

Oak Lodge Sanitary District
Master Plan Community Advisory Committee

MPCAC ASSIGNMENT

1. Advise the Oak Lodge Sanitary District Board on issues related to the implementation of the Master Plan and Value Planning processes, and Wastewater Treatment Facilities Pre-design.
2. Consult with the District on how best to inform and involve OLSD ratepayers, treatment plant neighbors and other interested parties. Assist OLSD to develop a *Public Outreach Plan* and a *Good Neighbor Plan* for the Oak Lodge wastewater treatment plant.
3. Serve as ambassadors for the Oak Lodge Sanitary District in the community. (OLSD staff and consultants will support these activities.)

Examples of MPCAC activities include:

- ✓ Share information with neighbors and friends.
- ✓ Participate in community briefings with local groups.
- ✓ Author letters to the editor or other commentary.

Meeting dates for 2008:

(All meetings held from 6:00 PM to 8:00 PM at the OLSD Admin. Office)

- April 29
- May 20
- June 9
- June 24
- (Summer off)
- September 30
- October 28
- (Holidays off)

VALUE PLANNING – CONCLUSIONS

Assignment: Develop technical or scheduling alternatives to the Oak Lodge Sanitary District Wastewater Master Plan that potentially will reduce its estimated cost and annual rate increases by identifying the minimum work needed to ensure the treatment plant is improved to a condition that is capable of meeting regulatory requirements with adequate treatment capacity and reliable operation while meeting District goals.

Three-day workshop held on February 11, 14 and 15. Meeting participants included wastewater planning, design and operation experts who had not participated in the Master Planning process – outside experts.

Value Planning Conclusions:

1. **Value planning participants concluded that two Master Plan criteria were limiting the ability of designer to meet the “minimizes project cost and rate impacts” value.**

Limiting Criteria:

- Do not use the plant’s vacant ground for new or additional facilities.
- Design the secondary process to treat two times the peak winter flow.

Recommendation:

Use a modest amount of the vacant ground and design the plant facilities to operate in different modes for winter and summer flows

Advantages:

- ✓ Significant cost savings
- ✓ Easier to operate
- ✓ More flexible treatment plant

2. **Value planning participants verified the Master Plan conclusion that the treatment plant is in poor condition and requires substantial work.**

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3. Seven actions were included that could reduce costs and annual rate increases.

Recommended Action	Advantages
Action #1: Rehabilitate the influent pump station rather than build a new one.	<ul style="list-style-type: none"> ✓ Increase safety ✓ Reduce cost ✓ Improve reliability
Action #2: Move the influent pump station electrical service into a new and separate building and install a new plant electrical system.	<ul style="list-style-type: none"> ✓ Increase safety ✓ Improve reliability
Action #3: Design with split flow to treat the small number of high flow events. Focus on the initial expenditures in the secondary process facilities and defer new primaries.	<ul style="list-style-type: none"> ✓ Improve peak flow performance ✓ Increase flexibility ✓ Reduce early rate increases ✓ Improve constructability ✓ Better plant layout
Action #4: Delay disinfection improvement to a later stage with a modest upgrade of the existing system.	<ul style="list-style-type: none"> ✓ Reduce early rate increases ✓ Utilize current investment
Action #5: Delay long-term solids improvements with interim hauling of dewatered biosolids for field application in eastern Oregon.	<ul style="list-style-type: none"> ✓ Reduce early rate increases ✓ Utilize current investment
Action #6: Defer construction of a new administration building.	<ul style="list-style-type: none"> ✓ Reduce early rate increases
Action #7: Improve odor and noise control at the plant.	<ul style="list-style-type: none"> ✓ Good neighborhood relations ✓ Comply with local regulations

4. Participants recommended the following problem-solving priorities to guide capital improvement scheduling:

- 1) Operator safety
- 2) Treatment process
- 3) Capacity
- 4) Operations/reliability
- 5) Odor and noise
- 6) Site amenities
- 7) Aesthetics / appearance

5. Results for the value planning show that “build all now” is not necessary. Work that should be included first includes:

Capital improvements:

- Rehabilitate the influent pump station
- New electrical building and site electrical system
- New headworks with fine screens and grit removal
- Improve liquid treatment considering split flow and additional biological treatment capacity as well as alternative primary treatment approaches

Operations:

- Interim chlorine disinfection upgrades with containment of chlorine cylinders
- Interim solids repair & maintenance with digester cleaning