



NOTICE OF PUBLIC MEETING & AGENDA

UPPER VERDE RIVER WATERSHED PROTECTION COALITION BOARD MEETING

Wednesday, May 26, 2010 – 2:00 p.m.
City of Prescott City Hall, Council Chambers
201 South Cortez Street – Prescott, Arizona

- ITEM NO 1. Introductions, Awards, or Presentations**
- ITEM NO 2. Call to Public**
Consideration and discussion of general unscheduled comments from the public: Those wishing to address the Coalition need not request permission in advance. Any such remarks shall be addressed to the Coalition as a whole and not to any member thereof. Such remarks shall be limited to three (3) minutes unless additional time is granted by the Chair.

At the conclusion of the unscheduled comments, individual members of the Coalition may respond to the item addressed at the discretion of the Chair, or they may ask Staff to review the matter or ask that the matter be placed on a future agenda.
- ITEM NO 3. Discussion & Action – Approval of Board Meeting Minutes – March 24, 2010**
- ITEM NO 4. Discussion – TAC Meeting Summary – April 14, 2010**
- ITEM NO 5. Discussion & Possible Action – Safe Yield Final Report**
- ITEM NO 6. Discussion & Possible Action – Water Smart Application**
- ITEM NO 7. Discussion & Possible Action – Monitoring Wells Data Gathering**
- ITEM NO 8. Discussion & Possible Action – FY 2011 Coalition Member Dues & Budget**
- ITEM NO 9. Discussion – Recharge & Source Water Pilot Projects Study Update**
- ITEM NO 10. Discussion & Possible Action – Grant Opportunities Update**
- ITEM NO 11. Discussion & Possible Action – Next Meeting Time / Location / Agenda Items**
- ITEM NO 12. Adjourn Meeting**



AGENDA ITEM NO. 1

PRESENTATION & AWARDS

- Presentation by Project WET Education Grant recipients and students
- Recognition of Safe Yield Workgroup for their valuable dedication and work

AGENDA ITEM NO. 3

ACTION – APPROVAL OF BOARD MEETING MINUTES MARCH 24, 2010

Approval of minutes for the previous Regular Board Meeting held on March 24, 2010.

AGENDA ITEM NO. 4

DISCUSSION – TAC MEETING SUMMARY – APRIL 14, 2010

Brief summary of the TAC Meeting



AGENDA ITEM NO. 5

DISCUSSION & POSSIBLE ACTION – SAFE YIELD FINAL REPORT

Ed Muccillo will present the Final Report of the Safe Yield Workgroup

AGENDA ITEM NO. 6

DISCUSSION – WATER SMART APPLICATION

Ed Muccillo will provide an update on the Water Smart Program and Application

AGENDA ITEM NO. 7

DISCUSSION & POSSIBLE ACTION – MONITORING WELLS DATA GATHERING

Ed Muccillo will lead a discussion about data gathering from monitoring wells



AGENDA ITEM NO. 8

DISCUSSION & POSSIBLE ACTION – FY 2011 COALITION MEMBER DUES & BUDGET

Ed Muccillo will lead a discussion regarding Coalition Member dues for FY2011. Invoices will be sent out next month. The UVRWPC Budget will also be discussed.

AGENDA ITEM NO. 9

DISCUSSION & POSSIBLE ACTION – RECHARGE & SOURCE WATER PILOT PROJECTS STUDY UPDATE

Rick Shroads will provide a brief update on the progress of the Recharge & Source Water Pilot Projects Study

AGENDA ITEM NO. 10

DISCUSSION – GRANT OPPORTUNITIES UPDATE

Melody Reifsnyder will present an update on current grant pursuits



AGENDA ITEM NO. 11

DISCUSSION & POSSIBLE ACTION – NEXT MEETING TIME / LOCATION / AGENDA ITEMS

Board Meeting

The next regularly scheduled Board Meeting is on **July 28th, 2010 at 2:00 p.m.** at the City of Prescott City Hall, Council Chambers, 201 South Cortez Street, Prescott, Arizona. Agenda items for the next Board meeting will include a presentation from Project WET Education Grant recipients and students, FY 2011 Budget, Grant Applications, the Water Conservation Education Program, Monitoring Wells Data Gathering, and the Recharge & Source Water Capture Pilot Projects Study.

TAC & Safe Yield Workgroup Meetings

The next **TAC meeting will be Wednesday, June 9th, 2010 at 1:00 p.m.** Agenda items for the next TAC Meeting include Water Smart Applicants, Monitoring Wells, Recharge & Source Water Capture Pilot Project Study, Grant Applications, and the FY2011 Budget. The meeting will be held at the Yavapai County Administrative Services Building, Gladys Gardner Room, 1015 Fair Street, Prescott, Arizona.

AGENDA ITEM NO. 12

ACTION – ADJOURN MEETING

Meeting to be adjourned



**UPPER VERDE RIVER WATERSHED PROTECTION COALITION
WORKSHOP MEETING
PRESCOTT, ARIZONA
Wednesday, March 24, 2010**

MINUTES

A MEETING OF THE UPPER VERDE RIVER WATERSHED PROTECTION COALITION WAS HELD ON MARCH 24, 2010 in the Prescott Municipal Building, 201 S. Cortez Street, Prescott, Arizona.

Chairman Flannery called the meeting to order at 2:01 p.m.

Introductions, Awards, or Presentations

Members Present:

Councilman Mike Flannery, Town of Prescott Valley, Chairman
Supervisor Carol Springer, Yavapai County Board of Supervisors, Vice Chairman
Mayor Jim Bunker, Town of Chino Valley
Councilwoman Mary Ann Suttles for Mayor Kuykendall, City of Prescott

Members Absent:

Mayor Marlin Kuykendall, City of Prescott
President Ernie Jones, Yavapai-Prescott Indian Tribe

Staff Present:

Ed Muccillo, Program Manager
Rick Shroads, Assistant Program Manager
John Munderloh, Town of Prescott Valley
John Rasmussen, Yavapai County
Lorri Carlson, Program Administrator

Guests Present:

Noel Campbell, Candidate for Legislative District 1
Melody Reifsnyder
John Zambrano
Thomas Slaback
Dean Blakeslee
Doug McMillan
Tom Atkins
Jabe Willis
Gary Beverly

ITEM NO 1. Introductions, Awards, or Presentations

Councilwoman Mary Ann Suttles, City of Prescott, presented the Coalition with a check for reimbursement of funds associated with the City's Bureau of Reclamation Water Conservation Education Grant in the amount of \$12,306.



ITEM NO 2. Call to Public

Nothing from the public at this time.

ITEM NO 3. Approval of Board Meeting Minutes – February 24, 2010

Member Jim Bunker moved to approve the minutes of the February 24, 2010 Board Meeting; second by Councilwoman Mary Ann Suttles. Motion passed unanimously.

ITEM NO 4. TAC Meeting Summary – March 18, 2010

Mr. Ed Muccillo said each of the topics discussed at the last TAC meeting are included in this agenda.

ITEM NO 5. Safe Yield Report

Mr. Muccillo said the Safe Yield Final Report is done after a lot of extra meetings since October. He said he really wants to thank all of the members of the Safe Yield Workgroup for their many hours, hard work, discussion, writing and rewriting. He said his understanding is the Report is just being presented to the Coalition Board today and followed by a discussion at the next Board meeting.

Chairman Flannery said he would like more time for consumption.

Vice Chairman Springer said she agrees and they need more time to review the Report. She said it would be worthwhile for the public to provide a brief summary.

Mr. Muccillo said in spring 2008 the Board appointed the Safe Yield Workgroup to develop a plan for the Prescott AMA to reach safe yield by 2025. He said that the workgroup has been meeting for a couple of years. He said the Report covers a lot of the workgroup discussions. Mr. Muccillo said the Introduction of the Report gives a lot background on the Coalition; the best attempt to define what the overdraft is; actions that have already been taken by the Coalition; what the understanding of safe yield is; and what are the ramifications of not reaching safe yield are. He said the report also addresses methods to achieve Safe Yield including water conservation, groundwater recharge, and importing additional water supplies. Mr. Muccillo said the potential alternatives that were evaluated are organizational structures the Workgroup thinks will best attack safe yield. He said these structures include the current Coalition structure, an enhanced Coalition structure, the replenishment district, and a water authority. He said these were evaluated and the bottom line recommendations made by the Workgroup is the replenishment district and that the Coalition institute a public education program on the importance of reaching safe yield. Mr. Muccillo said there is an executive summary on pages two and three.

Vice Chairman Springer said she would like to thank the members of the committee.

Chairman Flannery said he would like to have them acknowledged and asked the members present to stand [applause]



Vice Chairman Springer said without a doubt they all know the members of the workgroup worked very hard to come up with the Report and the Board sincerely appreciates all of the efforts that they made.

Vice Chairman Springer moved to accept the Safe Yield Workgroup Final Report; second by Councilwoman Mary Ann Suttles. Motion passed unanimously.

Chairman Flannery thanked the members of the Workgroup for the effort they put in to the Report.

Mr. Muccillo asked if the Board would like to have this on the May agenda.

Vice Chairman Springer said she thinks they should have it on a study/discussion session.

Councilwoman Suttles suggested a workshop for discussion. She said May will be a good time to do that and it allows the public time to bring their questions.

Mr. Doug McMillan, 2150 Meander, said he had a few words in regard to the Safe Yield Report. He said his background is in civil engineering and he has been involved in the Big Chino Pipeline Project over the last two years and with the macro rainwater harvesting projects. He said going through the rainwater harvesting and the science of it he thought that if they get this information out to the public everything will fall in place. He said he realized after going to Mayor Bunker's presentation a few weeks ago there is another whole aspect outside of his world of engineering. Mr. McMillan said when he saw how Mayor Bunker presented to the people that this is the problem and these are the options people were very upset. He said the Mayor also said they could do nothing and the people started yelling out to do nothing. He said he realized he may need to go back to school and study sociology. He said it has been really interesting the last year and a half being on the periphery watching the Safe Yield Workgroup coming up with the Final Report. Mr. McMillan said he thinks what has come out of this is something that is very positive. He said he would like to put an adjective in front of the recommendation of replenishment district and that is "cooperative" replenishment district. He said he thinks this is a very positive thing and people should not be afraid of it. He said there is one aquifer and they all need to work together toward a common goal and that common goal is to stop the groundwater level from dropping. Mr. McMillan said the recent National Geographic issue is all about water and it is not just this area that is having to deal with this issue rather it is the whole United States. He said he thinks they can be leaders and they can show the whole western United States how it's done. He said from an engineering technical side of it he knows they can create a sustainable water supply. He said it depends on whether they work cooperatively together.



Chairman Flannery said he would like to reiterate that the Board recognizes the effort that has gone into the Report and that it is not a subject that is easily dealt with. He said they know there is contention on all sides of this and they appreciate the effort that has gone into it. He said thank you very much to the Workgroup.

ITEM NO 6. Water Smart Application

Mr. Muccillo asked for any final recommendations to the Water Smart application before it is made available. He said Supervisor Springer mentioned prior to the meeting that the application indicates “Attached is a listing of criteria...” and that needs to be struck. Mr. Muccillo said the main question the TAC discussed is the procedure after the designation. He said the Coalition would provide a decal but if the facility or organization wants signage beyond that the Coalition would be granting that and approve the proposed signage design with the Water Smart logo included. Mr. Muccillo said for instance, the Town of Prescott Valley will be applying for a designation for the library. He said a press release would also be issued for recognition of the applicant’s successful Water Smart designation. Mr. Muccillo said an award letter would also be sent to the applicant and include information about stipulations and conditions.

Councilwoman Suttles said the City of Prescott had a proclamation of April as Water Awareness month and suggested that next time the Water Smart program could be emphasized as part of that effort.

Vice Chairman Springer said she likes the one page application. She recommended eliminating the *s* on ‘towards’ and in the last paragraph delete the words “attached is a listing of criteria that the Coalition may use to evaluate your application.” She said other than that she thinks it is wonderful. Vice Chairman Springer said getting back to what Councilwoman Suttles said, she does not see any reason why if they are accepting this new project that they could not put out a press release describing this project in conjunction with the water awareness.

Tom Slaback, 715 East Goodwin Street, said removing the attached listing they discussed at the last meeting replacing that rather than just strike it. He said as he mentioned previously a lot of people want to be Water Smart and they don’t have the slightest idea how to do it. He said he suggests that they replace that line with a line basically saying a list of criteria could be supplied that may be used to evaluate the application or to indicate they can ask for such a thing.

Chairman Flannery suggested the application instructions indicate that examples could be available upon request. He said they already had that conversation and that examples would be available but it does not stipulate it here.

Mr. Muccillo said it is ok with him and that he can reword that sentence. He said it sounds like they are trying to avoid appearing like there is a score sheet so instead the wording can be kept vague. He said the wording can instruct people to contact us if they have questions about Water Smart strategies. He said it can be put on the website and applicants can download the page.



Mr. Tom Atkins, 309 South Washington, asked if maybe the Water Smart Designation could be applied not to what they do but how it worked. He said for instance before and after water bills showing the effectiveness of their efforts and hopefully getting that down to the safe yield margin.

Vice Chairman Springer said it is not quite that simple.

Mr. Slaback said if we know what that number is then we can connect that up to the Water Smart idea and it would be a way to aim toward safe yield.

Chairman Flannery said without knowing what the project is he does not know how he can ascertain what the savings will be.

Mr. Howard Mechanic, 309 Bloom Place, said while the number may be accurate that would be based on the present population only. He said as the population increases under this scenario the number would go down. Mr. Mechanic said as it may be useful to consider, which was discussed by the Safe Yield Workgroup, the number does not mean a whole lot because as soon as somebody else moves to town that number is no longer valid. He said they should just have goals to reduce their usage. He said as they discussed in the Workgroup, his opinion is that conservation alone will not get them to safe yield. Mr. Mechanic said reducing the number of gallons per day per capita is component of reaching safe yield.

Mr. Mechanic said when people make their application we do not want to put them in a box with a score card on what type of criteria may be used. He said it would be beneficial to provide some idea of what is qualified and what was not qualified.

Chairman Flannery said they do not want applicants to think this is a criteria that will be used because applicants will try to shape whatever project they have to the list.

Mr. Mechanic said it might be useful to have applicants indicate what their water use is now and what their reduction in use will be. He said the application can indicate there are no specific requirements and that might be helpful. He said it will make it easier for the Board because they will not get a bunch of questionable applications that will have to be dealt with.

Chairman Flannery asked if they want to put something on the website that will steer the applicants toward some kind of examples.

Mr. Muccillo said he thinks it should be done in both places, on the hard copy and on the website, because the applications will be in the Water Smart racks where they will not get the benefit of a download page to see that note.

Vice Chairman Springer said coming back to some of their previous conversations it seems to her that they had in mind it may apply to all kinds of projects at all levels, from an individual homeowner up to a very sophisticated type of project for a



government building for instance. She said if they are talking about a broad range of potential users and they want to interest people in doing a water harvesting project or something, they have to not make it complicated or beyond the understanding level of a homeowner who is not involved in water projects like they are. She said if they start putting the criteria or examples then they discourage the individual person. Vice Chairman Springer said if the idea is to educate the public the people who know this stuff already know it, so they are not trying to educate each other anymore rather they are trying to educate people who do not know. She said when they start making it complicated and making it look like it is something way more than an applicant wants to do then the public is discouraged. She said that is why she likes to keep it simple. Vice Chairman Springer said if they want to add something they could add "If you have questions please contact us." She said they need to remember who they are trying to get involved.

Chairman Flannery said while he agrees with what she is saying, he asked can the successful applicants' projects be posted on the website.

Mr. Muccillo said yes. He said depending on the volume that will not be a problem. He said the website could include a photo and brief description of why they are Water and leave it on in perpetuity. He said they can offer a press release and a number of other avenues to publicize Water Smart efforts.

Chairman Flannery said maybe they do not need to have something that says here is the kind of project they are looking for and instead just by the awarding of projects and publicizing them potential applicants will get the idea of what types of projects are Water Smart.

Vice Chairman Springer said for instance if they get a home owner who comes in and does a rainwater harvesting project, the home owner gets a Water Smart designation and then a write up and that is educating other people.

Chairman Flannery said that is what they want to make sure they do with this is educate.

Mr. Muccillo said some people are already doing this and they are ready to apply for this.

Member Bunker said his suggestion is to just leave it simple and if it does not work a few months down the road it can always be changed. He said he likes Supervisor Springer's suggestion because the idea is to leave it open and some of the projects may not fit in a preset criteria.

Vice Chairman Springer said another thought that crossed her mind is that it might lead to a Frequently Asked Questions (FAQs) page on the website to prevent some inappropriate projects for this program.

Chairman Flannery asked if this seems to work for everybody out there.



Dean Blakesly, 2225 North Road 1 East, Chino Valley, said he suggests that for businesses designations consider offering a link to their business on the Coalition website to optimize search engine optimization.

Chairman Flannery said they will look at that.

Member Bunker said to think about that and if there are any legal ramifications.

Member Bunker moved to authorize staff to publish the Water Smart Application as corrected; Councilwoman Mary Ann Suttles. Motion passed unanimously.

Member Bunker moved to authorize staff to issue a press release describing the Water Smart Application; Councilwoman Mary Ann Suttles. Motion passed unanimously.

ITEM NO 7. Monitoring Wells Data Gathering

Mr. Muccillo said the TAC talked about this item. He said on page 8 of the Safe Yield Final Report is an example of what Arizona Department of Water Resources (ADWR) has compiled to indicate water level changes. He said the TAC discussed the possibility of presenting that in itself. Mr. Muccillo said the two suggestions the TAC came up with are to use something ADWR produces and have it presented to the Board by ADWR or the TAC. He said that could be presented on some frequency, whether that is quarterly, every six months, or every year. He said clearly ADWR staffing levels will have an impact on the production of these types of resources in the future. He said there is a strong tone of caution with the TAC that just purely looking at water levels can be dangerous. He said very detailed modeling within small grids allows ADWR to interpret water level data.

Vice Chairman Springer said she has a little problem with that because ADWR does not seem to have any problem coming up with the numbers that indicate what the short fall is, as in groundwater mining quantification. She said she does not understand why it would not work the opposite way.

Mr. Muccillo said he understands that is something different, more water budget type discussion.

Vice Chairman Springer asked if the same methodology is used.

Mr. John Munderloh said there essentially three tools the department uses in tandem to try to get an idea of the health of the watershed. He said the water budgets, which when taken over a long term period combined with modeling and monitoring give an indication of the health of the aquifer. He said the thing the TAC was concerned about is looking solely at changes in water levels in monitoring wells, which are designed to tell them what the water level is at in the monitoring well and not necessarily throughout the aquifer. Mr. Munderloh said without



combining the other two tools it would be dangerous to make an assumption about the health of the aquifer. He said again, this is a long term thing so over a period of a decade as ADWR looks at changes in water levels, as they look at water budgets, and as they update their models then they can see how the aquifer is doing. He said there is an overall concern that they would be looking at this in time steps that are too narrow and at looking at only one of the three tools. Mr. Munderloh said it is something they can present but they are cautious about presenting without properly characterizing what is being looked at.

Vice Chairman Springer said they are trying to look for the long term and they are trying to look toward the Groundwater Act recommendation that they achieve safe yield by 2025. She said this is now 2010 and suggest that they set up something so that at each five year increment they have a more comprehensive report that includes all of those three elements.

Mr. Munderloh said he thinks that is fair to do and he thinks that is something that ADWR has been doing up until now with the most recent update to the model in 2006 or 2007 with the Daniel Timmons model update. He said they have been doing model updates about every five years that incorporates the two data sets, the water use and the water levels.

Vice Chairman Springer said they are going to be doing projects contributing X number of acre feet to the aquifer and will have those numbers available in that period of time and that becomes the ADWR report in the five year increments.

Mr. Munderloh said that is essentially what has been going on in the water community and if they can find anyone left in the department perhaps they can come and present that information.

Vice Chairman Springer said she is suggesting that they put a program in place and this is the program. She said the steps would be that they calculate what they have been contributing to safe yield. On the fifth year anniversaries they try to verify that with an ADWR report presented by ADWR staff or the TAC.

Mr. Munderloh said he thinks that sounds very logical. He suggested the Board allow the TAC some time to implement something like that.

Vice Chairman Springer said ok, because in the mean time it is very expensive to measure some of these projects. She said they know the projects are contributing but they just don't know how much.

Mr. Munderloh said he thinks they can look at developing a plan to do that although he believes that is what has been happening in the water communities, specifically with ADWR. He said he thinks it will be interesting moving forward at this point, for example he just found out today that the monitoring well network that ADWR works in the AMA, maybe 100 or more wells, may completely no longer be monitored due to the budget restraints. He said they may completely stop any future modeling as



well. He said he thinks the issue becomes a question of how they look at picking those things up and they will talk about it at the TAC.

Chairman Flannery asked within the three tools mentioned does the Coalition have the means to do them and on a routine basis considering their limited resources.

Mr. Munderloh said he would hate to stand there and say yes or no but given the idea that currently their resources are fully allocated he would say no. He said should they find grant money that would be different. He said that would be the key issue and they could inquire from ADWR what they spend to get those tasks done. He said he thinks the Coalition would be surprised at the number and that it is probably quite a bit of money.

Mr. Muccillo said that is something they can talk about and when Melody Reifsnyder was developing the grant funding plan the monitoring task was on the back burner. He said that is something if they so choose they can arm her with to put that on her radar.

Chairman Flannery said in terms of it being something where they ought to be going he agrees with Supervisor Springer. He said his concern is can they go there.

Mr. Muccillo said he would echo what Mr. Munderloh previously mentioned that it would be grant dependent.

Councilwoman Suttles said dealing with ADWR as they shrink more and more and considering that all of these water groups rely so much on information from ADWR, she asked if anyone has come up with what they might do if ADWR is phased out or they have to go down to the Valley to deal with them. She said her concern here is an example of information that is needed for what they are working for and the Yavapai County Water Advisory Committee (WAC) has a similar situation.

Mr. Munderloh said he would call it a triage approach, whatever is bleeding the worst they are trying to put a band aid on. He said they do not have a comprehensive plan to address the entire vacuum left by ADWR. He said one of the problems is no one knows how big of a hole they are going to leave. Mr. Munderloh said they honestly do not know what is happening in the next six months and whether they are going to be able to find another pot of money somewhere. He said without knowing what the agency is going to do it is very difficult for them to make a plan on how to fill the necessary vacuums.

Councilwoman Suttles said they will just have to limp along behind ADWR until they find out where they are going.

Mr. Munderloh said that is what they have been doing so far as certain key activities of the Department have been dropped in the past they have evaluated whether they needed to pick them up at the WAC or as individual communities. He said they have done some of that, for instance, Prescott Valley picked up costs of maintaining



a stream gauge that ADWR dropped. He said as things go forward they will triage it and maybe try to find a cure.

Councilwoman Suttles asked if he sees some of the water groups just dropping out because they will not be able to continue to do what they are doing without the support from the bench.

Mr. Munderloh said he does not know that he can answer that and they need to address what is most important for their communities with the resources they have.

Chairman Flannery said in regards to Councilwoman Suttles' question will they need to go to Phoenix to deal with ADWR the answer is yes they will.

Mr. Muccillo said he heard that the TAC is going to come up with a plan to recommend how they are going to approach that, specifically the monitoring wells and that they need a more comprehensive plan.

Chairman Flannery agreed and said to strive for a regular basis for the longer term.

Mr. Muccillo said they will discuss what the appropriate frequency is for that.

Mr. Tom Atkins said from his understanding to monitor the wells they turn off the pump first, then take a long line of some sort and send it down until it has electrical contact and then measure how deep the well is. He said it doesn't seem to him that the process is a very big deal.

Mr. Munderloh said he suggests they get the information from ADWR on the costs and certainly the task of measuring water levels takes time, staff, and equipment.

Mr. Atkins said ADWR has the graphs of all the wells and he hopes that somehow they can use the data that is already on there, add the newest data, and publish it once in awhile so they can get a really good idea what is going on in the monitoring and production wells.

Mr. Noel Campbell, 146 N. Mt. Vernon Avenue, asked how they factor in what the exempt wells are using regarding the overdraft. He said if they do not know how much exempt wells are using how are they ever going to reach safe yield unless that is dealt with. He asked if that is the reason they are not going to have a water authority and because it is just too politically difficult to deal with trying to monitor exempt wells.

Member Bunker suggested that he get on the Town of Chino Valley website regarding their last hearing on the proposal of the water ordinance. He said that will give him an idea of some of the obstacles he will have to overcome to do that.

Mr. Campbell asked how they are ever going to reach safe yield until the exempt wells issue is dealt with because they really do not know how much is being used.



Member Bunker said there are estimates of how much is being used.

Vice Chairman Springer said they estimate right now somewhere in the range of 1/3 of an acre foot per year. She said whether they are on an exempt well or a water company or a city they probably are using pretty much the same amount of water.

Mr. Campbell asked if that 1/3 of acre foot usage computed in the overdraft of 11,000 acre feet per year in the report.

Vice Chairman Springer said yes.

Mr. Mechanic said they will discuss the report in a couple of months but since it was brought up the report does not look at any user's overdraft. He said that is the point of trying to have a cooperative and they have an overdraft of 11,000 acre feet. He said it does not matter how much the overdraft is from an exempt well user or from somebody in the city. Mr. Mechanic said they do not know how much water most exempt well users are using and that they have no meter. He said even they do know how much somebody is using they cannot necessarily say that their overdraft is a certain amount unless the amount is divided equally among everybody and saying 2/3 of what you are using is overdraft. He said that is what comes down to and they are pumping much more than they can pump. Mr. Mechanic said there is no need to criticize exempt well owners as may have been done in previous reports in setting them aside and saying they are the problem. He said they are not the problem rather there is a general problem and they all need to work to solve the general problem. He said he thinks that is what they need to deal with in this report and not take particular users or particular segments and try to say that 'they' need to do something. He said we 'all' need to do something.

Chairman Flannery said they cannot sit there and look the other way because somebody's straw is larger than the other straw. He said they have a problem and they need to address the problem.

Mr. Mechanic said under state law if somebody has a two acre parcel out in the county they are allowed to put in a well. He said the overdraft will obviously increase with each additional well. He said the report is not in any way trying to restrict people's rights to put in wells and he wants to make that very clear. He said there is nothing in this report that is restricting anybody's right to put in a well and there is no special fee that anybody is going to ask for to target people who are putting in wells. Mr. Mechanic said that issue was really a problem in the past and he does not think they should carry it forward.

ITEM NO 8. Recharge & Source Water Pilot Projects Study Update

Mr. Rick Shroads gave a presentation on the Recharge & Source Water Pilot Projects Study update. He said he has a briefing on the developed site pilot project. He said they have more detail to show now. Mr. Shroads said the City of Prescott property that resides northeast of the airport has a joint agreement with APS for the



large array of solar panels. He pointed out the site the Coalition is interested in and said it is about an acre. Mr. Shroads presented the actual project plans that they hope will be used by a contractor to get the project built.

Mr. Shroads pointed out the southerly and northerly areas, the solar panels, the direction of flow off of the solar panels, and the ground below the panels. He said that since the project is already built they are not in a position to change the grade rather they are going to conform to the natural grade of the land. He said the water will drain specific locations via gravity and then collection devices will take the water in pipes to the recharge basin.

Mr. Shroads pointed out the northerly pipeline and the manhole that will have a measuring device and a data logging set in it to measure the actual flows coming through the pipeline. He said it is a closed conduit and no exterior waters can get into the pipeline. He said there is a little less than an acre foot recharge pond on the east side of the site. Mr. Shroads said the idea is to find a relatively flat spot with good soil characteristics. He said they are still waiting for some additional soil characteristic reports and that is why the details are not complete yet. He pointed out the dry wells and the depth that will penetrate down to the sands and gravels.

Mr. Shroads presented a detail sheet diagramming how the solar panels work. He said they are horizontal at noon and they tilt somewhere in the neighborhood of 60°. He said the idea is to capture runoff from those panels during horizontal or the full 60° tilt. He said the water to drip off into the channels and not get absorbed in the soil below. He said the dual stage Maxwell drywell is used a lot in the Valley and the nice thing about them is they are clog resistant. He said in this case they do not have a lot of pollutants they expect in the runoff because it is coming off of a glass surface onto a concrete surface. Mr. Shroads said nevertheless, any pollutants they do get if they are solids can settle down to the bottom and they can clean those out. He said if they if they hydrocarbon type pollutants, for example as they find in parking lots, they can be absorbed with pillows that float on the surface and they can treat that water before it enters into the aquifer.

Mr. Shroads said the measurement devices are very similar to what they are using on the other pilot projects, a flo tote system. He said these will be placed in the manhole on both of the pipes previously shown emanating from the solar field. He said in order to compare what they are getting from runoff to what is happening from the atmosphere they have a rain gauge weather station with data logging characteristic so they will know the distribution of a storm and how much rain fall occurred. Mr. Shroads said the amount of rain fall that occurred will be compared with the amount of runoff.

Councilwoman Suttles asked Mr. Shroads is he received the wildlife report from the Airport Director Benjamin Vardiman.

Mr. Shroads said he received a verbal report. He said they have also been in contact with Mike Johnson from APS. He said they are looking closely at the issue



of waterfowl and if they will tend to use a pond and a subsequent increase in the number of waterfowl. He said mitigation measures, such as netting, are being considered. Mr. Shroads said the amount of time it takes the pond to drain is significant and they want to make sure that it is not a standing pond for long periods of time.

Councilwoman Suttles said the City of Prescott had to do this wildlife report and will take 13 months to complete.

Mr. Shroads said he will be in touch with Ms. Leslie Graser on that.

Chairman Flannery asked if the pond out there could be very problematic.

Mr. Shroads said he does not think so because if they can net it or drain it quickly he does not see it as a problem. He said that is why they went forward with it.

ITEM NO 9. Grants Update

Ms. Melody Reifsnyder said she met with John Munderloh, John Rasmussen, and Rick Shroads regarding the National Science Foundation grant and that application is moving along well. She said it will go in on April 15, 2010 and it is worth \$1 million per year for five years. Ms. Reifsnyder said the Bureau of Reclamation grant was submitted and it usually takes three to four months for a response. She said the EPA Water Smart grant, previously known as Water 2025, was posted last week and it has a 50% match. She said in a discussion with Mr. Shroads they believe that can actually be done with in-kind services, the provisional indirect cost rate, and a little bit of cash. She said this grant is due May 4, 2010. Ms. Reifsnyder said the WIFA grant is due April 30, 2010 and it is a \$35,000 Technical Assistance Grant. She said if the project can be made "green" by their definition there will be no match. She said it will be no problem to make it green, which deals with water efficiency and water conservation and it is just a matter of explaining it appropriately.

Ms. Reifsnyder said referring to the previous discussion about monitoring wells funding could actually come out of the Water Smart program and that would be an eligible use for funding. She said monitoring of program results is always an eligible grant expenditure.

ITEM NO 10. Next Meeting / Location / Agenda Items

Mr. Muccillo said if they go to more of an every other month meeting schedule then the agendas will obviously be a little longer. He said as part of their effort to save time and money they could skip the April meeting and have a meeting in May. He said he thinks they could skip June and have a July meeting and they have typically skipped the August meeting anyway, then have a September meeting. He said beyond September it may be a bit tough to predict.

Chairman Flannery asked what about the budget.



Mr. Muccillo said yes, that will be discussed at the next meeting. He said the other agenda items include the Safe Yield Final Report discussion/workshop, after the press release about the Water Smart Application and if they have any responses there will be an update on that, a brief update on the monitoring wells since the TAC will only have one meeting to discuss that, recharge projects update, and grants update. He said the one thing that was not on today's agenda is the status of the member contribution amounts for the next fiscal year and the Coalition budget.

Councilwoman Suttles asked if it is possible to get a short report on ADWR.

Mr. Muccillo said they can try.

Ms. Lorri Carlson said Project WET will be giving a presentation.

Mr. Muccillo said the April meeting will be taken down from the website.

Vice Chairman Springer said somehow they have to be kept informed on this because people plan their calendars ahead. She said the public needs to know and the Board needs to know. She said either a press release or put it on the website. She said she has already done her calendar with every other month and now she does not know what to do.

Mr. Muccillo said at this point he thinks it would work to do every other month for the rest of the year. He said that would make the meetings fall on May, July, September and November, which helps them avoid months like August and December when they try to avoid meetings anyway. He said they can commit to that and say this is going to be the meeting schedule for the rest of the year. He said they can always add a meeting if needed and based on availability.

Vice Chairman Springer said she would rather have that and she thinks having something more stable for the public is better.

Chairman Flannery said if that is the course they choose, then go ahead and post that through the newspaper and the website.

Mr. Muccillo said the next TAC meeting will be the second Wednesday in May, the 12th, and the next Board meeting will be on the May 26th.

Chairman Flannery thanked everyone for coming to the meeting.

ITEM NO 11. Adjourn Meeting

Meeting adjourned at 3:23 p.m.



UPPER VERDE RIVER WATERSHED PROTECTION COALITION TECHNICAL ADVISORY COMMITTEE (TAC) MEETING SUMMARY

Wednesday, April 14, 2010
Yavapai County Administration Building, Gladys Gardner Room
1015 Fair Street – Prescott, Arizona

TAC Meeting – 12:00 p.m.

Attendees:

TAC Members: Ron Gritman, Chris Moss, John Munderloh, John Rasmussen
Program Management Team: Ed Muccillo, Rick Shroads, Lorri Carlson
Guests: Dirk Stringham, Doug McMillan, Ken Janacek, Lou Bellesi, John Zambrano

Discussion Notes:

- **Monitoring Wells**
 - Review of Coalition Board's direction to utilize measurements as indicator of success in working toward reaching safe yield.
 - ADWR is in charge of the AMA monitoring program incorporating water budgets, well monitoring, and modeling updates.
 - Suggestion to start with asking ADWR if they have any staff available to answer questions about the monitoring program such as what does ADWR do exactly, how much does it cost, and what do they plan to continue to do.
 - Discussion of agency contracting the monitoring program and how will that cost be funded.
 - Hydrogeologic experts needed to interpret monitoring data.
 - Consideration of legal aspects, specifically ADWR does not own monitoring wells rather they have an access agreement. New agreements would be needed with every property owner.
 - Get documentation from ADWR about program including well location list and costs.
 - Terry Davis was suggested ADWR contact.
 - TAC directed by Board to come up some sort of report on how to proceed.
 - Conversation with ADWR staff
 - Cost monitoring, model updates, and change maps
 - Future ADWR monitoring plans
 - B&N to provide cost of modeling effort
- **Recharge & Source Water Capture Pilot Projects Study Update**
 - At point with development of plans and specifications for 2 of the pilot projects that they would like to start going out to bid.
 - Project at APS solar farm facility still being developed.
 - Request for information submitted to APS for soil borings.
 - Question if feasible to cover ground with sheet of concrete or other surface treatment at APS site and skip solar panels.
 - Concept is to use panels as impervious surface because they already are.



UPPER VERDE RIVER WATERSHED PROTECTION COALITION TECHNICAL ADVISORY COMMITTEE (TAC) MEETING SUMMARY

Wednesday, April 14, 2010
Yavapai County Administration Building, Gladys Gardner Room
1015 Fair Street – Prescott, Arizona

- Will look at idea of carving and compacting swells.
- Original idea is to utilize already existing impervious panel.
- Using land for both energy production and water production.
- Discussed original issue of unique site to capture water for collection and recharge the aquifer.
- Developed site proof of concept to make an existing situation better by capturing water that would otherwise be lost.

- **Grant Opportunities and Funding Plan Updates**
 - Melody Reifsnnyder compiling three applications including NSF, WIFA, EPA Wetlands and Water Smart.
 - TAC members providing necessary documents.
 - Civiltec providing plans.
 - Building inventory of available resources for future grant application efforts.

- **TAC Meeting Schedule**
 - Review of new Board meeting schedule and impact on TAC meeting schedule.
 - Suggestion to have TAC meetings on off months on second Wednesday of months
 - Call additional TAC meetings as needed.
 - June, August, October, and December 2010 for TAC meetings.
 - Meetings just for grant project design may be needed.
 - Website TAC meeting calendar to be updated.
 - Designated time for discussion of Safe Yield Final Report at next meeting.
 - Public Service Announcement
 - More time to post agenda.

- **Water Conservation**
 - Announcement and handout of upcoming events where UVRWPC Water Smart materials will be distributed.
 - Basil seed planting cards with the Water Smart logo have been produced and ready for distribution.
 - Request for Coalition to pay for reimbursement of the cost of the planting cards.
 - Plant grow-sticks for local nurseries identify Water Smart plants as identified on Water Smart Card.
 - Request to reimburse cost for this year and plan to fund for next year's Water Conservation education efforts.
 - Board previously approved Water Conservation education budget and funding remains to cover Water Smart planting cards and plant grow-sticks.

- **Next Meeting Time / Location / Agenda Items**
 - The next TAC meeting will be on Wednesday, June 9, 2010 at 1:00 p.m. at the Yavapai County Administration Building, Gladys Gardner Room, 1015 Fair Street – Prescott, Arizona. The agenda will include feedback from ADWR and the 2010-2011 Coalition budget.

Upper Verde River Watershed Protection Coalition
a formal partnership between Yavapai County, The City of Prescott,
Towns of Prescott Valley and Chino Valley and Yavapai-Prescott Indian Tribe

Executive Board

Resolution Authorizing Submittal of a System Optimization Review Grant Application
Funding Opportunity No: R10SF80256

A resolution of the **EXECUTIVE BOARD OF THE UPPER VERDE RIVER WATERSHED PROTECTION COALITION** authorizing submittal of a grant application to the United States Department of Interior, Bureau of Reclamation requesting up to \$300,000 in federal funding to accomplish essential tasks associated with a System Optimization Review.

WHEREAS, **THE UPPER VERDE RIVER WATERSHED PROTECTION COALITION**, hereinafter known as "The Coalition," is desirous of partnering with the Bureau of Reclamation to forward its goals for improved water management; and

WHEREAS, The Coalition is desirous of seeking outside funding sources to support its goals and planned activities; and

WHEREAS, The Coalition has the professional expertise and financial ability to successfully implement the grant, including adherence to deadlines and reporting requirements;

NOW, THEREFORE, BE IT RESOLVED THAT the **EXECUTIVE BOARD OF THE UPPER VERDE RIVER WATERSHED PROTECTION COALITION** approves application to the United States Department of Interior, Bureau of Reclamation and authorizes members of the Technical Advisory and Project Director Edwin Muccillo with Burgess and Niple, Inc. to take all necessary steps to complete and submit said application.

Passed and adopted by the **EXECUTIVE BOARD OF THE UPPER VERDE RIVER WATERSHED PROTECTION COALITION** this 26TH day May 2010.

By: _____

Michael Flannery

Executive Board Chair

Upper Verde River Watershed Protection Coalition

Upper Verde River Watershed Protection Coalition
a formal partnership between Yavapai County, The City of Prescott,
Towns of Prescott Valley and Chino Valley and Yavapai-Prescott Indian Tribe

Executive Board

Resolution Authorizing Submittal of a Water and Energy Efficiency Grant Application
Funding Opportunity No: R10SF80157

A resolution of the **EXECUTIVE BOARD OF THE UPPER VERDE RIVER WATERSHED PROTECTION COALITION** authorizing submittal of a grant application to the United States Department of Interior, Bureau of Reclamation requesting \$300,000 in federal funding to construct planned recharge facilities.

WHEREAS, **THE UPPER VERDE RIVER WATERSHED PROTECTION COALITION**, hereinafter known as "The Coalition," is desirous of partnering with the Bureau of Reclamation to forward its goals for improved water management; and

WHEREAS, The Coalition is desirous of seeking outside funding sources to support its goals and planned activities; and

WHEREAS, The Coalition has the professional expertise and financial ability to successfully implement the grant, including adherence to deadlines and reporting requirements;

NOW, THEREFORE, BE IT RESOLVED THAT the **EXECUTIVE BOARD OF THE UPPER VERDE RIVER WATERSHED PROTECTION COALITION** approves application to the United States Department of Interior, Bureau of Reclamation and authorizes members of the Technical Advisory and Project Director Edwin Muccillo with Burgess and Niple, Inc. to take all necessary steps to complete and submit said application.

Passed and adopted by the **EXECUTIVE BOARD OF THE UPPER VERDE RIVER WATERSHED PROTECTION COALITION** this 26TH day May 2010.

By: _____

Michael Flannery

Executive Board Chair

Upper Verde River Watershed Protection Coalition