Spokane River TMDL Collaboration

Re-Use & Conservation Workgroup
Workgroup Status Report
5/26/2005 1:56:00 PM

Meeting Date: 26 May 2005
Member Attendance: (x)-present; (p)-by phone; (a)-alternate attended in place of

Here	Name	Sponsor	e-mail	Phone
x	Anderson, Gerry	Ecology	gand461@ecy.wa.gov	(509) 329-3400
	Blau, Pat	Petitioners	Pat.Blau@kaisertwd.com	(509) 927-6350
x	Brewer, Lloyd*	Petitioners	lbrewer@spokanecity.org	(509) 625-6968
x	Cupps, Kathy*	Ecology	kcup461@ecy.wa.gov	(360) 407-6452
p	Fox, Tom	Ecology		(206) 296-5279
	Hyatt, John	Petitioners	pwdir@city-of-airway-heights.org	(509) 244-5429
p	Kimball, Jim	Petitioners	JKimball@JUB.com	(208) 762-8787
	Koch, Richard	Ecology	rkoc461@ecy.wa.gov	(509) 329-3400
x	Krapas, Doug	Petitioners	Doug_Krapas@iepco.com	(509) 924-1911
x	Mellish, Lee	Petitioners	Sewerdoc@aol.com	(509) 922-9016
x	Rawls, Bruce	Petitioners	Brawls@spokanecounty.org	(509) 477-3604
p	Riley, Craig	Ecology	craig.riley@doh.wa.gov	
p	Smith, Doug	Petitioners	dsmith@libertylakewa.gov	
a	Triplett, Frank	Petitioners		
p	Werner, Terry	Petitioners	Twerner@postfallsidaho.org	(208) 777-9857

Audience Attendance Roster
Jeff Lilly (Triplett alternate), Jordana Griff (Sierra Club)

Meeting Summary:
I) Assignment Results:

1) Old agricultural water use records compiled by DOH & Ecology as part of the Creston Power Plant water reuse proposal have not yet been located.

2) Draft reuse potential customer datasheet – It was agreed that all dischargers would be requested to fill in the datasheet and those participating in this workgroup would report on progress at the next meeting. The datasheet is to be amended to include a place for a street address. It was further agreed that since the data needed is not readily available to all, those who have access to the data will gather it for others besides themselves.

3) Idaho data - Jim Kimball agreed to work the datasheets up for Idaho dischargers.

4) A link to the EPA reuse manual was e-mailed to the group. The link is EPA 2004 Guidelines: www.epa.gov/ord/NRMRL/pubs/625r04108/625r04108.htm
Also-Ecology Demonstration Projects: http://www.ecy.wa.gov/biblio/0010062.html

A copy of Ecology's case studies was brought to the meeting and it is expected to be available on Ecology's website in the near future.

5) Rainfall, Temperature, and Evapo-Transpiration data- The watershed planning document "Level One Technical Assessment for WRIA 55/57 contains data that may be useful in chapters 4 and 7. (www.spokanewatershed.org/projects/ASP/Level1Report.asp)

Bruce Rawls pointed out that useful information was included in the County's Wastewater Facilities Plan, especially section 5, pages 5-17 (see links below).
www.spokanecounty.org/utilities/RptDoc/fwwfp/FFP%2005%20Effluent%20Use%20Alternatives.pdf

www.spokanecounty.org/utilities/RptDoc/fwwfp/FFP%2004%20Demand%20Management.pdf

6) Question 3 clarification

It was noted that the question had changed slightly and the need for clarification was reviewed. Clarification will be sought from the Steering Committee.

7) GIS mapping

Examples of mapping of concentric rings were brought for discussion purposes. It was agreed that the emphasis for now would be on the data collection as discussed under number 2 above. It is expected that the data once collected can be used in a GIS database mapping system.

Notes on Status of Fundamental Questions:

1. Define concentric rings from each existing and proposed treatment plant to establish a range of distances for re-use of treated municipal wastewater? Answer the question, "What is the total quantity of re-use opportunities within those concentric rings for re-use in agricultural, commercial, industrial, landscaping, aquifer recharge and golf-course applications, during the period April 15 to Sept. 30?"
Question for Steering Committee: We believe this should be April 1 to October 31. Please confirm.

Agreement was reached on a preliminary data collection instrument for re-use opportunities. Post Falls, Spokane County (Wastewater Facilities Plan see above link), and City of Spokane (Wastewater Facilities Plan -Appendix I) all gave reference to existing studies that have looked at reuse opportunities.

A water use of 100,000 gallons a day was identified as a preliminary standard in identifying potential reuse candidates.

2. Estimate the phosphorus reduction that can be attributed to re-use of municipal wastewater assuming reasonable opportunities are captured over the next 20 year period.
Question for Steering Committee: We believe this should be an estimate of flow reduction rather than phosphorus reduction. We are not sure how to estimate phosphorus reduction until we know what the concentrations will be discharged from the treatment facilities (technology workgroup). We can provide information on the flows diverted to water reuse so that phosphorus reduction could be calculated once treatment levels are defined. Please confirm.

3. What lessons from experience of other communities in arid climates are there in regard to timing and scale of implementing water re-use measures?
Question for Steering Committee: We have had some difficulty understanding the purpose of this question. Is it simply meant to document successes and barriers that other communities have had? If so, why does it specify arid climates (or in the other version – climates similar to Spokane)? Is there something more specific that we are trying to accomplish? Please clarify the goal.

Some existing case studies were reviewed. Boise, Salt Lake City, Denver, and Missoula were mentioned as Cities to check on, that may potentially be doing reuse now and might meet the criteria of having similar climates. Craig Riley pointed out that Missoula does not practice reclamation at this time but is in the process of piloting a poplar tree plantation. Montana regulations allow only crop irrigation at this time – nothing else.

4. What is a reasonable expectation for reduction in municipal wastewater influent flows from water conservation measures in the Spokane region?
Question for Steering Committee: No questions at this time.

Tom Fox agreed to make available a citation for a previous reference to achievable conservation goals. Particularly reference to a 30 to 35 gallon per capita day usage as achievable.

5. Is the cost estimate, prepared by the City of Spokane and Spokane County for land application of municipal wastewater accurate to within an engineering order of magnitude standard.
Question for Steering Committee: This question was deleted at the last full committee meeting but appeared in our starter packages. Is it deleted?

6. What is the order of magnitude cost for aquifer recharge alternatives given the analysis done in #1 above?
Question for Steering Committee: Question 6 is a new question that appeared in our starter packages and was added after the full committee meeting. Why are we specifically looking at cost for aquifer recharge alternatives vs. cost for any water reuse or conservation alternatives?

Topics for Next Meeting:

- Review responses from the Steering Committee
- Check status of potential reuse data collection
- Review data format for potential reuse opportunities

Next Meeting Time and Place:

7 June 9:30 am - 12 Spokane City Water Dept. Conference Rm.

914 E. North Foothills Drive

Note: The above meeting will be by phone primarily. The call in number will be e-mailed out ASAP. You are welcome to come to the above location to participate if you choose.

A second call in meeting may be scheduled on the 7th for the week of the 13th of June.

22 June 9:30 am - 12 Spokane City Water Dept. Conference Rm.
914 E. North Foothills Drive