

Well 8 Iron and Manganese Mitigation CAP Meeting
April 15, 2009

Attendees: Al Larson Water Utility Principal Engineer, Madeline Gotkowitz, Mary Jo Walters, Marlisa Kopenski Condon, Steve Klafka, Robert Hugo, Joe Grande Water Utility Water Quality Manager, Dan Melton from the Water Board.

- 7:04 Review of agenda and handouts; Introductions Al; all
- 7:07 Meeting time and location- Group is interested in meeting on the East Side. **Mary Jo will look into Goodman Center. Steve will contact Olbrich and Lowell.**
- 7:10 Review of the Public Participation Process
- We are voluntary stakeholders; Al is the Utility Project Manager
 - We make sure public is adequately informed and has plenty of opportunity for feedback. First thing—identify the public/community issues. Our group is advisory. Decisions are always made by the Water Board, which is made up of seven members appointed by Mayor for five-year terms. They make policy? decisions for water utility. Our group is here to make recommendations that may or may not be accepted by the Board.

Four Steps of this process. We are in step 1A. Establishing the project. The majority of the projects are identified in the Utility's Master Plan last updated in 2006. This project is a water quality project. (Additional note: this project was identified in a Water Board Resolution in January 2008.

Establishing the CAP. The Well 8 area has been identified to include the area from Yahara river North to Commercial jogs up Starkweather Creek; Walter to Fair Oaks.

Assignment: Review all documents, primarily scoping, public participation plan and communication plan and stakeholder list, page 1 of 3 in Communication Plan. Provide comments at the next meeting.

What does a CAP do?

- Communicates public goals, any issues, community values, preferences as it relates to this particular project.
- Assist w/ public meetings (informal) and hearings (legal forum before Water Board). We are required to have one of each for each phase.
- Work to ensure public has adequate access to project information.
- Report and make recommendations to board
- Participate in events
- Elect a spokesperson

If we move forward its called establishing the project, we make that recommendation to board and IF they decide to establish the project we move to phase 1B. Phase 1B is essentially evaluation of all different alternatives. In this phase we still provide input. A written report is produced at this stage. We review. We review stakeholder list again. We will constantly be evaluating communication process. This report presented at public meeting(s). At the end of this phase there is recommendation made for a preferred solution.

Phase 2: Site Selection.

Might not be required if recommendation is to rectify current site.

Role of CAP:

- Provide site selection criteria from the community

Steps: staff compiles list of potential sites, CAP reviews and provides feedback based on impact on community; public meetings; public hearing; decision point for the Board.

Phase 3: Final Design Configuration

Architectural stage. Other city boards have approval authority at this point too including Urban Design Commission.

The Wells

Well 29: Brand new well drilled in 2001 and put on line in July 2005. It has had iron and manganese issues and a filter is being installed.

Well 3: Abandoned in 2007. Located at 1st and E. Johnson. Well had elevated levels of iron and manganese and also Carbon Tetrachloride

Well 11: Behind Woodman's. Serves most of us on the CAP when Well 8 is out of service.

Showed us data for wells on iron and manganese

Might be higher on an interim basis due to precipitate in the pipes. Not a lot of research on the health impacts of long-term exposure to iron and manganese. .

MCL- can't exceed for potable use, legally enforceable

SMCL – secondary contaminant— established for nuisance contaminants. Iron and manganese have SMCL and are therefore not legally enforceable.

No statement anywhere by the Water Utility that says we will provide water below SMCL.

Have never said they would do it. Well 8 has likely exceeded SMCL for iron since the 40s. Hasn't crept up all that much, slightly in recent years. The number 300 ppb for manganese is a health advisory for lifetime consumption; 50 is SMCL. Unwritten goal of the Water Utility to improve the quality.

Four wells in the system (29, 8, 7, 10) have consistently exceeded SMCLs. Al's (or Water Utility?) recommendation to get filters. Board accepted it in January 2008. Filters not in place – except for Well 29. That is kind of where our project starts. Now it's time to really address the water quality issue.

7:51. Well 8 Pumping and Complaint History. Lots of complaints started in Jan 2005 (record keeping for complaints began in 2005?).

Only pumped four months in 2008. Same expected for 2009. Start in late June 2009.

People close to the well get 60-100% of our water from well 8 WHEN IT IS RUNNING.

This is changing. Have already closed valves at river. Won't flow across. Also reduced quantity of water coming from Well 8. Started Well 29 today. Cool thing on website where you can type in your address and see what well serves you. This is being updated and it should be ready by the end of the summer.

Iron more of a color problem than manganese.

Add chlorine and it becomes particulate as soon as it is hit with it.

Well 8 in in Olbrich Park. Built in 30s Building is constructed of Natural lannon (?)stone.

Too expensive now to use natural stone. Reservoir buried in the sledding hill. 150K gallons. Currently add chlorine and fluoride. Fluoride has been in the news recently and some people would like the Utility to stop adding fluoride.

7:59 Well 29 on N. Thompson headed toward Commercial. 400k gallons in resevoir.

Well 30. Moorland Rd near Waubesa (?)

All wells about same capacity. Reservoirs drive size of building.

Would have to add 40x 40 building to add filtration. So if done at 8 would expand building, doubling the size. Or could filter offsite. Sampled once a year for inorganics. Now done monthly for wells that exceed ½ the SMCL. High demand periods, sometime see increases, not consistent year to year or from same wells.

8:05

Alternatives in Scoping Document

1. Status Quo
2. Abandon and drill new there or on existing site. Process for Well 3 is having difficulty finding a suitable site in the developed area of the east Isthmus. Well 3 was at 1st and East Johnson. Well was abandoned. 2007.
3. Question: If you drill now, modern drilling techniques, drill deeper, casing would be installed deeper. no guarantee water will be better.
4. Who wrote these alternatives? AI based on 30 years of experience in water supply
5. What does complaint chart mean? Significant correlation between when the well runs and the complaints. Some spikes due to construction issues. One piece of evidence to suggest there is a problem. Many believe that for every call you get there are many more other unhappy people.
6. #3- look at other wells and draw from them. Probably not sufficient excess capacity for this to be feasible.
7. #4 – filtration. Just started well 29 today which is now filtered. Levels looking very, very good. Capital cost for filtration for well 8 is in the budget. July 11 open house at Well 29 filtration station.
8. Disinfect the well to control bacteria.
9. Regional filtration treatment
10. Dilute Well 8 water with other better water in the city. Then everyone has worse water (except those currently served by Well 8?).

8:30 Miscellany

- Have to organize a public meeting. When and where. Two weeks notice is necessary.
- Does community participation in meetings affect Board decisions? Yes.
- The hydraulics of the Madison system dictate that water tends to move east to west
- Dan Melton said we should each imagine being able to stand up at Lowell School and tell people what the problem is.

- Monday April 27th is the next meeting
- Can Joe and Dan join the circle for the next meetings?
- New process in place. We are guinea pigs. Neighborhood has to say there is a problem.
- Mary Jo would like the postcard mailing to be a different color. Pink or yellow. She would also like to know more about manganese.