Executive Session: 7:30 pm, DLWID Office
ORS *192.660 Subsections 2a*

Quick Look:

- Vegetation Management
- Erosion Study
- Internship
- Hostettler Park

Devils Lake Water Improvement District

Post Office Box 974, 820 SE Hwy 101 Suite D, Lincoln City, Oregon 97367
Phone: (541) 994-5330 Fax: (541) 994-6040
www.DLWID.org

AGENDA 2011 July 7

Regular Meeting: 6 pm, DLWID Office

I. Swearing in of Board Members: Walker, Ward & Weldon 6:00
II. Board Elections: Chair, Vice, Sec/Treasurer 6:05
III. Minutes of the Previous Meetings
IV. Financial Report
V. Public Comment (Agenda Items, Please limit comments to 5 minutes per person)
VI. Unfinished Business (Agenda Support Item A)

a. The Devils Lake Plan
   i. Septic Tank Revitalization Program (Seth Lenaerts)
   ii. Save our Shoreline Campaign (Seth Lenaerts)
   iii. Vegetation Management
   iv. Sewer (Brian Green)
   v. The Café --- Union 50 (Brian Green)
b. Communications Report
   i. Devils Lake Revival
c. Safety Report
d. Thompson Creek
e. Erosion Study
f. Intern Report
g. Neotsu Public Beach – K Street

VII. New Business (Agenda Support Item B)

a. Petition: Hostettler Park, D River
b. Lab Equipment: DO meter

VIII. Non-agenda Items
IX. Public Comment (Non-agenda Items, Please limit comments to 5 minutes per person)
X. Board Comments & Announcements
XI. Adjournment

Executive Session, followed by reconvened Regular Session as warranted

a. Contract Review/Renewal

Meetings of DLWID are handicapped accessible under the ADA.
If special accommodations are needed, please contact the District Office at (541) 994-5330 prior to the meeting.

Staff Reports 2011-07-07
Robertson, Lenaerts & Lynch

I. Unfinished Business

(Agenda Support Item A)

a. The Devils Lake Plan

i. Septic Tank Revitalization Program (Seth Lenaerts)

State Action

The State legislature finished up in Salem on June 30. As far as legislation regarding septic systems is concerned we have been tracking two bills. One is HB 5022, which is DEQ's budget. A part of that bill includes Policy Option Package #120. HB 5022 has passed and was signed.

The second bill that we were tracking was SB 83, which would have created an unfunded revolving loan fund, and an account that could be used for operation/maintenance educational and awareness materials. Unfortunately this bill did not make it out of the Joint Ways and Means Committee.

Local Action

A number of bills in the Oregon Legislature were slowing down local action on the septic ordinance. Now that the session is over, I will recommence conversations with David Hawker and begin talking to City Councilors.

ii. Save our Shoreline Campaign (Seth Lenaerts)

Regatta Grounds:

The Regatta Grounds raingarden is doing well. I will continue to do regular maintenance on the site throughout the summer.

I will have a draft of the interpretive sign available at our July meeting. I apologize I intended on having cost estimates for the sign ready for this staff report. I will email board members a few different sign possibilities and cost estimates next early next week. We can then discuss those options at our July 7, meeting.

BLM Northwest Oregon Restoration Partnership

At our May meeting I gave an oral report on a meeting that Paul and I had attended with Salmon Drift Creek Watershed Council and Kurt Heckeroth of BLM. The meeting was about the Northwest Oregon Restoration Partnership, which is a regional source of native plant materials (See the section entitled **Bureau of Land Management** for further explanation)

As described below the partnership has expanded and will be evolving. I attended a reorganizational meeting on Thursday, June 30 with the stakeholder group.

The reason for the meeting is to find a way for the group to continue to be successful with limited aid from BLM. Up to now BLM has been the major player and leader of the group. BLM has funding to continue to be the leader of the program for two more years but their

ability to aid will be reduced after that. This meeting was an opportunity to discuss how the individual partners can work together to keep the program running.

Although our role in the partnership would be limited, I see no negatives to becoming a partner. Partners have no firm responsibilities and can participate as much or as little as they would like. The downfall to a group who does not participate is they are lower on the totem pole when it comes to distributing the plants.

Beyond plant materials, the District would also benefit by being associated with a very successful partnership. This association would allow us access to other organizations that are doing riparian work and maybe even volunteers. Additionally, if the District were to apply for grant money being part of the association would bolster any application.

The Memorandum of Understanding for the partnership has not yet been completed but unless the nature of the agreement changes, I recommend that we join the partnership. I will update the board when updates become available.

Bureau of Land Management

We were invited to attend a meeting with Kurt Heckeroth a botanist for Bureau of Land Management. Kurt runs a collaborative plant propagation program for NW Oregon. The current program covers everything north of Highway 18 and West of Interstate-5. The collaborative consists of over twenty agencies including, watershed councils, and soil and water conservation districts. The need for this program stemmed from these agencies need for large amounts of native plants and the burden it put on the agencies in both sourcing the plants and the cost.

At its most simple the collaborative partners collects seeds, give them to BLM to propagate, grows the plants to a point to assure viability, then, transports them back to the agencies who collected the seed to plant.

The program is funded through BLM and grants. The partnering agencies volunteer their time in seed collection and the planting and that time is used as a match for the grants BLM receives.

This appears to be a great deal for partners for several reasons, including BLM provides the following services:

- Trains the partners how to collect seed
- Verifies the seed genetics
- Picks up the seed
- Propagates and grows
- Delivers the plants
- Since it is a collaborative, partners can also access plants that they did not collect the seed for

The reason for the meeting is that the program will be changing in the next few years. For one, it is expanding; they want to include most of the Oregon coast. The other reason for the meeting is that the SDCWSC is also interested in creating a satellite nursery. How this would work is they would send the seed to main greenhouse, where they would propagate and then the seedlings would come back to satellite nursery for growth. The benefit here is outreach and community support.

This program could provide benefits to the District and we may want to participate

iii. **Vegetation Management:** At the last meeting I was asked to further develop plan for the Grass Carp Study and appeal process. We have been told by ODFW officials that we have a 50-50 shot at this appeal, and that there is no true way to predict how the Commission will rule, so it is prudent to be thorough and comprehensive throughout this process. Previously we identified the need to do a topographic survey, an aquatic vegetation survey, and an economic impact study. We made specific budget appropriations for these three. We also through the development of the Devils Lake Plan and from our previous application have been notified by ODFW that we need to conduct a scientific study relative to grass carp and native species. We also budgeted money for this, but they will likely be insufficient based on the comprehensive needs of the study. Additional issues raised last month were should the district conduct a nutrient budget ahead of appealing for the Grass Carp, and should the District seek a professional contract with a consultancy practiced at working within the processes of ODFW's Commission. Both I feel deserve attention and your consult. A third issue revolves around Coho which you may remember I mentioned early this last year, that Oregon Coast Coho were to be reevaluated as to their status relative to Endangered Species Act. That process was just completed, and the determination is that they will remain as listed as Threatened. This frankly makes the debate about grass carp a much wider issue, pulling in the federal services of NOAA Marine Fisheries (NMFS) and the US Fish and Wildlife Service (USFWS). All items are presented as estimates in time and cost.

Professional topographic survey**:** to be completed by licensed surveyor for entire perimeter of waterbody showing all points of water movement in and out. A topographic survey by state of federal agency acceptable if done within 5 years.

Cost estimate: $2,500 *Timeline: 1 month*

Aquatic Plant Survey: Survey and map the lake with GIS for all aquatic plants, all inlets and outlets and screen location. This would be valuable currently relative to the types of plants emerging, but would be likely out of date by the following growing season and would be needing to be redone.

Cost estimate: $25,000 *Timeline: 1 month (summer)*

Economic Impact Study: The District has contmeplated doing abnother economic Impact study relative to today's economic environemtn. A previous study was apparently completed by PADL, but we have yet to locate that document. The PADL secretary has recently moved and may now be able to devout some time to recioving that document if a copy still can be found. As a result it is warrented to wait on pursueing this other study. While an economic study may be important argument, the crux of the appeal lies inteh biological assessmnts that must be completed for the Endangered Species Act.

Cost estimate: $10,000 *Timeline: 1 month*

Scientific Study Outline: The previously submitted outline for a "Scientific study showing grass carp will not harm or potentially harm native species" must also be completed. This is a prerequisite of the appeal process. The study has been broken down into seven sections. Where I believe we can reasonably obtain the scientific literature to support a section, I suggest that we complete that section. Where expert/outside help is thought to be required it is so noted. The most significant section as noted last meeting will be Section IV, Impacts to

habitat of native wildlife. This will include but not be limited to Threatened Coho Salmon. Other fish, birds amphibians, invertebrates, mammals will also have to be considered and thus this is much larger of a scope than the Biological Assessment of Biological Evaluation identified below.

Section IV Cost estimate: $50,000-75,000 Timeline: 6-12 months

I. Disease/parasite issues -- *DLWID 1 month*
II. Interbreeding-hybridization – *DLWID 1 month*
III. Competition for habitat-food, water --- *DLWID 1 month*
IV. Impacts to habitat of native wildlife, Including Threatened Coho --- CONTRACT
V. Predation on native wildlife --- *DLWID 1 month*
VI. Feasibility and cost of capturing/eradicating --- *DLWID 1 month*
VII. Other factors as deemed by the commission ---- *DLWID 3 months*
    a. Water Quality
    b. Vegetation goals
    c. Waterbody Size limitation
    d. Floodplain
    e. Public Access
    f. Public Governmental Body
    g. Angling

<u>*Nutrient Study*</u>: The issue of a nutrient budget has surface for a number of years. Firstly we actually proposed doing one as part of the DEQ 319 grant we applied for. When we did not get funding for that the District decided to do just the database compilation which was funded. This was back in 2008 when this was first then discussed. Upon completion of the database which occurred in March 2011, it was anticipated that DEQ might on their own accord develop a nutrient model as part of the TMDL (Total Maximum Daily Load) process for Devils Lake. It is unclear as to if this will occur however as DEQ is restructuring how it handles TMDLs, and as result a nutrient budget tailored to Devils lake at this time is unlikely. Having spoken Dr. Mark Systma at PSU and others, and based on classic limnology it is in my estimation reasonable that a nutrient model would be appropriate for the District and a pretty sound investment. The data in a nutrient budget would provide a means to estimate the nutrient reduction targets that need to be in place. This would allow more directed restoration, and maybe for the Grass Carp issue a better forecast as to how and in what timeframe and to what extent the lake could be impaired again by weeds. Lake weeds and cyanobacteria are directly related to the amount of nutrients in the lake and entering the lake. Having a nutrient model capable of predicting the future of Devils Lake would be informative to the ODFW Commission relative to the potential need for additional Grass Carp. It would also serve the District in other means separate from the appeal process.

Cost estimate: $12,000 Timeline: 3 months

<u>*Consultant for ODFW Commission*</u>: I think based on the magnitude of the Grass Carp appeal relative to the District's priorities, an expert to lead the appeal process would be a wise investment. The legal and political process is where their expertise would be of greatest benefit. Initially some informational interviews might be appropriate from which the District could gleaned what future steps are deemed necessary, effectively providing a survey of how various consultants might approach the process. From this an RFP could be drawn up catered to the needs of the District. Given the implications of the Endangered Species Act greatly compounding the issue, their feedback would be of great value in the near term, with the bulk of the facilitation however coming at the end point of an appeal. Depending on the scope of an RFP the cost would be highly variable. Having just the consultant handle the appeal and

not any scientific studies is what is provided here. Through initial and formal consults I think we can hope to have a better understanding of the costs and time required for this appeal overall.

Cost Estimate: $15,000 Timeline: 3 months over duration of appeal

Coho and ESA: The Federal Government retained the listing of Oregon Coast Coho as Threatened under the Endangered Species Act. This relisting was announced June 17, 2011. (http://www.nwr.noaa.gov/ESA-Salmon-Listings/Salmon-Populations/Coho/COORC.cfm) The requirements of the federal agencies and the state agencies relative to anything involved with a species listed under the Endangered Species Act are going to be considerable. Timeframes for getting a permit cleared through these entities will be largely open ended, but at a minimum, we must plan on at least one year from the date of submission. This is based on information I received at the US Army Corps of Engineers (USACE) workshop I attended in May. The direct means that they would become involved maybe multifaceted, but we can count on that ODFW will need to get their approval before issuing a permit to introduce a non-native fish into a Coho Salmon Bearing Body of water. This will most likely require a Biological Assessments (BAs) if not certainly a Biological Evaluation (BE). Either is a significant document in which we would be describing our projects and the potential impacts to listed species. This would have a great amount of informational have overlap with the Scientific Study discussed below, but it would be a completely separate document with other requirements not potentially addressed otherwise. See NOAA guidelines document here: http://sero.nmfs.noaa.gov/pr/pdf/BA_guide_comboeh081105.pdf

Cost estimate as stand alone: $50,000-75,000 Timeline: 6-12 months
Cost estimate as add on to Scientific Study: $25,000 Timeline: 3-6 months

Note: Timelines do not include the review period

iv. **Sewer** (Brian Green)

v. **The Café --- Union 50** (Brian Green)

b. Communications Report (Seth Lenaerts)

Devils Lake Revival

Devils Lake Revival planning is under way. The event will be taking place Saturday, August 27 from 10am-2pm.

Tasks completed thus far:

- Stakeholder list for boothing and outreach has been created and we are informally contacting the groups now. I intend on calling all of them and then sending a follow up email
- Coast Guard Auxiliary has been confirmed
- Schooner Creek String Band has been booked
- Surfrider has been booked, Lisa will work with them to have an interactive display
- Talked with Oregon Surf Shop about having Stand Up Paddle demo boards available
- I would also like to have kayaks available for public use

- Local artists have been contacted to do activities with the 5-13 age group
- Food options have been debated, will have more information at the meeting
- Flyers and poster design will be done by Oregon Coast Today.

Having Lisa has been very helpful in this and the two of us will continue to plan this event.

c. **Safety Report:** I have had Lisa review and at the same time audit our Material Safety Data Sheets (MSDS) for all chemicals present in the lab. She is probably 90% through that process. This provides not only the background needed to safely handle and dispose of chemicals, but for the District allows a much needed annual audit/survey of the lab and the sheets themselves.

d. **Thompson Creek:** We have had effectivley five straight weeks of samples from lower Thompson Creek that have failed the state's bacteria limit for recreational water use. Last year we conducted a first attempt at tracking down those bacteria, and found that in the late summer under dry conditions, the only upstream source identifiable came from canines. We, as many of you will know, never received a bill for these analyses, so the actual cost of the project thus far is unknown, but is estimated to be around $6,000 to date. The District has budgeted funds to expand on these initial findings.

The expectation originally for this study was to see if we could in fact determine the source using the DNA methodology, then if so transfer that knowledge/skill set to other watersheds. What I am proposing is that we first develop the means of DNA analyses with a private lab, and then to begin a sampling protocol that would seek to further determine the sources of bacteria for Thomspon Creek as well as the D River and later Rock Creek as well. Given the fact that we have the equipment, most of the supplies and reagents, and sampling protocol, basically we will have incurred the DNA analyses costs which are yet to be determined. If the District gives the go ahead, I would begin immediately to move this forward with some sampling to occur as early as August.

e. **Erosion Study:** The field work was completed Thursday June 23, 2011, and the dam was installed the Wednesday prior. Lake level at the conclusion was 8.90, and as of Thursday June 30, 2011 was 9.18'. As to the study itself I feel it best to wait for the contractor's finding. Per our contract we can expect some draft inundation maps by August as well as a draft analysis and set of photo animations. Final reports and a Q&A are at this time scheduled for October.

f. **Intern Report:** (Lisa Lynch) Summary for 2011-06-20 to 2011-06-30

Trained and assisted with lab and field work. Field work in physical and chemical water sampling around the lake, measuring pH, temperature, DO, secchi disk depth, and conductivity, sampling for E.coli bacteria. Posted water quality results at sampling sites. Assisted with Lake Erosion Study, photographed individual parcels. Trained and ran turbidity tests. Read safety manual and worked on updating MSDS book. Read Cyano-Watch Sampling and Analysis Plan. Learned how to update water quality reports for website, postings, and press. Posted current bacteria results in excel and updated Dreamweaver GIF and TIF for website and media. Learned to do Winkler Titration for DO meter.

Attended Tech Team meeting with Salmon Driftcreek Watershed and septic hearing for lakeside property owner to learn what is occurring in the community and around the watershed. Did some weeding at Regatta Grounds Rain Garden.

Working on updating Cyano-Watch posting sheet. Wrote intern press release. Discussed / brainstormed to create new SOS brochure to "market" benefits of shoreline restoration to property owners, working on new brochure design. Brain stormed on Lake Festival, activities, food, goal, audience etc…. emailed about dragonboats, Surfrider, and the aquarium.

Currently working on making more revisions on Cyano-Watch Sheet, participating in Devils Lake Revival planning, designing SOS brochure, finishing MSDS book, and reading quality assurance plans.

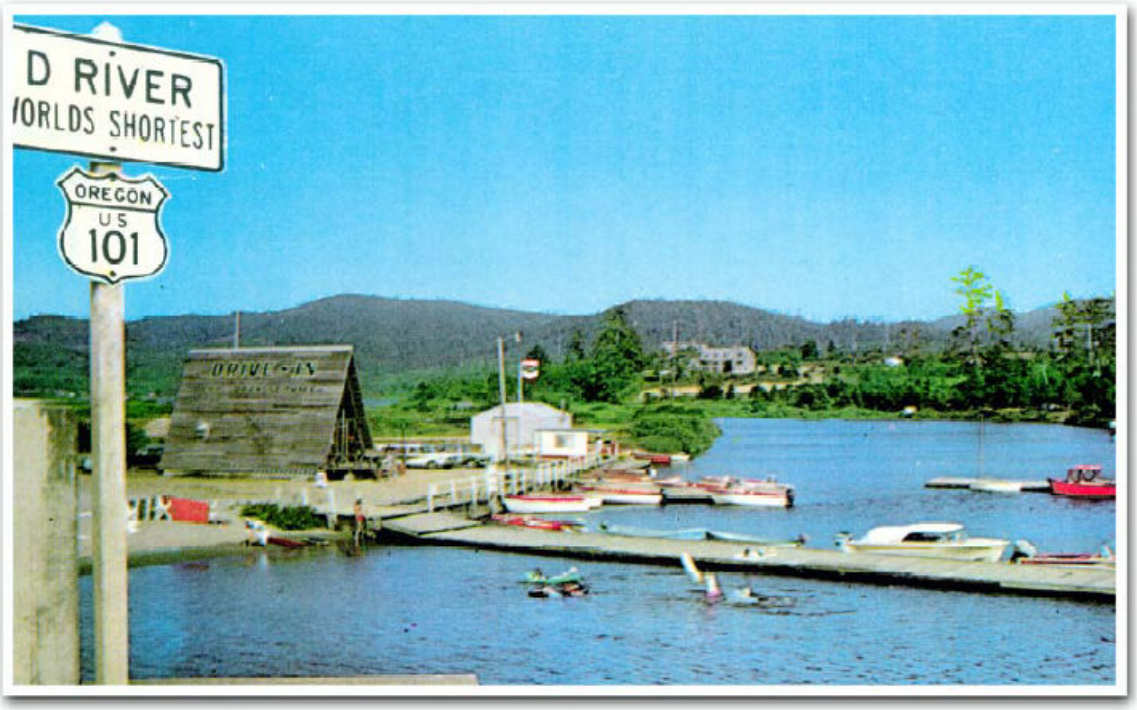
g. **Neotsu Public Beach – K Street:** I still need to meet with other local property owners regarding sign placement, but the site is being sampled regularly, and the data are being posted online and through the listserv. As soon as I can find the time to meet with others I will send a letter on behalf of the District to the County seeking permission to place the sign at the site. I understand a sign has already been assembled, so ultimate placement of the signboard would be fairly quick following signed permission from the county.

h. **Contract Review/Renewal:** Project Manager's contract has been continued from last month. An executive session is planned following new business. It is the District's intent to conduct that Executive Session, and then reconvene the regular session as necessary.

II. New Business (Agenda Support Item B)

a. **Petition: Hostettler Park, D River** We have received a petition circulated by John Forse, an area business person and director of the Nelscott Reef Big Wave Classic, (an international surf competition in Lincoln City) regarding the Hostettler Park at the D River. This is the area northeast of the Highway 101 Bridge and is a site where the District conducts water quality monitoring. Currently a gravel turnaround and picnic tables are the only real improvements on the property which goes by the name Hostettler Park. This parcel is adjacent to the D River Open Space to the east, and the Devils Lake State Park slightly further to the east which connects the Devils lake Campground effectively to the D River via an elevated interpretive trail through the wetland. The Hostettler Park itself is on property acquired by the Lincoln City Urban Renewal District as part of the Year 2000 Development Plan. This is also the area the District contributed $25,000 towards the purchase of the property and/or the adjacent open space back in the 2006. For this expenditure the District obtained a permanent easement on the Hostettler Park property for access to the dam.

The petition states, "***We, the undersigned residents and business owners of Lincoln City, support the redevelopment of the D River area at Hostettler Park that is currently underutilized. We would like to see the area become a popular recreational site as it has been in the past.***"



The Anchorage

The petitioner and his business partner Steve Harnack first brought this area to the attention of the board at the annual budget committee meeting May 9, 2011. Lincoln City Urban Renewal as part of their economic development plan has solicited business partnerships to create a first step towards revitalizing the area. The RFP issued by the Urban Renewal District reads as follows:

Lincoln City
Urban Renewal Agency

REQUEST FOR PROPOSALS
OPERATIONS & MAINTENANCE
-WATER SPORTS EQUIPMENT RENTALS - DELAKE DISTRICT-

The Urban Renewal Agency of Lincoln City requests proposals for: One year (Pilot Project) of the operations and maintenance of water sports equipment rentals on land located at Hostetler Park (1230 NE 1st Street) along the D River in the DeLake District of Lincoln City.

Background and Site

The site, Hostetler Park, received low impact improvements made by Urban Renewal in 2007 which included blackberry removal, clearing of footpaths, placement of a trash can, two picnic tables, and boulders for traffic control. The closest public restroom is across the highway in the State Parks' D River Wayside Parking Lot area.

Project Objective

The Agency is interested in receiving proposals for the operations and maintenance of water sports equipment rentals in the DeLake District. This 1-year Pilot Project includes the use of this Urban Renewal property for a private or non-profit entity to locate, operate and maintain a non-motorized water recreation equipment (i.e. kayaks) rental business to serve both local and tourism markets for summer 2011 season.

In addition to use of the property, Urban Renewal is prepared to partner on signage, utilities, and temporary restroom facilities. The property is in the R-C Zone (Recreation-Commercial Zone). The equipment would have to be brought to the site and removed daily.

Additional Background:

The area has for a longtime been used by area swimmers and recreationist. Note the picture shown below dating back to when the 101 bridge was made of wood. The ebb and flow of activities are best cataloged in the complete historical reference for the area done by Anne Hall of the North Lincoln County Historical Society, for the Lincoln City Urban Renewal Agency, from which these pictures were taken. Also see the "Anchorage", known to many as the A Frame which catered to beach goers and boaters as can been in the first picture above.

Parking in Delake

Swimmers on the east side of the D River Bridge

- Delake Historic Statement (Part I): http://www.lincolncity.org/uploads/urban%20renewal/UR%20Pages/Delake%20Context%20Statement%202009%20Part%201.pdf

- Delake Historic Statement (Part II): http://www.lincolncity.org/uploads/urban%20renewal/UR%20Pages/Delake%20Context%20Statement%202009%20Part%202.pdf

Swimming at D River

1950s

The areas has also previously been looked to by the District as a site for increasing the public's access to the lake, and in 1989 the District supported the creation of an Oregon Coastal Interpretative Center on the northbank of the river, to increase tourism, improve the economy, and to preserve the property for public use. The following is a copy of the District's resolution.

DEVILS LAKE WATER IMPROVEMENT DISTRICT

Post Office Box 974
Lincoln City, OR 97367
(503) 994-5330 / 994-3446

January 18, 1989

RESOLUTION 89-1

ENDORSEMENT OF OREGON COASTAL INTERPRETIVE CENTER

WHEREAS, the Devils Lake Water Improvement District was formed for the purpose of restoring and maintaining Devils Lake, and

WHEREAS, adopted goals of the Devils Lake Water Improvement District include increasing public access to Devils Lake, increasing recreational opportunities and improving the economy of North Lincoln County, and

WHEREAS, residents of the area have expressed by petition the desire to protect the north bank of the outlet of Devils Lake for public uses, and

WHEREAS, the board of directors of the Devils Lake Water Improvement District recognize the importance of tourism to the local economy, and

WHEREAS, the Devils Lake Water Improvement District has invested over $43,000 in dredging to improve the recreational potential of the area under considering, and

WHEREAS, the regional economic strategy known as the Oregon Tourism Alliance is developing the tourism potential of the entire northwestern region of the state including Lincoln County, and

WHEREAS, a major visitor attraction and information center near the main tourist route to the Coast will further develop tourism in the region, and

WHEREAS, the proposed Oregon Coastal Interpretive Center will help satisfy the goal of the Devils Lake Water Improvement District, preserve lands in accordance with public petitions, improve the local economy, and develop tourism potential in northwestern Oregon in accordance with the purposes of the Oregon Tourism Alliance,

NOW, THEREFORE, BE IT RESOLVED that the undersigned members of the Board of Directors endorse the development of the Oregon Coastal Interpretive Center at the outlet of Devils Lake, and

DEVILS LAKE WATER IMPROVEMENT DISTRICT
Post Office Box 974
Lincoln City, OR 97367
(503) 994-5330 / 994-3446

BE IT FURTHER RESOLVED, that the Lincoln County Commissioners and the board of directors of the Oregon Tourism Alliance be requested to support the Oregon Coastal Interpretive Center by way of direct participation and grant application for Fiscal Year 1989-90.

IN CONCLUSION, one or more members of the board of directors of the Devils Lake Water Improvement District are hereby directed to transmit REsolution 89-1 to the Lincoln County Commission in public hearing at the Lincoln County Courthouse on January 18, 1989.

Karl Ordelheide
Karl Ordelheide, Chairperson

(excused)
Al Rice, Vice-chairperson

Judith L Mace
Judith Mace, Secretary-treasurer

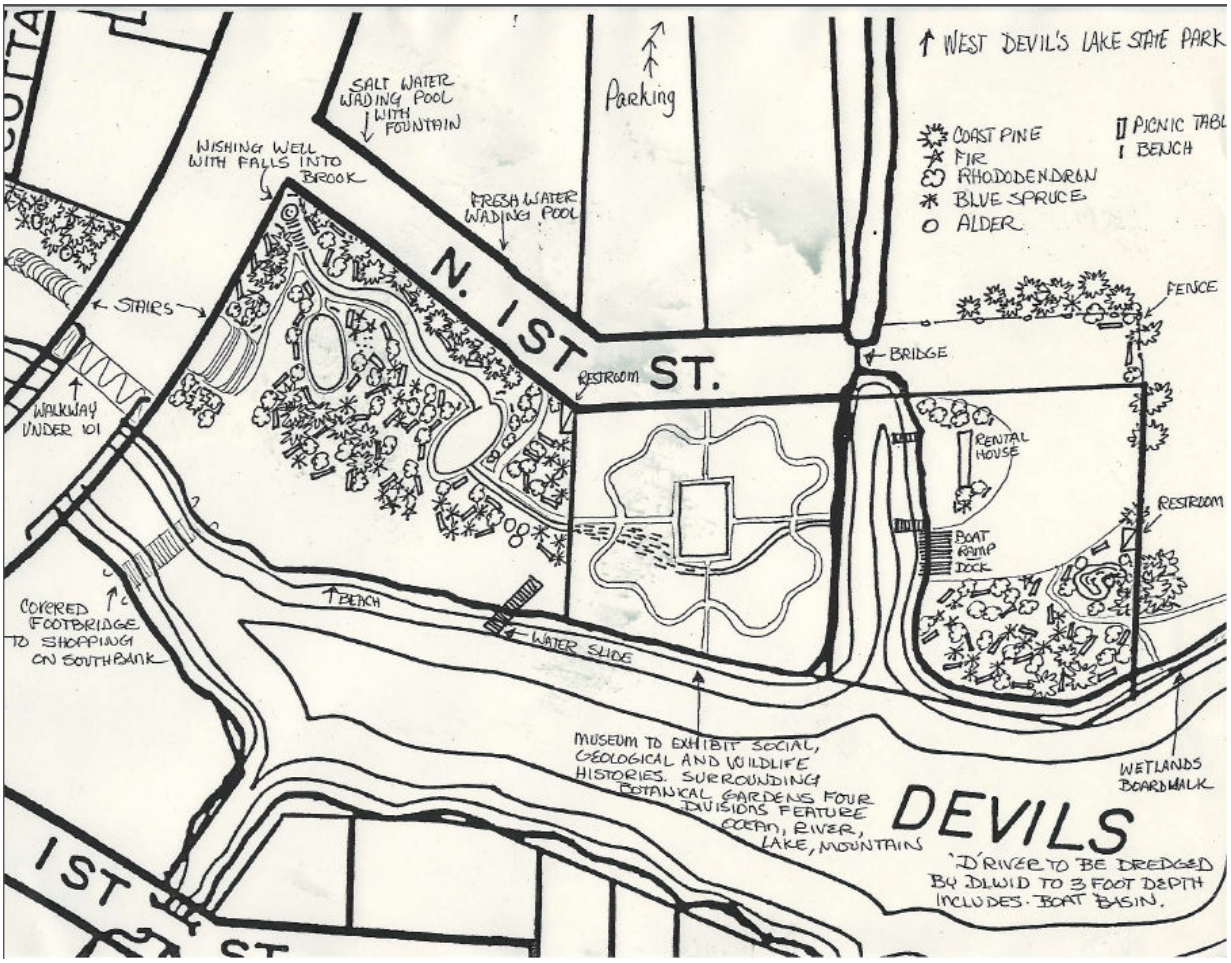
Gary Kreutz
Gary Kreutz, Board member

Noel Walker
Noel Walker, Board Member

Date: 3-8-89

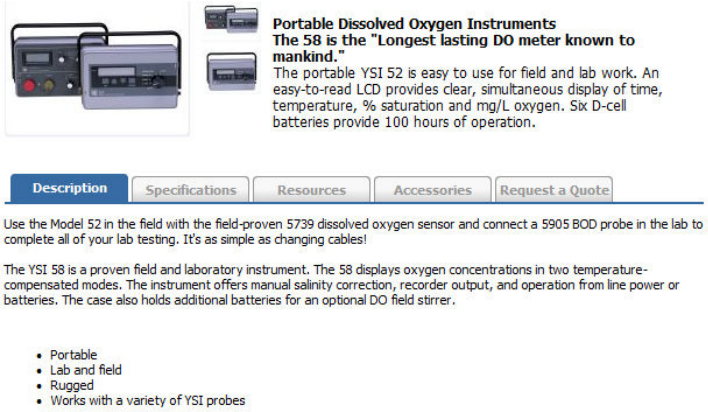
Available online: http://www.dlwid.org/Board/Resolutions/Resolutions_1989.PDF

The District later hired Bob Gibson as a consultant to help develop the project. Gibson worked with the property owners at the time which included the Oregon Department of Fish and Wildlife. Through the process plans were drawn up which saw the entire north bank developed on both sides of Highway 101. A portion of the drawings have been included here. They show the presence of a museum, a rental house, restrooms, and swimming areas. It also states that the District would maintain the area to a 3' depth including the boat launch to aid the area's development.



b. Lab Equipment: DO meter

The District has been able to extend the life of its Dissolved Oxygen Meter for a number of years with proper servicing and probe replacement. It has however become beyond the point where it is able to perform at a reasonable level and demands replacement. When the District recently bought the last replacement probe it was understood that this might be the last investment in the aging piece of equipment. The probe through could be used on the new machine, (same make and model), which is what I am suggesting. Cost for a replacement as researched from a number of online vendors previously is less than $2,000, starting at $1750. Monies can be spent from the Improvement Fund which allocated monies for a separate piece of equipment. Should the District seek both items, a resolution transferring the additional monies could be made later for the additional lab equipment.



Portable Dissolved Oxygen Instruments
The 58 is the "Longest lasting DO meter known to mankind."
The portable YSI 52 is easy to use for field and lab work. An easy-to-read LCD provides clear, simultaneous display of time, temperature, % saturation and mg/L oxygen. Six D-cell batteries provide 100 hours of operation.

Description | Specifications | Resources | Accessories | Request a Quote

Use the Model 52 in the field with the field-proven 5739 dissolved oxygen sensor and connect a 5905 BOD probe in the lab to complete all of your lab testing. It's as simple as changing cables!

The YSI 58 is a proven field and laboratory instrument. The 58 displays oxygen concentrations in two temperature-compensated modes. The instrument offers manual salinity correction, recorder output, and operation from line power or batteries. The case also holds additional batteries for an optional DO field stirrer.

- Portable
- Lab and field
- Rugged
- Works with a variety of YSI probes