

Area Wide Optimization Program



Individual Program Background Information 2019

Name of Agency: **Montana DEQ**

Official Recognition of AWOP

MTDEQ finished the last of the 3 part training in May 2017. Since then we have included an Introduction to Optimization class at our 'water schools'. We are still in the process of trying to understand how AWOP can be implemented in Montana.

Official Adoption of AWOP Goals

We have not had any official adoption of AWOP goals. We are currently working on how to rank our systems and maintain a priority list of systems.

National Optimization Goals adopted by your PWSS Program – Check all that apply:
(refer to Attachment I for descriptions of the NOLT optimization goals.)

None

Water Treatment Plants

Microbial (Turbidity): Raw Water____ Individual Settled____ CFE____ IFE____
Post BW w/FTW____ Post BW wo/FTW____ Disinfection (CT) ____

DBPs (TTHM/HAA5): Plant Effluent____ Enhanced Coagulation____ Disinfection____

Chloramine Application: Ammonia Control____ Dosing (Chlorine & Ammonia) ____

Distribution Systems

Individual Site DBPs ____ Long Term System DBPs____ Tank Operations____
Secondary Disinfection, Free Chlorine ____
Secondary Disinfection, Chloramines (monochloramine, Ammonia & Nitrite) ____

Modifications to the national goals or other optimization goals utilized by your Agency:

We are still working on figuring out how to best move forward with AWOP in Montana.

Description of *Current* AWOP Team Members and Responsibilities

Please provide the name, position/title, description of AWOP duties and approximate FTE that each team member spends on AWOP. Also indicate who serves as the AWOP team lead/point of contact.

Example: Nevel O. Meter, District Engineer, PBT trainer, ~ 0.3 FTE

(Note that if you submitted this information in 2017, that information is being provided and if there are no changes, simply indicate “no change” in this section.)

1. AWOP Team Leader: Lisa Kaufman, SWTR Manager, AWOP Core Team, 0.1 FTE
2. Gerard Gernand – SW Field Inspector, AWOP Core Team, 0.1 FTE
3. Denver Fraser – PWS & SRF Review Engineer, AWOP Core Team, 0.1 FTE
4. Brian Hogenson – DBP Rule Manager, AWOP Core Team, 0.1 FTE
5. Tammy Jacobson – Field Inspector, AWOP Core Team, 0.1 FTE
6. Scott Patterson – Nitrate/Nitrite & CCR Rule Manager, 0
7. Rob Ashton – SRF PWS Review Engineer, 0
8. John McDunn – SRF PWS Review Engineer, 0
9. Mike Kropp – Field Inspector, 0
10. Karl Carlson – Field Inspector, 0
11. Emily Gillespie – PWS Review Engineer, 0
12. Kirk Yoder – Field Inspector, 0

Description of *Former* AWOP Team Members:

Please provide the name of former AWOP team members, and their reason for leaving the team. This information is for historical purposes and also to support networking as AWOP continues to expand.

(Note that if you submitted this information in 2017, that information is being provided and if there are no changes, simply indicate “no change” in this section.)

1. Marc Golz - retired
2. Mike Kropp – moved from core team to member due to lack of time
3. Karl Carlson – moved from core team to member due to lack of time
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

Inventory of State-Wide Treatment Facilities¹	Number
Rapid rate filtration treatment plants ^{2,3}	32
Utilizing static settling without tubes or plates	6
Utilizing static settling with tubes or plates	9
Utilizing sludge blanket clarification (upflow, pulsator)	1
Utilizing contact adsorption clarification	5
Utilizing sludge recirculation (including ballasted clarification)	1
Utilizing DAF, or other alternative clarification process	0
Utilizing direct/in-line filtration	5
Utilizing packaged filtration (package plants)	19
Slow sand filter plants	1
Diatomaceous earth filter plants	0
Membrane treatment plants	9
Bag or cartridge filtration plants	17
Primary disinfectant	
Free chlorine	50
Chloramines	0
Ozone	0
UV	9
Secondary disinfectant	
Free chlorine	58
Chloramines	1
¹ Limited to surface water treatment plants (includes surface, GUDI, blended sources). ² All surface water treatment plants, except cartridge, membrane and slow sand. ³ When a plant utilizes multiple treatment processes or configurations identified below, please include them all in this inventory, e.g., a package plant that utilizes a CAC will be included as a rapid rate plant using CAC and packaged filtration.	

AWOP Vision:

Please describe the vision for your AWOP

We are still working on implementation of AWOP in Montana.

Status Component Implementation:

Please describe status component activities that are implemented in your agency, e.g., (are water systems ranked according to public health risk and how is this information used; how is water system data integrity ensured):

Targeted Performance Improvement (TPI) Implementation:

Please list all activities that are implemented as TPI activities in your state, e.g., CPEs, PBT, Enhanced Sanitary Surveys, technical assistance, other): _____

AWOP Maintenance Component Implementation:

Integrate

Please check the following areas where AWOP has been integrated into the PWSS Program:

Plan Reviews_____ Permitting_____ Capacity Development_____ Operator Training_____

Technical Assistance_____ DWSRF Prioritization_____ Enforcement_____ Sanitary

Surveys_____ Other(identify)_____

Enhance

Please describe any AWOP enhancements that have been implemented in your program. One example could include modifying status component criteria

Sustain

Please describe any activities that you implement to sustain your agency's AWOP. Some examples could include efforts to promote and incentivize AWOP (e.g., publish regular newsletter, awards program, AWOP participation = higher ranking for grant/loan funding, etc.).

Lessons Learned:

Please list "lessons learned" that you feel would be helpful to other programs, e.g., how to build and maintain internal support, how to integrate AWOP into your PWSS program, etc). If you are new to AWOP, please list a question or concern you'd like to know more about.
