**WRIA 13 Homework Assignment**

This exercise is intended to aide in the continuing discussion of policy and regulatory actions, and adaptive management strategies to potentially include in the WRIA 13 plan. ***Please read the instructions carefully*** and return this document to Angela by **Tuesday March 24, 2020** so that we may have an in-depth discussion at the March 25, 2020 WRIA 13 meeting.

**Your Name: ­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

# **Policy and Regulatory Actions**

# **Instructions**

Please review the list below.

* Highlight items in GREEN that you believe are important for the committee to discuss AND that you would be willing to lead or take an active role in development.
* Highlight items in YELLOW that you would like the committee to consider but aren’t items that you have time or interest in taking an active role.
* Highlight items in RED that are red flag for your entity and that inclusion would make it very difficult for you to approve the plan.

You may also make comments on any of the items, but please put your comments in a different color font, use a comment box, highlight the comment, or any other method that will make your comments stand out from the list.

1. Inter-local agreement among Committee members for implementation
2. Requesting the funding that Ecology receives from the construction of permit exempt wells ($350 for each well) goes back to the WRIA for projects.
3. Economic report for the cost comparison between mitigation and development.
4. More specific regulations and strategies in priority areas.
5. “In-lieu of” program (Thurston County)
6. Metering permit exempt wells.
7. BMP: mandatory or voluntary. Rebate program to install more efficient irrigation.
8. Fee structure for PE wells based on water use.
9. Conservation program and drought response
   1. Restrict watering days.
   2. Ongoing education and addressing extreme events.
10. Water saving strategies included in building codes
11. Increase distance to water main for mandatory hook ups
12. When homes are sold, information is passed to new owners on reducing water use
13. Fee for wells within the municipal service area, and that money could go to the county.
14. Realistic enforcement strategy – More water masters (specific to PE well enforcement)
15. Mandatory satellite management agency (SMA) of new small systems.
16. Stream buffers with shallow well restrictions.
17. Designate sensitive recharge areas
18. Adding compost to soil of new home developments to return natural soil function.
19. Lower the gallon per day withdraw limits
    1. Concerns from the committee about measuring and enforcing this
20. Outlaw bottled water plants
21. Mandatory reduction for any drought declaration - would be change from current language where Ecology “may” issue a reduction during a drought
22. Reduce area allowed for irrigation
23. Fees for any regulations are based on sliding scale – example to pay per square footage of house, etc.
24. Growth in gardens and expanding watering education programs.
25. Update Ecology well log database
26. Revise instream flow rules
    1. Add permit exempt wells to the rules
    2. Update rules with new methodologies and set more restrictive limits
    3. Add streams that don’t have rules that need one.
    4. Open basins for exemptions from offsets.
27. Link this plan to the County’s Comprehensive Plan
28. Rain water collection, more clarity around the rules for this.
29. Washington Irrigation Guide is out of date, updating this would be helpful
30. Remove 100-acre cap on planned rural residential developments (cluster developments) in Thurston county. Increasing this to 250, 400 would provide ecological benefit and housing benefits. Clustering houses together allows homes to cluster on water systems and minimize impervious surfaces, etc.
31. When the city installs new water mains that come within the 200 feet buffer where permit exempt wells already exist, require those individuals to hook up within a certain time frame. (No grandfathering permit exempt wells).
32. Legislation to increase Ecology’s role in implementation of the plan and provide funding for implementation.

**Other Ideas**   
(based on the list compiled from all WRIAs on Box here: <https://app.box.com/s/07ud4wiay8o109g3erwkuvf4838f9pgu> or new ideas you have thought of…)

# **Adaptive Management**

**Background**

The Committee will need to further discuss how to address adaptive management in the WRE Plan. Based on previous Committee discussion, some ideas for doing so are:

1. Develop a recommendation to the legislature jointly with other WRIAs to request funding to allow WRIAs to continue to meet and monitor implementation of WRIA plans, and adaptively manage implementation as necessary.
2. For each project included in the plan, include what data need to be collected to allow adequate tracking of results and note what would trigger adaptive management.
3. A mechanism to assess whether the assumptions used in the plan (e.g. growth, outdoor watering, etc.) are validated over time or will need to be revisited as part of adaptive management.

We will be discussing these three aspects in much more detail at future meetings.

# **Instructions**

Please list your ideas regarding Adaptive Management that DO NOT fit under the three topics above. Please be as specific as possible in describing the plan language or action that you would like the Committee to discuss.

In case it is helpful, here are the notes from the Meeting Summary where we discussed Adaptive Management:

1. Adaptive management will depend on what the project is and where it is.
2. When the plan is written, how do we monitor projects, how do we make sure plans are succeeding?
3. Track project effectiveness – include elements in the project description on performance measures and expectations
4. Groundwater and flow monitoring
5. Permit-exempt well metering
6. Determine who is responsible for tracking plan implementation
7. Water bank as a tracking mechanism
8. The plan is based on a lot of assumptions, and overtime it’s important to track assumptions.
   1. Need to track the number of wells and the number of projects being installed and implemented.
   2. Idea of creating measures/regulations to implement if the plan is falling behind schedule.
   3. Consequence of falling behind in the plan (i.e. restricting new wells)
9. As ideas evolve and new opportunities arise, how can new projects be added to the plan.
   1. Add projects to the plan after adoption so that the plan can claim that offset credit
   2. Credits for offsets when well are decommissioned
   3. Credits for a portion of a multi-purpose project
10. Track total water use
11. Tracking NEB
12. Funding for adaptive management/implementation (to Ecology or another entity)
13. Consider the roles of the Counties
    1. Dedicated funding
    2. Staff time
    3. Ordinances
    4. Long-term stability of the plan and things that won’t shift with political winds.
14. Preference for acquiring good data
15. Project impacts, stream data, the amount of new wells and how much water they use
16. Robust and flexible funding list
17. Maintain the work of this committee and future meetings and progress made going forward.
18. Buy-in from Policy Makers going forward.
19. Need to ensure some entity is responsible for implementation and adaptive management
    1. Foundational to an adaptive management component
20. Difference between adaptive management on the project and plan levels
21. Effectiveness monitoring at subbasin level
22. Evaluating trends of development and accuracy of the consumptive use estimate.
23. Annual report of plan implementation

**You can also find the list compiled from other WREC groups on Box here:** <https://app.box.com/s/07ud4wiay8o109g3erwkuvf4838f9pgu>

**Other Ideas**