

TECHNICAL DESCRIPTION for COST SHARE FUNDS

Owner: XXXXXXXXXXXXXXXX

MCD Cooperator ID: NJS-VSP-!?

CPDS ID:

ADDRESS: Hammersley Inlet, WRIA-14A

FUNDING REQUEST: \$39,666

BMPs: 561-Heavy Use Area, 382-Fence, 575-Trails and Walkways, 381-Silvopasture

Critical Areas Identified: Wetland, Critical Aquifer Recharge Area, Erosion Risk, Fish and Wildlife Habitat.

Project Description:

This proposed project is located on W Business Park Rd. There are over 90 acres owned in a mix of hay, cattle pasture, maple syrup, and forested land. The property sits just west of two streams, Gosnell and Mill, which are categorized 4C as indicated by Department of Ecology Water Quality Atlas, with aquatic life use by salmonids for spawning, rearing, and migration.

According to WDFW Priority Habitat Map present species include:

- Coho (*Oncorhynchus kisutch*)
- Resident Coastal Cutthroat (*Oncorhynchus clarki*)
- Steelhead (*Oncorhynchus mykiss*) Occurrence only.
- Winter Steelhead (*Oncorhynchus mykiss*)
- Chum (*Oncorhynchus keta*) Occurrence only
- Fall Chum (*Oncorhynchus keta*)

The stream waters outlet shortly downstream into Hammersley Inlet, which WDFW indicates is a priority habitat for Pacific Herring, the mouth of the streams is a reported estuarine and marine wetland habitat. This project is within the boundaries of WRIA 14A Kennedy-Goldsborough.

The Kennedy-Goldsborough Basin (WRIA 14) Lead Entity's Salmon Recovery Strategy GeoPortal recognizes the Lower Gosnell and Mill Creek as the highest restoration priority and high conservation priority. Salmon abundance (reach) is rated highest and Salmon abundance (watershed) is rated highest as well. High priority actions pertaining to this landowner that are recommended by WRIA 14 Lead entity are restore and conserve native trees/shrubs in riparian corridor to cool in stream temperatures and reduce priority major fine sediment inputs, riparian livestock management. These VSP and matching funds will be utilized by the landowner and Mason Conservation District to address those concerns

TECHNICAL DESCRIPTION for COST SHARE FUNDS

There are wetland areas present on the property that the landowner wishes to protect by installing exclusion fencing to restrict livestock access. An Access Road will be paired with the proposed BMPs to help facilitate livestock movement when pastures are saturated and to mitigate nutrient and sediment runoff and compaction of the soils. Parts of the livestock confinement areas have been left bare and denuded by the present cattle, the landowner wishes to extend the protections to natural resource of their current HUA to an area perpendicular to the barn. The HUA will be poured concrete, with slight excavation possibly needed due to slopping of the land. Silvopasture would be a suggested practice for the portions of forested areas that livestock have access to. Mason CD's staff can help determine tree suitability and forage selection to ensure adequate ground cover of soils. Silvopasture planning and planting can help protect natural resources by reducing nutrient and sediment run off, and sequestering carbon by utilizing native trees.

- Heavy Use Area will allow for the restricting of livestock from pasture during wet seasonal weather and when pastures become saturated, HUA will be a cement pad with a poured wall for retention. An appropriate winter confinement strategy for livestock with mitigate resource concerns pertaining to nutrient and sediment pollution.
- Fencing will be used to exclude livestock from ponding wetland areas that are utilized as off channel breeding grounds for local salmonids.
- Trails and Walkways will be used to facilitate livestock movement when pastures are saturated and decrease exposed and denuded soils from repeated livestock usage.
- Silvopasture will help establish a groundcover on forested areas with bare and denuded soils, increase forage availability, and promote tree health. Current timber stand will need thinning. By establishing year-round ground cover the resource concern of sediment and turbidity shall be mitigating to within an acceptable threshold.

BMP Expected Lifespan:

- Heavy Use Area- 10 Years
- Fence-20 Years
- Trails and Walkways-10 Years
- Silvopasture Establishment-10 Years

TECHNICAL DESCRIPTION for COST SHARE FUNDS

Matching Funds or Partnering Projects: VSP funds will be utilized at a 75% reimbursement rate, with a 25% expected match from the landowner. **SRF funds will be utilized to partner this project with a riparian planting on Gosnell Creek to provide shade to Gosnell Creek to mitigate instream temperature concerns.**

Estimated Project Total

Code	BMP Description	Unit	Qty	Cost	Total	75% VSP Cost Share	25% Landowner Match
561	Heavy Use Area	Sq ft	800	23.00	\$18,400	13,800	4,600
382	Fence	feet	350	16.00	\$5,600	4,200	1,400
575	Trails and Walkways	Feet	200	33.33	\$6,666	4,999.50	1,666.50
381	Silvopasture	acre	2	4,500	\$9,000	6,750	2,250
	Project Total				\$39,666	29,749.50	9,916.50

Nick Schneider-MCD Planner

Date

7-12-2022

VSP Work Group Chair

Date
