



Mayor
Ron Holthusen

Councilors
Leith Hayes
Gary Hughes
Bill Kyle
Jim Ulrich

Notice

Water Plan Task Force Meeting (Agenda attached)

The City of Shady Cove Water Plan Task Force Committee will hold a meeting as follows:

Date: Wednesday, June 1, 2011
Time: 4:00 p.m.
Location: Shady Cove City Council Chamber
22451 Highway 62
Shady Cove, Oregon

Dated: 05/26/2011
Posted: 05/26/2011
Remove from posting: 06/02/2011

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Planning Department at (541) 878-2225. Notification 72 hours prior to the meeting will enable the City to make reasonable arrangements to ensure accessibility to the meeting (28 CFR 35.102-35.104 ADA Title II).

**Shady Cove
Water Plan Task Force
Meeting Agenda
Wednesday, June 1, 2011
4:00 p.m.
City Hall Council Chamber**

I Call to Order

A. Roll Call

II Announcements

A. Purpose of the Task Force: to evaluate the merits of two alternatives in the Water Master Plan, making recommendation to the City Council, and to lead in presenting a city-wide municipal water system to the community at large.

B. Public Comment will not be taken during Task Force meetings

III Approval of the May 23, 2011 Minutes

IV Presentations

A. Bill Pavlich, HGE Inc

V Action Items

VI General Discussions

A. Review specific Task Force questions / comments relative to the HGE Master Plan.

B. Review upcoming 3-week calendar of events

June 6, 2011: Brain-storming, develop pros & cons for each Alternative

June 13, 2011: Continue with brain-storming

June 20, 2011: Complete brain-storming and pros / cons lists

C. Any further business

VII Action Items for the next Task Force Meeting

A. Start brain-storming sessions. Develop "Pros / Cons" lists to help direct the Task Force to a recommendation to the City Council.

VIII Adjournment

***Next Task Force Meeting on Mon. June 6, 6:30 pm City Hall Council
Chambers***

Minutes of May 23, 2011 Water Task Force Meeting

- I. Meeting started at 6:30P

Present: Art, Daron, Dave, Elaine, Pat, Paul, Paula, and Joe
Absent: Don, Kate, and Phillip

- II Announcements:
It is confirmed to meeting with Bill Pavlich of HGE on 6/1/2011 and
Please note, the meeting start time is changed to 4P.

- III Minutes:
Correct spelling in V (Reports to Committee) in 5/16/2011 minutes to
Jen Woody. Minutes of May 16, 2011 approved.

- IV Presentations:
Joe Strahl, of Public Works Management, answered questions in
regards to Shady Cove Waterworks. See PWM presentation.
Committee members asked group and individual questions.

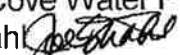
- V Action Items for future Task Force Meetings:
Wednesday, June 1, 2011 AT 4:00 PM, Meet with Bill Pavlich of HGE
Members keep track of information from this meeting with Joe Strahl
And the 6/1/2011 meeting, for use in future "brain storm" meetings.
Monday, June 6, 2011, Brain Storm
Monday, June 13, 2011, more Brain Storming
Monday, June 20, 2011, Start to prepare Committee presentation
Monday, June 27, 2011, Finish with Committee presentation

- VI Adjournment 8:03P

PWX Public Works
Management, Inc.

60 N. 4th Street
Central Point, OR 97502
(541) 665-5233 Phone
(541) 665-5266 Fax

May 23, 2011

To: Shady Cove Water Plan Task Force
From: Joe Strahl 

RE: Shady Cove Waterworks, LLC

Thank you for the opportunity to present the operational characteristics of the Shady Cove Waterworks (SCW) system. The following is provided as a written response to the questions provided last week by Danise Brakeman.

Basic Operation: The current operation of the system as it relates to potable water involves pumping river water through the intake screens and a raw water pipeline that basically follows the alignment of Sawyer Road to a WestTech microfiltration treatment plant. From the treatment plant water is delivered to the transmission mains and/or the 0.5 MG storage tank. There are a limited number of customers east of the storage tank.

Customers: The White Oak Ridge customers enjoy the use of the water for all domestic purposes and have fire protection through municipal style fire hydrants. There is one commercial water hauler, Got Water, that has permission to meter water at hydrants in White Oak Ridge for transport to customers in the area. Whispering Pines has an agreement with SCW for "surplus water" to fill a water storage tank. This water is used and paid for by Whispering Pines residents. Whispering Pines does not have fire protection provided by SCW.

A survey of the north part of Shady Cove indicates strong interest in receiving water from SCW. It is estimated that at least 300 residences in that part of town would like to have access to SCW. The limiting factors of providing this water are plant capacity and the current lack of distribution lines.

Plant Capacity: The current WestTech plant is sized to serve about 100 typical residential customers (90,000 gpd). It is expandable to 120,000 gpd. The treatment system is automated but requires a State certified operator to manage it. The microfiltration plant filters water through filter modules that are about 4' long by about 6" diameter. Impurities in the water are removed down to submicron size. A human hair is about 70 microns in diameter. Girardia cysts are about 4 microns in size. Viruses are generally not removed by filtration but are destroyed through chlorine disinfection. The filters are cleaned by back flushing with clean water.

The WestTech plant was purchased and installed primarily to produce water for the White Oak Ridge subdivision, a Premier West Bank asset. This plant was intended to be replaced with a 0.5 mgd Pall plant, which was delivered by the Pall Corporation and immediately placed into storage. The plant components are still in their original shipping containers and are located at an Acme West warehouse in White City. This plant could easily meet the needs of 500 residential customers.

Pall Plant: This plant is a microfiltration plant also. Pall has an outstanding reputation and their filters are considered state of the art. The building that was originally designed and purchased by SCW is also stored at the Acme West warehouse. It is capable of housing all filters, control equipment, pumps, etc for a 2.0 mgd facility (i.e. one that is capable meeting the needs of the residents of Shady Cove). The design and preliminary site work for the large plant installation ^{are} completed.

Pall is obligated as part of the original purchase contract to assure that the plant operates correctly at start up. Another payment of \$70,000 will be due to Pall at that time.

Pipelines: The water transmission and distribution lines installed so far are all ductile iron, class 54. These should provide a service life of 100 years or more. In addition to the ones installed, there is about \$50,000 worth of pipe and fittings remaining in stock. The transmission pipeline is 16" diameter, which is quite large and has lots of capacity to deliver water anywhere in the City.

Storage: The storage tank is 500,000 gallons with baffles inside the tank to assure mixing. This storage tank is one of three planned for the system that would be necessary to serve the entire City. Some locations in the City are at a higher elevation than can be served effectively with this tank. Additional storage facilities at higher elevations and/or pump stations would be required to serve these high elevation properties. The capacity of this tank would provide fire flow and domestic water for up to 500 customers.

Intake Screen and Pump: This part of the system was originally built to satisfy irrigation needs. The screen was modified in 2009 to meet NMFS "fish friendly" standards. It is a stationary screen that can be cleaned in place or pulled up using a hinged pipe connection for major maintenance or cleaning. The pump station is a simplex design, meaning that only one pump is in the station.

A standard municipal system should eventually contain a duplex intake pump station and a highly reliable intake. The intake currently being used has withstood a couple of major storm flows, probably due to a relatively protected location. A protective structure, trash rack and other facilities designed for long life should be planned and constructed at some point if SCW is purchased by the City as a start for a municipal water system.

The intake and pump station are located on property not owned by Premier West Bank. These facilities are on easements controlled by SCW. Major expansion of these facilities to meet municipal requirements should be constructed on City-owned property. A purchase of land for these facilities should be planned.

Energy Requirements: Water systems are generally big consumers of electrical power. SCW has taken steps to keep power consumption as low as possible by installing variable frequency drive units on the large pump motors.

Green energy can be used by purchasing Blue Sky or other green energy program power through Pacific Power. The cost is generally a bit higher but there are incentive and recognition programs available for cities that use these green programs to meet their power needs.

Water Rights: Sufficient water rights to deliver 0.5 mgd have been purchased from the Corps of Engineers from stored water at Lost Creek Lake. In addition, over 250 acres of land can be irrigated by water purchased from the Bureau of Reclamation from the same stored water source. Finally, there is a well capable of producing 75 gpm located next to the treatment facility. It is currently permitted for 30 days per year. The purpose of this well is to provide water during periods of high turbidity when treating water from the river is more costly. All of these water rights are permitted by Oregon Water Resources Department.

System Certification: The SCW system has an operating certificate from Oregon Health. It is operated in accordance with that certificate as a public water system and is subject to regular testing and reporting protocols.