

STEWARDSHIP PLAN

PART 2

Routine Maintenance of the Natural Reserves

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Written by: Rick Leary Date: _____

Revised by: New Document Date: NA

Reserves Chairman _____ Date: _____

REVISION HISTORY

Revision	Major Changes
0	Creation of Document by Rick Leary

1. General Recommendations

Routine maintenance of specific areas of the Natural Reserve needs to be performed every year to maintain the reserve, whether it be a culvert, coppicing Big Leaf Maples, or removing newly sprouted invasive plants. Once EarthCorps has done the major job of removing invasive plants and planting trees, shrubs, and groundcover, the area needs to be maintained by removing newly sprouted invasive plants until the planted native plants take hold and proliferate.

2. Annual Routine Maintenance Specific to each Reserve

Most of action items for each reserve are placed in the attached table. The table needs to be filled out each year to keep track of the progress.

One major issue that needs to be understood so that it is effectively implemented is Re-coppicing. Re-coppice the Big Leaf Maples in central Blue Heron Reserve and other reserves needs to be done routinely. **Coppicing** is a traditional method of woodland management which takes advantage of the fact that many trees take new growth from the stump or roots if cut down. In a coppiced wood, young tree stems are repeatedly cut down to near ground level. In subsequent growth years, many new shoots will emerge, and, after a number of years the coppiced tree is ready to be re-coppiced, and the cycle begins again. Because BL Maples can get very tall, it is important to cut several (not all) stems out of the stump every 2 to 3 years to manage the overall height. This will keep the BL Maples permanently at a young stage and control their height. See Addendum 1 and 2 for the City of Shoreline's agreement on maintenance of these Big Leaf Maples.

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Year: _____
Boeing Creek Reserve

Task	Date Performed
1. Rake or blow Big Leaf Maple leaves from the trail in late fall.	
1. Check all culverts under the trails to make sure that they are clear and flowing in the late fall.	
2. Re-dig the ditch parallel to the trail along seeps near the abandoned sewage plant. Leaves and accumulated debris need to be shoveled away.	
3. Re-dig the parallel ditch above the 11 steps on the steep grade where trail slumped in 2012. This area gets a lot of water in the winter months from several seeps that are above.	
4. The trail, particularly beyond the 11 steps. Needs to be weedwhacked to keep vegetation from hanging into trail. Consult with Gene Lewis for details.	

Bear Reserve

1. Trim Grass along the sides of the natural reserves trails in these reserves during the months of April, May June, July, and August. A gas mower or weed whacker can be used. This needs to be done approximately once per month.	
2. Remove sucker branching from Big Leaf Maple in May or June.	

Grouse Reserve

1. Trim Grass along the sides of the natural reserves trails in these reserves during the months of April, May June, July, and August. A gas mower or weed whacker can be used. This needs to be done approximately once per month.	
2. Remove sucker branching from Big Leaf Maple in May or June.	

Year: _____

Running Water Reserve

1. Trim Grass along the sides of the natural reserves trails in these reserves during the months of April, May June, July, and August. A gas mower or weed whacker can be used. This needs to be done approximately once per month.	
2. Remove sucker branching from Big Leaf Maple in May or June	

Eagle Reserve

1. Trim Grass along the sides of the natural reserves trails in these reserves during the months of April, May, June, July, and August. A weed whacker is only practical in Eagle Reserve. This needs to be done approximately once per month.	
2. Clean the three bridges using a hand rake once sometime between December and February after the leaves from the Big Leaf Maple and Alder have finished falling.	

Blue Heron Reserve

1. Trim Grass along the sides of the natural reserves trails in these reserves during the months of April, May, June, July, and August. A weed whacker is only practical tool for this in Blue Heron Reserve. This needs to be done approximately once per month.	
2. Clean the stairways on both sides of the cement bridge in lower Blue Heron using a hand rake once sometime between December and February once the leaves from the Big Leaf Maple and Alder have finished falling.	
3. Re-coppice the Big Leaf Maples in central Blue Heron Reserve. See Addendum 1 and 2 for further information on maintenance of these Big Leaf Maples.	

Coyote Reserve

There are now trails in Coyote Reserve. Therefore, routine maintenance is not required.

Addendum 1 Maintaining Specific Big Leaf Maple in Blue Heron as Coppiced

Pwd: Maintenance of Maple trees in Blue Heron Reserve imap://imap.googlemail.com:993/fetch>UID>/[Gmail]/IAReserves...

Subject: Fwd: Maintenance of Maple trees in Blue Heron Reserve
From: d.fosmire@comcast.net
Date: 8/20/2013 9:22 AM
To: Claire Russell <clairecreates@gmail.com>, Bruce Fisher <Bruce.Fisher@faa.gov>, Rick Leary <reserves@innisarden.com>

The list of maples from the reports includes 7512, 7513, 7515, 7516, 7517, 7518, 7660, 7661, 7663 on the east side of the creek and 7621-22, 7675-86 and 7693-99 on the west side of the creek.

From: "Kimberly Lehmborg" <klehmborg@shorelinewa.gov>
To: "d fosmire" <d.fosmire@comcast.net>
Cc: "Rick Leary" <reserves@innisarden.com>, "Shelley Towers" <sdinsno@yahoo.com>
Sent: Monday, November 19, 2012 1:16:54 PM
Subject: RE: Maintenance of Maple trees in Blue Heron Reserve

Mr. Fosmire:

Thanks for submitting the reports from the old file. I looked them over with my supervisor and he agreed that the maple trees were to be "maintained as coppiced trees," (although there was supposed to be replanting, which I assume was done as the inspection was signed off). Anyway, the maintenance may proceed without any further paperwork from the City.

Regards,

Kim Lehmborg
Associate Planner
17500 Midvale Ave N
Shoreline, WA 98133
206-801-2552

please help us to save resources and print only when necessary

From: d.fosmire@comcast.net [mailto:d.fosmire@comcast.net]
Sent: Friday, November 16, 2012 12:38 PM
To: Kimberly Lehmborg
Cc: Rick Leary; Shelley Towers
Subject: Re: Maintenance of Maple trees in Blue Heron Reserve

Ms. Lehmborg:

There should have been two reports attached to the permit. One from Mr. Gilles and one from Mr. Baker. Mr. Gilles report was a condition of the permit since it recommended the coppicing action with maintenance in lieu of removal and the required replanting. I will bring copies of the reports to you this afternoon. Will you be in the office today?

Invasive Stewardship Plan, Innis Arden Natural Reserves

Fwd: Maintenance of Maple trees in Blue Heron Reserve imap://imap.googlemail.com:993/fetch>UID>/[Gmail]/IAReserves...

From: "Kimberly Lehmborg" <klehmbor@shorelinewa.gov>
To: "d fosmire" <d.fosmire@comcast.net>
Cc: "Rick Leary" <reserves@innisarden.com>, "Shelley Towers" <sdtinsno@yahoo.com>
Sent: Friday, November 16, 2012 9:41:55 AM
Subject: RE: Maintenance of Maple trees in Blue Heron Reserve

Mr. Fosmire;

I pulled the mentioned permit out of archives and could not find an approved long-term maintenance plan. It looked to me like the permit was for one-time pruning with replanting. Nevertheless, since so much time has passed it would be prudent to re-evaluate the trees. If the trees are hazardous, a permit exemption and tree evaluation form completed by the arborist is required for each tree. If they are not hazardous we would have to evaluate the proposal under a new permit.

Please have the Board submit any supporting materials directly to the permit services desk so that they may be properly routed.

Thanks,

Kim Lehmborg
Associate Planner
17500 Midvale Ave N
Shoreline, WA 98133
206-801-2552

please help us to save resources and print only when necessary

From: d.fosmire@comcast.net [mailto:d.fosmire@comcast.net]
Sent: Thursday, November 15, 2012 10:27 AM
To: Kimberly Lehmborg
Cc: Leary, Rick; Shelley Towers
Subject: Re: Maintenance of Maple trees in Blue Heron Reserve

Dear Ms. Lehmborg,

As I mentioned to you at our last meeting, the maple trees of Blue Heron Reserve have been coppiced several times in the past. The most recent coppicing took place with permit # 105950 in 2004 under the review of Brian Gilles. The Club would like to perform maintenance on these coppiced trees to bring them into a safe condition which was the purpose of the 2004 permit. Shelley Towers has reviewed these trees and is recommending this ongoing maintenance to prevent the new growth from becoming hazardous. If you have any questions, you can contact her at 425 923-8375. Please contact the Club regarding this request for ongoing maintenance because it is the time of year the coppicing should be performed. Thank you.

David Fosmire

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Addendum 2 Defining Coppiced

Subject:Re: Fwd: RE: What does Coppice mean to you?
Date:Tue, 19 Mar 2013 13:16:22 -0700 (PDT)
From:Shelley Towers <sdtinsno@yahoo.com>
To:trichardleary@gmail.com <trichardleary@gmail.com>

Hi Rick

What I mean by coppicing is to cut to the ground or as close to it as practical or at least to the lowest previous cut. The intent is not to kill the tree but to reduce the hazardous condition of included bark and heavy end weight. This process will need to be repeated every 15 years or so. Which I think is a practical solution to the already damaged trees. I am open to suggestions here. Let me know how I can help.

From: T Richard Leary <trichardleary@gmail.com>;
To: Shelley Towers <sdtinsno@yahoo.com>;
Subject: Fwd: RE: What does Coppice mean to you?
Sent: Tue, Mar 19, 2013 4:34:59 PM

Hi Shelley,

In your reports on Blue Heron Reserve, you recommended re-coppicing several Big Leaf Maples. Almost all of these have been both coppiced and crown reduced (obviously at different times). When I had a tree company out to bid on the work, they asked me did a mean to have the cut to the ground (coppice) or crown reduced. What is your thinking on this so that I can do the proper thing?

Rick Leary

----- Original Message -----

Subject:RE: What does Coppice mean to you?
Date:Tue, 19 Mar 2013 09:29:43 -0700
From:Kimberly Lehmberg <klehmber@shorelinewa.gov>
To:T Richard Leary <trichardleary@gmail.com>

Hi Rick;

It sounds like you are referring to a recommendation for maintenance of these trees made by arborist Shelly Towers. She said they need to be "re-coppiced" to reduce hazard. You'll have to check with her as to what exactly she meant, but reducing hazard without removing the tree was what we were after.

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Invasive Stewardship Plan, Innis Arden Natural Reserves

Kim

-----Original Message-----

From: T Richard Leary [mailto:trichardleary@gmail.com]

Sent: Tuesday, March 19, 2013 9:05 AM

To: Kimberly Lehmborg

Subject: What does Coppice mean to you?

Hi Kimberly,

I had arborist Tim Watermann out yesterday to prepare a quote on the tree pruning that you approved earlier this year in Blue Heron Reserve. You approved that several of these trees be re-coppiced as recommended by the arborist. Several of these tree in question have been coppiced (cut close to the ground) and have also been topped (perhaps 15 to 20 feet up). Tim asked me if I really meant to have them re-coppiced (to the ground) or topped. I didn't know what to say.

All of these trees are Big Leaf Maple which seem to do well after being coppiced. When you originally worked with Dave Fosmire, what were you thinking?

Rick Leary

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