



## HORSESHOE LAKE MANAGEMENT COMMITTEE AGENDA

5:00 P.M. - THURSDAY, AUGUST 13, 2015

Woodland Police Station - Council Chambers

200 East Scott Avenue

Woodland, WA 98674

Call to Order

Citizen Communications for items NOT on the Agenda

Citizen Communications for items ON the Agenda

I. Approval of Minutes for **June 11, 2015** and **July 9, 2015**

II. Continued Business

A. Lake Update

- WA State Dept of Transportation
- WA Dept of Fish and Wildlife
- **Lake Tracking**

B. Budget

- **2015 Update**

C. Water Quality

- Milfoil
  - **Grass Carp Purchase**
- Centennial Grant Update (Hilarie Larson)
  - **NEW Sampling Plan**
- Quality Assurance Project Plan

III. New Business

A. **Contact List Update**

IV. Other

A. None

V. Adjourn - Next Meeting September 10, 2015 at 5:00 P.M.

**CITY OF WOODLAND**  
**HORSESHOE LAKE COMMITTEE MINUTES**  
**JUNE 11, 2015**

The regular meeting of the Horseshoe Lake Management Committee (HSLMC) was held on the above date, at the Woodland Police Station - Council Chambers, 200 East Scott Avenue, Woodland, WA 98674.

Chairman Tom Golik called the meeting to order at approximately 5:08 p.m. Roll call found the following:

**COMMITTEE MEMBERS:**

Tom Golik, Chairman  
Mike Curry (Absent)  
Bill Dunlap  
Terry Jones  
Francis Patnode (Absent)  
Scott Perry  
Pat Rychel  
Neil Van Horn

**MAYOR/COUNCIL/OTHER:**

None

**STAFF:**

Jody Bartkowski, Engineering Technician

**MINUTES**

The April 9, 2015 minutes were approved as corrected, Pat Rychel was absent. The March meeting was previously cancelled.

**CONTINUED BUSINESS**

- A. Pump and Lake Update.** Discussion was held regarding correspondence from Pacific Corp regarding water flow, Lewis River levels, and anticipated water shortages throughout the summer. Further discussion was held regarding pump numbers, screen cleanings, Lake level comparisons, lack of algae bloom in recent years, and recently visible algae.
- B. Water Quality & Sampling.** Staff reported that the Washington State Department of Fish and Wildlife (WDFW) survey was rescheduled and that they are checking on the status of outlet structure repairs.
- C. Centennial Grate Update.** Staff reported that comments regarding the probe purchase were forwarded to Cowlitz County. Discussion ensued regarding probe responses, proposing changes to the existing sampling plan, testing the Lewis River, and how to interpret the tests taken to date.
- D. Goals and Priorities.** Discussion ensued regarding the lack of participation, responses received, creation of a mission statement, municipal code language, attainable goals, funding sources, the Park and Recreation Plan update allowing for additional grant opportunities, use of the state bid list, and the lack of successful action relating to milfoil management and pollution control.

Chair Golik recapped historical discussions involving milfoil. Further discussion

included chemical application, week raking, and carp installation. Boardmember Perry will check on the carp delivery status and staff will check on the study performed by Smith Root.

E. **Vacancy.** Chair Golik welcomed Scott Perry as a new member.

F. **2015 Budget.** No discussion was held.

**NEW BUSINESS**

A. **Shoreline Master Program Update.** Discussion was held regarding status, public hearing comments, jurisdictions using the program, and Walt Church's concerns regarding pollution and drainage.

**OTHER**

A. **Milfoil Eradication.** Committee Member Dunlap spoke regarding the lack of progress being made towards eradicating milfoil. Open discussion was held regarding carp, harvesting, distributing data regarding methods for eradication, requesting outside opinions, a recent weed survey by Washington State, testing not combating milfoil, educating the public, aeration, agency support, proving the problem, reactions due to the Alum treatment, lake depth, chlorophyll A, and milfoil combined with bacteria.

**ADJOURNMENT**

The meeting was adjourned at approximately 7:10 p.m. The next regular meeting will be held Thursday, July 9, 2015, at 5:00 p.m. at the Woodland Police Station - Council Chambers, 200 East Scott Avenue, Woodland WA 98674.

\_\_\_\_\_  
Tom Golik - Chairman

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jody Bartkowski - Secretary

\_\_\_\_\_  
Date

**CITY OF WOODLAND**  
**HORSESHOE LAKE COMMITTEE MINUTES**  
**JULY 9, 2015**

The regular meeting of the Horseshoe Lake Management Committee (HSLMC) was held on the above date, at the Woodland Police Station - Council Chambers, 200 East Scott Avenue, Woodland, WA 98674.

Chairman Tom Golik called the meeting to order at approximately 5:06 p.m. Roll call found the following:

**COMMITTEE MEMBERS:**

Tom Golik, Chairman  
Mike Curry  
Bill Dunlap  
Terry Jones (Absent)  
Francis Patnode (Absent)  
Scott Perry  
Pat Rychel  
Neil Van Horn

**MAYOR/COUNCIL/OTHER:**

Hilarie Larson, Cowlitz County Health

**STAFF:**

Jody Bartkowski, Engineering Technician

**MINUTES**

Review of the June 11, 2015 minutes was postponed until August.

**CONTINUED BUSINESS**

- A. Pump and Lake Update.** Tom Golik gave a historical overview of lake operations. Discussion was held regarding stagnation, pump installation agreements, pump capacity, how the float system works, and Washington State Department of Transportation (WSDOT) responsibilities and scheduling. Further discussion was held regarding Washington State Department of Fish & Wildlife (WDFW) responsibilities, fish surveying, damages to the outlet structure, and outlet structure repairs.
- B. Water Quality & Sampling.** Staff presented lake tracking sheets and the most recent test results. Discussion ensued regarding allowable levels, goal levels, algae testing, test locations, and participation by the WDFW.
- C. Centennial Grate Update.** Hilary Larson, Cowlitz County Health Department, reported that a new Hydrolab was ordered and discussed procedures for operating it, circulated a copy of Silver Lakes Quality Assurance Project Plan (QAPP), explained changes made to Silver Lake's testing plan, and requested Committee input regarding Horseshoe Lake's QAPP.

Open discussion was held regarding recommended tests, new test sites, what the grant covers, algae testing by the Department of Ecology (DOE), seasonal testing, testing twice in the summer months, current testing data, historical testing data, and what we want to accomplish with various data sets.

Further discussion was held regarding milfoil, methods for controlling milfoil, grass carp placement, and budget.

- D. Goals and Priorities.** Discussion ensued regarding updates from last month, top priorities, stopping current testing, using remaining budget dollars for grass carp, chemicals, pending fish survey, raking, and transferring carp from Silver Lake.

*Committee Member Rychel made a motion to discontinue the current testing program immediately and continue with the new program using grant funds as soon as they become available (estimated to begin in third quarter). Committee Member Perry seconded the motion. Motion carried unanimously.*

*Committee Member Perry made a motion to use unexpended budget balances to purchase up to 100 more grass carp at \$25 per fish in an amount not to exceed \$2,500. Committee Member Rychel seconded the motion. Motion carried unanimously.*

- E. Smith Root.** Staff presented survey findings and discussed the results.

**NEW BUSINESS**

- A. Committee Memberships.** Discussion was held regarding the number of Committee Members, what constitutes a quorum, attendance, voting, and Woodland Municipal Code language. A decision was made to speak with Francis Patnode due to extended travel status if there was further interest in the position.

**OTHER**

- A. Shoreline Master Program Update.** Discussion was held regarding program adoption and following up on Walt Church's concerns presented in April.

**ADJOURNMENT**

The meeting was adjourned at approximately 6:55 p.m. The next regular meeting will be held Thursday, July 9, 2015, at 5:00 p.m. at the Woodland Police Station - Council Chambers, 200 East Scott Avenue, Woodland WA 98674.

\_\_\_\_\_  
Tom Golik - Chairman

\_\_\_\_\_  
Date

\_\_\_\_\_  
Jody Bartkowski - Secretary

\_\_\_\_\_  
Date

# WDFW UPDATE

Jody Bartkowski

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**From:** Kelsey, Stacie L (DFW) [Stacie.Kelsey@dfw.wa.gov]  
**Sent:** Monday, August 10, 2015 1:23 PM  
**To:** Jody Bartkowski  
**Subject:** Re: HSLMC Meeting Agenda Thursday

There are coho in there. Some were caught in June.

So that's a whole game changer now.

On Aug 10, 2015, at 1:21 PM, Jody Bartkowski <[bartkowskij@ci.woodland.wa.us](mailto:bartkowskij@ci.woodland.wa.us)> wrote:

Yikes. Ok, the County was asking because the idea of smolt and screens came up at our workgroup meeting last Friday. I'll tell them September.

Thanks!

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**From:** Kelsey, Stacie L (DFW) [<mailto:Stacie.Kelsey@dfw.wa.gov>]  
**Sent:** Monday, August 10, 2015 1:20 PM  
**To:** Jody Bartkowski  
**Subject:** Re: HSLMC Meeting Agenda Thursday

No my boss is on extended leave so I'm covering some of his duties now. Was not able to schedule it in.

On Aug 10, 2015, at 1:18 PM, Jody Bartkowski <[bartkowskij@ci.woodland.wa.us](mailto:bartkowskij@ci.woodland.wa.us)> wrote:

No survey in July then?



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**From:** Kelsey, Stacie L (DFW) [<mailto:Stacie.Kelsey@dfw.wa.gov>]  
**Sent:** Monday, August 10, 2015 1:17 PM  
**To:** Jody Bartkowski  
**Subject:** Re: HSLMC Meeting Agenda Thursday

I did but apparently I have to resubmit.

Fall surveys will begin first of September.



On Aug 10, 2015, at 1:14 PM, Jody Bartkowski <[bartkowskij@ci.woodland.wa.us](mailto:bartkowskij@ci.woodland.wa.us)> wrote:

Some progress. Didn't you already do the research?

What about the fish survey?

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**From:** Kelsey, Stacie L (DFW) [mailto:Stacie.Kelsey@dfw.wa.gov]  
**Sent:** Monday, August 10, 2015 12:54 PM  
**To:** Jody Bartkowski  
**Subject:** Re: HSLMC Meeting Agenda Thursday

They will be sending someone down to inspect the outlet and make done determinations on what needs to be done in the next 2-3 weeks.

I have to round up the historical info showing its our responsibility since they have no record.

On Aug 10, 2015, at 12:31 PM, Jody Bartkowski  
<[bartkowskij@ci.woodland.wa.us](mailto:bartkowskij@ci.woodland.wa.us)> wrote:

Hi Stacie -

I'm putting together another agenda. Do you have an update on the Fish Survey & Outlet Structure Repairs? Anything new we need to know, add to agenda, discuss??

Hope all is well!  
~JODY



Lowland Lakes by County

Find Species

## Horseshoe Lake

Lake & Species Info

Mapping

Horseshoe Lake was a part of the Lewis River until it was cut off from the river in 1940 during the construction of HWY 99. Water is pumped into the lake from a 16" culvert. The lake is managed as a catchable trout and warmwater species lake.

Located in the city of Woodland, with a year-round open fishing season. It is stocked with catchable-size Rainbow Trout, plus some larger rainbow broodstock and triploid Rainbow Trout.

Excess adult hatchery Steelhead are planted when available. A catch record card is not required to fish for or retain Steelhead in the lake and they count as part of the trout daily limit (five fish, with no more than two over 20 inches). Landlocked salmon rules allow anglers to take surplus hatchery salmon when available. Check the latest regulation pamphlet for more information.

The lake also supports populations of Largemouth Bass and a few other warmwater fish.

A city park provides ample fishable shoreline plus a public boat launch.

Sturgeon caught from this lake must abide by statewide regulations and be entered on the catch card with code "900".

Grass carp have been stocked in this lake. Fishing for or retaining grass carp is prohibited.



### Lake Information

Clerk County  
 Lake Acreage: 83.3  
 Elevation: 13 feet  
 Westside Washington

Lake Management Type  
 Mixed species - Trout emphasis

### Sport Fishing Regulations & Seasons

Emergency Rule Updates  
 Fishing closures and openings happen constantly throughout the year. The E-Rules keep you up-to-date.



### Locate this lake

This feature shows the general location of the selected body of water. Directions may not include routes to boat launches or other water access sites. Check below for access sites or read the description for specific access information. Please do not trespass on private property.

### Fishing Prospects Calendar

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bluegill	●	●	●	●	●	●	●	●	●	●	●	●
Brown bullhead	●	●	●	●	●	●	●	●	●	●	●	●
Brown trout	●	●	●	●	●	●	●	●	●	●	●	●
Rainbow trout	●	●	●	●	●	●	●	●	●	●	●	●

#### LEGEND

- Fishing Expectation: ● Excellent ● Good ● Fair ● Poor
- Type of Opportunity: ● Full month ● 1st half only ● 2nd half only ● No opportunity

### Species you might catch

- Black crappie
- Carp
- Coho salmon
- Crawfish
- Grass Carp
- Largemouth bass
- Northern pikeminnow
- Pumpkinseed
- Sculpin
- Steelhead
- Sucker, General
- Warmouth
- White crappie
- White sturgeon
- Yellow perch

### Two-Pole Fishing Allowed

### Access Sites / Boat Ramps on this Lake

#### Other Lake Access

- Horseshoe Lake Park (Cowlitz)

### Fish Plants & Stocking Reports

#### Annual Stocking Schedules

- Annual Statewide Hatchery Trout Stocking Plan

#### Weekly Stocking Reports

- Catchable Trout Plant Weekly Reports

**HORSESHOE LAKE TRACKING**  
**2015**

2015

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Aug-15	7.74	96°	0.00				Closed		
2-Aug-15	7.87	88°	0.00				Closed		
3-Aug-15	8.15	82°	0.00	-36	74°	6.5	Closed	55	
4-Aug-15	8.38	80°	0.00				Closed		
5-Aug-15	8.66	76°	0.00				Closed		
6-Aug-15	8.77	78°	0.00				Closed	Low river level at 7.04.	
7-Aug-15	9.00	85°	0.00				Closed		
8-Aug-15	9.93	86°	0.00				Closed		
9-Aug-15	9.81	92°	0.00	-48	73°	7	Closed		
10-Aug-15	9.20						Closed	Level projected.	
11-Aug-15	8.54						Closed	Level projected.	
12-Aug-15	7.48						Closed	Level projected.	
13-Aug-15	6.97						Closed	Level projected.	
14-Aug-15	7.01						Closed	Level projected.	
15-Aug-15	7.01						Closed	Level projected.	
16-Aug-15							Closed		
17-Aug-15							Closed		
18-Aug-15							Closed		
19-Aug-15							Closed		
20-Aug-15							Closed		

2014 low level -39 on 10/14

low river 7.2 on 10/9

high temp 76 on 8/4

## HORSESHOE LAKE TRACKING

**2015**

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Jul-15	8.25	93°	0.00				Closed		
2-Jul-15	8.17	95°	0.00				Closed	2,611	
3-Jul-15		91°	0.00				Closed		
4-Jul-15		95°	0.00				Closed		
5-Jul-15	8.40	101°	0.00				Closed		
6-Jul-15	8.80	91°	0.00	-16	76°	7.5	Closed	2,715	
7-Jul-15	9.31	85°	0.00				Closed		
8-Jul-15	9.62	86°	0.00				Closed		
9-Jul-15	9.78	83°	0.00				Closed		
10-Jul-15	10.19	82°	0.00				Closed	3,066 Screens cleaned.	
11-Jul-15	9.60	74°	0.00				Closed		
12-Jul-15	9.18	87°	0.00				Closed		
13-Jul-15	8.89	80°	0.00	-19	73°	6	Closed	3,368	
14-Jul-15		82°	0.00				Closed		
15-Jul-15		80°	0.00				Closed		
16-Jul-15		78°	0.00				Closed		
17-Jul-15		89°	0.00				Closed	3,254	
18-Jul-15		97°	0.00				Closed		
19-Jul-15		100°	0.00	-20	74°	6	Closed		
20-Jul-15	8.29	83°	0.00				Closed		
21-Jul-15	8.29	76°	0.00				Closed		
22-Jul-15	8.38	74°	0.00				Closed		
23-Jul-15	8.43	82°	0.00				Closed		
24-Jul-15	8.47	83°	0.00				Closed		
25-Jul-15	8.94	73°	0.16				Closed		
26-Jul-15	9.14	78°	0.18	-26	71°	6.5	Closed		
27-Jul-15	9.08	78°	0.00				Closed	90	
28-Jul-15	8.80	89°	0.00				Closed		
29-Jul-15	8.18	97°	0.00				Closed		
30-Jul-15	7.45	102°	0.00				Closed		
31-Jul-15	7.60	98°	0.00				Closed	130	

**HORSESHOE LAKE TRACKING**  
**2015**

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Jun-15	8.55	65°	0.64				Closed	3,219	
2-Jun-15	8.82	65°	0.41				Closed		
3-Jun-15	9.27	70°	0.03				Closed		
4-Jun-15		74°	0.00				Closed		
5-Jun-15		84°	0.00				Closed	3,264	
6-Jun-15	9.15	88°	0.00				Closed		
7-Jun-15	9.31	88°	0.00	-7	71°	8	Closed		
8-Jun-15	9.44	90°	0.00				Closed	2,935	
9-Jun-15		86°	0.00				Closed		
10-Jun-15		76°	0.00				Closed	2,443	Screens cleaned.
11-Jun-15		75°	0.00				Closed		
12-Jun-15	9.76	72°	0.00				Closed	3,090	
13-Jun-15	9.37	74°	0.00	-8	71°	8	Closed		
14-Jun-15	8.83	85°	0.00				Closed		
15-Jun-15	8.18	85°	0.00				Closed	2,688	
16-Jun-15	8.47	73°	0.00				Closed		
17-Jun-15	8.58	78°	0.00				Closed		
18-Jun-15	8.54	80°	0.00				Closed		
19-Jun-15	8.41	74°	0.00				Closed	2,630	Tested water quality; milfoil visible.
20-Jun-15	8.37	80°	0.00				Closed		
21-Jun-15	8.39	88°	0.00				Closed		
22-Jun-15	8.49	79°	0.00	-10	72°	8	Closed	2,579	
23-Jun-15	8.49	82°	0.00				Closed		
24-Jun-15	8.71	85°	0.00				Closed		
25-Jun-15	9.06	89°	0.00				Closed	2,150	Screens cleaned.
26-Jun-15	8.93	94°	0.00				Closed		
27-Jun-15		92°	0.00				Closed		
28-Jun-15		86°	0.00	-15	74°	8	Closed		
29-Jun-15		88°	0.00				Closed	2,915	
30-Jun-15	8.58	88°	0.00				Closed		

HORSESHOE LAKE TRACKING

2014

2014

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Oct-14		69°					Closed		
2-Oct-14		71°					Closed		
3-Oct-14		80°					Closed		
4-Oct-14	8.38	84°					Closed		
5-Oct-14	8.16	81°		-36	64°	6'6"	Closed	Water is murky, level going down, down....	
6-Oct-14	7.52	82°					Closed	3,179	
7-Oct-14	7.28	81°					Closed		
8-Oct-14	7.43	73°					Closed	Level projected.	
9-Oct-14	7.20	76°					Closed	Level projected.	
10-Oct-14	7.86	70°					Closed	589 Level projected; low GPM is correct.	
11-Oct-14	7.95	70°			66°	6'	Closed	Level projected.	
12-Oct-14	8.18	64°					Closed	Level projected.	
13-Oct-14	7.81	71°					Closed	2,954 Level projected.	
14-Oct-14	8.00	62°					Closed		
15-Oct-14	8.27	56°					Closed		
16-Oct-14		69°					Closed		
17-Oct-14		59°					Closed	2,641 Tested water quality.	
18-Oct-14		69°		-37	63°	5'	Closed	Level rising.	
19-Oct-14		72°					Closed		
20-Oct-14		63°					Closed	2,769	
21-Oct-14		60°					Closed		
22-Oct-14	8.09	58°					Closed		
23-Oct-14	9.83	60°					Closed		
24-Oct-14	10.92	55°					Closed	3,019	
25-Oct-14	11.32	63°					Closed		
26-Oct-14	11.45	54°		-35	58°	5'	Closed		
27-Oct-14	11.60	60°					Closed	2,962 Screens cleaned.	
28-Oct-14	11.45	58°					Closed		
29-Oct-14	11.68	62°					Closed		
30-Oct-14	12.61	61°					Closed		
31-Oct-14	12.79	57°					Closed	3,384	

## HORSESHOE LAKE TRACKING

2014

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Sep-14		81°					Closed		River gauge down.
2-Sep-14		74°		-17	75°	7.6"	Closed	99	River gauge down.
3-Sep-14		74°					Closed		River gauge down.
4-Sep-14	8.70	82°					Closed	101	Cleaned screens; left side stuck open 3-4'.
5-Sep-14	8.41	91°					Closed	0	
6-Sep-14	8.31	96°					Closed		
7-Sep-14	7.98	85°					Closed		
8-Sep-14	7.39	74°					Closed		Level projected.
9-Sep-14	7.37	78°					Closed		7.33 lowest at 10:00 AM.
10-Sep-14	7.39	76°					Closed		
11-Sep-14	7.54	77°		-24	71°	7'	Closed		
12-Sep-14	7.50	83°					Closed	2,600	
13-Sep-14	7.72	89°					Closed		
14-Sep-14	8.01	90°					Closed		
15-Sep-14	8.19	94°					Closed		
16-Sep-14	8.28	76°					Closed		
17-Sep-14	8.71	76°					Closed		
18-Sep-14	8.76	73°					Closed		
19-Sep-14	8.23	81°					Closed		Tested water quality.
20-Sep-14	7.84	91°		-33	71°	6'6"	Closed		
21-Sep-14	7.36	86°					Closed		
22-Sep-14	7.34	73°					Closed	0	
23-Sep-14	7.34	68°		-33	71°	6'6"	Closed		Last year level was -22".
24-Sep-14	7.50	66°					Closed		
25-Sep-14	7.52	69°					Closed		
26-Sep-14	7.60	69°					Closed	2,790	
27-Sep-14	7.62	71°		-33	68°	6'6"	Closed		Fall Fest weekend; excessive weed damage!
28-Sep-14		73°					Closed		
29-Sep-14		60°					Closed	2,734	
30-Sep-14		68°					Closed		Good weeds at Bill's shredded by Duck boat.

## HORSESHOE LAKE TRACKING 2014

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Aug-14	9.09	89°						Closed	
2-Aug-14	9.03	86°						Closed	Level projected 8/1 (vacation).
3-Aug-14	9.02	90°						Closed	Level projected 8/1 (vacation).
4-Aug-14	9.04	90°		-4	76°	8'		Closed	2,556 Screens cleaned; level proj 8/1 (vacation).
5-Aug-14	9.35	80°						Closed	Level projected 8/1 (vacation).
6-Aug-14	9.79	83°						Closed	Level projected 8/1 (vacation).
7-Aug-14	9.97	80°						Closed	Level projected 8/1 (vacation).
8-Aug-14	9.84	79°						Closed	2,956 Level projected 8/1 (vacation).
9-Aug-14	8.48	85°						Closed	
10-Aug-14	7.79	93°		-8	75°	8'		Closed	
11-Aug-14	8.00	98°						Closed	2,990
12-Aug-14	8.43	75°						Closed	
13-Aug-14	8.76	76°						Closed	Tested water quality.
14-Aug-14	9.19	80°						Closed	
15-Aug-14	9.24	79°						Closed	2,901
16-Aug-14	9.39	84°		-10	75°	8		Closed	
17-Aug-14	9.26	86°						Closed	
18-Aug-14	9.17	90°						Closed	
19-Aug-14	9.66	83°						Closed	2,972
20-Aug-14	9.37	75°						Closed	
21-Aug-14	8.85	80°						Closed	
22-Aug-14	8.67	81°						Closed	1,009
23-Aug-14	7.57	87°						Closed	
24-Aug-14	7.45	79°		-14	75°	7.5"		Closed	
25-Aug-14	7.49	89°						Closed	
26-Aug-14		92°						Closed	3,059 River gauge down.
27-Aug-14		88°						Closed	River gauge down.
28-Aug-14		8°						Closed	River gauge down.
29-Aug-14		76°						Closed	2,813 River gauge down.
30-Aug-14		74°						Closed	River gauge down.
31-Aug-14		76°						Closed	River gauge down.

2015 Expenditures  
 Account Number 101-000-000-576-80-49-20

# BUDGET

Description	Fiscal Description	Detail	Amount	Vendor Name	Transaction Date
Horseshoe Lake Management	2015		\$5,000.00		
Horseshoe Lake Management	2015 - February - First Half	12/14	\$351.75	BSK Associates ✓	2/2/2015
Horseshoe Lake Management	2015 - March - First Half	1/21/15	\$351.75	BSK Associates ✓	3/2/2015
Horseshoe Lake Management	2015 - April - First Half	2/13/15	\$435.00	BSK Associates ✓	3/31/2015
Horseshoe Lake Management	2015 - May - First Half	3/23/15	\$435.00	BSK Associates ✓	4/30/2015
Horseshoe Lake Management	2015 - June - First Half	4/23/15	\$480.00	BSK Associates ✓	6/1/2015
Horseshoe Lake Management	2015 - June - Second Half	5/15/15	\$435.00	BSK Associates ✓	6/30/2015
		6/19/15	\$480.00		

\$2,968.50 EXPENSE

Phos. 28.35 } x 5 = \$351.75  
 E Col: 42.00 }

Phos 45.00 } x 5 = \$435.00 + River Phos = \$480  
 E Col: 42.00 }

BALANCE \$2,031.50

# GRASS CARP

Dec.08.2014 02:35 AM Opaline Aqua Farm

1 208 495 2946

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101 576 80 49 20

7/8. Requires WDFW permit by State for 2015. Notify her of delivery date. *Jody*



Opaline Aqua Farm LLC  
8947 Fish Pond Lane  
Owens Hot Springs  
Idaho 83441

586461

CUSTOMER'S ORDER NO.		DEPARTMENT	DATE			
			DEC 8 2014			
NAME City of Woodlawn						
ADDRESS						
CITY, STATE, ZIP WOODLAWN WA.						
BOLD BY	CASH	C.O.D.	CHEQUE	CHE. ADVT.	MOBILE PNTD.	PAID OUT
QUANTITY	DESCRIPTION	PRICE	AMOUNT			
1	80 14" TRIPLION GRASS	25 <sup>00</sup>	2000	00		
2						
3	- (18-20" 2-3 weeks					
4	5-6 lbs +100					
5						
6	- No firm answer					
7						
8	-					
9						
10						
11						
12						
13						
14						
15	DELIVERY		100	00		
16						
17						
18			2100	00		
RECEIVED BY						
/						

KEEP THIS SLIP FOR REFERENCE

Bart Stepp 12/10/14 *gmb*

Update

7/9 Mtg  
7/30  
8/10

Per Scott - have 18-20", 2-3 weeks, 5-6 lbs, +100  
Committee - spend remaining balance for extras  
Talked w/ Farm - no firm delivery date  
Scott called again -

## HORSESHOE LAKE MANAGEMENT COMMITTEE

### Members

Tom Golik, Chair	360-225-7485		goliktom@yahoo.com	130 Vineyard View Drive	Woodland	WA	98674
Mike Curry	360-225-3138		mmsoccerfan@yahoo.com	120 South Pekin Road	Woodland	WA	98674
Bill Dunlap							
Terry Jones	360-225-9629		tjswimdad@aol.com	400 Lake Avenue	Woodland	WA	98674
Francis Patnode	360-225-3939		patnodes@teleport.com	334 Island Aire Drive	Woodland	WA	98674
Scott Perry		360-921-2306					
Pat Rychel	360-225-7232		prychel@pacifier.com	PO Box 293	Woodland	WA	98674
Neil Van Horn	360-225-7445		neilvh02@gmail.com	PO Box1852	Woodland	WA	98674

### Ex-Officio (Nonvoting) Members

Dept Transportation, SW Region							
Doug Ficco, Asst Regional Admin for Maint & Ops	360-905-2020		ficcod@wsdot.wa.gov	PO Box 1709	Vancouver	WA	98682
Gene Dotson, Region Wide Maint Supervisor	360-905-2200		dotsong@wsdot.wa.gov	PO Box 1709	Vancouver	WA	98682
Mike London	390-905-2206		londonm@wsdot.wa.gov	PO Box 1709	Vancouver	WA	98682
Dept Fish & Wildlife, Region 5							
John Weinheimer, Regional Biologist	360-906-6746		john.weinheimer@dfw.wa.gov	2108 Grand Boulevard	Vancouver	WA	98661
Stacie Kelsey, Scientific Technician 3	360-906-6706	360-601-1168	stacie.kelsey@dfw.wa.gov	2108 Grand Boulevard	Vancouver	WA	98661
Jim Byrne, Area Biologist	360-906-6751		james.byrne@dfw.wa.gov	2108 Grand Boulevard	Vancouver	WA	98661
Dept of Natural Resources, Pacific Cascade Region							
Denise Wilhelm, Aquatic Land Manager	360-740-6824		denise.wilhelm@dnr.wa.gov	PO Box 280	Castle Rock	WA	98611
Dept of Ecology, SW Region							
Ilboa Odum	360-690-7170		iodu461@ecy.wa.gov	2108 Grand Boulevard	Vancouver	WA	98661
Cowlitz County Health Department *							
Audrey Shaver, Environmental Health Specialist	360-414-5599 x 6440		shavera@co.cowlitz.wa.us	900 Ocean Beach Hwy, S	Longview	WA	98632
Clark County Public Health **							
Axel Swanson, Board of County Commissioners	360-397-2232		axel.swanson@clark.wa.gov	1300 Franklin Street	Vancouver	WA	98666
Cowlitz County							
Michael Karnofski, Board of County Commissioners	360-577-3020		karnofskim@co.cowlitz.wa.us	207 4th Avenue North	Kelso	WA	98626
Chris Bischoff, Environmental Health Unit Manager			bischoffc@co.cowlitz.wa.us	207 4th Avenue North	Kelso	WA	98626
Hilarie Larson	360-414-5599		larsonh@co.cowlitz.wa.us	207 4th Avenue North	Kelso	WA	98626
Cowlitz County Conservation District							
Darin Houpt, District Manager	360-425-1880		ccddmgr@teamelect.com	2125 8th Avenue	Longview	WA	98632

\*Cowlitz-Wahkiakum Health District - Dissolved about 12-years ago. Now both Cowlitz and Wahkiakum have their own health departments.

\*\*SW Washington Health District - Dissolved in 2002. Public Health is now a department of Clark County.

### Mayor / Council / Staff

Grover Laseke, Mayor	360-772-0371	360-225-9022	lasekeg@ci.woodland.wa.us				
VACANT, City Council Representative							
Bart Stepp, Public Works Director	360-225-7999	360-607-0968	steppb@ci.woodland.wa.us				
Jody Bartkowski, Engineering Tech.	360-225-7999	360-600-7252	bartkowskij@ci.woodland.wa.us				