I. Call to Order

II. Minute Approval - December 13, 2012

III. Continued Business
   A. Pump Update
      - Maintenance Log
      - River Levels
   B. Water Quality and Sampling
      - December Test Results
   C. Decoys/Wildlife
   D. Budget
      - 2012 Testing Expenses
   E. Goals & Priorities
   F. Public Education
      - Lake Contamination Flyer

IV. New Business
   A. None

V. Other
   A. Park Board Vacancy

VI. Adjourn - Next Meeting February 20, 2013 at 5:00 P.M.
CITY OF WOODLAND
HORSESHOE LAKE COMMITTEE MINUTES
DECEMBER 13, 2012

The regular meeting of the Horseshoe Lake Management Committee was held on the above date, at the Woodland Community Center, 782 Park Street, Woodland, WA 98674.

Chairman Tom Golik called the meeting to order at 5:05 p.m. Roll call found the following:

COMMITTEE MEMBERS:
Tom Golik, Chairman
Walt Church
Mike Curry
Terry Jones
Francis Patnode (Absent)
Pat Rychel (Absent)
Jeff Sullivan (Absent)
Neil Van Horn (Absent)

MAYOR/COUNCIL:
Grover Laseke, Mayor
Scott Perry, Councilmember

STAFF:
Jody Bartkowski, Secretary
Bart Stepp, Public Works Director

MINUTES
The November 8, 2012 minutes were approved as presented.

Mayor Laseke introduced Cowlitz County Commissioner Dan Misner.

CONTINUED BUSINESS

A. Lake Pump. Bart Stepp reported that the pump is on and running according to guidelines (50-minutes on, 10-minutes off). Discussion ensued regarding conflicting reports from those viewing the pump, testing phosphorous levels in the river, committee concerns that pumping capacity is not adequate, what is happening with the new pump design, the need for additional pumping in summer when the river is low, turning the pump off in winter, and contacting the Washington State Department of Transportation (WSDOT).

Councilmember Perry requested that the WSDOT be notified in writing that current pumping capacity is not adequate.

B. Water Quality & Sampling. Staff reported that the Washington State Department of Fish & Wildlife (WDFW) completed another round of testing on December 6th and that the results will be available next week. Further testing, is planned for the first full week in January and then again 2-3 weeks later. The Public Works Department will assist with testing at the Lake Pump.

A review was conducted of the draft field manual "Horseshoe Lake Water Quality Protocols". Mayor Grover Laseke will facilitate sending to the plan to Cowlitz and Clark Counties as necessary.

Commissioner Misner was brought up to date regarding water quality testing at Horseshoe Lake and then discussed the processes being used at Silver Lake, near Castle Rock and Toutle, WA.
Committee member Walt Church requested that everyone review the Horseshoe Lake Restoration Final Report, Appendix N - Aquatic Plant Control Contingency Plan.

C. Decoys/Wildlife. Committee members reported that this year's flock is smaller and seems to be concentrated in the playground area rather than near the skate park.

D. Budget. Staff reported that the 2013 budget was approved and that Stacie Kelsey, WDFW is providing information to purchase supplies from the funds left in the 2012 budget. Grover Laseke reported that Clark County has agreed fund the portion of water quality testing costs that we requested.

Commissioner Misner spoke regarding funding for Silver Lake testing. Funds are received by the flood control district based on the number of people living on the lake. The County's solid waste tipping fee was recently increased to help fund water quality countywide. Both Silver Lake and Horseshoe Lake will benefit from this when the revenue begins coming in.

Commissioner Misner cautioned the group to "not reinvent the wheel", to look at what others had done and follow suit. To remember that there is no finish line to water quality, that it is a continuing process. He discussed how one solved problem can lead to another. Grass carp were successful in removing the vegetation from Silver Lake, but now they need to be removed due to oxygen demands.

Discussion ensued regarding the pros and cons of relocating grass carp from Silver Lake to Horseshoe Lake. Commissioner Misner recapped the process they are going through to legally remove carp from Silver Lake and urged the Committee to further discuss the idea with WDFW. He believes that it could be successful and can be coordinated.

E. Goals & Priorities. Discussion ensued regarding pollution control at the east end of Horseshoe Lake near the Rolling Freedom State Park.

Commission member Walt Church moved to recommend to the City of Woodland Park Board/City that the skate board parking area be "Red Tagged", closed south of the Park Road until such time the parking area is brought up to City standards for storm water runoff to prevent further erosion and pollution of Horseshoe Lake.

Walt Church discussed the process that the cemetery district went through to update their parking area and holding the City responsible for standards that are set up in their regulations.

Commission member Mike Curry second the motion.

Public Works Director Bart Stepp reported that he visited the site with crew Leadman Dennis Ripp and that ditching and rock work will be done on the land side of the fence. This temporary, low cost solution will not require extensive work and permitting.

Open discussion was held regarding shorelines permitting, the use of Diking District equipment, land ownership by the Department of Natural Resources (DNR), vehicles parking at the edge of the water, launching small boats/canoes in this area, the contour of the parking lot, WDFW
recommendation for the placement of pea gravel to slow down the flow of oils, etc.

Bart Stepp reported that a Community Development Block Grant application was submitted for construction of a paved trail through Horseshoe Lake Park along the water's edge. If this grant is funded it will help solve the current drainage issues.

No quorum, no vote taken. If action is desired beyond what the Public Works Department has planned then this matter may be presented directly to City Council due to extensive work, costs, and permitting requirements.

Mayor Laseke and Chairman Tom Golik excused themselves from the meeting. Vice-Chair Walt Church assumed the role of Chairman.

F. Public Education. Scott Perry reported that Mrs. Nelson has taken on another project and is no longer available to assist with newspaper articles. Discussion ensued regarding making her an ex-officio (non-voting member) and inviting her to attend meetings if she becomes available in the future.

Commissioner Misner presented a flyer (and will provide a digital copy) that is distributed with flood control newsletters to educate the public with methods to prevent lake pollution. This flyer would take the place of the letter that has been sent to residences surrounding the Lake.

G. Department of Ecology (DOE) Aquatic Weeds Management Grant. Staff reported that the grant application was submitted and that information will be passed on as it becomes available.

OTHER

Other discussion included:

- Chemicals and the need for clarification of what is allowed and what is not;
- Looking into aeration;
- WDFW discouraging weed harvesting;
- Working relationships with WDFW;
- Sending an official letter to John Weinheimer at WDFW regarding relocation of Silver Lake grass carp;
- Keeping plan language open to allow for contingencies (for example, do testing 4-8 times vs. 8 times to limit problems with grants and why we are not following our proposed plans);
- Meeting jointly and working with the Silver Lake watershed group on grant applications, etc;
- Blue green algae becoming more prevalent; and
- The need to continue testing after the scope of a project ends.
ADJOURNMENT

The meeting was adjourned at approximately 6:45 p.m. The next regular meeting will be held Thursday, January 10, 2013, at 5:00 p.m. at the Woodland City Hall, 100 Davidson Avenue, Woodland WA 98674.

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Tom Golik - Chairman          Date

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Jody Bartkowski - Secretary   Date
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Forecasts for the Lewis River at Woodland are issued routinely year-round.
December 27, 2012

Stacie Kelsey
Inland Fish Program
Region 5 WDFW
Stacie.Kelsey@dfw.wa.gov

Dear Ms. Kelsey:

Enclosed is the laboratory report for the Horseshoe Lake water samples collected 12/06/12 and analyzed for total phosphorus. All results are intended to be considered in their entirety and AddyLab, LLC is not responsible for use of less than the complete report. Results apply only to the samples submitted to the laboratory for analysis.

If you have any questions, please give me a call. The reference number for this work is 12AL1821. Thank you for your business.

Sincerely,

Thomas Newman
Quality Manager
## Analytical Report

Client: WDFW  
Project: Horseshoe Lake  
Sample Matrix: Water  
Report Date: 12/27/12  
Reference #: 12AL1821  
Date Collected: 12/6/12  
Date Received: 12/6/12  
Collected By:  

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Definitions:

* Total Phosphorus analyzed at ESC  
µg/L microgram per liter  
MRL Method Reporting Limit  
ND Analyte Not Detected at or above the Method Detection Level  
J An estimate that is less than the MRL but greater than or equal to the Method Detection Level.  
MDL Method Detection Level – the minimum measurable concentration of a substance that can be reported with 99% confidence as being greater than zero.

Test results for pH, color, anions, except o-phosphorus, E. coli, coliform bacteria and turbidity conducted at AddyLab meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples. If you have questions regarding these results contact Thomas Newman, Quality Manager.

Reviewed By: [Signature]  
Date: 12/28/12
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### Matrix Spike

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<tr>
<th>Analyte</th>
<th>Units</th>
<th>MS Res</th>
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<th>TV</th>
<th>% Rec</th>
<th>Limit</th>
<th>Ref Samp</th>
<th>Batch</th>
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<tbody>
<tr>
<td>Phosphorus, Total</td>
<td>mg/l</td>
<td>0.0530</td>
<td>0.0140</td>
<td>.05</td>
<td>78.0*</td>
<td>90-110</td>
<td>L610855-01</td>
<td>WO628093</td>
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<tr>
<td>Phosphorus, Total</td>
<td>mg/l</td>
<td>2.34</td>
<td>2.90</td>
<td>.05</td>
<td>0*</td>
<td>90-110</td>
<td>L612224-01</td>
<td>WO629180</td>
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<th>Units</th>
<th>MSD</th>
<th>MS Ref</th>
<th>% Rec</th>
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<th>RPD</th>
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<td>Phosphorus, Total</td>
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<td>2.34</td>
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<td>90-110</td>
<td>0</td>
<td>20</td>
<td>L612224-01</td>
<td>WO629180</td>
</tr>
</tbody>
</table>

**Note:** Calculations are performed prior to rounding of reported values. Performance of this Analyte is outside of established criteria. For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'
### Chain of Custody Report

**Client/System Name:** Horse Shoe Lake  
**Report To:** Stacie Kelsey  
**Address or Email:** Stacie.Kelsey@dfw.wa.gov  
**Phone:** 260-691-1168  
**Fax:** 260-691-1168  
**Project Name:** WDFW - Horse Lake  
**Project Number:** 12AL1821

#### Requested Analyses

<table>
<thead>
<tr>
<th>Sampled By</th>
<th>CLIENT SAMPLE IDENTIFICATION</th>
<th>SAMPLING DATE/TIME</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>12-6-12 10:20</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>12-6-12 10:40</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>12-6-12 10:20</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>12-6-12 10:50</td>
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<tr>
<td>5</td>
<td>9</td>
<td>12-6-12 11:30</td>
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</tbody>
</table>

#### Matrix (W, S, O) & Cont.

- W
- S
- O

#### Sample Location/Comments

- Low Level  
- P/los

**Compliance:** WA OR System/PWS ID #:  
**DOH Source/Source ID #:**  
**Group (WA Only):** A B  
**Source Type:** Surface Well / Ground Water  
**Sample Taken:** Before Treatment  
**No Treatment**

**Relinquished By:**  
**Date:** 12-6-12  
**Company:**  
**Received By:**  
**Date:** 12-6-12  
**Time:** 11:00

#### Turnaround Request

- Organic & Inorganic Analyses:  
  - 10  
  - 7  
  - 5  
  - 4  
  - 3  
  - 2  
  - 1  
  - <1

- Petroleum Hydrocarbon Analyses:  
  - 5  
  - 4  
  - 3  
  - 2  
  - 1  
  - <1

*Turnaround Requests less than standard may incur Rush Charges.*

---

Page 4 of 4  
12 of 16  
COC REV 12/11
**INVOICE NUMBER**  8089462  
**DATE:**  12/31/2012  
**Page:**  1  
**TOTAL:**  $556.68

**Hach Company**
2207 Collections Center Drive
Chicago, IL  60693
Phone: (800) 227-4224

80894629  001142017  00000055668  123112

---

**DETACH HERE**

**INVOICE NO.**  8089462  
**DATE:**  12/31/2012  
**PURCHASE ORDER NUMBER:**  B Step 12272012111202  
**TERMS:**  Paid by Visa  
**FREIGHT:**  Prepay And Bill Customer  
**CARRIER:**  RPS-RPS**FedEx- -Ground  
**ACCOUNT:**  114201  
**REF. NO.:**  312452381-1

These commodities are sold, packaged, marked, and labeled for destinations in the United States. Exportation of these commodities may require special licensing, packaging, marking or labeling.

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<th>LN#</th>
<th>PRODUCT DESCRIPTION</th>
<th>ITEM NO.</th>
<th>QUANTITY</th>
<th>UNIT PRICE</th>
<th>EXT. PRICE</th>
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</table>

**PURCHASE AND ACCEPTANCE OF PRODUCT(S) SUBJECT TO HACH COMPANY'S TERMS AND CONDITIONS OF SALE, PUBLISHED ON HACH COMPANY'S WEBSITE AT WWW.HACH.COM/TERMS**

For order discrepancies or product exchanges please call 800-227-4224 or 970-669-3050 to obtain Return Authorization.  
FEDERAL TAX ID # 42-0704420

---

Have you ordered online?  
Order at WWW.HACH.COM
ORDER CONTACT:
BART STEPP
360-225-7999

Notes:

SUBTOTAL  478.93
FREIGHT CHARGES  37.95
TAX  39.80
INVOICE TOTAL  556.68

Invoice has been paid. Copy for your records.

Addy Lab Testing = 4 x $135 = $540.00
Hach Supplies =

556.68

$1,096.68  2012 Expense

PURCHASE AND ACCEPTANCE OF PRODUCT(S) SUBJECT TO HACH COMPANY’S TERMS AND CONDITIONS OF SALE,
PUBLISHED ON HACH COMPANY’S WEBSITE AT WWW.HACH.COM/TERMS

For order discrepancies or product exchanges please call 800-227-4224 or 970-669-3050 to obtain Return Authorization.

FEDERAL TAX ID # 42-0704420
HORSESHOE LAKE NEEDS YOU!
PHOSPHOROUS AND OTHER CONTAMINATES ADD
TO DECLINING WATER QUALITY

You may not live on waterfront property, but if there is a storm drain or ditch nearby, it's just like you do. Storm drains and ditches carry runoff water directly to the lake. Whatever waters leave your property run into the water. That includes fertilizer, grass clippings, pet waste, and even septic liquids from un-maintained septic systems. All of these are sources of phosphorous and other contaminants that carry unwanted nutrients into the lake and turn it green with algae.

Keeping your runoff clean keeps Horseshoe Lake clean!

REMOVE LEAVES FROM THE STREET
- Rake leaves, seeds, and grass clippings out of the street and gutter.
- Compost on site, bag for collection, or take to waste disposal depository.
- Never dump grass or yard clippings in the lake.

PREVENT EROSION
- Phosphorous attaches to soil. Keep soil from washing into the street or lake.

FERTILIZE THE LAWN, NOT THE LAKE
- Choose a zero-phosphorous fertilizer. The majority of Horseshoe Lake lawns are naturally high in phosphorous and will remain healthy without adding more.
- Sweep spilled fertilizer off of paved surfaces.
- Remember, compost and manure contain phosphorous too.

CLEAN UP AFTER PETS
- Scoop the poop! Pet waste contains phosphorous as well as harmful bacteria.
- DO NOT feed ducks, geese, or grass carp!

WASH YOUR CAR IN DIRT GRAVEL OR GRASS
- Grass and gravel filter the dirt and soap out of the water and keep dirty runoff out of storm drains and ditches. Don't worry, the soap won't hurt your lawn, but it will hurt the fish and water quality.
- You can make your own biodegradable car wash by mixing one cup of liquid dish washing detergent and 3/4 cup of powdered laundry detergent (each should be chlorine and phosphorous free and non-petroleum based) with three gallons of water.

CHECK-FIX-MAINTAIN YOUR SEPTIC SYSTEM
- If you are on a septic system, it is imperative to have it pumped as often as necessary. Unmanaged septic systems can leak potentially dangerous substances into the lake that can affect fish, humans, and pets. If you assume you septic system is working fine because you haven't had to pump it in years; chances are it's in need of maintenance and may be seeping into the lake.
- For information on how to properly maintain your septic system call Cowlitz County Building and Planning @ (360) 577-3052 or Clark County Public Health @ (360) 397-8000. Free seminars are available on how to properly maintain your septic system.

This message provided to you by coordinating partners that include:

*The City of Woodland, Cowlitz County, and Clark County.*
Press Release

The City of Woodland currently has a vacancy(s) on the Parks and Recreation Board. To qualify you must reside within the city limits of the City of Woodland. Meetings are held on the 3rd Wednesday of each month at 5:00 p.m. or as necessary. Selected candidate(s) shall be appointed for terms up to 4-years in length.

Interested persons may pick up an application packet at the City of Woodland Annex, 230 Davidson Avenue or download a copy from our website www.ci.woodland.wa.us. For questions, please call Jody Bartkowski at (360) 225-7999.

Please apply by 5:00 p.m., Thursday, January 24, 2013. Open until filled.

Publication: January 9, 2013 and January 16, 2013 – Classified Ad
January 9, 2013 and/or January 16, 2013 – Newspaper Article