

Water System Partnerships Handbook

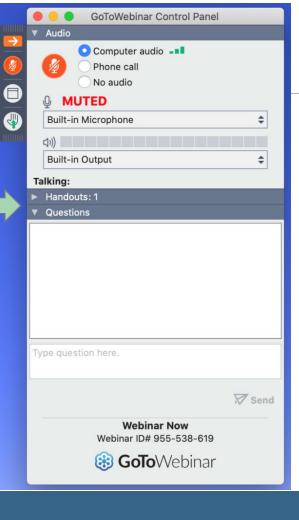
U.S. EPA Office of Ground Water and Drinking Water

Rollout Webinar
November 18, 2020

Today we will:

- Review what is meant by water system partnerships
- Introduce the Water System Partnerships Handbook
- Detail the six steps it takes to get from identifying systems in need to engaging water systems in partnership discussions
- Point out pop-ups and resource links and explain fillable worksheets within the handbook





Webinar Housekeeping

Please familiarize yourself with the webinar panel on your screen

- Handouts
- Questions

Question and Answer session at the end



Today's Presenters

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Office of Ground Water and Drinking Water

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Office of Ground Water and Drinking Water



Water System Challenges

*PWSs need TMF capacity

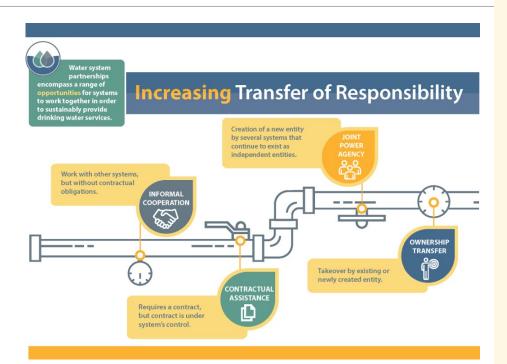
*Small systems face unique challenges to providing safe drinking water





Water System Partnerships

- Informal or formal
- Address shared challenges
- Pair systems with complementary strengths





Benefits of Partnerships

Partnership Benefits

For the system



Economies of scale

Long-term savings

Planning for future

operations



Improved compliance



Potential reduction in number of regulated systems



Resource savings



Improved customer relations



Public health protection

For the state program



Improved water quality

For the customer



Increased reliability of supply

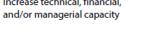


Public health protection



Increase technical, financial,

Improved customer service





Public health protection



Types of Partnerships

There are four general types of partnerships. PWSs can also use several types of partnerships in a layered approached to improve efficiency and provide safe drinking water. For partnership examples, visit the EPA's <u>Interactive Partnerships Case Studies Map</u>.

Informal Cooperation: PWSs coordinate with other PWSs without contractual obligations. Examples and Advantages.

Contractual Assistance: PWSs contract with other PWSs or service providers. The PWSs remain independent, but certain functions are contracted out to increase efficiency. <u>Examples and Advantages</u>.

Joint Power Agency: A group of PWSs create a new management entity designed to serve the PWSs that formed it. <u>Examples and Advantages</u>.

Ownership Transfer: PWSs engage in mergers, mutual transfer of existing entities, or creation of a new entity. <u>Examples and Advantages</u>.



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Examples of informal cooperation partnerships may include PWSs:



- · Sharing equipment,
- · Having mutual aid agreements for emergency response management, or
- · Sharing bulk supply purchases.

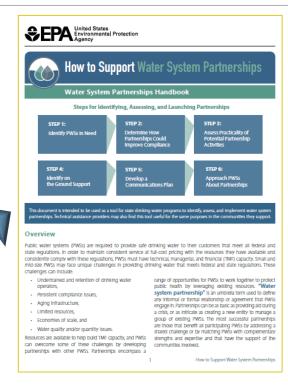
Advantages of informal cooperation include creating the opportunity for small or mediumsize PWSs to increase their economies of scale, increase the pool of technical expertise by improving communication between other PWSs, and allowing PWSs to maintain local control and community identity.

Informal partnerships can be helpful in ensuring access to necessary expertise, equipment and supplies, but they may not address more significant challenges such as treatment or water supply issues.



Helping Systems Partner

- How can you identify systems that could benefit from partnership?
- How do you identify systems with shared challenges and complementary strengths?
- Enter: The Water System
 Partnerships Handbook





Role of State Drinking Water Program



How to Support Water System Partnerships

Water System Partnerships Handbook

Steps for Identifying, Assessing, and Launching Partnerships

STEP 1:

Identify PWSs in Need

STEP 2:

Determine How Partnerships Could Improve Compliance

STEP 3:

Assess Practicality of Potential Partnership Activities

STEP 4:

Identify on the Ground Support

STEP 5:

Develop a Communications Plan

STEP 6:

Approach PWSs
About Partnerships





Step 1: Identify PWSs in Need

Brainstorm PWSs in Need

SIEP 1: IDENTIFY PWSS IN NEED				
The purpose of this step is to begin identifying PWSs with compliance issues by reviewing your state's drinking water compliance and TMF capacity data. As you and your team review your state's data, you should consider the following questions:				
Are there geographic patterns or areas within your state where many PWSs violate drinking water regulations? Yes No				
Where are the compliance problems concentrated (select all that apply)?				
Rural Areas Suburban Areas Urban Areas				
Are there areas of PWSs with similar problems?				
Yes No No				
Do PWSs using ground water or surface water have more violations?				
Ground Water Surface Water Equal				
How many PWSs in the state are publicly-owned? How many are privately/investor-owned?				
Publicly-owned: 30 Privately/Investor-owned: 5				
Are compliance challenges correlated with ownership type?				
Yes No No				
Are the highest number of violations related to monitoring or reporting?				
Monitoring Reporting Equal Other (e.g., MCL)				
From the above questions, record any patterns you notice with your compliance and TMF capacity data. For example, the northwestern part of the state has multiple surface water PWSs in rural areas with monitoring violations. In addition, some of the PWSs in this area also have managerial-related challenges.				
Rural areas have monitoring and reporting violations for groundwater.				

These answers can start to determine what common challenges PWSs are facing. Using the responses above, complete the table below to identify specific PWSs that might benefit from a partnership.

Document PWSs in Need

PWSID or PWS Name	General Location in the State	Type of Water Used	Ownership Type	PWS Size	Do they have health- based violations?	Reason for Violations	Are there similar characteristics to other PWSs?
PWS 000123	Northwest- ern part of the state	Surface Water	Public	Small (population about 3,000)	Yes	Multiple monitoring violations	Yes
PWS 000111	Southwes t	Ground Water Surface Water	Public Private	Small (3,500)	Yes No	Reporting violations	Yes No
PWS 000112	Southwes t	Ground Water Surface Water		Medium (4,000)	Yes No	Monitoring violations	Yes No
PWS 000113	Southeast	Ground Water Surface Water		Small (3,000)	Yes No	Monitoring violations	Yes No
		Ground Water Surface Water			Yes No		Yes No
		Ground Water Surface Water			Yes No		Yes No
		Ground Water Surface Water			Yes No		Yes No
		Ground Water Surface Water			Yes No		Yes No

Clear Form

You now have a list of PWSs that could benefit from a partnership. In the next step, you will review the PWSs identified and brainstorm what types of partnerships may help PWSs overcome the identified challenges.



Step 2: Determine How Partnerships Could Improve Compliance

Factors to Consider for Partnerships

Technical Factors:

- No certified operator
- Water quality or quantity
- Failing infrastructure

Administrative Factors:

Compliance with regulations

Community Factors:

- Maintain local control, identity, and self-sufficiency
- Overwhelmed with responsibilities



Additional Questions to Consider

If the partnership option under consideration requires geographic proximity, make sure the geographic area considered is broad enough to include multiple options for potential partners, but limited enough to make a partnership feasible. Some partnership options, such as contracting management services like payroll and billing, may not necessarily rely on geographic proximity and consideration can include partners outside the region.

Select the button to the right for additional questions to consider when deciding whether certain partnership options may be effective for a particular PWS.

Additional Questions to Consider >>>

Answers to the questions below will help your team identify PWSs that could benefit from partnership activities.
What is the physical condition of the facility? Old facility
Have there been any recent renovations? Yes No ■
Are there concerns about aging infrastructure? Yes ■ No ■
 Were any significant deficiencies identified during the last sanitary survey? Yes No
What is the current service area and where are the existing facilities? If necessary, consult a map that shows the service area, existing/proposed facilities, site plan, etc.
Existing facilities are in rural area and are difficult to access.
Is there an available asset management plan? Yes No
Is the supply quantity or quality adequate for demand? Yes No
If not, are supply concerns about source quantity or quality? quantity quality quality

Grouping PWSs for Partnerships

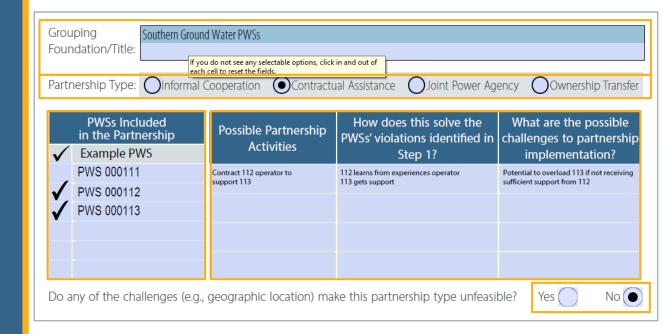
Grouping	PWS Name or ID	Reason PWS Fits in Grouping	Role in Partnership/ Strengths	ldentified Partnership Solution (Type)	Grouping Foundation/Title
1	000123	Similar area and monitoring violations	Needs access to a part-time certified operator	Contractual Assistance	Northwestern Surface Water PWSs
1	123000	Similar area and monitoring violations	High operator turn- over, cannot keep an operator on full-time	Contractual Assistance	Northwestern Surface Water PWSs
_	PWS 000111 PWS 000112 PWS 000113	Same water source and similar monitoring violations	Certified operator new and inexperienced	Informal Cooperation Contractual Assistance Joint Power Agency Ownership Transfer	Southern Ground Water PWSs
_	PWS 000111 PWS 000112 PWS 000113	Same water source and similar monitoring violations	Full time operator overloaded	Informal Cooperation Contractual Assistance Joint Power Agency Ownership Transfer	Southern Ground Water PWSs
2	PWS 000113 auto-1	WS Names and IDs entered in the previous oppulate here. If you do not see them, cler cell and back into the PWS Name or II dd.	ick into	Informal Cooperation Contractual Assistance Joint Power Agency Ownership Transfer	





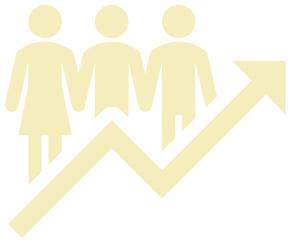
Step 3: Practical Assessment Of Identified Partnership Types And Partners

Possible Partnership Activities



Consider if Partnerships are Feasible

- Consider:
 - Availability of support
 - Financial implications
 - How to build and maintain relationships





Incentives for Partnerships

What short- and long-term incentives are available and can be used to promote partnerships with the PWS(s)? List
available incentives (e.g., economies of scale):

Sharing resources, Improved compliance, Improved water quality, Increased experience,

 Based on the questions you answered and the form you completed partnerships and partnership activities are most feasible to pursue. Tal could address PWSs' needs and barriers to success.

Southern Ground Water PWSs



Partnership incentives include the inherent benefits and additional financial or outreach-related benefits that the state offers to PWSs that engage in partnerships. The most effective way that you can promote partnerships is to ensure that PWSs:

- Recognize partnership potential,
- Raise awareness of challenges, and
- Consider the options available to PWSs to improve operations and provide safe drinking water to their customers.

You and your team can help PWSs benefit from partnerships by:

- · Educating PWSs on how partnership options can help achieve and maintain compliance, and
- Creating incentives that help PWSs consider new ways of maintaining compliance.

Enforcement as an Incentive

Keeping the PWS informed of their compliance status, including notice of violations and enforcement, can help improve communication and understanding. Prior to working with PWSs to determine the partnership options that are right for them, ensure that the state has the necessary legislation in place to support those decisions.





Step 4: Identify Project Champions and On The Ground Support

Champions, Allies, and Stakeholders





Champions, Allies, and Stakeholders

Consider possible champions for the partnership you identified as most feasible under Step 3.					
Do any of the	ommunities or PWSs have strong champions already identified? Yes No				
Who are they?	Owners, Operators, Citizen Organizations, and TA provider				
	13 How to Support Water System Partnerships				
Engaging with these individuals or organizations early and often in the development and planning stages can help keep					
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5 5 5	these individuals or organizations early and often in the development and planning stages can help keep d can also aid in early communications with PWSs and communities.				
momentum an					
momentum an	d can also aid in early communications with PWSs and communities.				



Champions, Allies, and Stakeholders







Step 5: Develop a Plan for Communicating with Stakeholders

Develop a Communications Plan

- Identifying the right messenger
- Communicating the significance of partnerships
- Addressing community concerns
- Communicating community benefits



Document Stakeholders

If not already developed during Step 4, develop a full list, consider the following:

What are the stakeholder groups that may be affected the PWS?

Customers; Entity staff, operators, and managers; organizing group

- Who would be impacted if a PWS were to engage
 - Customers; Entity staff, operators, and manaç organizing group
- Who would be impacted if the PWS were to becor

Customers; Entity staff, operators, and managorganizing group

Partnership Type	Point of Contact or Existing Connection	Primary concerns or reason to get involved?	Role (Champion, Ally, Stakeholder)	Best method and forum to engage or communicate?
Informal Cooperation Contractual Assistance Joint Power Agency Ownership Transfer	PWS Owner	Monitoring violations	Champion Ally Stakeholder	Press conference
Informal Cooperation Contractual Assistance Joint Power Agency Ownership Transfer	Water System Customers	Degraded water quality	Champion Ally Stakeholder	Public forum, Letter to customers
Informal Cooperation Contractual Assistance Joint Power Agency Ownership Transfer	Local health department	Monitoring violations	Champion Ally Stakeholder	Press conference
Informal Cooperation Contractual Assistance Joint Power Agency Ownership Transfer	Community organizing group	Degraded water quality	Champion Ally Stakeholder	Public forum
Informal Cooperation Contractual Assistance Joint Power Agency Ownership Transfer	Local schools and childcare facilities	Degraded water quality	Champion Ally Stakeholder	Public forum, Letter to affected schools





Step 6: Approach PWSs About Partnerships

Approaching PWSs for Partnerships

- Consider:
 - Best way to meet with project champions, allies, stakeholders, and PWSs
 - Type of communication
 - Previous studies
 - Previous partnerships





Example of Partnerships Actions

Example of Partnership Actions	Your Role	PWS Role
Obtaining the necessary approvals	Inform PWSs of approval requirements and help them navigate the process.	If any of the participating PWSs are privately/investor owned, state PUC approval may be required.
Obtaining financing	Provide information on available grants and loans that can be used to fund partnerships. Educate PWSs on funding procedures. Help PWSs make the case to funding agencies that partnerships promote compliance.	Secure grants or loans to help facilitate partnerships. Investigate financing sources to minimize the impact on the local ratepayer. Understand funding procedures and how other PWSs have utilized funding for partnership.
Approving plans and specifications	Educate the PWS on plan reviews and encourage them to use an impartial technical assistance provider to improve the likelihood of success.	If part of the partnership involves engineering changes, a plan review is usually required.
Finding sources of technical assistance	Help PWSs make connections with technical assistance providers in the State (such as NRWA or RCAP).	Contact and obtain necessary technical assistance from providers who are willing to help in the partnership effort.
Supporting regional planning activities	Attend community meetings to show support for partnerships.	Hold community meetings to gain buy-in for partnership options and to educate others on how the partnership will help the PWSs overcome present and future challenges.
Plans and specifications for construction-related projects	Approve engineering plans and specifications.	Complete engineering plans and specifications and submit them to the state.
Notify customers of partnership	Help PWSs ensure clear messaging to customers.	Contact customers via letter and email. Provide useful information to inform customers.







Thank You!

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Water System Partnership Website: https://www.epa.gov/dwcapacity/water-system-partnerships