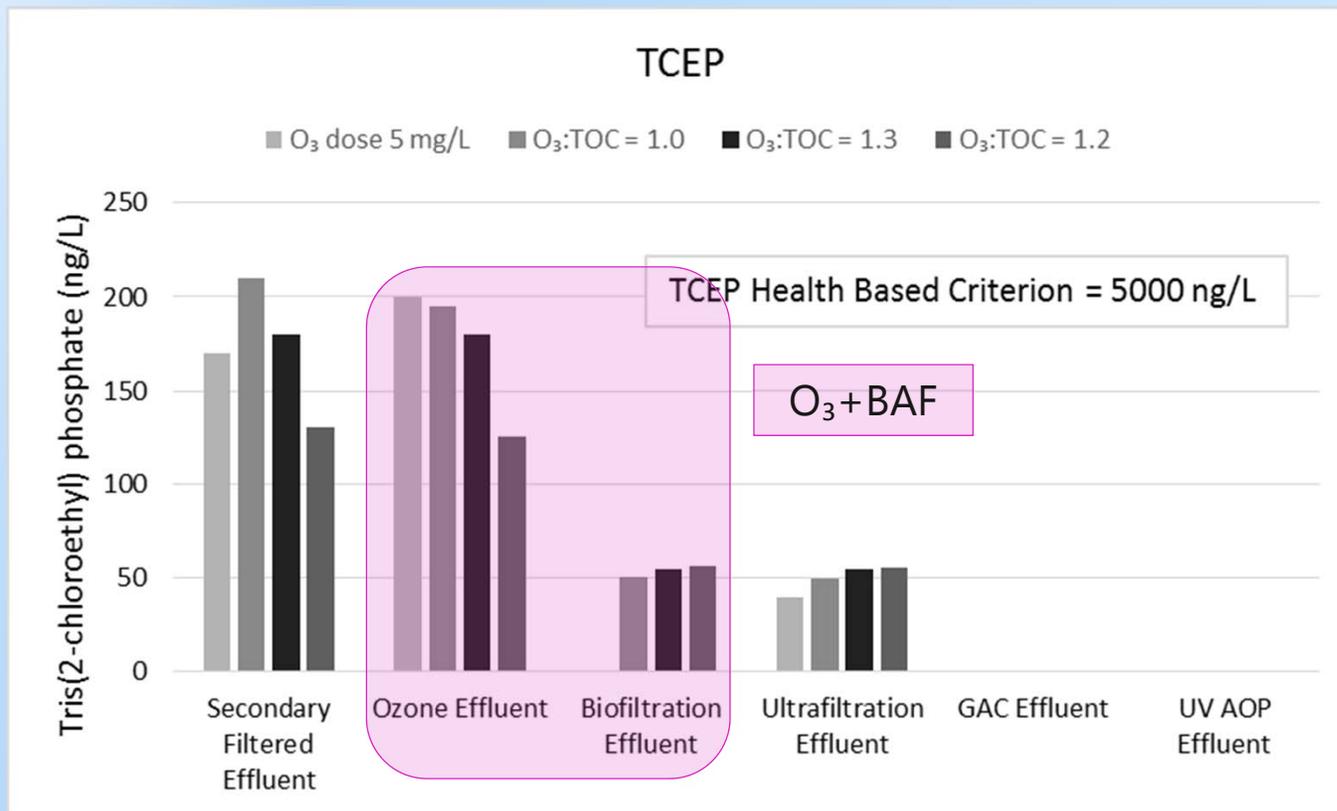


- Data shows results from 6 sampling events in 2017



Anxiolytic: Treats tension, anxiety, nervousness

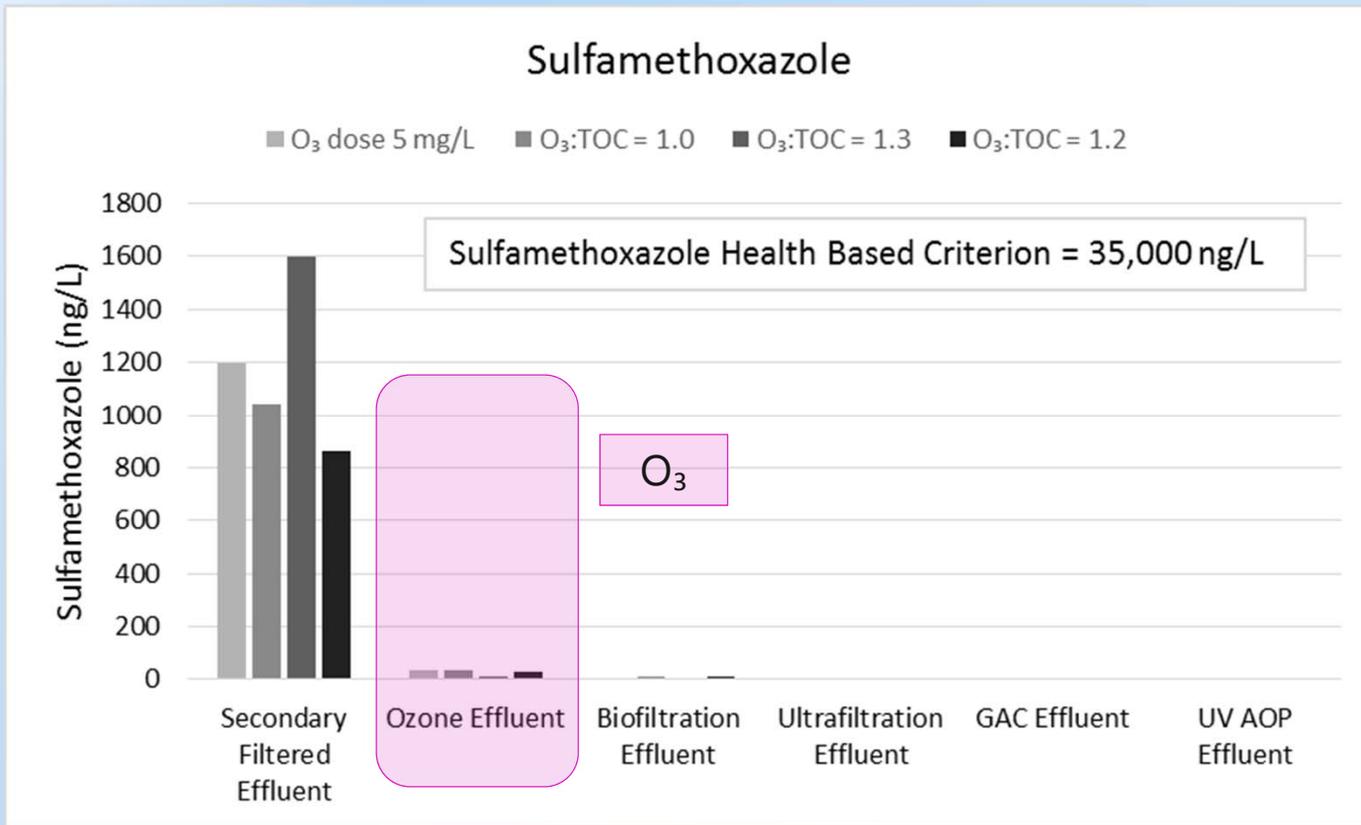
CECs, PPCPs, PFCs are removed through the pilot to provide a polished product water



- Data shows results from 6 sampling events



CECs, PPCPs, PFCs are removed through the pilot to provide a polished product water



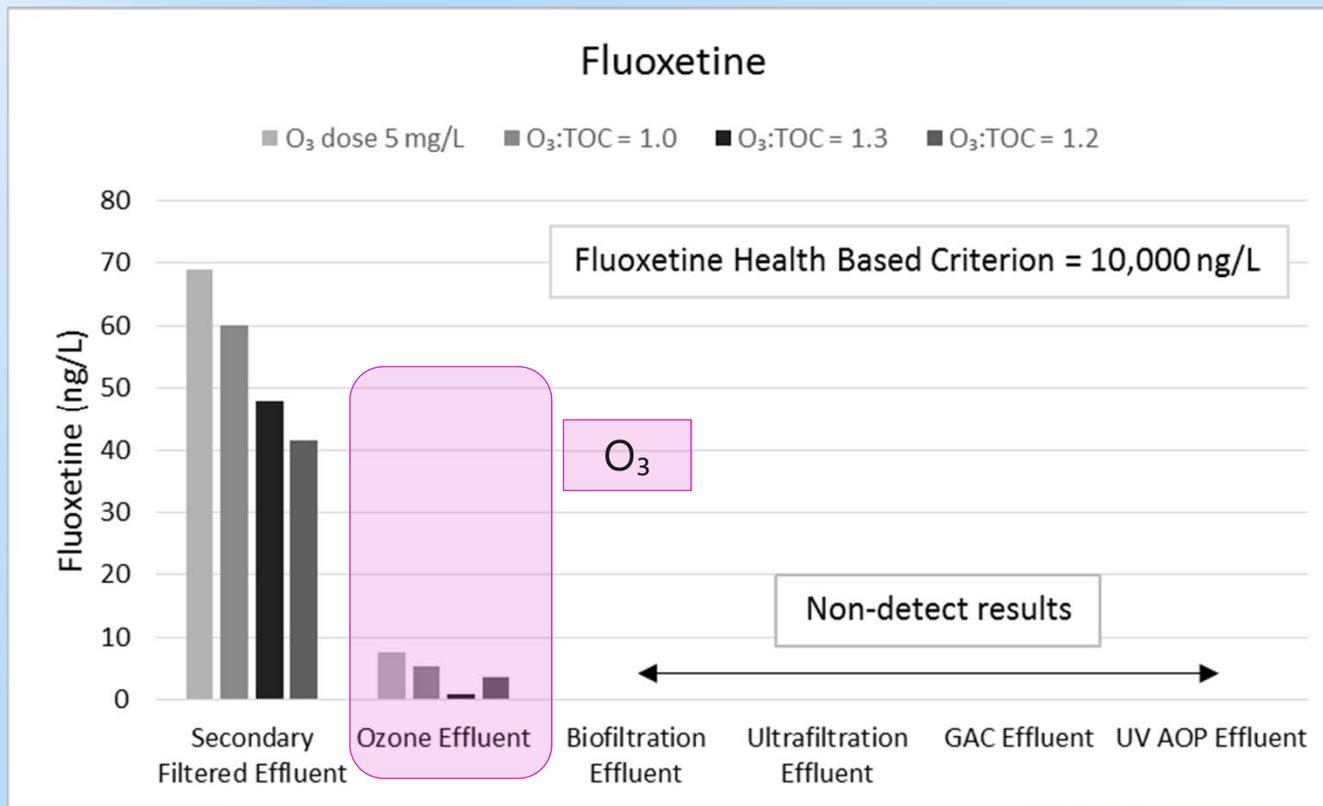
- Data shows results from 6 sampling events in 2017



Antibiotic:
Treats/prevents
infections

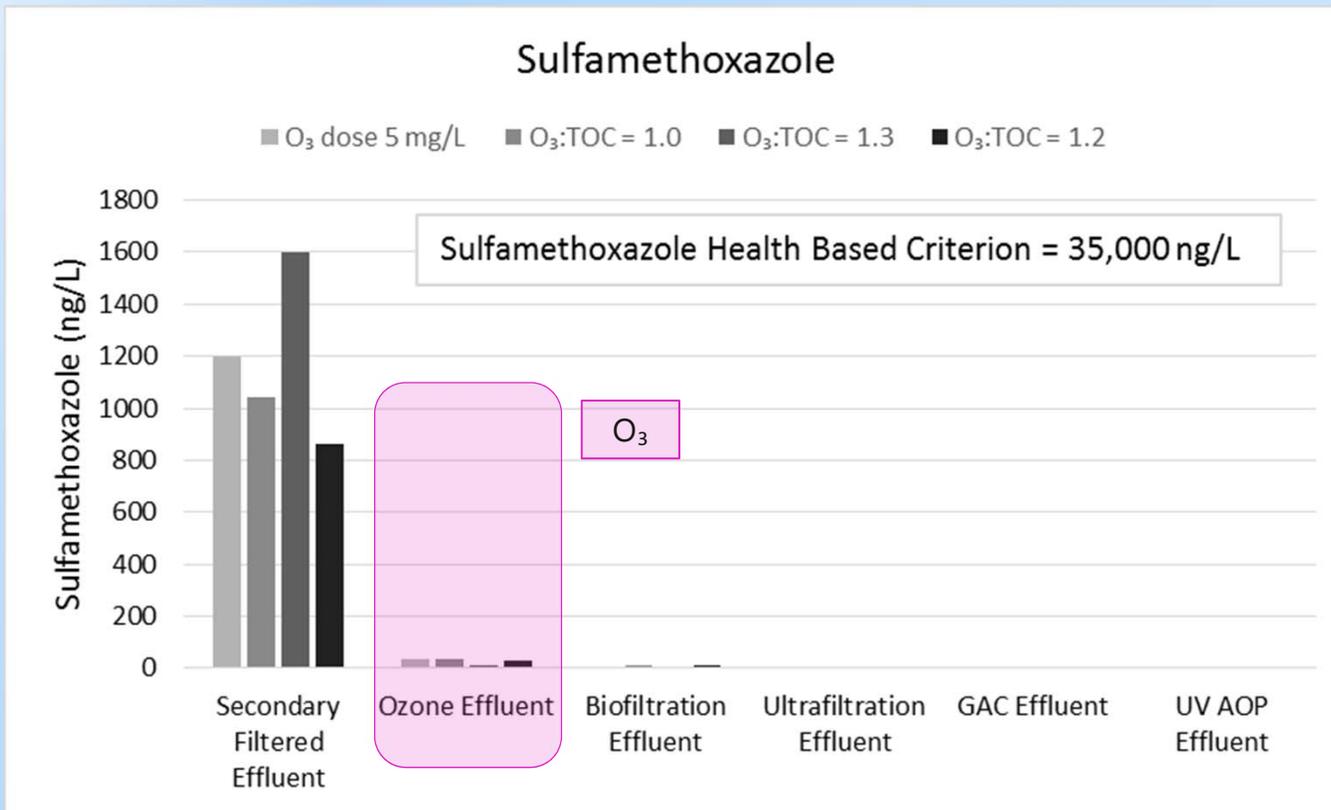
CECs, PPCPs, PFCs are removed through the pilot to provide a polished product water

Data shows results from 6 sampling events in 2017



Treats depression, OCD, bulimia nervosa, and panic disorder

CECs, PPCPs, PFCs are Removed Through the Pilot to Provide a Polished Product Water

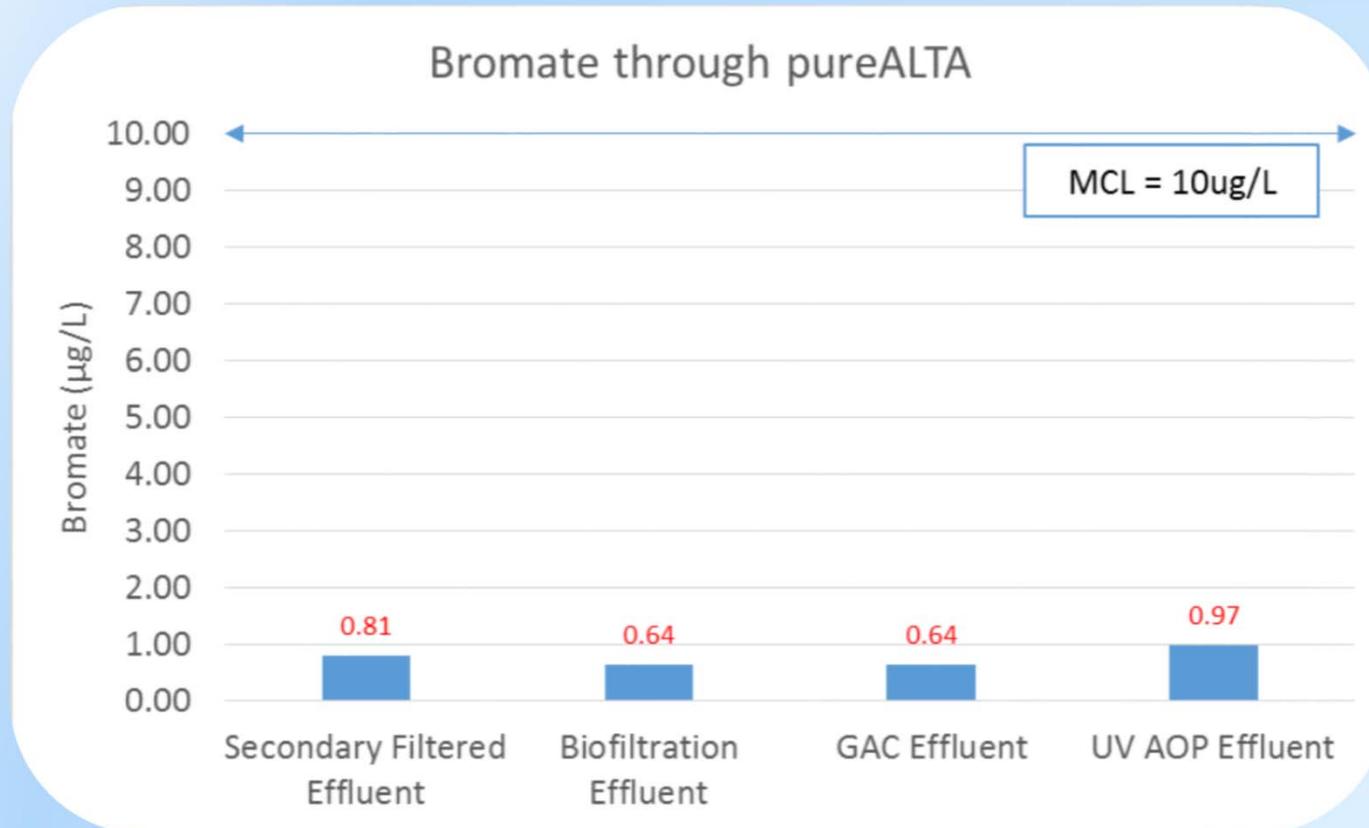


Data shows results from 6 sampling events in 2017



Antibiotic:
Treats/prevents
infections

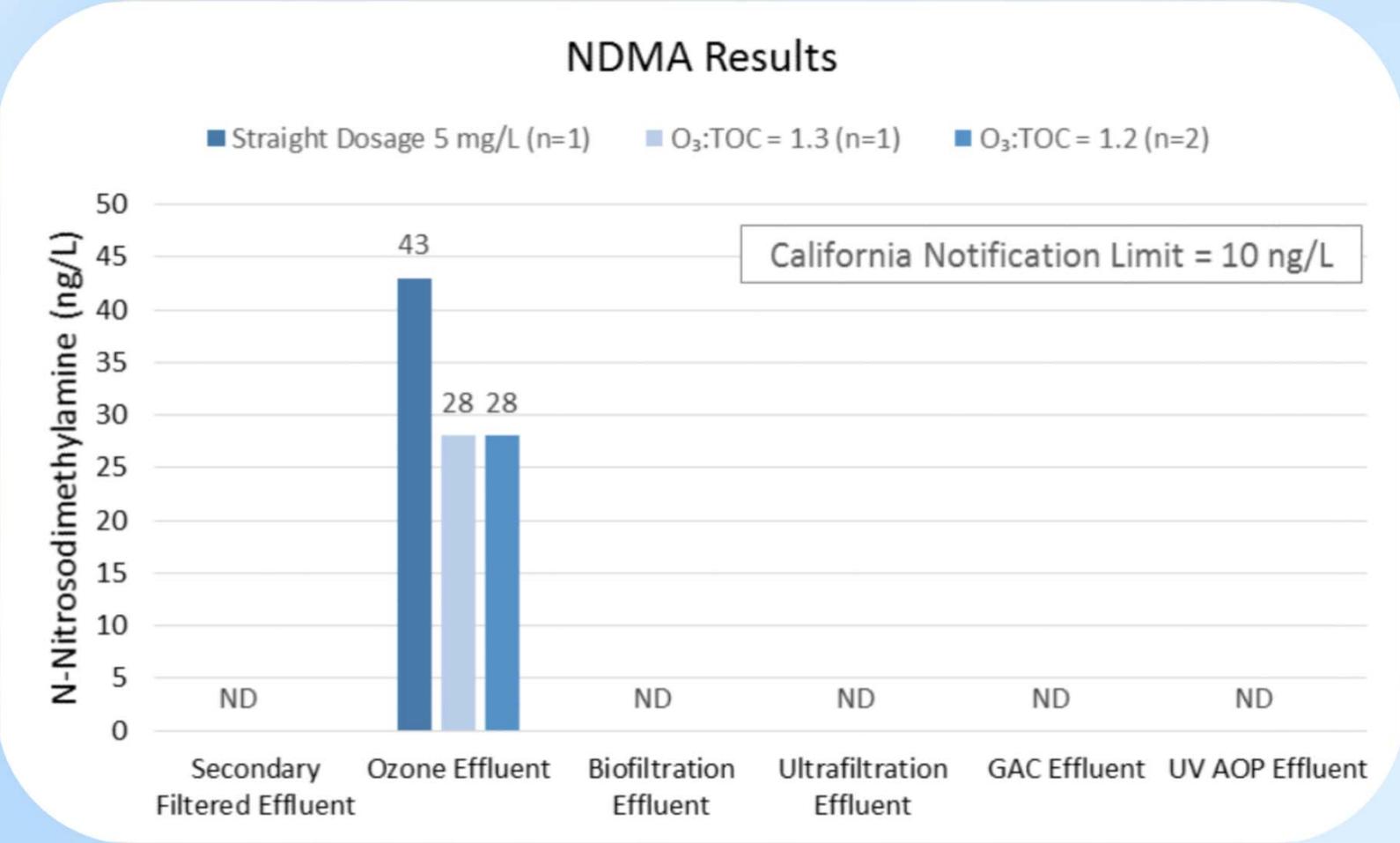
Bromate formation was not observed at higher O₃ dose



- Data reported is at MDL
- O₃:TOC ratio of 1.2

Bromide in source water is ~70 ug/L

NDMA formed from ozonation is successfully removed in biofiltration

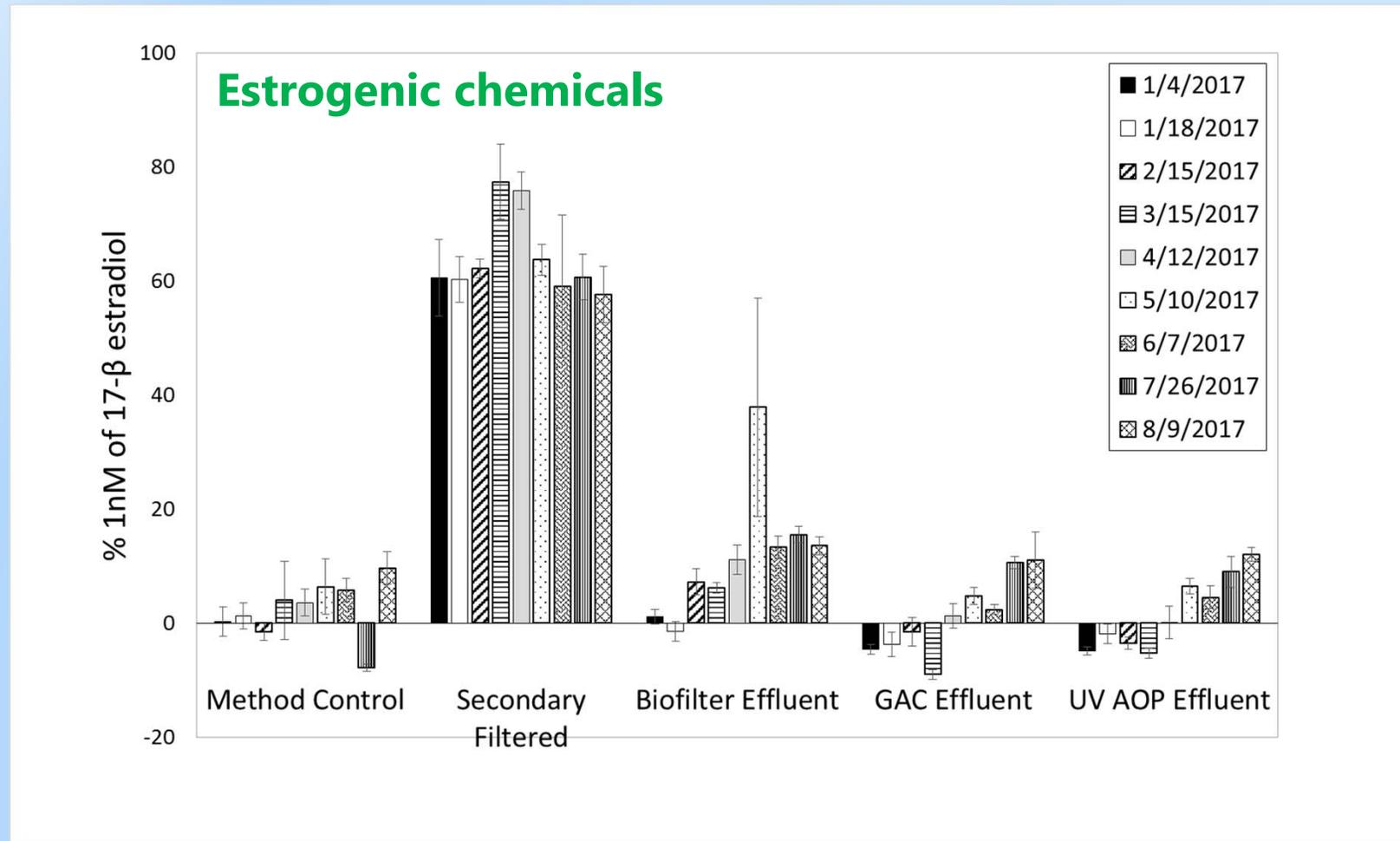


Bioassays indicate bioactivity of hormones/drugs is eliminated through the pilot processes

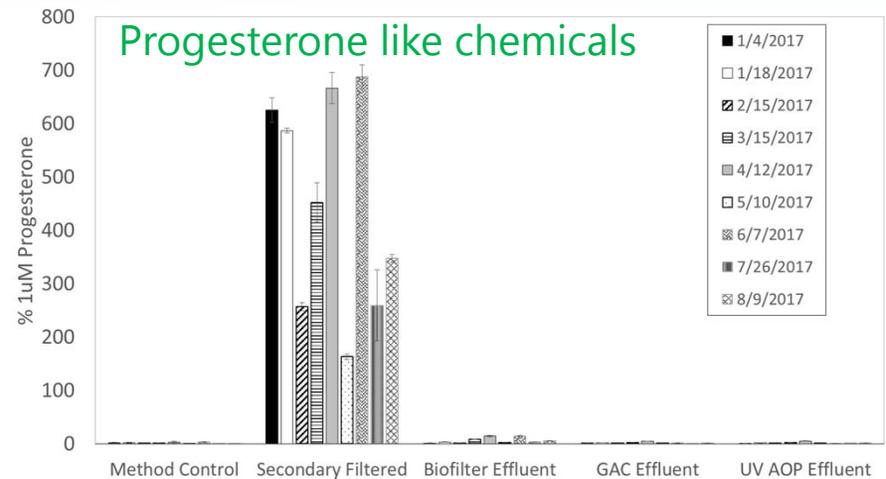
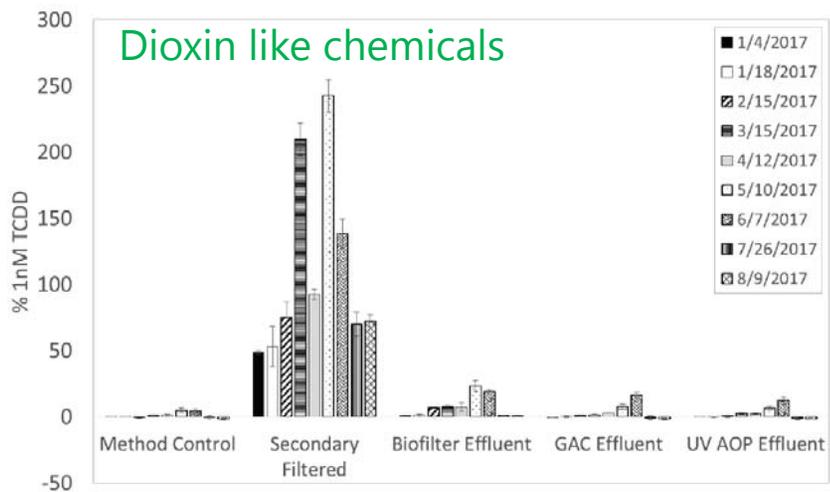
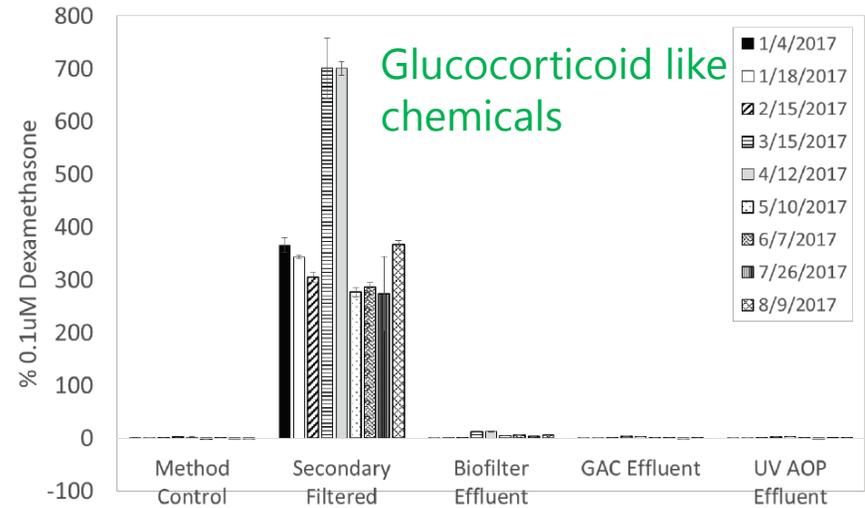
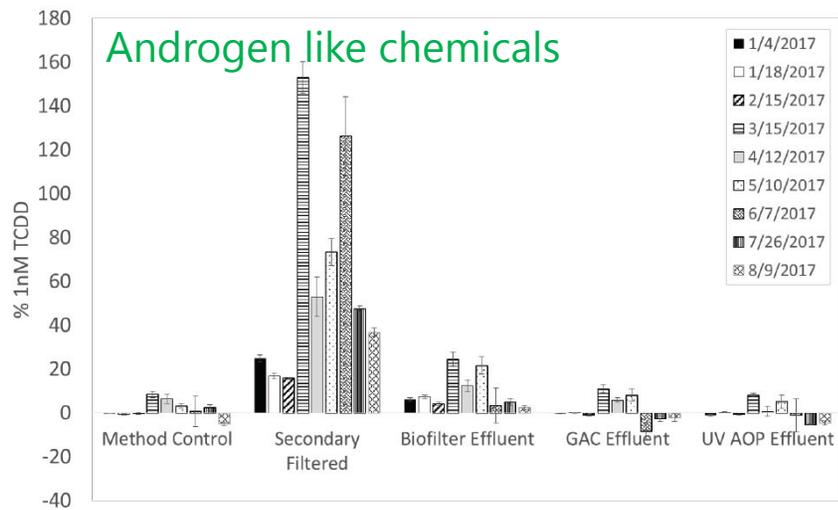
- ✓ • Estrogen like chemicals
- ✓ • Glucocorticoid/
progesterone like chemicals
- ✓ • Androgen like chemicals
- ✓ • Dioxin like chemicals
- ✓ • Genotoxicity
- ✓ • Cytotoxicity

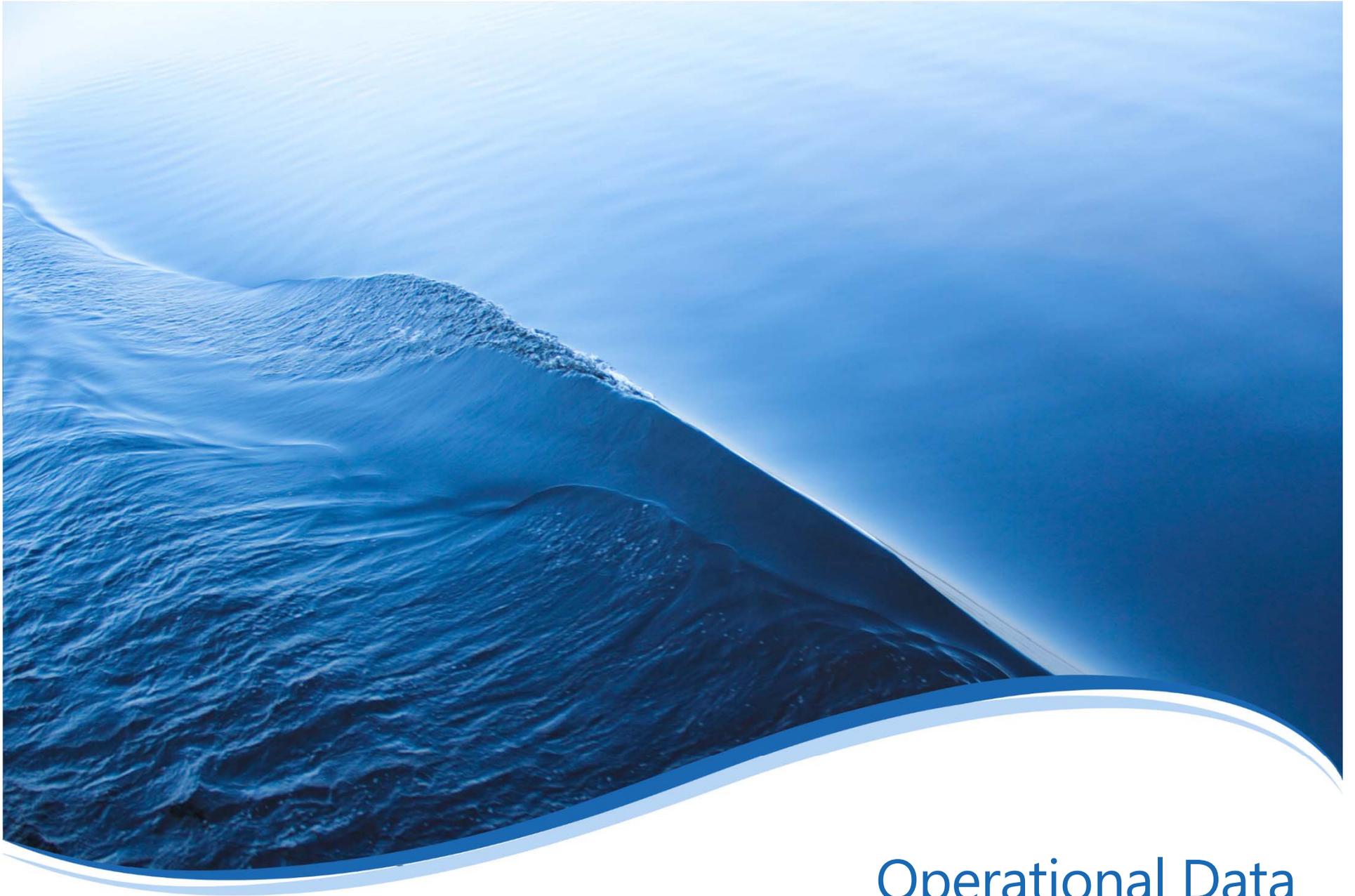


Bioassays indicate bioactivity of hormones/drugs is eliminated through the pilot processes



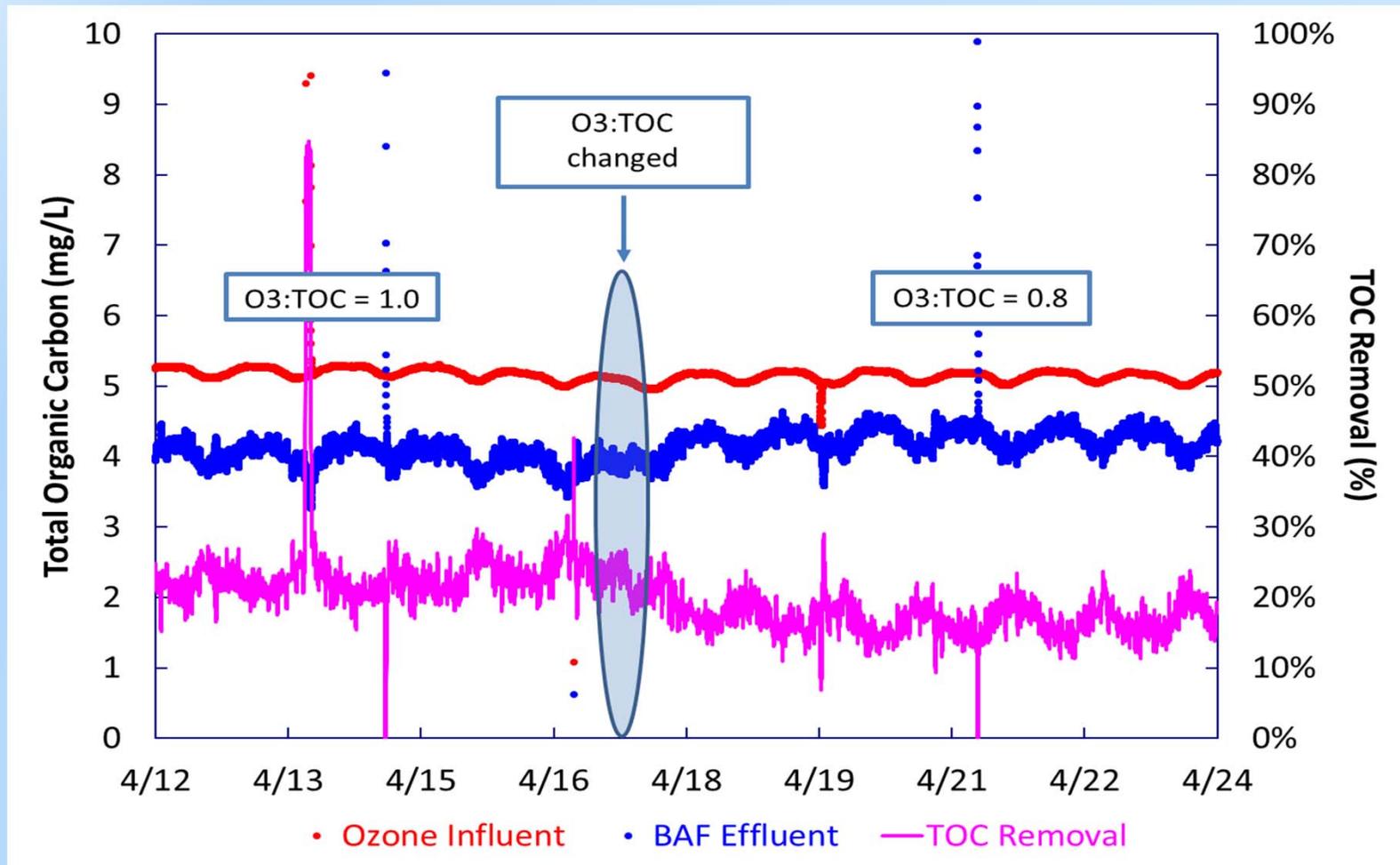
Bioassays indicate bioactivity of hormones/drugs is eliminated through the pilot processes



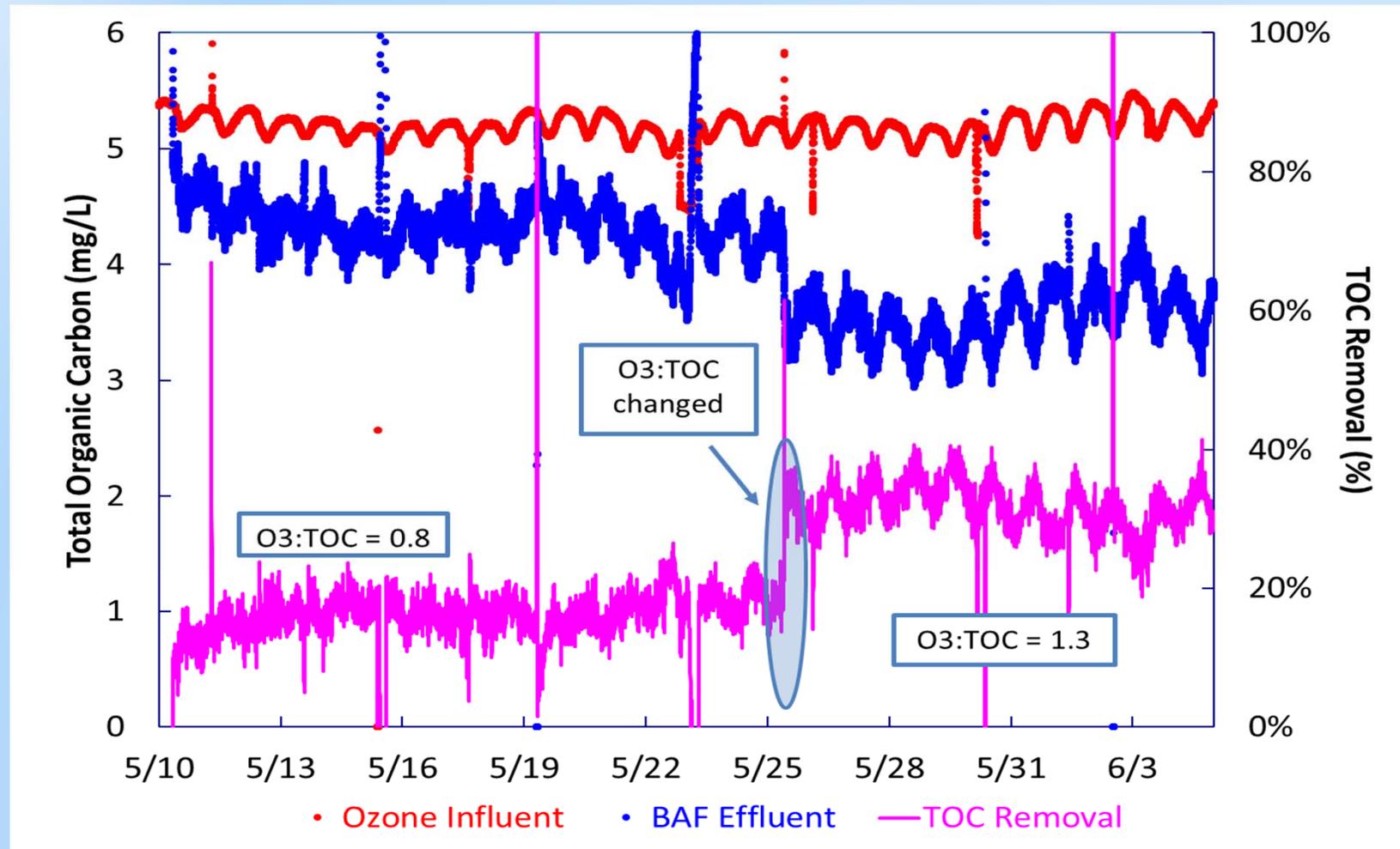


Operational Data

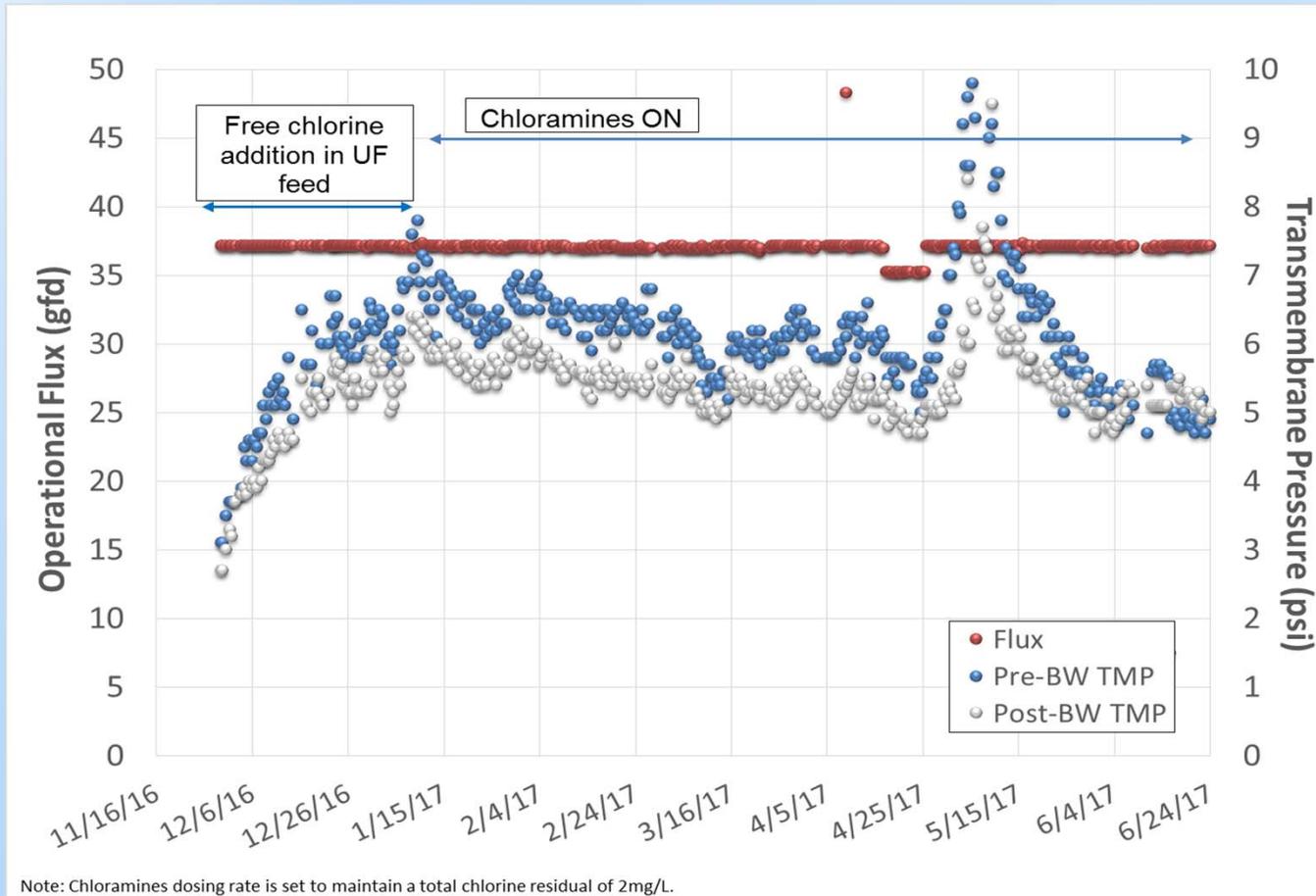
TOC removal can be optimized by controlling the $O_3:(TOC+Nitrite)$ dose



TOC removal can be optimized by controlling the $O_3:(TOC+Nitrite)$ dose



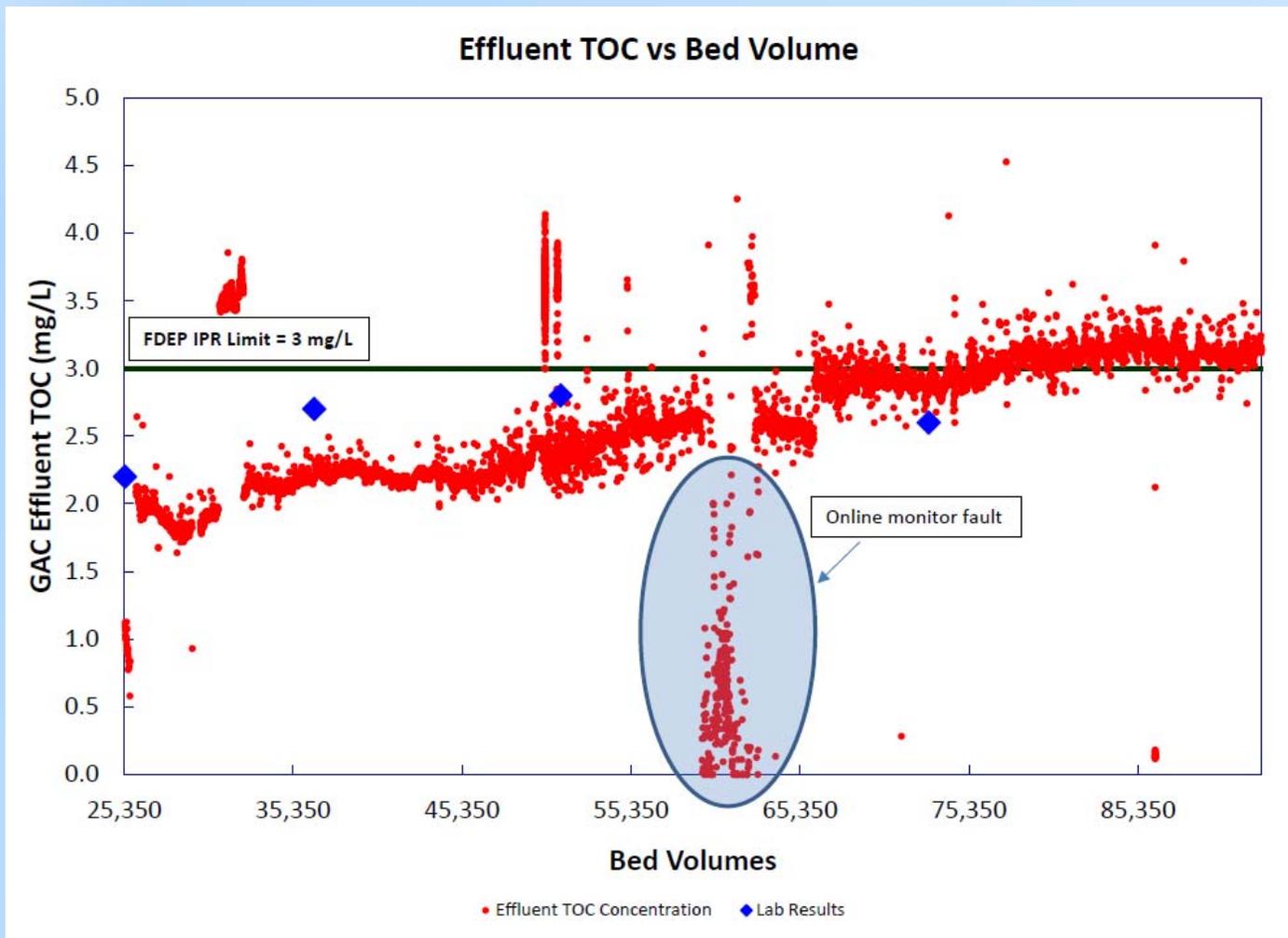
Transmembrane pressure in ultrafiltration has been stable for O₃/BAF treated water over ~8 months of operation



Turbidity (NTU)
Influent = 0.35
Effluent = 0.01



TOC breaks through GAC as adsorption sites get exhausted



Challenge Tests on O₃, UF, UV Systems Confirm Log Removal of Pathogens

Ozone

5.5 to 6-log removal of seeded MS2

Correlates to 4.4-log removal of virus in ozonation

Ultrafiltration

2.46-log removal of seeded MS2

4.6-log removal of protozoa (based on daily PDT)

UV

5.5-7.5 log removal of seeded MS2. Correlates to 300 mJ/cm² based on CB tests

3.4 to 4.1-log removal of more resistant *A. brasiliensis*. Correlates to >800 mJ/cm² based on CB tests

POTABLE REUSE DEMONSTRATION



WATERREUSE
INNOVATIVE PROJECT
OF THE YEAR

Conclusion and Next Steps



FDEP 62-610 Part V - Ground Water Recharge and Indirect Potable Reuse

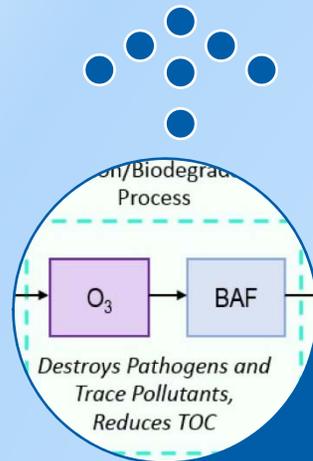
- TOC \leq 3 mg/L
- TN \leq 10 mg/L
- TOX \leq 0.2 mg/L
- TSS \leq 5 mg/L
- Drinking Water MCL/SMCLs
- Pathogens (11.2V/4.2G/3.9C)
- 12 Month Pilot Study



pureALTA Water Quality Results over 12 months

- ✓• TOC = 2.5 mg/L
- ✓• TN = 7 mg/L
- ✓• TOX = 0.06 mg/L
- ✓• TSS \leq 5 mg/L
- ✓• Drinking Water MCL/SMCLs
- ✓• Pathogens (12.V7/10.6G/10.6C)
- ✓• 12 Month Pilot Study Complete

Project success for Altamonte Springs can be measured using data, operations, and communication efforts



Technical justification for an O₃/BAF based potable reuse treatment process for use in developing future regulations



Creation of a public education program for potable reuse projects in Central Florida



Altamonte Springs is Finding Lower Cost Methods to Produce High Quality New Water

O ₃ /BAF Based Treatment	High level pathogen removal	High level chemical removal	No brine, no waste	\$2.4/Kgal for 0.5 mgd facility
RO Based Treatment	High level pathogen removal	High level chemical removal	Creates RO brine, requires disposal	\$5.1/Kgal for 0.5 mgd facility

Thanks to..



and Partners and Analytical Labs:

- City of Altamonte Springs
- Trussell Technologies
- Southern Nevada Water Authority
- BioVir Laboratories
- University of California, Davis
- Pace Analytical



pureALTA video on Vimeo: <https://vimeo.com/231760983>
pureALTA press release: www.Altamonte.org/pureALTA



Jo Ann Jackson
jajackson@Altamonte.org

Pranjali Kumar
pkumar@carollo.com

Questions?