

Oceanside Water District
P.O. Box 360
Oceanside, OR 97134
(503) 842-0370

September 15, 2015 Minutes

BOARD MEMBERS PRESENT:

Henry Wheeler-Chairman, Charles Ansorge-Vice Chair, Spike Klobas-Secretary, Paul Newman, Robert Garrigues.

STAFF PRESENT:

Alan Tuckey-Watermaster, David Nordman-Plant Operator, Julie Johnson-Assistant Office Manager.

1. CALL TO ORDER:

1:03 PM at the Cape Meares Community Center.

2. APPROVAL OF AGENDA:

The September 15, 2015 Board Meeting agenda was approved with the additions of 9. D. IFA Draw Down #9 in the amount of \$130,640 presented for Board Approval. 8. A. 5. Short Creek Intake location.

A motion was made by Mr. Garrigues to approve the amended agenda for September 15, 2015, motion Seconded by Ms. Klobas. Motion Passed.

3. GUESTS: Mike Henry – HBH

4. GUEST COMMENT:

5. APPROVAL OF MINUTES:

A. The August 18, 2015 Regular Board Meeting Minutes - **Motion by Mr. Newman, seconded by Mr. Ansorge to approve the August 18, 2015 Regular Board Meeting Minutes. Motion Passed.**

B. The September 9, 2015 Special Board Meeting Minutes- **Motion by Mr. Garrigues, seconded by Mr. Newman to approve the September 9, 2015 Special Board Meeting Minutes. Motion Passed.**

6. REVIEW OF FINANCIAL STATEMENT:

As of September 15, 2015. **Consensus to approve the Financial Statements as presented.**

7. REVIEW & APPROVE OF ACCOUNTS PAYABLE:

Accounts Payables: A new transaction list for the period of August 15, 2015 thru September 15, 2015 will be emailed to the Board on September 16, 2015 for review. Accounts Payables approval will be tabled until the October 20, Board Meeting.

8. ON-GOING BUSINESS:

A. HBH Update –

1. Oceanside water lines have been installed for the selected areas by Earth Works Excavating. Trench patching has started today in Oceanside in preparation for the paving. A final walk thru is scheduled for 9/17/15 at 10 a.m. Representatives from Till. Co. Road Dept., HBH, and OWD will do a final inspection of the streets and the paving that is to be done in the next week. Discussion followed on the other areas of concern in the Oceanside area that may need upgrades to the existing infrastructure. Additional piping will be held for the end of the project, allowing for the Water Treatment Plants and Intakes to be installed. The Camelot section of Oceanside is included in the planned piping upgrades for the project.
2. Rosenberg Loop paving was discussed, Earth Works has replaced pavers in a residential section that was disturbed. The pavers are not identical to the existing pavers, the homeowner would like the pavers to match. Earth Works has inquired at Rosenberg Building Supply for the homeowner's selection, at this

time the homeowner has not selected the pavers she requires. Earth Works plans to purchase the homeowners selection, and deliver them to the home for the homeowner to install.

3. Earth Works Pay Request #4 has been approved by HBH, and payment in the amount of \$83,009.19 will be issued.
4. Earth Works Change Order #6 was been approved at the September 9, 2015 Special Meeting. Installation of the new pipeline along Bayocean Road in Cape Meares is scheduled to begin next week, depending on the delivery of the required piping for this section. Board discussion on the entire District's piping infrastructure came to the agreement that the much needed replacement piping completed in the Oceanside Village will reduce the amount of leaks considerably. New fire hydrants and valves have been installed in Oceanside, creating a more manageable system overall. Radar Road's line is being replaced at this time, this area has experienced a great number of leaks in the past few years and the upgrade will be a big improvement for these homeowners. Due to easement issues, the neighborhood has formed an agreement to allow Advanced Excavating and OWD to access the area and replace the deteriorating infrastructure. Earth Works has completed work in the same area along Cape Meares Loop Road. HBH plans to analyze other areas needing piping upgrades after the two treatment plants are bid.
5. Treatment Plants and Reservoir-The additional Oceanside Reservoir along Cape Meares Loop Road will remain in the budget. The design of the treatment plant is in the works, WesTech has finished shop drawings and is working with the manufacture of the plant. Fish and Wildlife and Oregon Health Authority will need to approve the plans for the intake and fish screen. Intakes and Reservoir have been tabled until next year. The placement of the intake in Short Creek, and the concern of a landslide in the watershed was discussed by the Board. An infiltration gallery type of intake was brought before the Board by Mr. Newman. **A motion was made by Mr. Newman to request HBH to seek more information on the cost of an infiltration gallery intake for Short Creek. Motion failed to have a second.** Board consensus was that more information needs to be gathered on the cost of this type of intake, and to research the reasons why this has failed in other areas like ours. HBH has 95% of the original intake designed at this time. The need to acquire the rights to Rosenberg Water Rights was addressed. This would provide an alternate water source for Oceanside in the case of a landslide in the Short Creek area. Mr. Henry will proceed on obtaining these water rights.

B. Oceanside Clean Water Subcommittee – Paul Newman

1. See attached report from Mr. Newman to the Oceanside Clean Water Subcommittee that describes the results of the dye test conducted in the Short Creek Watershed on September 11, 2015.

C. OWD-Oregon.org – Charles Anson

1. Mr. Anson is continuing to monitor the OWD website, and will be posting the August Minutes for Public viewing after the meeting.

9. NEW BUSINESS:

- A. Advanced Excavating estimate for Radar Road in the amount of \$30,892 was ratified and approved formally by the Board. **A motion was made by Mr. Anson to accept Advanced Excavating's estimate in the amount of \$30,892 for the replacement of Radar Road's pipeline, motion was seconded by Mr. Newman. Motion Passed.**
- B. Pump Tech's quote for replacing the pump in the Oceanside Water Treatment Plant was ratified and approved by the Board. The quote in the amount of \$7,920 does not include installation, Mr. Tuckey will inquire on the cost to install, as it is a very heavy piece of equipment. **A motion was made by Mr. Anson to accept the quote in the amount of \$7,920 from Pump Tech, motion was seconded by Mr. Newman. Motion Passed.**
- C. IFA Draw Down #9 in the amount of \$130,640 was reviewed by the Board. **A motion was made by Mr. Garrigues to accept IFA Draw Down #9 in the amount of \$130,640, motion was seconded Mr. Anson. Motion Passed.**

10. DISTRICT REPORT: Mr. Nordman reviewed the attached report.

11. OFFICE REPORT: Mrs. Johnson reviewed the attached report.

12. CORRESPONDENCE: None.

13. COMMISSIONER COMMENTS:

- A. Mr. Newman plans to have guest speaker, Josh Seeds at the next Board Meeting for a clean water related Presentation.
 - B. The next Regular Board Meeting is set for October 20, 2015, at the Oceanside Community Club.
Consensus agreed on the next meeting date.
 - D. Mr. Newman agreed to sign checks on September 30, 2015, at Mr. Wheeler's home.
14. The Regular Meeting was adjourned at 3:02 p.m. **Motion made by Mr. Ansorge, motion was seconded by Ms. Klobas. Motion passed.**

Respectfully submitted by:

 *Spike Klobas Secretary*

Spike Klobas, Secretary

Minutes taken by Julia Johnson, Assistant Office Manager

Greetings:

Yesterday, our experimental task force mustered and we ran a time-of-transit experiment on Short Creek. The intent was to measure how long it takes a slug of water to travel from two different tributary sites within the watershed where logging roads cross the creek's tributaries, down to the pond near the raw water intake for the processing plant.

This experiment was several months in the making and involved several people making active contributions to the effort. Roger van Dyke of Stimson, Jim Young, Alan Tuckey, David Nordman, York Johnson of DEQ and TEP), Charles Ansorge, and two young folks from the ODF who showed up to help on the day of the measurement (whose names escape me at the moment).

The process essentially involved injecting a small amount (1/2 Oz.) of a non-toxic fluorescent dye-- Rhodamine WT, into the tributary creek, and then using a device called a "Sonde" down at the pond where the intake to the processing plant is, to detect the dye. Preliminary measurements of the creek's flow and velocity had been made several weeks prior to making this latest experiment. Based on those numbers, we estimated how much dye needed to be used to achieve a level down at the pond that was both high enough to be detected, and low enough to be below or at the visible level.

An estimate of the time based on the velocity average and the distance which was estimated by using a map measuring technique at 0.8mi, was about 20 mins.

Yesterday morning the team showed up and we deployed both up stream, and at the pond. David Nordman had filled all the water reservoirs the night before, and on the morning of the experiment, he closed the raw water intake to the processing plant, thus preventing any dye from entering the actual drinking water system. It will remain closed and reopen tomorrow.

At the pond, we used the boat to row across the pond and deploy the Sonde directly into the main current part of Short Creek as it entered the pond in order to be able to detect the first arrival of the dye.

The results are both bad news... And good. We waited with the Sonde running for over 3 hours and saw nothing. No dye was detected at the pond looking at the highest sensitivity of the Sonde which was 0.04-100 ppb. The dye was definitely dispersed as the upper portion of the tributary essentially turned bright pink/red. However, it was also observed that instead of quickly flowing down the tributary, the dye first stopped and pooled in a small pool about 50 feet below the injection site. It then slowly began to leak out of the pool and move down the stream. (One can imagine it encountered a series of such obstacles on its way down.)

So what did we conclude from these results? First, the flow through the creek system is not simple as we assumed. Apparently there are numerous obstacles and additional pools further down the system, each of which both delays, and dilutes the dye so that instead of minutes, it may be a day or longer before the dye reaches the bottom. Additionally it will most likely be significantly diluted by this process, along with the mixing with the main portion of Short Creek. Net result? It takes much longer for a slug of water to transit the watershed, and also there are numerous hydrological features which will evidently delay and probably stretch out the original short (in time and river length) slug, along with diluting it. You can picture it as originally consisting of a short high peak, which after passing through the creek becomes very spread out in time, and significantly diminished.

This conclusion if correct, and I believe it is, has implications for any potential herbicide contamination. It essentially means that any slug of contaminated water will be spread out and significantly diluted before it reaches the intake to the processing plant. The creek itself may in fact be providing a protection mechanism for our drinking water. If it takes many hours, and the potential contaminant is exposed to water, sunlight, organic compounds, and aerated. These natural processes will all due to the half-life of the herbicides, essentially degrade their harmful effects to the point where the contaminant level at the water intake to the processing plant is below the MCL.

Bottom line.... The hydrology of Short Creek is much more complicated than we thought. In fact this may work in our favor, and shows how important it is to leave pools, ponds and vegetation that are all natural features, in place.

Will we still do the herbicide testing experiment that is scheduled for next year? Yep, you betcha. It is important to have at least one science related "stake in the sand" in the whole issue of water quality. Now we know we will have to take individual water samples over many hours. These will then be sent out for analysis. In addition, York Johnson, who works for DEQ and TEP (Tillamook Estuaries Partners) has said he will contribute another technique-- POCIS. This is a process by which a device that is essentially a tube with a series of filters in it, is placed in the stream at the measurement point before the spraying, and then left for several days, to insure that herbicide in the stream will be caught and integrated onto the filters. The filters are then sent out to be analyzed.

I apologize for the length of this document, but I feel it is important that we all understand where we are, and I will of course keep everyone informed as we go forward. If you have questions or comments, please don't hesitate.

Regards,
Paul.

OCEANSIDE WATER DISTRICT

Monthly Operations Report

August 2015 ~September2015

	Gallons Used In August 2015	Gallons Used In August 2014	Percentage Change %
Cape Meares	870,800	604,900	+43
The Capes	648,000	529,000	+19
Oceanside	1,200,200	1,264,600	-6
Maxwell Mt.	240,700	766,900	-69
Camelot	605,000	401,000	+51
Totals	3,777,500	3,187,600	+16

Monthly Backwash Waste Total: 212,800 gals. Daily Average: 121,800 gals.

Treatment Plant: There were a few leaks found and repaired over the last month in the Camelot and Oceanside area. These leaks, as well as the increased population due to hot weather in valley, and the water used to pressure test, hypo chlorinate and flush the new water mains prior to bringing them online are reflected in the increases noted above. Chemical use and energy usage will also rise with the additional water demand, so we can expect some increases in operating costs. The good news is with all the kids back in school, less people coming out from the valley, and fewer leaks due to new pipes, we should soon to see a decrease in demand.

Dye Testing Short Creek: As part of the pesticide/herbicide infiltration study, dye was added to Short creek on 9/11/15 at 8:30 a.m. The test was called off at 12:00p.m.with no sign of the dye reaching the reservoir, Without knowing whether there are pools that it collected in, beaver dams slowing the flow or if it was absorbed or broken down by vegetation, there is no way of knowing when and if the dye would reach the reservoir.

Distribution System: Most of the Phase 1 distribution upgrades have been completed with the exception of a few hookups, jobsite cleanup and asphalt. Advanced excavation will be beginning Radar road on 9/16 and should be completed within 4 weeks. Earthworks will be starting the Bayocean road upgrades soon to precede the county's plan to repave the road.



Tie in on Tillamook



Paul and Charles dye testing Short Creek

OCEANSIDE WATER DISTRICT

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MEMO TO: OWD Board of Commissioners
FROM: Julia Johnson, Assistant Office Manager
SUBJECT: Office Report for September 15, 2015 Board meeting

OFFICE UPDATE:

1. Accounts are current, with the exception of the vacant lot in Cape Meares. SDC fees will be applied after March 2016, if the customer refuses to make payment.
2. The second quarter of our billing is being processed at this time, manual and radio reads have been submitted by Mr. Nordman & Mr. Tuckey, with the help of a temporary employee. Several radio meters were found to be installed by Earth Works at the time of meter reading, the paperwork for these meters have not been returned to the billing office at this time. Three of the radio meters would not pick up the signal, and I will be working on resolving these issues in the next couple of weeks. Bills are to be mailed 9/30/15.
3. Safe Personnel Online Training Classes have been completed by some staff and Board Members, attached is a copy of the classes and attendees.
4. Employee accruals-
David Nordman: 47.5 hours sick leave, 84 hours vacation accrued. 24.5 hours were paid out for Overtime. One Personal Day to use this year.
Alan Tuckey: 65 hours sick leave, 12.7 hours vacation accrued, 9 hours comp time accrued.
Julia Johnson: 35 hours of sick leave, and 11.70 hours of vacation accrued, and one personal day.

Respectfully submitted,
Julia Johnson, Assistant Office Manager