



Land Stewardship Grants

Year 1 Reports
2017-20 Funding Cycle

Introduction

In 2008, the Habitat Conservation Trust Foundation (HCTF) was awarded a \$9M endowment contribution from the Province of British Columbia to fund operations and maintenance activities on Conservation Lands. \$3M of the endowment was allocated for activities on private lands managed by non-profit organizations. The first intake of this program occurred in late 2016 and 12 grants were awarded to be used from April 2017 to March 2020. More information about this grant program is available [here](#). This document provides copies of all reports submitted for the 2017-18 fiscal year (Year 1 of 3). The following table lists all reports included in the following document. Note that financial reporting details are removed from the report for confidentiality purposes. If you have any questions about the Land Stewardship Grant program, please contact Christina Waddle, Conservation Specialist at 250-940-3011 or christina.waddle@hctf.ca.

2017-18 Land Stewardship Grant Reports submitted for Year 1

Project #	Project Name	Organization
1-647	Martha Warde Property	Nanaimo Area Land Trust
1-648	Parnassian Woods	Nanaimo Area Land Trust
1-649	Blackburn Nature Reserve	Salt Spring Island Conservancy
1-650	Cowichan Garry Oak Preserve	The Nature Conservancy of Canada
1-678	Settlement Lands	Denman Conservancy Association
2-605	Windebank	Fraser Valley Conservancy
4-548	Elk Valley Heritage Conservation Area	The Nature Conservancy of Canada
4-549	Dutch Creek Hoodoos	The Nature Conservancy of Canada
5-288	Elkin Ck Nature Preserve	Valhalla Foundation for Ecology
5-289	Scout Island	Williams Lake Field Naturalists
8-414	Quintal Floodplain	Ducks Unlimited Canada

1-647

Martha Warde Property



Land Stewardship Grant 2017-20

FINAL YEAR REPORT FORM

HCTF Project Number: _1-647

Please refer to the Land Stewardship Grant Final Year Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customized for your project based on your proposal.

1. PROJECT INFORMATION

Project/Property Name: Martha Warde Property

Project Leader Name: Paul Chapman

Name of Organization: Nanaimo & Area Land Trust

Date of Report: March 6th, 2018

Author of Report (if different than Project Leader): same as above

Name of Organization:

Contact Information: paul@nalt.bc.ca 250-714-1990

2. SUMMARY

Provide a general description of project work completed in the last year (500 words max).

A management plan for the ecological values of the Martha Warde property has been completed.

Please provide a general summary of overall project outcomes (500 words max).

The outcome is the Management Plan. Recommendations from the plan will direct NALT stewardship activities



Land Stewardship Grant 2017-20

FINAL YEAR REPORT FORM

3. LESSONS LEARNED

Describe any problems or challenges that arose and how you addressed them in order to proceed with the project. What have you learned that would be valuable to share with others that may be undertaking a similar project?

It takes a lot of dialogue with all parties to ensure your management plan will be well received.

4. COMMUNICATIONS

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

There are not a lot of outreach opportunities in the writing of a management plan. The residents were consulted in the making

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

Opportunities to communicate about HCTF will come during the promotion and implementation of the management plan.

Media Coverage: Provide a list of any articles or media coverage during the year.

Opportunities to communicate about HCTF will come during the promotion and implementation of the management plan.

5. PHOTOS



Land Stewardship Grant 2017-20

FINAL YEAR REPORT FORM

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description: MW Property, an image from the report showing the subject property.

Photo 2 File name and Photo Description: MW Report Cover, image of the Management Plan Cover.

Photo 3 File name and Photo Description: MW Wildlife Habitat, some words and images from the plan.

6. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Final Year Reporting Instructions for information on Capital Assets.


None

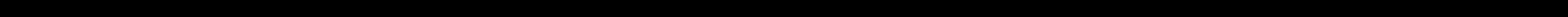
Provide any other information you wish to share with HCTF.

The creation of this management plan will be a key tool in directing NALT stewardship activities on the land and finding partnerships with community and school groups to follow through on recommendations.

7. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature	Date	Print Name
	March 6 th , 2018	Paul Chapman



Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities	Progress on this Activity in the past year (Yes/No)	Completed Activity Description	Actual Outcomes/Performance Indicators at Project End
Martha Warde Property	To target organizational resources to steward a 22 - acre property that features significant coastal Douglas fir habitat and riparian values, including control of invasive species, and habitat restoration and enhancement where needed.	To complete an inventory of natural features of the land, with emphasis on a management plan for rare and at-risk plant and animal communities, and invasive species.	By December 2017, to have a management plan for the natural values of the property that will direct future stewardship actions on the land.	Contract a qualified habitat biologist to produce a management plan for the natural values of the property.	Yes	Management Plan for the ecological values of the land	Management Plan completed
	To allocate funds raised on the property for the maintenance of built ammenities and funding of on-site stewardship projects.	To combine resources outlined in the financial plan with the land stewardship activities identified in the management plan.	To begin undertaking, and possibly completing some components of habitat restoration and enhancement projects, as prioritized in the management plan.	Allocate funds to carry out activities identified in the management plan.			
Property Vision and/or Overall Management Goals for the Property: 1) To steward the land to protect existing natural values, and to restore and enhance habitat where recommended. 2) To continue discussions with the Regional District of Nanaimo, with a goal to link a corridor through the property with the Lighthouse Regional Trail to promote the natural values of the coastal Douglas fir biogeoclimatic zone. 3)To foster opportunities for self-funded land management activities. 4) To continue discussions with the Agricultural Land Commission to place a conservation covenant on title of this property within the Agricultural Land Reserve.							

1-648

Parnassian Woods



Land Stewardship Grant 2017-20

FINAL YEAR REPORT FORM

HCTF Project Number: _1-648_____

Please refer to the Land Stewardship Grant Final Year Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customized for your project based on your proposal.

1. PROJECT INFORMATION

Project/Property Name: Parnassian Woods

Project Leader Name: Paul Chapman

Name of Organization: Nanaimo & Area Land Trust

Date of Report: March 6th, 2018

Author of Report (if different than Project Leader): same as above

Name of Organization:

Contact Information: paul@nalt.bc.ca 250-714-1990

2. SUMMARY

Provide a general description of project work completed in the last year (500 words max).

A management plan for the ecological values of the Parnassian Woods property has been completed.

Please provide a general summary of overall project outcomes (500 words max).

The outcome is the Management Plan. Recommendations from the plan will direct NALT stewardship activities



Land Stewardship Grant 2017-20

FINAL YEAR REPORT FORM

3. LESSONS LEARNED

Describe any problems or challenges that arose and how you addressed them in order to proceed with the project. What have you learned that would be valuable to share with others that may be undertaking a similar project?

It takes a lot of dialogue with all parties to ensure your management plan will be well received.

4. COMMUNICATIONS

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

There are not a lot of outreach opportunities in the writing of a management plan. The residents and native plant nursery volunteers were consulted in the making of this plan

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

Opportunities to communicate about HCTF will come during the promotion and implementation of the management plan.

Media Coverage: Provide a list of any articles or media coverage during the year.

Opportunities to communicate about HCTF will come during the promotion and implementation of the management plan.

5. PHOTOS



Land Stewardship Grant 2017-20

FINAL YEAR REPORT FORM

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description: PW Property, an image from the report showing the subject property.

Photo 2 File name and Photo Description: PW Vegetation Types, some images from the Management Plan.

Photo 3 File name and Photo Description: PW Wildlife Habitat, some words and images from the plan.

6. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Final Year Reporting Instructions for information on Capital Assets.


None

Provide any other information you wish to share with HCTF.

The creation of this management plan will be a key tool in directing NALT stewardship activities on the land and finding partnerships with community and school groups to follow through on recommendations.

7. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature	Date	Print Name
	March 6 th , 2018	Paul Chapman

Final Year Activities and Expenditures Report

1-648

Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities	Progress on this Activity in the past year (Yes/No)	Completed Activity Description	Actual Outcomes/Performance Indicators at Project End
Parnassian Woods	To target organizational resources to steward a 40-acre property that contains significant coastal Douglas fir and riparian values--including control of invasive species, and habitat restoration and enhancement where needed.	To inventory the natural features of the land, with an emphasis on rare and at-risk plant and animal communities; and to identify locals of invasive species.	By the end of 2017, to have a management plan for the natural values of the property directing our stewardship of the land.	Contract with a qualified habitat biologist to produce a baseline study and management plan for maintaing and enhancing the natural values of the property.	Yes	Management Plan for the ecological values of the land	Management Plan completed
	To create a financial plan that will allow for maintenance of ammenities and funding of on-site stewardship projects.	To have a financial management plan in place that is informed by revenues and expenses of the property over a multi-year period.	A financial plan that allows for reserve funds for maintenance of ammenities and habitat stewardship projects as required.	Undertake a staff-generated report on revenues and expenses averaged over a three-year period.			

1-649

Blackburn Lake Nature Reserve



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

HCTF Project Number: CAT18-1-649

Please refer to the Land Stewardship Grant Year 1 Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customised for your project based on your proposal. This spreadsheet will be emailed to you.

1. PROJECT INFORMATION

Project/Property Name: Blackburn Lake Nature Reserve

Project Leader Name: Christine Torgrimson

Name of Organization: Salt Spring Island Conservancy

Date of Report: March 28, 2018

Author of Report (if different than Project Leader): Kathryn Luttin (budget)

Name of Organization: Salt Spring Island Conservancy

Contact Information: bookkeeper@saltspringconservancy.ca

2. SUMMARY

Provide a general description of project work completed in Year 1 (500 words max).

In year 1, SSIC ensured survivorship of over 15,000 native plants transplanted into restored wetland areas, and monitored immigration of species into newly restored sites. Photopoint stations were used by volunteers to monitor changes at wetland restoration sites over time. Volunteers assisted in monitoring wildlife cameras to assess what wildlife are using the new wetland habitats and other areas of the reserve, with eight social media posts highlighting activity from beaver, Trumpeter Swans, bats and other local wildlife. Trail counters were installed and monitored in the reserve to guide management of the site and public use patterns. Invasive species removal was targeted in the reserve to maintain habitat for wildlife (targeting Scotch Broom, Hawthorn, and Holly), with 70 cubic metres of plant biomass removed. Yellow Flag Iris was also targeted with 30 cubic metres of rhizomes removed from Hitchcock Pond and a 50m segment of Hitchcock Creek at the outlet of the pond. Volunteers and a technician engaged in trail and reserve maintenance to help guide the public along trails.

3. COMMUNICATIONS



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

Project Outreach Activities:

Project activities were communicated via SSIC's social media page (Facebook) and our website. The public's reaction to our posts showed positive public interest, as many of the posts highlighted interesting local wildlife using the reserve.

Social Media Posts:

- Wildlife Using Restored Nature Reserve Habitat, Feb 7/18
- Bat Diversity Using Restored Habitat on SSI, Jun 21/17
- Volunteer recognition on SSIC projects, March 9, 2018
- Bat Courtship Songs recorded at BLNR, Feb 19/18
- Trumpeter Swans at Blackburn Lake Nature Reserve, November 29, 2017
- Brazilian Free-tailed Bat discovered at Blackburn Lake Nature Reserve, Oct 27, 2017
- Beaver sign at Blackburn, Sep 2, 2017
- Bats using Blackburn Lake Nature Reserve, June 21, 2017

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

Communicating about HCTF:

HCTF was recognized in SSIC's social media posts, our Supporters page on our website, and on the signage developed for this project.

Media Coverage: Provide a list of any articles or media coverage during the year.

Media Coverage:

One article was posted highlighting the new discovery of the first Canadian record of the Brazilian Free-tailed Bat in Canada at the Blackburn Lake Nature Reserve (attached).

4. PHOTOS

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description: Beaver activity in daytime at BLNR (Simon Henson)

Photo 2 File name and Photo Description: Beaver activity at night on wildlife camera at BLNR

Photo 3 File name and Photo Description: Volunteer watering and maintaining wetland plantings (L. Matthias)

Photo 4 File name and Photo Description: Volunteers maintaining wetland plantings and removing invasive species (L. Matthias)

Photo 5 File name and Photo Description: Volunteers watering and maintaining wetland plantings at wetland sites (L. Matthias)



Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

5. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Year 1 Reporting Instructions for information on Capital Assets.

There were no Capital assets (over \$1000) expended in Year 1 of this project.

Provide any other information you wish to share with HCTF.

One activity from the proposed Year 1 list of activities was postponed until Year 2 or 3. The repair or replacement of a bridge was postponed from Year 1 as it had not been finalized which bridge repair or replacement would be prioritized at the reserve yet. Signage development was also moved to Year 2-3.

6. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature	Date	Print Name
	March 28, 2018	Christine Torgrimson

7. SUBMIT YOUR GRANT REPORT

- Save this report using the Project # and grant year in the filename. Example: 1-123 Grant Report 2017-18
- Please send your Year 1 Grant Report to Christina Waddle, Conservation Specialist at christina.waddle@hctf.ca or by fax to 250-590-6614.
- Your report should include the following:
 - Completed Year 1 Grant Report Form (this document)
 - Completed Year 1 Activities and Expenditures Report
 - Photos as JPG files
 - Copies of any print media articles (or provide links in report)
 - Invoice for next 30% advance, if 50% advance is fully spent

HCTF Land Stewardship Grant 2017-2020			HCTF Project #	1-649			
Year 1 Activities and Expenditures Report							
Property/Complex Name:		Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities	Progress on this Activity in Year 1 (Yes/No)	Completed Activity Description
Blackburn Lake Nature Reserve		Maintain or improve the quality of water entering Blackburn Lake.	Ensure survivorship of over 15,000 native plants transplanted into resotred wetland areas, and monitor immigration of species into newly resotred sites.	Over 85% of plants survive and thrive in restored wetland areas with help from watering, weeding and mulching as needed. Photopoint monitoring demonstrates significant changes in biodiversity, habitat and species composition over time, and wildlife cameras and monitoring help to identify species immigration and use of restored sites. Over 75 volunteers help to maintain reserve and learn stewardship and restoration skills.	Guided by staff, restored wetland areas maintained by volunteers, staff and consultants (weeding, watering, mulching of native plants planted in wetland sites to increase survivorship and maintain habitat for wildlife). (Years 1-3 as needed).	Yes	Contractors and volunteers weeded, watered, and mulched native plants in restored wetlands to maintain survivorship of wetland restoration plantings in 2014-16. Survivorship of plants are as follows for 2014-15: 2014 Restoration project Wetland #16 main fenced area- Trees planted from plugs: 4% survivorship Potted trees and shrubs: 98%+ volunteers = >100% Wetland #16 fenced below the path (fence moved): 64% Wetland #18 Ditch – planted in 2014 (unfenced): 33% Total overall survivorship for plantings in 2014 including trees, both fenced area and ditch: 63%
					Staff guide volunteers in ongoing photopoint monitoring at established sites to monitor success of wetland and riparian restoration and guide future restoration work. (Years 1-3).	Yes	2015 Restoration project Green-potted trees and shrubs: 94% + 96 volunteers = >100% Hemlock plugs: 10% Above wetland 2-4: 78% + volunteers and plants added in 2016= >100% Wetland 32: potted shrubs 37% Wetland 32: live stakes 57% Wetland 31: potted shrubs 33% Wetland 31: live stakes 62% OVERALL survivorship of potted plants (without plugs)= 75% OVERALL survivorship of livestakes= 60%
					Staff and volunteers monitor species immigration through wildlife cameras and ongoing monitoring of restored sites. Wildlife images are shared in social media posts and on website to increase education about local wildlife and their habitat needs on the reserve. (Years 1-3).	Yes	Staff and volunteer monitored wildlife at restored sites. Eight highlights posted on social media showcasing some of the wildlife using the reserve.
		Improve habitat for a wide diversity of native plants, fish and wildlife, including Species At Risk.	Land Management Plan and other guiding reserve documents kept up to date and with most up to date science. Species inventories completed and target populations begin using restored wetland habitat. Native plant bursery provides source of locally propagated native plants with highest provenance for greatest success in survivorship.	Guiding documents for reserve completed and up to date with most up to date science. Targeted species using newly restored wetland sites. Up to 6,000 native plants propagated with local seeds for future habitat restoration on site.	Species at Risk Risk surveys completed to guide management actions including Northern Red-legged Frog, bats, birds, and rare plants and lichens (Year 2).	No	Volunteer bat biologist completed year long bat detector surveys at BLNR to assess local bat populations and winter activity levels. Data highlights include 10 species of bats using BLNR new wetland habitat (the highest diversity of any site on SSI that we've surveyed) and the highest volume of detections of any site on SSI that has been surveyed.
					Maintain native plants nursery to facilitate habitat restoration plans (seed collection of up to 10 species, propagation of up to 6,000 plants, watering, re-potting, maintenance of irrigation, etc.). (Years 2-3).	No	
					Purchase and install TRAFX trail monitor to assess levels of public use in reserve and guide future management of trails. (Year 1-3).	Yes	TRAFX trail monitor installed and data collected on public use of trails in spring 2018.
		Eliminate, reduce or manage invasive species to the degree possible.	Targeted invasive species are controlled or removed from strategic locations on site.	Up to 6 invasive species removed or controlled on 45 acre reserve using best management protocols and adaptive management with most up to date science.	Targeted invasive species removal and control completed using invasive species mapping completed in 2015 and Best Management protocols for Scotch Broom, English Hawthorn, Holly, Yellow Flag Iris, Thistle, and Tansy ragwort annually. Success of removal and control efforts monitored annually and removal techniques adjusted as necessary. (Years 1-3)	Yes	Yellow flag iris removed from targeted wetland areas (Hitchcock Pond and Hitchcock Creek) to improve habitat for wildlife such as Northern Red-legged Frog, Cutthroat Trout, and beaver. About 30 cubic metres of rhizomes were removed from Hitchcock Pond and a 50 m segment of Hitchcock Creek at the outlet of the pond. Other targeted invasive species removal in the reserve included doing an entire sweep of the reserve for removing any re-sprouts of Scotch Broom, hawthorn, and holly (over 45 acres), totalling about 70 cubic metres of plant biomass.
					Engage up to 40 volunteers and students in invasive species removal to enhance willdife habitat and increase skills and cost-effectiveness of reserve maintenance.	Yes	A grade 11 biology class (22 students) volunteered to help with removing invasive species and tidying up the reserve.
Property Vision and/or Overall Management Goals for Property: The goals for BLNR are: 1. Maintain or improve the quality of water entering Blackburn Lake; 2. Improve habitat for a wide diversity of native plants and animals, including Species at Risk; 3. Eliminate, reduce or manage invasive species to the degree possible; and 4. Provide ongoing and educational public access. BLNR will ideally be a diverse mix of open and forested wetlands, riparian areas, wet meadows, and upland forests that provide important wildlife habitat and filter water as it enters Blackburn Lake. Restoration efforts will work with natural processes and succession to create diverse, sustainable, resilient ecosystems that support a wide range of species at risk, fish, and wildlife, such as beaver, river otter, Coho salmon and Cutthroat Trout. Species at Risk identified on the reserve include: Band-tailed Pigeon, Barn Swallow, Black Swift, Blue		Provide ongoing and educational public access.	Engage public in understanding the ecological importance of the reserve and the values within.	Up to 30 volunteers engage in reserve maintenance. Over 500 community members visit reserve and learn about rare species, wetland restoration and management of the reserve. Repaired walking bridges provide access to the reserve for nature appreciation to the public.	Staff guides consultants and volunteer reserve wardens to keep trails maintained. (Years 1-3).	Yes	Staff worked with volunteer warden and volunteer with a mower to maintain trails throughout the reserve for public access.
					Staff guide field technician to maintain educational signage and infrastructure and complete general reserve maintenance as needed.(Years 1-3).	Yes	Contractor maintained fences, trails, trail counters, and signage within the reserve as required.
					Staff works with consultant to develop and install signage as needed to improve community education regarding the purpose of the lands and the value of the natural assets and habitat for wildlife. (Years 1-3).	No	Postponed from Year 1.
					Staff work with consultants to repair or replace bridges as needed to direct traffic to low sensitivity areas and minimize habitat impact in fish-bearing creeks. (Year 1 or 2).	No	Postponed from Year 1.

1-650

Cowichan Garry Oak Preserve



Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

HCTF Project Number: 1-650

Please refer to the Land Stewardship Grant Year 1 Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customised for your project based on your proposal. This spreadsheet will be emailed to you.

1. PROJECT INFORMATION

Project/Property Name: Cowichan Garry Oak Preserve (CGOP)

Project Leader Name: Tanya Wahbe

Name of Organization: Nature Conservancy of Canada (NCC)

Date of Report: March 2018

Author of Report (if different than Project Leader):

Name of Organization:

Contact Information:

2. SUMMARY

Provide a general description of project work completed in Year 1 (500 words max).

Despite CGOP being geographically removed from the wildfires of BC's mainland in 2017, NCC took the decision to close all conservation areas across the province to better ensure the safety of staff and volunteers. This, unfortunately, reduced NCC's stewardship and engagement staff's effectiveness during the 2017 field season. Nevertheless, NCC staff were able to complete a detailed Baseline Inventory of the Preserve, allowing for an updated evaluation of the conservation and ecological values that will better inform management plans for this Preserve.

NCC field staff were also able to complete consultation sessions with Cowichan Valley community members and conservation partners, working towards the development of an updated property management plan (PMP). From the updated PMP, NCC has begun developing regular maintenance programs for CGOP that includes volunteer participation, research prioritization, restoration monitoring and planning and identified engagement opportunities for this easily-accessible conservation area.

Before and after the closure of the normal field season, conservation volunteers guided by stewardship staff were able to continue the removal of shrubby invasive species such as Scotch broom. The



Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

maintenance and cultivation of endemic seedlings and augmentation of native plant species (including species at risk) populations on the property were also achieved during Year 1 of this grant.

3. COMMUNICATIONS

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

“Weedy Wednesdays,” the weekly conservation volunteers event, were held continuously throughout 2017 with the sole exception being the period during which all of NCC’s conservation areas were closed due to wildfires. These volunteers largely consist of a dedicated group of approximately one dozen Cowichan residents whose numbers are periodically supplemented by newcomers. The volunteers help with ongoing site maintenance, including seed collection, native plant propagation and invasive species removal. In April 2018, NCC will be hosting its annual In Bloom Wildflower Festival, where community members from the Cowichan Valley (and beyond) are invited to see the blooming of local endemic species of wildflower that are representative of the Garry oak ecosystem. Due to the sensitive nature of this preserve, public access is carefully managed at CGOP and opportunities for the public to visit the preserve are restricted to volunteer events, In Bloom and by special permission for research. Approximately 350 people visit the preserve each year.

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

None. NCC is in the process of updating our project websites to include more specific mention of partners and funders who have helped to make stewardship projects possible. HCTF will appear on the updated project page for CGOP.

Media Coverage: Provide a list of any articles or media coverage during the year.

None as of yet. Moving forward, any media release or item concerning the restoration and stewardship work at CGOP will include mention of HCTF as a funder and project partner.

4. PHOTOS

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description:



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CGOP 2017 In Bloom Tour: In Bloom attendees walking through the Garry oak woodlands on a property tour at the 2017 annual In Bloom Wildflower Festival at the Cowichan Garry Oak Preserve in Duncan, BC.

Photo 2 File name and Photo Description:

CGOP 2018 native nursery harvest: Native tubers and bulbs of Spring Gold, Few-flowered Shooting Star and Common Camas cultivated at the Cowichan Garry Oak Preserve native nursery.

Photo 3 File name and Photo Description:

CGOP 2018 nursery volunteers: Conservation volunteers showcasing native tubers and bulbs cultivated at the Cowichan Garry Oak Preserve nursery ready for planting out.

5. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Year 1 Reporting Instructions for information on Capital Assets.

In Year 1 the following capital assets were purchased using HCTF funds:

- 400 metres of deer proof restoration fencing, ties and posts with additional mesh wire rolls (\$1153.46);
- 5 sealed bins for seed storage in the nursery (\$41.57).

Provide any other information you wish to share with HCTF.

The wildfire season limited NCC's ability to safely carry out prescribed burns on the property with partners at Cobble Hill Fire Base and funding for this activity was directed elsewhere to cover additional contractor time for vegetation and invasive species management.

NCC was \$1,846.54 underspent on the restoration fencing material costs, but is able to use these funds on additional capital assets such as additional fencing and additional tools to support invasives management.

NCC has currently spent 50% of HCTF funds and would like to submit an invoice for our next 30% advance with this report. NCC will not require an extension on this funding application as NCC intends to spend remaining funds provided by Year 3 of the Land Stewardship Grant.

6. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature

Date

Print Name

Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities	Progress on this Activity in Year 1 (Yes/No)	Completed Activity Description
Cowichan Garry Oak Preserve	To effectively maintain and enhance the natural values found on the property in partnership with local stewards.	Develop high-level management planning documents with community involvement to guide resource conservation, habitat restoration and enhancement and human activities on CGOP.	By June 2017, baseline inventory fieldwork and a report will be complete. By December 2017, a formal property management plan will be complete. By March 2018, strategies, work plans and supporting documents will be complete.	Undertake resource inventory, analyze and compile current and archived resources in an accurate baseline inventory following NCC's standard template. (Year 1)	Yes	Complete: A baseline inventory was developed, reviewed and approved for CGOP following NCC PPSGs.
				In collaboration with stewardship partners in the Cowichan Valley including Cowichan Tribes, develop and create a formal property management plan following NCC's standard template. (Year 1)	Yes	Complete: A property management plan was developed, reviewed and approved for CGOP following NCC PPSGs.
				Develop regular maintenance programs, invasives management strategy and staff/volunteer plans for site management, research and engagement programs. (Year 2)	Yes	In Progress: NCC has begun the process of developing a restoration and monitoring plan to guide invasives and site management with the support of recovery experts.
	To effectively maintain and enhance the natural values found on the property in partnership with local stewards.	Implement the property management plan to effectively steward the long term natural values of CGOP.	By 2020, management of aggressive invasives will reduce invasive shrub extent by 20% of 2016 mapped levels; By 2020, management of exotic grasses will reduce invasive grass cover by 50% of 2016 mapped levels.	Mechanical removal (mowing, shears, hand pulling) of remaining shrubby invasive species like Scotchbroom. (Year 1-3)	Yes	In Progress: Mowing of snowberry and exotic grasses was completed by a contractor. Mechanical removal of Scotchbroom, Laurel and English Holly was completed by the contractor with conservation volunteer support.
				Maintenance of sheep grazing to treat exotic grasses (Year 1-3)	Yes	In Progress: Sheep were rotated throughout the property seasonally to treat exotic grasses and shrubs by contractor and with volunteer support.
	Property Vision and/or Overall Management Goals for Property: NCC’s Cowichan Garry Oak Preserve (CGOP) is one of the few remaining examples of an intact Garry oak ecosystem. The primary management goal for the preserve is to restore and protect critical habitat for rare plants, invertebrates and birds, and provide opportunities for restoration, volunteer engagement and research in this ecologically significant ecosystem.	Restoration and enhancement of endangered Garry Oak meadow ecosystems	Renovation and expansion of the nursery at CGOP to improve restoration work at the property.	By December 2020, expand the current nursery by 1000 square feet; By 2020, increase recruitment of cultivated rare seedlings and plant out an additional 50 seedlings every year.	Expand the nursery and recruit greater diversity of seeds. (Year 1)	No
Installation of irrigation to accommodate watering of seedlings. (Year 2)					No	
Weeding and maintenance of cultivated seedlings (Year 1-3)					Yes	In Progress: Weeding and nursery maintenance by conservation volunteers was overseen by a contractor and NCC staff.
Restoration and enhancement of endangered Garry Oak meadow ecosystems		Use of various approved techniques to manage invasive species and maintain the Garry Oak meadow ecosystem.	Additional 400 metres of restoration fencing to secure restoration area for additional 2 acres by 2018; By 2020, annual prescribed burns and mechanical treatment of invasives are used to reduce invasive species cover by 20% increasing the productivity of the Garry Oak meadow and providing opportunities for the establishment of at least 1 new rare plant species population.	Installation of 400 additional metres of restoration fencing to prevent deer from grazing sensitive habitat. (Year 1)	Yes	Complete: An additional 400 metres of restoration fencing were purchased and installed by NCC staff and contractors to prevent grazing of sensitive species during critical growing periods by deer.
				Prescribed burns are completed annually in partnership with the Cobble Hill Fire Base to maintain Garry Oak meadow habitat by reducing shrub habitat. (Year 1-3)	Yes	In Progress: Prescribed burn planning and site preparation by the contractor with Cobble Hill Fire Base prior to and following NCC closures and fire bans on conservation properties.
				Planting out of native species cultivated in the preserve nursery and monitoring of over-wintering success (Year 1-3)	Yes	In Progress: Cultivated native species were planted to conservation volunteers with NCC contractor oversight to augment existing populations of native plant species including species at risk such as Deltoid Balsamroot and Howell's Triteleia.

1-678

Settlement Lands



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

HCTF Project Number: 1-678

Please refer to the Land Stewardship Grant Year 1 Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customised for your project based on your proposal. This spreadsheet will be emailed to you.

1. PROJECT INFORMATION

Project/Property Name: Settlement Lands

Project Leader Name: John Millen / Erika Bland

Name of Organization: Denman Conservancy Association

Date of Report: April 6, 2018

Author of Report (if different than Project Leader): Erika Bland

Name of Organization: Denman Conservancy Association

Contact Information: dcalandmanager@gmail.com / erikaaction@gmail.com 250-702-7773

2. SUMMARY

Provide a general description of project work completed in Year 1 (500 words max).

Progress was made on most of the project components, including some items scheduled for Y2/3: ~400m fence installed at Homestead Marsh along the NE boundary, to prevent cattle from accessing marsh and beaver habitat. Gate remains to be completed, expected spring 2018. Note: This item covered by matching grant funds through National Wetland Conservation Fund.

Stewardship for the endangered Taylor's Checkerspot (TC) Butterfly included initial work on a demonstration nectar garden, including preparation of a site for an 800Gal cistern (donated by CanWest Tanks) to be used in propagation of native host species for TC and other pollinators. Vegetation response study plots within the Butterfly Reserve have been selected, and evaluation of impacts of bracken fern on TC nectar species will begin early in Y2/3. Monitoring for TCs (larvae and adults) is ongoing (Feb-June). A butterfly information kiosk was installed in Jan 2017 (HSP funds), and in June 2017 330+ people visited the Reserve for the DCA Home and Garden Tour. An initial draft Management Plan for Taylor's Checkerspot in the Settlement Lands has been created, along with monitoring forms for use in the field.

Through consultation with professional biologists, sensitive wetland habitat areas have been identified throughout the property, and a monitoring program for beaver, bats, wetland hydrology and invertebrate species was initiated with the help of volunteers and a summer intern. Initial drafts of signage demarcating these sensitive areas have been designed. 3 depth gauges were installed on two major marshes where beaver are active. One more will be installed at Pickles Marsh, and another 2 have



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

been purchased and will be installed in Butterfly Reserve wetlands following the larval breeding season. Two maternal bat colony roost houses were installed at Homestead Marsh, and bat monitoring and analysis will be initiated by DCA biologist in 2018, using an Acoustic Call Recorder. Water quality instruments were purchased (federal grant funding-NWCF) and the DCA Land Manager completed a Wet-Pro Certification Course and Wetlandkeepers Certification to design and guide a water quality monitoring program. Data spreadsheets for use in monitoring of Invertebrates, Bats, Wetlands and Beaver, and Marsh Hydrology at the Settlement Lands were designed for use in Y2/3.

Materials were purchased for a Settlement Lands property sign/information kiosk, currently under construction with installation scheduled for April 2018. A parking area was designated and cleared, and barriers preventing encroachment into surrounding natural have been installed.

New trails were designated throughout the property, avoiding sensitive habitat areas. Initial clearing was completed on 1.6kms of trails, with the help of a paid contractor and volunteers. Trails are cleared to provide safe access while minimizing disturbance to surrounding ecology. An old stream crossing was restored to prevent detrimental impacts of pedestrian traffic on a stream connected to a salmon-bearing watershed along one of the trails.

A brush cutter, reciprocating saw, and hand tools (purchased with HCTF, HSP and NWCF grant funding) were used for removal of invasive species including Scotch Broom and Everlasting Pea. Initial assessments were done for patches of St. John's Wort and Perriwinkle, and their removal will commence in summer 2018, along with removal of English Holly and Hawthorne.

A bird blind concept was researched (Please see Section 5 – Additional Details).

3. COMMUNICATIONS

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

Two public guided walks were done at different times of year in the Settlement Lands, bringing attention to the newly created trails and sensitive ecosystems throughout the property. Volunteers participated in invasive species removal, trail clearing, restoration of a degraded stream crossing, wetland science and monitoring, and a featured stop on DCA's bi-annual Home and Garden Tour (June 2017), where 330+ visitors learned about habitat stewardship for the Taylor's Checkerspot butterfly and other threatened invertebrates at the Settlement Lands Butterfly Reserve. Bat house building and bat education workshops were led by a DCA biologist, to educate community members about rare bats found on Denman and on the Settlement Lands. 50+ bat houses were installed by private landowners on Denman and Hornby Islands. DCA published newsletter articles and circulated information about Settlement Lands projects and support from HCTF, including volunteer work bees, events, and walks/talks, via the DCA Website, and Facebook and Twitter accounts.

When writing the property Management Plan, DCA decided to limit access by dogs on some Settlement Lands trails, which initially raised some concern of a few community members (one formal letter was sent to DCA). In response, DCA publically clarified, through a newsletter article and on the website and Facebook pages, the rationale for limiting dog access: protection of sensitive wetland and beaver habitats. Following this clarification, no other comments or correspondence surrounding this issue has been received, and some people have expressed support for the decision to the Land Manager. Signage to be installed in Y2 will include information on the reason for restricting dogs on trails.



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

Reports on HCTF project works were given at the regular monthly meetings of the DCA Lands Committee and Settlement Lands Committees.

A special briefing related to the Settlement Lands Conservation Covenant, which included information on HCTF project works, was given to DCA Directors by the biologist who completed our Property Baseline Summary, Jenny Balke, in April 2017.

DCA Board of Directors and members were briefed on HCTF activities at monthly meetings and via publically available meeting minutes.

Information Kiosk at Butterfly Reserve - HCTF Logo published on permanent sign notifying the public about Activities in the Butterfly Reserve and Demonstration Pollinator Garden. This sign was viewed by 330+ people who stopped at the Settlement Lands Butterfly Reserve during the Denman 'Home and Garden Tour'. Most of these visitors were given presentations about HCTF project works and we received much positive feedback about the project, and had volunteers sign up to help.

DCA solicited volunteers and volunteer interns through the DCA Website, and Facebook & Twitter accounts, and via other communication networks (email, word of mouth).

Formal presentations were made by the Land Manager and DCA biologist Jenny Balke at the DCA Annual General Meetings in Feb 2017 and 2018, detailing Project Activities and funding sources including HCTF. DCA received numerous positive comments about the grant projects on both occasions.

DCA with the Garry Oak Ecosystems Recovery Team (GOERT) co-hosted a public Open House about Taylor's Checkerspot Recovery activities including those funded by HCTF in the Settlement Lands Butterfly Reserve (March 2018). The Open House was attended by 87 people, including local and provincial government representatives.

Media Coverage: Provide a list of any articles or media coverage during the year.

DCA publishes a Newsletter in the local paper, *Island Grapevine*, and project participants submitted 5 articles related to HCTF project works, all of which reached ~1000 households on Denman and Hornby Islands in print, and are published permanently on the DCA Website.

-Articles May 2017 (<http://www.denman-conservancy.org/2017/05/24/newsletter-may-2017/>)

-Articles September 2017 (<http://www.denman-conservancy.org/2017/09/28/newsletter-september-2017/>)

Social Media: DCA manages Facebook and Twitter Accounts through which information about DCA's work, including HCTF funded projects, is circulated to the public.

4. PHOTOS

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description: HCTF-1-678-photo 01-Y1-New Cattle Fence.jpg – showing length of newly installed cattle fence, looking north along fenceline, at Homestead Marsh.



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

Photo 2 File name and Photo Description: HCTF-1-678-photo 02-Y1-Butterfly Kiosk with HCTF Logo.jpg – Kiosk viewed by 330+ people at Home and Garden Tour June 2017

Photo 3 File name and Photo Description: HCTF-1-678-photo 03-Y1-Butterfly Garden-beds prepped.jpg – Garden site under construction; beds ready for spring planting.

Photo 4 File name and Photo Description: HCTF-1-678-photo 04-Y1-Butterfly Garden-Cistern site.jpg – cistern was donated. Crib and tamped earth surface created at garden site

Photo 5 File name and Photo Description: HCTF-1-678-photo 05-Y1-Volunteer and H2O Depth Gauge-Pickles Marsh.jpg – DCA summer intern at Pickles Marsh Water Depth Gauge site after installation.

Photo 6 File name and Photo Description: HCTF-1-678-photo 06-Y1-H2O Depth Gauge-Homestead Marsh.jpg – Depth gauge installed at Homestead Marsh

Photo 7 File name and Photo Description: HCTF-1-678-photo 07-Y1-2 Bat Houses-HS Marsh.jpg – Maternal Bat Colony Roost Houses at Homestead Marsh

Photo 8 File name and Photo Description: HCTF-1-678-photo 08-Y1-Restored Stream Crossing.jpg – DCA Volunteers restored this footbridge along Old Road Trail in spring 2017

Photo 9 File name and Photo Description: HCTF-1-678-photo 09-Y1-Public Guided Nature Walk.jpg – Public walk showing some of the newly designated and cleared Settlement Lands Trails Network

Photo 10 File name and Photo Description: HCTF-1-678-photo 10-Y1-DRAFT 1 Wildlife Signage.jpg – First draft of signs to be put up around sensitive wetland/beaver reserve area.

Photo 11 File name and Photo Description: HCTF-1-678-photo 11-Y1-Cut Broom.jpg – Example of large broom plants cut by contractors and volunteers in Year 1.

5. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Year 1 Reporting Instructions for information on Capital Assets.

N/A

Provide any other information you wish to share with HCTF.

ANTICIPATED CHANGE TO PROJECT: BIRD BLIND

Due to the Riparian Areas Regulation (Islands Trust) restrictions, and anticipated impacts on sensitive habitat at the proposed bird blind site (Homestead Marsh), it is recommended that funds allocated for this project (intended to provide natural history and outreach opportunities for the community) be re-allocated to one of the following similar projects, for which the budget would be roughly equivalent to the proposed bird blind structure:

--Construction of a small outdoor classroom/interpretive structure near the property entrance.

--A bird blind/wildlife viewing platform at an alternate location (site of garbage removal at Pickles Marsh viewpoint along Central Rd)

HCTF approval for this change will be sought early in Y2 of the project.


6. SIGNATURE



Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature	Date	Print Name
	April 06, 2018	Erika Bland

7. SUBMIT YOUR GRANT REPORT

- Save this report using the Project # and grant year in the filename. Example: 1-123 Grant Report 2017-18
- Please send your Year 1 Grant Report to Christina Waddle, Conservation Specialist at christina.waddle@hctf.ca or by fax to 250-590-6614.
- Your report should include the following:
 - Completed Year 1 Grant Report Form (this document)
 - Completed Year 1 Activities and Expenditures Report
 - Photos as JPG files
 - Copies of any print media articles (or provide links in report)
 - Invoice for next 30% advance, if 50% advance is fully spent

Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities	Progress on this Activity in Year 1 (Yes/No)	Completed Activity Description
Settlement Lands	Maintain/increase populations of invertebrate species at risk including: Taylor's Checkerspot (TC) (endangered); Dun Skipper; Common Wood Nymph; Western Pine Elf; Western Pondhawk; Blue Dasher;	Enhance Taylor's Checkerspot & other invertebrate species habitat focusing on areas with food & nectar plants for larvae & adults; Create a demonstration Butterfly Garden to expand available habitat while providing education opportunities	Debris from previous tree felling is removed from 0.5ha of existing Butterfly Reserve area to expose nectar & larval host plants; Creation of a 0.02ha demonstration Butterfly Garden involving 20+ volunteers; Invertebrate larvae & adults are observed using plants in the garden by year 3; 10 species of native plants known to be host plants for rare invertebrate species are established & self-propagating within the garden within 5 years from the time of its creation; 3 educational visits are attended by local community school children & community members	Remove debris from 0.5ha of Butterfly Reserve area. Map 0.02ha butterfly garden area & existing plants. Design plan for supplemental butterfly-significant plants. Cultivate specific plant species (Year 1)	Yes	0.2 ha garden area delineated; plant inventory completed; native host seeds collected and seeded in off-site nursery area; 8 volunteers signed up to participate in garden project; resources compiled on native species propagation.
				Prepare sites for additional butterfly-significant plants using hand tools. Install fence and water cistern. Plant supplemental plant species. (Year 2)	Yes	Water cistern acquired, cistern footprint prepared; fence under construction; initial preparation of garden beds completed using screened soil from on site.
				Weed, water & maintain garden area throughout summer months to encourage plant growth (Years 2&3)	No	n/a
	"	Conduct scientific research & monitoring to evaluate over time the quality, characteristics & use of Butterfly Reserve and wider SL property by rare invertebrates (Taylor's Checkerspot and Dun Skipper)	Database established to record monitoring data & staff/contractors are trained in its use. TC larvae monitoring areas are selected & monitored 3x/week from February-April; 800m butterfly transect monitored 3x/week from April-June; Intensive botanical plot studies carried out for 2 years, 1x/week for 6 weeks in May/June. Reports on monitoring are produced; Priority activities & areas for invertebrate species are identified to create a 5-year Invertebrates Mgmt Plan specific to the SL property	Establish database (contractor 4hrs with volunteer intern 4 hrs) for recording of monitoring observations (Year 1)	Yes	Monitoring data spreadsheets created, including forms for monitoring larvae and adult Taylor's Checkerspots, beavers, water quality and depth levels
				Monitoring (and associated data entry/reports) of TC larval area (40 hrs HCTF); adult butterfly transect (40 hrs DCA contribution); and intensive botanical study areas (48hrs HCTF) by contractors (Years 1-3)	Yes	Adult TC monitoring conducted 2x per week (April-May 2017). Monitoring for TC larvae and host species 1x per week (Feb-March 2018). Botanical study areas to be finalized by Biologist and mapped in April 2018.
				Identify priority management activities and areas and create Settlement Lands Threatened Invertebrates Management Plan (Year 2)	Yes	Preliminary draft of TC Management Plan for Settlement Lands created; consultaton with botanist and professional biologist (volunteers). Draft sent to Invertebrates Specialist for BC Ministry of Environment
Property Vision and/or Overall Management Goals for Property: The Settlement Lands' rare Coastal Douglas-fir ecological community is to be protected both by a Conservation Covenant, held by the Trust Fund Board (Islands Trust Fund - ITF), and by on-going stewardship to conserve and enhance the property's rich biodiversity and valuable natural features. The Settlement Lands varied terrain with its numerous large wetlands, portions of interconnecting creeks, steep rocky bluffs, slopes of various aspects, and extensive plateaus will continue to provide ecological connectivity and refugia for wildlife by its position in the centre of a large area of protected lands (Denman Island Provincial Park, ITF's Inner Island Nature Reserve and DCA's Central Park and Winter Wren Wood). Overall management goals will emphasize conservation strategies for enhancing the survival of the endangered Taylor's Checkerspot butterfly, as well as the other 14 species at risk and the 6 rare ecosystem communities. In addition, management goals will include providing opportunities for low-impact nature observation, scientific research, community outreach and education.	Maintain/increase populations of aquatic & bird species at risk including: Red-legged Frog; Common Beaver; Cutthroat Trout; Common Nighthawk; Great Blue Heron; Olive-sided flycatcher; Band-tailed piegon; Barn owl; Western Screech owl; Barn Swallow	Prevent current degradation of wetland riparian habitat and evaluate yearly changes in marsh water levels & quality	Neighbouring cattle are prevented from entering marsh and wetland habitat; 200m of fencing is installed along the eastern boundary of the property adjacent to Homestead Marsh; A program is established for ongoing monitoring of beaver activity and wetland levels; 2 water depth guages are installed; Beaver activities and wetland levels/quality are recorded monthly for 3 years; Bridge installed along existing trail at crossing of a stream connected to salmonid-bearing watershed headwaters	Install 200 m of woven wire fencing along eastern boundary wetland edge (Contract labour and materials from HCTF; 40hrs labour in kind and DCA Land Manager) (Year 1)	Yes	420m of fencing to restrict cattle from entering Homestead Marsh with neighbouring property owner nearing completion, needs gate. Follow-up conducted, noting minimal fenceline vegetation cleared for construction.
				Install water depth guages in Homestead and Pickles Marshes (HCTF funds) (Year 1). Purchase water quality testing equipment & monitor wetland levels and quality monthly for 3 years (DCA contribution) (Years 1-3)	Yes	6 water depth guages purchased. 1 installed at Pickles Marsh and 2 at Homestead Marsh. 2 guages will be installed in TC breeding wetlands after Larval breeding season (summer 2018). Water quality testing equipment purchased (NWCF funds) and Land Manager training undertaken (Wet-pro certification and WetlandKeepers Course); water quality testing for hydrology baseline to begin in summer 2018 and continue with volunteer help. Volunteer intern assisted with siting of water depth guages and researching and purchase of water quality equipment, and conducted monthly wetland monitoring visits including beaver monitoring for summer 2017.
				Install bridge along stream trail (materials HCTF; 20 hours in kind DCA contribution) (Year 2)	Yes	A bridge was restored along Old Road trail, and metal mesh (HCTF funds) was installed to prevent slipping on wet surface.
		Provide safe community access to specific aquatic habitat areas to encourage community support for conservation and natural history education while protecting habitat & native species through non-disturbance areas	A 7.3 hectare non disturbance area for the protection of beavers and other wetland and bird species is identified and signage is installed to alert users to this area; A bird blind & kiosk are installed to the south of the wetland non-disturbance area; DCA sponsors 2 annual outings to the site focused on guided low-impact wildlife viewing & education; Interpretive information surrounding the importance of beavers, red legged frogs, marsh birds & other species is installed at the bird blind	Map out and select Wetland/beaver non-disturbance area and install signage to demarcate boundaries (Year 1)	Yes	Sensitive Beaver Habitat areas have been identified and access by dogs on trails into these areas has been restricted. Public notification of this restriction was made via local publications and DCA newsletter, and new kiosk and trails signage has been drafted and will include maps showing beaver non-disturbance areas and trails.

	"	non-disturbance areas	pegged frogs, marsh birds & other species is installed at the bird blind site;	Design and install bird blind at wetland non-disturbance area edge (Year 3); Design and install interpretive information for bird blind (Year 3).	No	n/a
				Conduct 2 educational outreach visits to bird blind with hired local biologists (10 hours in-kind) (Year 3)	No	n/a
	Protect and enhance biodiversity through the maintenance of wildlife refugia and ecological corridors within the SL property and with adjacent protected areas	Identify new, and maintain existing, ecological corridors/refugia for wildlife	Key areas for preservation of wildlife refugia are identified using the property baseline study (Balke 2016); Correspondence is initiated with owners of adjacent protected lands to ascertain location and extent of existing or potential refugia areas beyond SL boundaries; Ecological connectivity areas are identified and mapped; Boundary markers are installed at corners of the property and in areas where pedestrian traffic from adjacent lands is expected to occur	Identify key refuge areas through field and report research and communications with adjacent property owners, carried out by contracted biologist/ecologist (4 hours contracted) and reviewed by DCA committee (4 hours in-kind) (Year 1)	Yes	Initial refuge areas researched by DCA Land Manager. Maps will be made once biologist consultation has occurred, and will be included on new property kiosk.
				Mapping of refuge areas by contractor and Volunteer Intern (Year 1) in connection with DCA Protected Areas Network Mapping project below;	Yes	Monitoring of beaver activity initiated in summer 2017 in areas proposed for Beaver refuge area will continue. Butterfly Reserve area was mapped and boundaries marked with cedar posts and signage.
				12 boundary markers (at SL boundaries with adjacent lands) and 2 Protected Area signs (along Lake Rd and Central Rd) are designed and installed by Land Manager (materials from HCTF funds; labour from DCA) (Year 1)	No	First sign drafts completed.
	"	Ensure protection of refugia, and ecological connectivity areas via a well-defined, low-impact trails network that directs visitors away from these areas while linking the SL property with existing trails on adjacent lands	Safe trail network is created within biodiverse habitats to encourage community support for conservation & to provide natural history education; Directional signs & wayfinding maps are installed at key locations; 2 information kiosks are installed alerting visitors to trails/non-disturbance areas & providing educational information about wildlife & habitat; Barriers are installed at roadside locations to discourage use of motorized vehicles & prevent other unauthorized land uses (i.e. illegal dumping of garden or other wastes).	Clearing and subsequent bi-annual maintenance of trails carried out by Land Manager (16 hours HCTF Funds) and volunteers (in-kind) (Years 1-3);	Yes	Volunteers, volunteer interns, and Land Manager cleared 1.6 kms of newly designated trails in the Settlement Lands. Maps of trail network completed and 2 guided public walks led by Land Manager and biologist completed in 2017
				Installation of wayfinding signage (10 signs) along trails (Year 2)	Yes	8 wayfinding signs fabricated.
				Installation of information kiosk (HCTF funds) (Year 2), parking barriers (Year 1) & butterfly kiosk (additional funds confirmed) (Year 1)	Yes	Information Kiosk/Property Sign designed and under construction; Labour for sign site prep completed, installation scheduled for April 2018. Parking Barriers purchased and installed; Butterfly Kiosk erected at Butterfly Garden (HSP funds, 2017), and interpretive sign including HCTF logo is on permanent display and viewed by 330+ people to date (featured on DCA Home and Garden tour 2017 June).
	Restore native plant habitat by reducing Invasive Species across the SL Property	Through the manual removal of existing plants, control the spread of a) Scotch Broom; b) English Holly; c) English Hawthorne; d) St. John's Wort; e) Perriwinkle; f) Everlasting Pea	12 volunteers contribute 120 hours to assist contractors in the removal of invasive species; 8Ha of broom is removed from clearcut areas, old logging landings, roadsides and trails; English Holly (<100 plants) and English hawthorne (<100 plants) are removed from the property; St.John's Wort, Perriwinkle and Everlasting pea is manually removed from 0.02ha area	A bursh cutter is purchased and paid contractors (total 100 hrs, 50 of these HCTF funds) remove Broom from designated areas across SL property amounting to 10ha (Years 1-3)	Yes	Brush cutter (HCTF funds) and reciprocating saw (NWCF funds) purchasd and used by contract labourers to remove large Scotch Broom plants from 2 hectares along Central Rd.
				Land Manager locates and removes English Holly and English Hawthorne plants from SL property (16 hours) (Year 3)	No	n/a
				Land manager (40 hours, 20 in kind hours), with volunteers, removes 0.01ha of St. Johns Wort/Perriwinkle and 0.01ha of Everlasting Pea through digging and mulching (Years 1&2)	Yes	St. Johns Wort and Perriwinkle areas mapped and photographed; tools purchased for removal; Everlasting pea area photographed and about 30% of plants were removed by digging in late summer 2017. Volunteer cut St Johns Wort blooms in summer 2017, to help

2-605

Windebank



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

HCTF Project Number: 2-605

Please refer to the Land Stewardship Grant Year 1 Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customised for your project based on your proposal. This spreadsheet will be emailed to you.

1. PROJECT INFORMATION

Project/Property Name: Windebank

Project Leader Name: Joanne Neilson

Name of Organization: Fraser Valley Conservancy

Date of Report: March 31st, 2018

Author of Report (if different than Project Leader): same as above

Name of Organization:

Contact Information:

2. SUMMARY

Please provide a general description of project work completed in Year 1 (200 words max).

The main goals in year 1 were to eliminate the garbage and homeless shelters, repair the perimeter fencing to prevent further trespassing, control the invasive plant species over 80% of the site area, and plant native trees and shrubs within the riparian area (see attached photos: figures 1 & 2). These goals were met with ongoing maintenance and diligence required to ensure their success.

To control the invasive plants, mainly Himalayan blackberry along with some Himalayan balsam and Morning glory, the site was visited in April, June and August 2017; hand-clipping and gas-powered trimming were used to eradicate the blackberry, a Munger's vinegar solution was used to treat the morning glory, and the balsam was pulled by hand (see attached photos: figure 3). A total area of 5800m² was cleared three times over the year. Prior to clearing searches were done to ensure no ground-nesting birds were disturbed, no nests were found.

In September 2017, 805 native trees and shrubs were planted, within the 1200m² riparian area in the northeastern corner of the property where the blackberry was removed, to increase biodiversity and create new habitat for the wildlife (see photos attached: figure 4). 250 whips (willow, cottonwood, and dogwood) were also planted along a 50m section of the creek bank, in this area, to provide additional



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stability after the blackberry was removed and to provide shade for the salmonids in the stream (see attached photos: figure 5 & 6).

Connections were made with private landowners of the 2 adjoining properties in the northeastern corner. Site meetings were conducted with the RCMP, neighbouring business as well as BC Ministry of Transportation and Infrastructure and District of Mission staff, to address the trespassing and storm water management issues at this location. The trespassing recommendations have been implemented with some success and the storm water management remains an ongoing issue.

An ice storm at the end of December 2017 caused considerable damage to approximately 50% of the trees within the southern portion of the site (see attached photos: figure 7), a plan to deal with this damage is being developed and will be implemented in the spring of 2018. Fortunately, the northern portion of the site, where most of the past years' work was done, was more sheltered from the prevailing winds and was not as impacted by the ice storm.

3. COMMUNICATIONS

Project Outreach Activities: Please report on any outreach activities during the year that directly relate to the project.

Due to the ongoing safety challenges (trespassing and drug use) at this site, we had to post-pone our November outreach event. It has been rescheduled for April/May 2018. Instead our outreach focused on working with the District of Mission bylaws staff, RCMP and neighbouring business owners to deter future trespassing on the site. A presentation to the Mission Council will be scheduled in April to draw their attention to this site as well as the impacts of storm water on the fish habitat.

Communicating about HCTF: Please report on any activities specific to communicating about HCTF undertaken during the year.

No formal promotion of HCTF has occurred at this stage of the project. However, we have shared with the District staff that we have 3 years of funding from HCTF to improve this site and it will be highlighted during the presentation to City council. We are currently using the HCTF funding as tool to leverage more support and engagement from the municipality.

Media Coverage: Please note any articles or media coverage during the year.

Not applicable at this time. We prefer to promote good news stories so are waiting for a positive message, i.e. volunteer event or salmon spawning

Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

4. PHOTOS

Please include a minimum of three photos as part of your report, attached as separate JPG files. Please list the filenames below, including a description of each.

Multiple photos are embedded in the attached "LSG Year 1 Report 2-605 Figures" pdf. Full resolution copies of these photos can be provided upon request. They are too large to send as .jpg attachments.


5. ADDITIONAL DETAILS

This section provides additional space for any other information you wish to share with HCTF.

While this project site is challenging, we really appreciate having HCTF funding to be able to respond to the predicaments this site throws at us on a regular basis. We are optimistic that our improved presence at this site will benefit both the fish and wildlife, as well as the community, in the long-run!

6. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature	Date	Print Name
	April 3rd, 2018	Joanne Neilson

7. SUBMIT YOUR GRANT REPORT



HABITAT
CONSERVATION TRUST
FOUNDATION

Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

- Save this report using the Project # and grant year in the filename. Example: 1-123 Grant Report 2017-18
- Please send your Year 1 Grant Report to Christina Waddle, Conservation Specialist at christina.waddle@hctf.ca or by fax to 250-590-6614.
- Your report should include the following:
 - Completed Year 1 Grant Report Form (this document)
 - Completed Year 1 Activities and Expenditures Report
 - Photos as JPG files
 - Copies of any print media articles
 - Invoice for next 30% advance, if 50% advance is fully spent

Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Planned Activities	Progress on this Activity in Year 1 (Yes/No)	Completed Activity Description
Windebank Creek	Restore the riparian habitat to protect the ecological integrity and biodiversity of the site.	To restore, maintain, and protect natural ecological processes and riparian habitat on the property.	Elimination of >80% of the invasives throughout the restoration area, replaced with a canopy of native shrubs and trees.	Invasive plant removal at least four times per year. Combination of FVC staff and volunteer work parties.	yes	Invasives throughout the property were controlled three times in 2017. the fourth treatment - the volunteer work party was not completed due to safety concerns.
				Plant ~2000 native plants on the property by the end of 2018/19 fiscal. Annual assesemnt of vegation cover, monitor plant health, and augment as needed.	yes	total of 1030 native plants were installed in 2017
	Restore the riparian habitat to protect the ecological integrity and biodiversity of the site.	Increase spawning habitat for salmonids.	Increase access to spawning and refuge areas, throughout the reach. Provide new cover and off-channel habitat for juvenile Coho.	Consult with the District of Mission staff regarding stormwater management and future development plans to try and predict future impacts on site hydrology and the feasibily of complexing the stream at this site.	yes	District of Mission as well as Ministry of Transportation staff were invite on to the site to view and discuss the challenges. MoTI has expressed interest in widening Lougheed Highway which is parallel to the southern boundary and will likely impact this site. There are two culverts exiting this site under Lougheed Highway, but only one is funcitonal and presents fish passage issues. Work in years 2 and 3 will focus on motivating DoM and MoTI staff to become more engaged over the drainage issues as this site and the negative impacts on the salmon.
				Assess (first year) and install woody debris refuges in appropriate areas of the stream (second year) that will be resistant to storm surge events by the end of 2018/19 fiscal.	no	A storm surge resulting in a culvert blockage and flooding event in late 2016 has forced us to reconsider how viable installing more instream cover for fish at this site is. We will continue to work with DoM and MoTI staff to try and come up with a low-risk solution that will satisfy all stakeholders, including the fish!
				Assess feasibility of converting the old detention pond at the north end into off-channel habitat for juvenile Coho (year 1 and 2). If feasible, seek out additional funding to complete the works in 2019/20 fiscal.	no	See above, this will be directly linked to outcomes above.
	Restore the riparian habitat to protect the ecological integrity and biodiversity of the site.	To enhance habitat for native species, monitor for species at risk, and to gain better understanding of the requirements of the species habitat we are trying to conserve.	Complete inventory of fish, amphibians, birds and invertebrates using the site. A core group of volunteers will be training to undertake ongoing monitoring. Installation of supplementary nesting habitat for identified species (at least 10 structures). A longterm monitoring program implemented.	Complete surveys for fish, amphibians, birds and potentially pollinators using the site. Initiate protocols in first year, train volunteers to assist with ongoing surveys in years 2 and 3. Survey results will be used to guide the type and location of habitat features installed.	yes	No spawning salmon were dcoumented in this reach of Windebank in fall 2017. Amphibian cover boards were either washed away or covered in silt by the storm/blockage event in the winter of 2016/17. Invertebrate surveys (both instream and terrestrial) were initiated in 2017. Bird surveys are being initiated in spring 2018.
				Install and monitor 10 bird boxes on the property, plus bat boxes or other structures if deemed suitable as a result of site surveys in years 2 and 3.	no	
Property Vision and/or Overall Management Goals for Property: The FVC’s vision for Windebank Creek is to restore riparian habitat, protect ecological integrity and biodiversity, and to engage the community in conservation. The FVC’s management objectives for the Windebank Creek property are as follows: <ul style="list-style-type: none">• to restore, maintain, and protect natural ecological processes and riparian habitat on the property;• to increase spawning habitat for salmonids;• to enhance habitat for native species, monitor for species at risk, and to gain better understanding of the requirements of the species habitat we are trying to conserve;• to increase public involvement and establish the site as a focal point for environmental stewardship, education, and conservation in the community.	Engage the community in conservation.	To increase public involvement and establish the site as a focal point for environmental stewardship, education, and conservation in the community.	Secure perimeter fencing around entire site to deter tresspassing. A supportive network of neighbours who contribute to the biodiversity of the site through maintaining their properties, as well as acting as site guardians. A functional interpretive area that can be used as a release site for Salmonids in the Classroom raised fry.	Maintain the perimeter fencing around property and establish positive relationships with neighbouring landowners along northern property line.	yes	60m of perimeter fencing was repaired and reinforced. No trespassing signs were installed next to the existing sensitvie habitat signs based on RCMP recommendations. Relationships are being built with surrounding landowners who notify us of inappropriate activity occuring on site.
				Establish interpretive area on site, including educational signage depicting the salmon-cycle and other species that use the site. Host a salmon fry release event in 2020.	no	

4-548

Elk Valley Heritage Conservation Area



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

HCTF Project Number: 4-548

Please refer to the Land Stewardship Grant Year 1 Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customised for your project based on your proposal. This spreadsheet will be emailed to you.

1. PROJECT INFORMATION

Project/Property Name: Elk Valley Heritage Conservation Area (EVHCA)

Project Leader Name: Richard Klafki

Name of Organization: Nature Conservancy of Canada (NCC)

Date of Report: 31 March 2018

Author of Report (if different than Project Leader):

Name of Organization:

Contact Information:

2. SUMMARY

Provide a general description of project work completed in Year 1 (500 words max).

Due to the extreme fire risk in 2017, some implementation tasks were planned but not completed. The motorized access management to reduce illegal dumping at specific sites on the conservation area was initiated by contacting contractors to provide heavy machinery services to decommission some access sites where dumping has occurred and sites visits were conducted. Canfor was also contacted and they have agreed to provide conifer seedlings in these small rehabilitated sites, including the tree planting crews. After the fire hazard abated, in winter 2017-18, Fiorentino Brothers contracting was able to stock pile large coarse woody debris on the conservation area that will be contributed towards this project. It is anticipated that the project will be completed in 2018.

The gravel pit and wetland restoration was initiated in 2017 and will continue in 2018 with the funds from this Grant anticipated to be allocated then.

Invasive plant treatments were completed in 2017, particularly on the powerline adjacent to the wetland restoration site targeting any priority 1 invasive species that may spread onto the wetland restoration area. Invasive plant treatments are carried out annually and working with partners this will be an on-going priority for NCC in the years ahead.



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YEAR 1 REPORT FORM

The updated Property Management Plan will be completed in subsequent years as efforts to complete the Dutch-Hoodoo management plan took precedent in 2017 (8-549).

3. COMMUNICATIONS

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

An article in the Fernie Free press was published highlighting the problems with illegal dumping on the conservation area.

Also, neighbours and NCC staff conducted a field tour to view illegal dumping sites in summer 2017.

In October 2017, volunteers (11) were able to start planting shrubs and cottonwood trees on the first phase of wetland restoration near Hosmer.

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

Due to the limited activities undertaken this year, little was communicated in 2017. It is anticipated in 2018 that outreach and education activities related to profiling the HCTF will be significantly increased.

Media Coverage: Provide a list of any articles or media coverage during the year.

While we did not use HCTF funds for the wetland restoration in 2017, we will include the HCTF logo on a kiosk being constructed and installed in 2018 on a site overlooking the wetland restoration area as we plan on using the HCTF funds in 2018 for the continuation of the wetland project (Phase 2).

In 2017, NCC partnered with the Elk River Alliance and they sent out various articles related to the importance of wetlands and the restoration project at Hosmer:

<https://www.e-know.ca/regions/elk-valley/wetland-enhancements-help-species-risk/>

Illegal dumping on EVHCA conservation area article in Fernie Free Press:

<https://www.thefreepress.ca/news/illegal-dumping-threatens-conservation-lands-hosmer/>

4. PHOTOS

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description: Hosmer abandoned camper: Illegal dumping on NCC conservation area (Hosmer strip).



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

Photo 2 File name and Photo Description: Hosmer powerline knapweed: An area leading onto the conservation area that was targeted for invasive plant treatments in 2017.

Photo 3 File name and Photo Description: Wetland creation final Oct30-2017: First phase of wetland restoration completed in late 2017. More wetland restoration work to continue in 2018.

5. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Year 1 Reporting Instructions for information on Capital Assets.

n/a

Provide any other information you wish to share with HCTF.

In early 2018, NCC will be working with contractors and Canfor to implement rehabilitation of dumping sites.

Wetland restoration will also be a focus in 2018 and HCTF will be recognized in signage and outreach activities.

We will continue to work with the East Kootenay Invasive Species Council and invasive plant treatments will continue across the Elk Valley Heritage conservation area in 2018 and 2019 (and beyond).

The Property Management Plan is scheduled to be completed in 2018.

6. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature

Date

Print Name

Richard Klafki

Mar 29, 2018

Richard Klafki



Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

7. SUBMIT YOUR GRANT REPORT

- Save this report using the Project # and grant year in the filename. Example: 1-123 Grant Report 2017-18
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 - Photos as JPG files
 - Copies of any print media articles (or provide links in report)
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Year 1 Activities and Expenditures Report



Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities	Progress on this Activity in Year 1 (Yes/No)	Completed Activity Description
Elk Valley Conservation Area	Reflect conservation management strategies set forth in Elk/Flathead Natural Area Conservation Plan (NACP)	Specific planning for this suite of sites and their varied threats	Completion of a Second Phase Property Management Plan	update 2010 baseline inventory study, collaborate with local partners (Year 1)	No	Scheduled to be completed in 2018
				reassess ecological threats (see attached) and conservation priorities to better inform stewardship activities on site (Year 1)	No	Scheduled to be completed in 2018
				action planning (Year 1)	Not applicable	Not funded
	Reflect conservation management strategies set forth in Elk/Flathead Natural Area Conservation Plan (NACP)	Implement updated Property Management Plan	Increase awareness of ecological sensitivity among property visitors, while implementing the conservation and stewardship strategies as outlined in the Property Management Plan	motorized recreation access management through route decommissioning, signage, and local awareness (Years 1 to 3)	Yes	Planning started and coarse woody debris donated and ready to be incorporated into the project in early 2018.
				gravel pit restoration wetland plan implementation (Years 1 to 3)	Yes	Initial phase of restoration work completed before this funding was confirmed. The HCTF funding will be used in 2018 for second phase of project.
				invasive plant treatment (Years 1 to 3)	Yes	Invasive plant treatments were carried out along powerline on Hosmer strip of the EVHCA.
Property Vision and/or Overall Management Goals for Property: The Elk River Valley properties have a range of issues to address (see attached example photos). Goals include: to maintain and enhance cross-valley animal movement corridors; reclamation of commercial gravel extraction sites; control of invasive plant species, and; the provision of local, non-motorized recreation access and prevention of illegal dumping.						

4-549

Dutch Creek Hoodoos



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

HCTF Project Number: 4-549

Please refer to the Land Stewardship Grant Year 1 Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customised for your project based on your proposal. This spreadsheet will be emailed to you.

1. PROJECT INFORMATION

Project/Property Name: Dutch Creek Hoodoos

Project Leader Name: Richard Klafki

Name of Organization: Nature Conservancy of Canada (NCC)

Date of Report: 31 March 2018

Author of Report (if different than Project Leader):

Name of Organization:

Contact Information: Richard.Klafki@natureconservancy.ca

2. SUMMARY

Provide a general description of project work completed in Year 1 (500 words max).

The Dutch Creek Hoodoos are one of the Columbia Valley's most popular visitor destinations. As such, it is the intention of NCC to complete and implement a second generation Property Management Plan for this sensitive and culturally important property and implement upgrades to the trail system to reduce incompatible recreation access impacts. In 2017, NCC was able to achieve several outcomes for this project including an update of the baseline inventory and completion of the second generation Property Management Plan, a reassessment of ecological threats and conservation priorities for the action planning needed to realign NCC's management for this conservation area with the Natural Area Conservation Plan (NACP) for the Rocky Mountain Trench Natural Area.

NCC stewardship staff and contractors were also able to complete the trail upgrades, rehabilitate portions of old side trails, and install wooden barriers and directional signage; the outcomes of these mitigation measures will be monitored throughout the 2018 field season. Additionally, NCC was able to install five interpretive panels along the trail to the Hoodoos, including at viewpoints overlooking the Columbia Valley.



Land Stewardship Grant 2017-20

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A passive infrared trail counter was installed along the trail to monitor visitor use and activity patterns. The resulting trail use data quantifies how many people use the trail at different times during the day, different days of the week, and months of the year. Important baseline data is now being collected and shared with our conservation neighbours, the Nature Trust of BC (Hoodoos).

Plans have also been made for the continued monitoring and rehabilitation of side trails throughout the 2018 field season.

3. COMMUNICATIONS

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

Leading into the summer of 2017, it was NCC's intention to host a public celebration at the Dutch Creek Hoodoos where new signage, upgraded trails and decommissioned trails would have been announced. Due to the closures of NCC conservation areas province-wide because of the extreme fire risk, this celebration was not carried out in 2017. Plans have been made to host this celebration in the spring of 2018 and will see the participation of local, regional and provincial media. An invitation to the event will be sent to HCTF and other partner organizations once the date has been established.

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

HCTF's funding partnership, and logo, are mentioned and displayed on the new interpretive signage that has been installed at the Dutch Creek Hoodoos (see photos sent along with this report).

Mention of the HCTF funding contribution to the Dutch Creek Hoodoos was posted on NCC's national website under Partners in Conservation:

<http://www.natureconservancy.ca/en/where-we-work/british-columbia/featured-projects/dutch-creek-hoodoos.html>

Media Coverage: Provide a list of any articles or media coverage during the year.

Please see above "Project Outreach Activities."

4. PHOTOS



Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description: Barrier_reduction_foot-traffic: Photo shows main trail on right side of barrier is well used by people and a significant reduction in foot traffic on the left side where vegetation is recovering. November 2017

Photo 2 File name and Photo Description: Trail_before&after01: Upper trail photo shows wet muddy spring conditions on left and gravel treatment on right.

Photo 3 File name and Photo Description: Trail_before&after02: Mid-trail photo shows wet muddy spring conditions on left and gravel treatment on right.

Photo 4 File name and Photo Description: Viewpoint_barriers_regrowth: Photo shows where people are directed to viewpoint panel and significant reduction in foot traffic beyond the barriers where vegetation is recovering.

Photo 5 File name and Photo Description: Main viewpoint_before&after: View beyond the barriers where people were wandering throughout the site (top) and same view after barriers were installed showing reduction in foot traffic (bottom). Top photo is 21 April 2017 and bottom photo is 29 November 2017.

Photo 6 File name and Photo Description: DCH welcome panel: Photo of first interpretive panel at entrance to NCC's Dutch Creek Hoodoos property.

Photo 7 File name and Photo Description: DCH funding logos_HCTF: Close-up of partners funding logos on bottom of each interpretive panel (5) showing HCTF logo.

5. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Year 1 Reporting Instructions for information on Capital Assets.

N/A



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

Provide any other information you wish to share with HCTF.

Access management and incompatible human use is one of NCC's main challenges in delivering conservation solutions that incorporates both the needs of people and nature. The funding from HCTF has allowed us to integrate a conservation project that promotes connecting people to nature and enjoying a healthy lifestyle while protecting sensitive ecosystems in this unique area.

6. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature

Date

Print Name

Richard Klafki

Mar 29, 2018

Richard Klafki

7. SUBMIT YOUR GRANT REPORT

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 - Photos as JPG files
 - Copies of any print media articles (or provide links in report)
 - Invoice for next 30% advance, if 50% advance is fully spent

Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities	Progress on this Activity in Year 1 (Yes/No)	Completed Activity Description
Dutch Creek Hoodoos	Reflect the Rocky Mountain Trench Natural Area Conservation Plan (NACP)	Specific planning to handle increased human traffic for this increasingly popular site	Completion of a Second Phase Property Management Plan	update 2010 baseline study, install visitor counters, collaborate with local partners (Year 1)	Yes	Baseline updated and Second phase of Property Mangment Plan completed
				reassessing ecological threats and conservation priorities (Year 1)	Yes	Assessment completed and priorities incorporated into Second phase Property Management Plan
				action planning (Year 1)	Yes	Actions were incorporated into the Property Mangment Plan, and actions identified from fieldwork and were used in the trail rehabilitation project.
	Native vegetation and soils management	Reduce visitor-caused erosion	Implementation of stewardship activities including trail rehabilitation and marking	plan for preferred trail marking, directional signage, and braided trail decommissioning (Years 1 and 2)	Yes	The plan for preferred trail marking, directional signage, and braided trail decommissioning has been completed and is being implemented.
				design appropriate informational and indicative signage (Year 1)	Yes	The design of appropriate informational and directional signage has been completed.
				fabrication of and installation of interpretive signage on trails throughout property, trail rehabilitation (Years 1 to 3)	Yes	In 2017, we able to completed the fabrication of and installation of interpretive signage on trails throughout property, and have made significant progress on trail rehabilitation.
	Education and Awareness	Increase visitor respect for the site through understanding, appreciation, and NCC onsite profile	A series of 4 quality, engaging on-site interpretation panels	plan locations and content for series: geology, Ktunaxa creation story, Columbia Lake north development and Lot 48 (Years 1 and 2)	Yes	The locations and content for series of interpretive panels has been completed.
				design appropriate interpretation signs to increase visitor understanding of the sensitivity of the ecosystem (Years 1 and 2)	Yes	The design of appropriate interpretation signs to increase visitor understanding of the sensitivity of wildlife and ecosystems has been completed.
				fabrication and install interpretive panels on-site, including at entrances to the conservation property (Year 2)	Yes	The fabrication and install interpretive panels on-site, including at entrances to the conservation property has been completed.

5-288

Elkin Creek Nature Preserve



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

HCTF Project Number: 5 - 288

Please refer to the Land Stewardship Grant Year 1 Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customised for your project based on your proposal. This spreadsheet will be emailed to you.

1. PROJECT INFORMATION

Project/Property Name: Elkin Creek Nature Preserve 5-288

Project Leader Name: Wayne P. McCrory, RPBio.

Name of Organization: Valhalla Foundation for Ecology and Social Justice

Date of Report: February 20, 2018

Author of Report (if different than Project Leader):

Name of Organization:

Contact Information:

2. SUMMARY

Provide a general description of project work completed in Year 1 (500 words max). 482 words

A limited amount of time was spent on the stewardship plan. We developed a draft outline and lined up a freshwater fish biologist and wetland habitat mapping biologist for 2018. A draft provincial access policy over Supreme Court of Canada (SCC) Tribal lands to our Nature Preserve was obtained from Xeni Gwet'in Chief Roger William.

In early spring, we refined our planned wildlife-friendly fence design and flagged the fence lay-out - with some brushing. We built 100 m of experimental Russell fence with treated "X" post sections every 3.3 m distance where the fence crossed grassland habitat. We also built 50 m of regular type post and rail fence in wetland habitat with holes dug for treated posts. Two volunteers assisted. We modified the Montana wildlife-friendly fence model (for cattle, antelope, mule deer, etc.) using a three-pine railing system with the top rail 40" off the ground to allow ungulates to go over the fence and medium-sized mammals such as wolves to go through or over the middle-bottom railings - while keeping cattle out. Bears would either be able to clamber over or through the railings. We allowed for about 10 gate spaces, with four at road access points to six as wildlife access gates with sliding railings to be removed during the cattle off-season to allow easier wildlife passage; One of Xeni Gwet'in fencing



Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

subcontractors/ wildlife expert approved of the design but felt calves might get through; however, cattle are not run in the area until July when calves are quite large. From May 17 to early July, three experienced Xeni Gwet'in subcontractors constructed about 2 km of the fence using our model and flagged lay-out. Since we decided to use treated fence posts rather than local trees, these had to be hauled 120 km by the Xeni fencers from Williams Lake and then 11 km over a very rough road.

This made for a more durable fence while, however, adding considerable to the cost. Fence post costs were also doubled using the Russell fence design for drier habitats with two treated posts at each support section rather than one post sunk in the ground. We also increased the overall length of the fence. In late June we received HCTF approval to re-allocate \$6,000 of our 2017 HCTF budget to help finish the fence earlier than we anticipated. However, the project was stopped in early July due to the extreme wildlife situation. About 0.3 to 0.5 of fencing still needs to be completed through the main wetlands.

Currently, wolf biologist and VF Director Sadie Parr is assessing and GPS-ing the fence work done in the summer and also mapping of tracks of any wintering wildlife such as moose and wolves that might be crossing through the fence or the currently open gate sections. As she is still in the field for the next month am unable to provide an up-date.

3. COMMUNICATIONS

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

We communicated directly about the project with the Xeni Gwet'in Chief and Council, locals, the Xeni rancher who grazes his cattle in the region, and a private land-owner who accesses his property beyond ours and received positive feedback. We also sent two letters to Xeni Chief and Council (C & C) explaining the project, the hiring of Xeni fence contractors, permission and payment for pine railings cut from surrounding Tribal Title lands, and seeking input and comment on our eventual stewardship plan. Permission will be needed to divert the fence from our property to Tribal lands around an ox-bow in Elkin Creek. Currently, wolf biologist and VF Director Sadie Parr is in the area and setting up a meeting with C & C about the project while she is using the research cabin on the Nature Preserve to further her wolf ecology studies. HCTF funding support was mentioned in all communications.

Other outreach involving the project including HCTF funding support for fencing and stewardship at our Elkin Creek Nature Preserve was presented in a fund-raising Powerpoint to 30 people in the Kootenays in July at a wine-and-cheese party to raise funds for another VF wetland purchase; HCTF was given credit for funding the VF Elkin creek project.



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

Communication regarding HCTF funding was included in all of our discussions with Xeni Gwet'in band members, C & C as well as our letters to them regarding the project. It was also conveyed by word of mouth (the best way to communicate in the Chilcotin) to locals. As noted in the above section, HCTF funding support for the Elkin Creek Nature Preserve project was including in a fund-raising Powerpoint.

Media Coverage: Provide a list of any articles or media coverage during the year.

We did not do any media on the project last year since it is a low-key project in a very remote area not requiring that sort of publicity as yet. At the end of the project however we plan on doing a press release once we see how the fence is working and have completed the stewardship plan

4. PHOTOS

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description: HCTF-Project5-288,2018ReplImage1-WildlifePrototypefence.jpg. This shows the model prototype we used but with a modified design. We literally could find little information from locals and in the Chilcotin on wildlife friendly fences. Most related to Crown land have to be built according to specs. In the Trespass Act and are very wildlife unfriendly and over done in our opinion.

Photo 2 File name and Photo Description: ElkinCrFenceMay27-17#4.jpg
Shows model Russell fence built before subcontractors got started and gate section. Gates will be 10'-12' wide, depending on whether for just wildlife passage during the non-cattle season or for road access. Gates are planned to be 4-rail, with a sliding frame, using Cetoled cedar 4" x 4" timbers.

Photo 3 File name and Photo Description: ElkinCrFenceMay27-17#3.jpg
Russell Fence along West side bdy. of Elkin Creek Nature Preserve to keep cattle off of most bluegrass meadows, wetlands and trout & salmon stream (right side of fence). Left side of fence is now Tribal Title lands (SCC – Supreme Court of Canada) with Xeni-controlled cattle grazing; no longer "Crown" land grazing lease managed by BC govt.



Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

5. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Year 1 Reporting Instructions for information on Capital Assets.

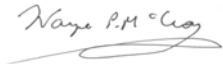
No capital assets

Provide any other information you wish to share with HCTF.

Our Board of Directors and supporters-at-large deeply appreciate HCTF providing the majority of the funding to make this work. Due to the 2017 fence cost overrun VF has raised the additional funds to allow the project to be completed.

6. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature	Date	Print Name
	February 20, 2018	Wayne P. McCrory

7. SUBMIT YOUR GRANT REPORT

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 - Photos as JPG files



HABITAT
CONSERVATION TRUST
FOUNDATION

Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

- Copies of any print media articles (or provide links in report)
- Invoice for next 30% advance, if 50% advance is fully spent

Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Planned Activities	Progress on this Activity in Year 1 (Yes/No)	Completed Activity Description	
Elkin Creek Nature Preserve	Restore and maintain critical wildlife and fisheries habitats	Protect a valley bottom mosaic complex of sensitive stream, riparian, wetland and valley bottomlan bluegrass meadow habitats	2 km of wildlife-friendly fencing is installed around the sensitive habitat complex to prevent trespass by cattle from free-range adjacent lands that damage multiple habitats by trampling and over-grazing, especially to fish-stream and riparian habitats.	Research, design and build wildlife friendly fence in spring (year 1) around sensitvie habitats. Monitor and remove trespass cattle and repair fence. Monitor wildlife access.	Yes	About 2 km of fence done but fence was needed to be longer so still about 0.5 km to be done next year.	
				Fence inspection, monitoring and closing any gaps (year 2). Determine if wildlife such as wintering moose and seasonal grizzly bears are able to still access critical habitats			
				Fence inspection, monitoring and closing any gaps (year 3). Determine if wildlife such as wintering moose and seasonal grizzly bears are able to still access critical habitats			
	Develop a 10-year stewardship plan	Establish a professional-level document with some local input to manage and preserve over the long term high wetland, wildlife and connectivity values	A 10-year steward ship plan using Best Management Practices for preserving high wildlife/ecological values; based on technical inventory of habitats; fish-stream values, grizzly bear and other canrivores, moose and mule deer, birds, species at risk (e.g. rare plant communities, sharp-tailed grouse). Plan to include input from locals, tourism lodge, cattle rancher, First Nations, BC Parks. To include public access management to a nerarby provincial park and for hunting, trapping, research, etc.	Habitat and species inventories by staff and consultants (Year 1)	Yes	Start of field surveys, access review across FN title lands, consult with Xeni Gwet'in, other land-owner who uses our road for distant access, line up fresheater fisheries and wetlands habitat mapping	
				Habitat and species inventories by staff and consultants (Year 2). Input from local ranchers, trapper, private land owner using property for access, First Nations and others			
				Complete babitat and species inventories by staff and consultants (Year 3) and complete Stewardship planwith Best Management Practices.			
	Property Vision and/or Overall Management Goals for Property: The Valhalla Foundation's long-term vision for its Elkin Creek Nature Preserve is to restore (by fencing out trespass cattle grazing) and preserve a unique valley bottom mosaic of habitats including wetlands, riparian zones, important fish-bearing stream, bluegrass meadows and adjacent bunchgrass hillsides important for a great variety of wildlife, 11 freshwater fish species, Chinook salmon, species at risk, migratory and resident birds and others. Maintaining a major wildlife corridor for grizzly bears and other species and important wintering habitat for moose is an important goal. Our research cabin is used as a base for studies including an on-going wolf diet study. Besides long-term preservation our goal is to use the planned wildlife friendly "ecological fence" as a model for people to learn to protect sensitive riparian and fish habitats from cattle grazing impacts. Our preserve also enhances protection of nearby Nunsti Provincial Park.	Complete partial survey of boundaries and permanently mark	Make sure the main boundaries are clearly defined for the fencing project, access management	Main boundaries will be slashed out with permanent metal markers so that our fencing can be properly placed and people will know where the reserve is located	Complete existing boundary slashing and permanent metal posts for main areas of the preserve including areas to be fenced (Year 1)	Yes	Very limited. Did some boundary slashing for fence. Re-staked metal boundary posts from older survey.
					Complete boundary slashing and metal posts for other main areas of the Preserve (Year 2)		

5-289

Scout Island Nature Centre

Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

HCTF Project Number: ____5-289____

Please refer to the Land Stewardship Grant Year 1 Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customised for your project based on your proposal. This spreadsheet will be emailed to you.

1. PROJECT INFORMATION

Project/Property Name: Scout island Nature Reserve

Project Leader Name: Sue Hemphill

Name of Organization: Scout Island Nature Centre

Date of Report: March 15, 2018

Author of Report (if different than Project Leader): Ken MacKenzie

Name of Organization: Iverson & MacKenzie Biological Consulting Ltd.

Contact Information: 250-397-7403, email klmacken@bcinternet.net

2. SUMMARY

Provide a general description of project work completed in Year 1 (500 words max).

Invasive plant surveys with mapping were completed across the entire Scout Island Nature centre property including adjacent mainland areas. An invasive plant management plan was developed with the goal of reducing the incidence of invasive plants on the property. A monitoring plan was also developed to be implemented by volunteers, interest groups and staff to ensure that project objectives are being met.

Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

3. COMMUNICATIONS

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

Media Coverage: Provide a list of any articles or media coverage during the year.

4. PHOTOS

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description: goose_corridor.jpg
open area used by geese to access upland sites. Fenced and planted area to the left side of the photo has well developed riparian vegetation and few invasive plants.

Photo 2 File name and Photo Description: snowberry.jpg
area along otter point trail with snowberry and few invasive plants. Adjacent area without snowberry is dominated by invasive plants.

Photo 3 File name and Photo Description: toadflax.jpg
patch of Dalmatian toadflax on the dry, south slopes of the island at the south end of Scout Island Nature reserve.

Photo 4. mecinus.jpg
Toadflax stem weevil, *Mecinus*, seen on toadflax plant on scout island during invasive plant surveys.

Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

5. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Year 1 Reporting Instructions for information on Capital Assets.

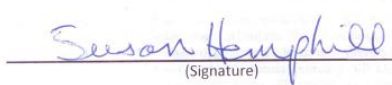
None

Provide any other information you wish to share with HCTF.

The management and monitoring plan can be provided if you want.

6. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature	Date	Print Name
 (Signature)	March 23 2018	Susan Hemphill

7. SUBMIT YOUR GRANT REPORT

- Save this report using the Project # and grant year in the filename. Example: 1-123 Grant Report 2017-18
- Please send your Year 1 Grant Report to Christina Waddle, Conservation Specialist at christina.waddle@hctf.ca or by fax to 250-590-6614.
- Your report should include the following:
 - Completed Year 1 Grant Report Form (this document)
 - Completed Year 1 Activities and Expenditures Report
 - Photos as JPG files
 - Copies of any print media articles (or provide links in report)
 - Invoice for next 30% advance, if 50% advance is fully spent

Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities	Progress on this Activity in Year 1 (Yes/No)	Completed Activity Description
Scout Island Nature Centre	Decrease the area covered by invasive plant species	Plan developed that details a multi year process that includes:species inventory; distribution ; control/mitigation measures; monitoring plan	Plan is successful in guiding the work carried out over the next 3 years	Invasive plant specialist does species inventory and distribution with support from staff	Yes	Mapping and site descriptions completed in June 2017. Some infestations had been id prior to inventory, so invasive plant density could not be described for those sites.
				Specialist researches and suggests mitagation/control techniques that is developed into a 2-3 year work plan with input from Field Naturalists	Yes	Mitigation and control strategies have been developed for each invasive species.
				Monitoring plan is designed by specialist and staff and contractor begins mitgition steps taken late summer of 2017	Yes	Normal, ongoing weed control activities were undertaken by volunteers. No mitigation steps were taken in 2017 due to wildfire evacuations and area closure. Monitoring plan developed.
	Decrease the area covered by invasive plant species	Targeted Invasive plants are removed	Incidence of Burdock, Stickseed, yellow toad flax, tansy, and Nightshade is reduced by 50%	Contractor uses agreed mitigation techniques for burdock, toadflax, night shade, tansy, and stick weed	No	Planned for 2018
				contractor and staff monitor success of techniques and alter focus if needed 2019	No	
				contractor and staff design a plan for controll of these species after 2020	No	
		Patches of Canada Thistle and mustard species are removed and incidence controlled	areas dominated by Canada thistle and mustard are removed and incidental Canada Thistle are controlled so patches do not form and spread	contractor uses agreed mitigation for Canada Thistle and mustard species	No	Planned for 2018
				contractor and staff monitor success of techniques and alter focus if needed 2019	No	
				contractor and staff design a plan for control after 2020	No	
		Geese over grazing and disturbance reduced	geese are no longer overgrazing so that native shrub species can establish	contractor and staff research techniques to deterring geese from overgrazed areas and consult with MOE (exclosures, planting of shrubs...) and decide a technique to trial	Yes	Developed strategy to exclude geese from upland weedy sites to allow vegetation recovery.
				inform public of plan	No	Planned for 2018, signage in nature house and at site.
				trial 2018-2019 and assess results	No	
	Restore areas dominated by invasive plants	Plant native trees and shrubs and enhance growth of native plants already in place.	areas previoiusly dominated by Canada Thistle and mustard specieshave established native trees and shrubs growing	purchase 1 year old native shrubs and start some from seed (2017) and grow for 1 year in pots	Yes	Planned for 2018, have cottonwood and birch seedlings on order
				transplant shrubs and trees (already growing in our nursery) into areas cleared of thistle and mustard	No	Planned for 2018
				water and keep herbacious growth low to mitigate competiton 2018-2020 so that shrubs and trees can establish.	No	
	Community committed to maintaining and enhancing wildlife habitat	Classes, School Environmental Groups, and general community engage in stewardship of Scout Island Nature Centre	classes, groups, and individuals will have adopted areas of the Nature Centre to monitor invasive plants, remove invasive plants, and enhance the native plants.	assign designated areas to interested groups and individuals based on groups skill level and train them to assess the baseline (workshop on invasives and native species) for their adopted section -2017	No	
				weeds removed from each adopted site under the direction of staff and area native species planted or cared for 2018-2019	No	
				adopted sites monitored for changes and groups decide how to maintain their site to keep invasives out or at a managable level.	No	

8-414

Quintal Floodplains



Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

HCTF Project Number: ____8-414____

Please refer to the Land Stewardship Grant Year 1 Reporting Instructions when completing this report.

This report must be completed in conjunction with the Activities and Expenditures Report (spreadsheet) customised for your project based on your proposal. This spreadsheet will be emailed to you.

1. PROJECT INFORMATION

Project/Property Name: Quintal Floodplain

Project Leader Name: Bruce Harrison/Mackenzie Mazur

Name of Organization: Ducks Unlimited Canada

Date of Report: April 3 2018

Author of Report (if different than Project Leader): Sarah Nathan

Name of Organization: Ducks Unlimited Canada

Contact Information: s_nathan@ducks.ca 778-888-1706; #511-13370 78th Ave. Surrey BC V3W0H6

2. SUMMARY

Provide a general description of project work completed in Year 1 (500 words max).

In year-1 we focussed on removing invasive vegetation and re-seeding the site. This included removal of herbaceous weeds, particularly Canada thistle and purple loosestrife, as well as the invasive woody shrub, Russian Olive, by mechanical methods and stump treatment (see photos 2 and 3). In late August 2017, our contractor noted that while removal of Canada Thistle and Russian Olive is proceeding well using mechanical methods, purple loosestrife removal may require some chemical inputs in Year 2.

Following removal of invasive vegetation, areas were re-seeded with native seed mix. Planting and seeding is behind schedule due to extremely wet site conditions in spring 2017, and extended winter conditions in 2018. In total, our contractors applied 216 Kg of native seed to the site.

Native shrub planting and live-staking was completed in late March, and is ongoing for the first week of April. We anticipate that 300 5-Gallon potted shrubs (200 cottonwood, 100 mountain alder), and 450 live stakes (150 each of cottonwood, Pacific willow and dogwood) will be planted by April 6 2018.

Our work is behind schedule for end of Year-1, due to challenging weather conditions: the site was extremely wet in fall 2017, which precluded some of our works. March 2018 was much colder than usual



Land Stewardship Grant 2017-20

YEAR 1 REPORT FORM

in the project area, which resulted in further delays to work due to lingering snow and frozen ground. We anticipate catching up on plantings during Years 2 and 3.

3. COMMUNICATIONS

Project Outreach Activities: Provide information on any outreach activities during the year that directly relate to the project.

We have not completed any outreach activities during this first year of the project. As the project evolves further in years two and three, we will feature the work in DUC's publication the Pacific Flyer or other appropriate media platform.

Communicating about HCTF: Provide information on any activities specific to communicating about HCTF undertaken during the year.

When we publish stories about this project in years two and/or three, we will feature funding received by HCTF.

Media Coverage: Provide a list of any articles or media coverage during the year.

None this year.

4. PHOTOS

Include a minimum of three photos as part of your report, attached as separate JPG files. List the filenames below, plus a description of each photo.

Photo 1 File name and Photo Description: Quintal Floodplain Overview

Photo 2 File name and Photo Description: Russian Olive Removal

Photo 3 File name and Photo Description: Russian Olive Stump Treatment

5. ADDITIONAL DETAILS

Provide a description of any materials and supplies purchases funded by HCTF that are considered capital assets. See Year 1 Reporting Instructions for information on Capital Assets.




Land Stewardship Grant 2017-20 YEAR 1 REPORT FORM

None.

Provide any other information you wish to share with HCTF.

6. SIGNATURE

Certified that the project has been completed as reported and this report is an accurate reflection of project activities and expenditures per the HCTF Grant Agreement.

Proponent Signature	Date	Print Name
	April 3, 2018	Sarah Nathan

7. SUBMIT YOUR GRANT REPORT

- Save this report using the Project # and grant year in the filename. Example: 1-123 Grant Report 2017-18
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 - Photos as JPG files
 - Copies of any print media articles (or provide links in report)
 - Invoice for next 30% advance, if 50% advance is fully spent

Property/Complex Name:	Goal	Objective	Expected Outcome/Performance Indicators by End of Year 3	Activities	Progress on this Activity in Year 1 (Yes/No)	Completed Activity Description
Quintal Floodplain	Establish healthy riparian zones alongside restored wetlands.	Eradicate invasive plants on berms alongside restored oxbows.	Canada thistle, purple loosestrife, and other invasive plants removed from riparian zones around restored oxbows.	Spring/summer monitoring by staff to identify areas requiring further treatment for invasive plants (annual).	Yes	Staff and contractor visited site to identify areas requiring invasive plant treatment
				Refinement of treatment plan and site visit with weed removal contractor (annual).	Yes	Plan was developed further with weed contractor
				Chemical treatment of invasive plants by contractor (annual spraying in summer). May shift to mechanical treatment as the incidence of Canada thistle is reduced and native plant density increases at site.	Yes	Invasive removal shifted to mechanical treatments rather than spraying; monitoring and site visits indicated that more effort was required to remove weeds than to plant in year 1.
	Establish healthy riparian zones alongside restored wetlands.	Increase native riparian plant density on berms alongside restored oxbows.	Diverse community of native shrubs and trees (snowberry, rose, etc.) established in riparian zones around restored oxbows (3.5 hectares total).	Fall monitoring by staff to determine survival of planted stock and identify areas requiring further planting treatment (annual).	Yes	
				Refinement of planting plan and site visit with planting contractor (annual).	Yes	
				Infill planting and seeding to increase native plant density and discourage re-establishment of invasive plant species along berms. (Estimate 3,300 shrubs/trees planted over 3 years: Year1: 2,000; Year2: 900; Year3: 400. Note, seed may include non-native species selected to discourage re-establishment of fast-spreading invasive plants.)	Yes	We are under our goal of 2000 plants for year 1 due to the shift in priority to seeding and removing of invasive plants. planting of trees and shrubs was further constrained by weather (i.e. extremely wet spring 2017 and extended winter with heavy snowpack 2018).