limeline and Milestones	I	Ι
Task		Deliverables (on CD unless noted)
Project Phase	Milestones	
Activity	Output	File name
Task 1 – Rural Initiative – Terrell Cree	ek Sub-basin	
<u>Phase R-1</u> – Develop landown	er education/outreach progra	am
hire Advisor in the 1 st quarter – then	train	
1. Recruit and hire Landowner	Hired Rachel Vasak, ED	Contract, Independent Contractor
Resource Advisor	Nooksack Salmon	Announcement
	Enhancement, March 2011	
2. Advisor training, establish	Advisor was hired for her	Advisor Application 2010
stakeholder group	connection to watershed	
	and experience with	
	conservation education	
3. Form an Advisory Committee	Advisory committee was	Advisory Board Members List
and conduct regular meetings	formed	
4. Conduct social marketing effort	Social Marketing	Social Marketing Plan, Marketing
	Consultant Hired, Social	Consultant Announcement
	Marketing Plan Completed	
	April 2012	
5. Create, revise, compile and print	Brochures, Flyers and	Clean Terrell Brochure, Fact Sheets,
written materials	Newsletters created	State of Watershed Reports 2013,2015
		(SOW), Informational Postcards,
		Watershed Stewards Signs
6. Create website	update as needed	See www.chumsofterrellcreek.org/
<u>Phase R-2</u> – Implement program of ed	ducation, outreach & project c	levelopment
1. Advisory outreach to landowners	Expected: 300 farm/home	Landowner Outreach Tracking
5	visits	Spreadsheet
	Completed : 416 farm/home	
	visits	
	• 1 11	
2. Advisory assist landowners and	various phone calls,	Landowner Outreach Tracking
agencies	meetings, site visits	Spreadsheet
3. Advisor refers landowners to CD	referrals to CD for tech	See R-3-2 Below
for farm plans	assistance	
4. Conduct monthly or quarterly	monthly or quarterly	Advisory Board Meeting Summary
meetings of Advisory Committee	meetings	havisory board meeting Juliniary
5. Advisor attends meetings	BB Steering Committee,	BBWARM and BBSPD Agendas
w/partner agencies	BBWARM Advisory	22. That and Door D ligenaus
	Committee, and BB Shellfish	
	Protection District	
6. CD provides Advisor assistance	ongoing throughout	Landowner Outreach Tracking,
w/ public education/outreach	project	Invitations to
activities		Events/Tours/Workshops,
7. CD assists with completion of 20	Expected: 20 checklist and	All in folder named Farm Plans and
standard farm checklists and	10 plans Completed:	Checklists. Tally of all action reported in BB EPA Contact Tracking
development of 10 standard		

Timeline and Milestones		
Task		Deliverables (on CD unless noted)
Project Phase	Milestones	70
Activity	Output	File name
farm plans	22 Standard Farm Checklists, 7 Standard Farm Plans	Spreadsheet
 CD assists advisor w/maps & data bases to support education efforts 	Inventory/characterizatio n of all livestock operations in Terrell Creek sub watershed (2 full inventories were completed 2011 and 2014)	LivestockSurvey_2011, LivestockSurvey_2014
 Advisor educates landowners about BMPs 	Farm Visits and outreach materials	Landowner Outreach Tracking Spreadsheet, see Task1-R1.
10.0utreach to landowners in "protection and restoration" sub- watersheds	Expected: 30 homeowners take action to eliminate discharges of pathogens or nutrients	BB EPA Contact Tracking Spreadsheet
	Completed: 87 Homeowners took action!	
	43 planted native plants for habitat improvements	
	44 eliminate discharges of pathogens or nutrients	
Phase R-3 – Implement riparian BMP		
1. NSEA and CD will cooperate on stream restoration projects	Expected: 6 Restoration Projects, totaling 10 acres Completed: 27 Riparian Restoration Projects, 6 instream projects, totalling 73 acres of habitat	Restoration Projects Map and See "Riparian Projects and CREP projects" on BB EPA Contact Tracking Spreadsheet
	Expected: re-slope 1,500 ft of streambank Completed: : re-slope 2,600 ft of streambank	See "instream project length" on BB EPA Contact Tracking Spreadsheet
	Expected: 10 large woody debris arrays Completed: 51 large woody debris arrays	See "Instream Habitat" on BB EPA Contact Tracking Spreadsheet
	Expected: Re-meander 1,000 ft of stream Completed: Re-meander 2,600 ft of stream	See "instream project length" on BB EPA Contact Tracking Spreadsheet
2. CD will work with landowners	Expected: 20 standard	See "Farm Checklist/Farm Plan" on BB

Task		Deliverables (on CD unless noted)
Project Phase	Milestones	Denverables (on ob amess noted)
Activity	Output	File name
with livestock to provide farm plans and install Ag BMPs	farm checklists Completed: 23 standard farm checklists Expected: 10 board approved farm plans Completed: 7 board approved farm plans	EPA Contact Tracking Spreadsheet
	Expected: Install 5,000 ft of fencing Completed: Install 5,729 ft of fencing	See "Fence (Feet) and CREP Fencing (Feet)" in BB EPA Contact Tracking Spreadsheet
	Expected: \$61,365 in cost share for BMP installations Completed: \$54,706 in cost share for BMP installations	See BB EPA Cost Share Funding Summary
3. NSEA will develop a QAPP and collect water samples semi-	QAPP developed	WQ QAPP
monthly at four sites that bracket the rural initiative project area	Water quality samples taken	WQ sites
	Summary of WQ data collected	WQ report
Phase R-4 – Post-project evaluation		
 Obtain Focus Group Recommendations regard program messages, materials and activities 	Survey and landowner interviews	Assessment Survey, Assessment Cover Letter, Assessment Project Proposal
2. Compile/analyze landowner education/implementation data.	Summary of survey results and analysis	Cooperator Interview Summary, Assessment Summary
Phase R-5– Presentation of results an		
 Update the project website to show post-project evaluation and conclusions. 	Website showing project conclusions	See www.chumsofterrellcreek.org /chums-success-stories
2. Presentation of results to public and relevant agencies	Completed and on-going	BBWARM Committee Agenda, Agency Tour Invitation and Attendees 2014 & 2015, See Press Folder
3. Final report	f – final report after project	BB EPA Final Report
Phase R-6- Grant Administration		
 Administer and manage the project. Includes, but not limited to: maintenance of records, submittal of payment vouchers, 	continuous throughout project	

Task		Deliverables (on CD unless noted)
Project Phase	Milestones	
Activity	Output	File name
fiscal forms, progress reports, etc.		
 Progress reports shall be submitted semi-annually with a final report at the end of the project. 	SA - semi-annual reports (due month following qtr) f – final report after project	See FEATS reports

Task 2– Urban Stormwater Sub-watershed Masterplan		
Phase U-1 – Public involvement/outreach		
Birch Bay Watershed & Aquatic Resources Management (BBWARM) District Citizen Advisory Committee established as the stakeholder group 6/15/11	See www.bbwarm.whatcomco unty.org/about/committe e	
Quarterly stakeholder meeting 9/21/11, 11/16/11, 3/28/12, 6/20/12, 9/19/12, 11/28/12, 2/2/13, 11/28/12, 2/20/13, 10/16/13	Agendas	
First general public and stakeholder meeting 6/15/11 Northern Light articles 4/21/11, 6/23/11, 9/19/12 Meeting notices sent to interested public via the BBWARM email list. Quarterly public stakeholder meetings replaced a mid-point public meeting. Final Birch Bay Central North Subwatershed	See <u>www.bbwarm.whatcomco</u> <u>unty.org/programs/swmp</u>	
stakeholder group and		
Phase U-2 – Subwatershed Inventory and Hydrologic Analysis		
Whatcom County Public Works survey crew completed field inventory		
	eachBirch Bay Watershed & Aquatic ResourcesManagement (BBWARM)District Citizen Advisory Committee established as the stakeholder group 6/15/11Quarterly stakeholder meeting 9/21/11, 11/16/11, 3/28/12, 6/20/12, 9/19/12, 11/28/12, 2/2/13, 10/16/13First general public and stakeholder meeting 6/15/11Northern Light articles 4/21/11, 6/23/11, 9/19/12Meeting notices sent to interested public via the BBWARM email list.Quarterly public stakeholder meetings replaced a mid-point public meeting.Final Birch Bay Central North Subwatershed Master Plan presented to stakeholder group and general public 10/16/13Mhatcom County Public Works survey crew	

Timeline and Willestones		1
	in the subwatershed May –	
	November, 2011	
2. Develop a Quality Assurance	Completed and approved	
Project Plan	by EPA 5/18/11	
3. Conduct initial hydrologic and	Completed	See
hydraulic modeling including up		http://www.bbwarm.what
to 3 possible land use scenarios		comcounty.org/programs/
		swmp
		Dinch Dov Control North
		Birch Bay Central North Subwatershed Master Plan
		Appendix B Hydrologic
		and Hydraulic Analysis
4. Analyze the feasibility of	Completed	See
implementing the Birch Bay	completed	http://www.bbwarm.what
Action Plan Team proposed	The scope of this	comcounty.org/programs/
development recommendations	deliverable changed when	swmp
for Central North Subwatersheds	Whatcom County Council	1
	decided not to move	Birch Bay Central North
	forward with the Birch	Subwatershed Master Plan
	Bay Watershed Action	Chapter 5.
	Plan proposed voluntary	
	LID program and habitat	
	mitigation fund after the	
	Washington State	
	Department of Ecology	
	included the Birch Bay	
	Urban Growth Area in the	
	NPDES Phase II permit	
	area. Ecology made this	
	decision August 2012 and the Birch Bay UGA was	
	included in the NPDES	
	Phase II permit area	
	effective August 2013.	
5. Produce 1st draft subwatershed	Final draft Birch Bay	See
stormwater Masterplan	Central North	http://www.bbwarm.what
1	Subwatershed Master Plan	comcounty.org/programs/
	completed October 2013	swmp
	Final Birch Bay Central	
	North Subwatershed	
	Master Plan completed	
	December 2013	
Phase U-3 – Policy Analysis, developm		
1. Research literature and develop	Completed	BBSW Policy Memo
recommendation for inclusion of	l	

Timeline and Milestones		
subwatershed masterplan in local plans and development regulations		
2. Methods will be evaluated to further integrate LID solutions into BBWARM stormwater capital improvement list as preferred stormwater retrofits	Completed	See http://www.bbwarm.what comcounty.org/programs/ swmp Birch Bay Central North Subwatershed Master Plan Appendix C Capital Improvement Project Descriptions.
3. Develop proposed fiscal and funding policies	Completed	BBSW Policy Memo
4. Identify capital project needs and develop cost estimates	Completed	See: http://www.bbwarm.what comcounty.org/programs/ swmp
		See Birch Bay Central North Subwatershed Master Plan Chapters 6, 7, and Appendix C Capital Improvement Project Descriptions
5. Develop a capital improvement project phasing plan	Completed The capital project scoring and prioritization method established for the Central	See: http://www.bbwarm.what comcounty.org/programs/ swmp
	North Subwatershed was applied to all proposed capital projects in the BBWARM District in March 2013. The result was a prioritized list of 24 projects. This list was used to develop BBWARM's 6-year capital project plan.	See Birch Bay Central North Subwatershed Master Plan Chapter 7, and Appendix D Capital Improvement Project Priority Evaluation
Phase U-4 – Capital project(s) engine		
 Engineering design and construction of a selected capital improvement project(s) within the subwatershed 	Design phase Initiate permitting Construction bids Construction phase	See <u>www.bbwarm.whatcomco</u> <u>unty.org/programs/cip/co</u> <u>ttonwood</u> . Cottonwood CIP Handout

		CIP Bid Document Cottonwood CIP Design
Phase U-5 – Final report		
Participate in final report preparation and presentations as	Presentations to Whatcom County Council as	3-24-15 SWWS agenda
needed	preparation for adoption on 3/25/15	Subwatershed Planning Council Presentation