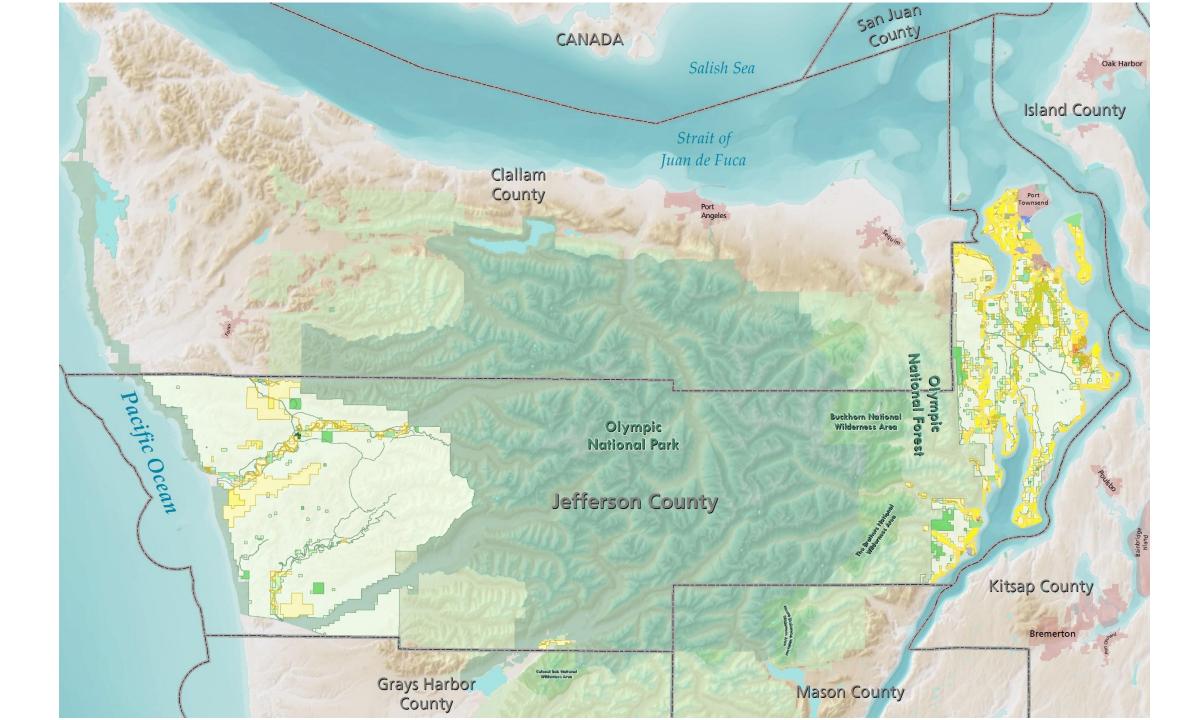
Jefferson County Shoreline Master Program Monitoring and Adaptive Management

Shoreline Master Program and No Net Loss of Shoreline Functions and Processes

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Jefferson County Monitoring

Enhancing Shoreline Protection Grant (aka No Net Loss Grant)

- Assessed implementation of an updated SMP
 - Planner review of application
 - Applicant compliance with permit conditions

Five Steps:

- 1. Determine the Reasons for Monitoring
- 2. Establish Key Objectives and Study Questions
- 3. Design the Monitoring Program
- 4. Determine the Monitoring Time Frame
- 5. Evaluate Results and Make Recommendations

Determine the Reasons for Monitoring

Purpose: Assess shoreline protection in Jefferson County through the shoreline permitting process.

- County SMP includes no net loss of shoreline functions.
- ➤ County SMP does not include indicators of shoreline function.



Establish Key Objectives and Study Questions

Objectives:

- Identify and monitor indicators of shoreline function
- Develop tools to assist planners reviewing shoreline applications
- Develop a database to track shoreline permitting applications, permitting decisions, and monitoring results
- Prepare a standardized shoreline monitoring field form
- Conduct monitoring site visits to verify compliance with permit conditions and approved site plan as well as post development conditions for no net loss indicators
- Prepare written guidance and templates for applying no net loss indicators that could be used by other local jurisdictions
- Provide technical assistance to property owners and professionals

Establish Key Objectives and Study Questions

Key Questions:

- Are submitted shoreline applications complying with SMP policies and regulations?
- Are shoreline permittees complying with the shoreline permit requirements?

Assumptions:

- Monitoring program should be designed for use in showing compliance during periodic review and update of SMP.
- Permits issued in compliance with the SMP should result in NNL of natural shoreline functions and processes.

Shoreline Permit Review

Prepare a shoreline permitting form for planners:

- Jefferson County form based loosely on Clallam County NNL form
- Page 1: application number, applicant information, project information, shoreline information
- Page 2: preliminary review for compliance with NNL
- Pages 3-7: detailed review for stormwater and critical areas
- Pages 8-19: detailed review of shoreline modifications
- Page 20: planner signature



Develop a Database to Track all Shoreline Permits

Спрроаго		Na Font Na Alignment		nment (a	i Mampet (A)		Cens					Equing								
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	А	B C K L M N			0	R	S	Т	U	V	W	Х	Υ							
1																				
2																				
3																				
4		APPLICATION TRACKING				KING		MONITORING												
5																				
6	Sequence	MLA Number	Case Number	Planner	Form	To ESA	Location	Project	Process	Site visit	Comments									
7				51111				, , , , , , , ,		0 /00 /004 5	0 /0 0 /0 0		1.11.1.		1 0/00/45					
8	1	MLA14-00025	SDP14-00007	DWJ	X	X	В, С	garage w/ workshop and tank	1		3/14/16 - se	ptic finale	d; building	not starte	d; 3/23/16	- nnl monit	oring site	visit based		
9	2	MLA14-00032	SDP14-00008	DWJ	X	X	III	olympia oyster habitat enhancement		6/8/2016			1 1:5 1			100/15 1		1.11		
10	3	MLA01-00308	SDP14-00009	DWJ	X	X	CC, DD	replace large woody debris	1	//14/2015	dwj to chec	k if started	and if oka	y to go on I	property 6,	30/15; dwj	ok'd as a	public acce		
11	4	MLA14-00035	SDP14-00010	JP	X	X	Snow Creek 1	remove sediments from fish trap area		7/44/2045		1.1					alo la c			
12	5	MLA14-00070	SDP14-00011	DWJ	X	X	FFF	maintenance dredge of marina	II .	+ * *	art burke ol		- wants to t	e out ther	e wnen we	are there	//8/15			
13	6	MLA14-00039	SDP14-00012	DWJ	X	X	A to L, DuR1, DoR1	guardrail maintenance	- !		_	o as needed 7/8/15								
14	7	MLA14-00044	SDP14-00013	JP	Х	X	BB, CC	paradise bay road maintenance				vsdot confirmed work has been completed slex said project has been completed 7/8/15								
15	8	MLA14-00045	SDP14-00015	DWJ	X	X	Н	maintain pier and dock at state park	1			•								
16	9	MLA14-00057	SDP14-00016	JP	X	X	X	replace hood canal bridge anchor cables	1		not considered - probably cannot see much 3/16/16 - permitting hung up at other agencies (work may not start before end of gr									
17	10	MLA14-00061	SDP14-00017	DLF	X	X2	V	marina dredge and dredge disposal	II.		3/16/16 - pe	ermitting h	nung up at o	other agen	cies (work	may not sta	art before	end of grai		
18	11	MLA14-00065	SDP14-00018	DLF				stream revetment and fill for sfr												
19	12	MLA14-00080	SDP14-00020	JP	X	X	CC	repair six creosote piles	1	3/22/2016	project has	not been	started as o	of 8/17/15						
20	13	MLA14-00085	SDP14-00021	DLF	X	X	CCC	dock and piling replacement	1											
21	14	MLA14-00089	SDP14-00022	MF	X	X	YY	mooring buoy	II.	8/16/2016										
22	15	MLA14-00094	SDP14-00023	DLF	X	X	Q, R, S	eelgrass restoration	1	8/16/2016										
23	16	MLA14-00105	SDP14-00024	JP	X	X	WEST END	fish passage culvert replacement	1	-	3/16/16 - dnr says project is complete									
24	17	MLA14-00108	SDP14-00025	DWJ	X	X	V	restore picnic area	1	-i		visit made 11/9/16, work not started; work not started per paul gronwell 8/26/15								
25	18	MLA14-00110	SDP14-00026	JP	X	X	BBB, CCC	shoreline restoration	1		soonest pro	•								
26	19	MLA15-00003	SDP15-00001	DLF	X	X	AA	replace drainage improvements	1	1	diana brow			rmission 8/	19/15					
27	20	MLA14-00012	SDP15-00002	JP	X	X	BBB	mitigate clearing for new sfr	1		call barbara									
28	21	MLA15-00016	SDP15-00003	DWJ	X	X	Α	replace floating dock	1	1	alex said pr	•		leted						
29	22	MLA15-00020	SDP15-00004	MF	X	X	PP	mooring buoy	II		having prob									
30	23	MLA15-00013	SDP15-00005	AB	X	X	BeausiteL	enlarge existing trail for ada compliance	1		ab to check									
31	24	MLA15-00022	SDP15-00006	JP	X	X	Snow Creek 1	remove sediments from fish trap area	I	i	cheri scalf o					•		7/8/15		
32	25	MLA15-00025	SDP15-00007	MF	X	X2	W	repave boat ramp	1	-	3/16/16 - pr	•								
33	26	MLA15-00030	SDP15-00008	DWJ	X	X2	D	new sfr	III	i	BLD 16-0019									
34	27	MLA15-00031	SDP15-00009	MF	X	X2	ا/ا	restore to pre-development conditions	1	i	8/9/16 - pei	Julian, co	ntracting g	oing slow s	o it has no	t started; 3	/16/16 - pe	er Mendy, J		
35	28	MLA15-00032	SDP15-00010	AB	X	X1	DoseR 1	cut logs w/ pieces to remain in river	1	3/23/2016										
36	29	MLA15-00044	SDP15-00012	JP	X		P	buffer reductions for new sfr	III		11/3/16 - pr	operty ow	ner did no	t authorize	DCD to be	on propert	y, would w	want to be		
37	30	MLA15-00050	SDP15-00013	AB	X	X1	GGG	replace bulkhead	replace bulkhead I 3/22/20:					5						

Identify Indicators of Shoreline Function

- All Shorelines:
 - Riparian Vegetation
 - Overwater/In-water Structures
- Marine
 - Areas of eelgrass and kelp
 - Shoreline Stabilization
 - Beach Access Structures

- River/Stream
 - Unaltered Floodplain/CMZ Area
 - Impervious Surface Cover
- Lake
 - Water Quality
 - Impervious Surface Cover

Develop a Field Monitoring Form

- Shoreline permit number, date of site visit, staff present
- Project information and shoreline information
- Construction status
- Photo log
- NNL indicators assessment for pre- and post-development conditions
- Site observations and additional general comments

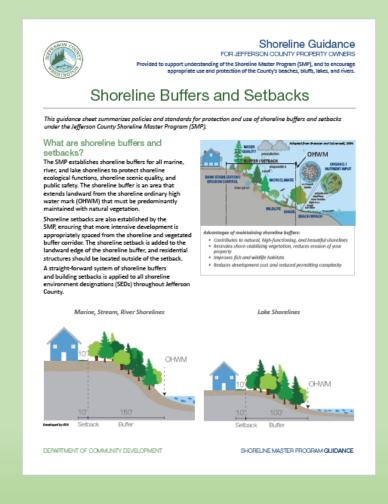


Create Monitoring Database

	Α	В		D			G	K	L	M	AA	AB	AE	AF	AG	AH	AI	
							ing Matrix (updated thru	November 8, 20	16)									
2	NNL Checklist Information (Basic Project Information) - MARINE SHORELINES											water/In-water				Site Visit / NNL Observations		
,	Case #	Landowner Name	Project Address	Parcel Number	Type of Ownership	Development Type	Development Summary	Shoreline Type	Waterbody Name	Shoreline Reach	Pre-development number of structures by type	Post-development number of	Describe any variations from permit.	Describe any mitigation.	Is the project a restoration project? (If yes, describe type, area, etc.)	Other shoreline development components with implications for NNL? If yes, describe.	Additional Comments	
3						Residential-			Fisherman		structures by type	structures by type	perinic.		type, area, etc./	•	Concern about future need for armor ar	
	BLD14-	David &	107 Burnt Tree Lane.			Primary			Harbor								Landslide buffer zone reduced from 30-	
		Diane Bowe	Quilcene, WA, 98376	501 041 039	Private	Structure	New SFR	Marine	(Hood	Т	N/A	N/A	None	N/A	No	No	to geotech report.	
			, ,			Shoreline						,	Length of					
						Stabilizatio	Nonstructural						armoring (90')					
		Ludlow Bay				n -	stablization along		Port				is shorter than				Applicant most likely used same permi	
		Village	N/Aopen space			Nonstructur	community open		Ludlow				length				permitted project in 2000 (never built).	
5	00009	Association	tracts	968 600 069	Private	al	space shoreline	Marine	Bay	CC & DD	N/A	N/A	permitted	N/A	No	No	was new construction or replacement (
							Dredging and					Only	Built to 8 feet			Eelgrass & kelp present in		
							disposal;				_	maintenance	waterward, 10			dredge disposal area &	New rock goes to edge of drop-off caus	
		Cape George		N/A		water	maintenance of		Discovery		1	performed; no	feet high;			***	break of drift cell. As jetty is built high	
6	00011	Colony Club	N/AMarina	Marina	Private	Structure-	docks, seawall	Marine	Bay	FFF	floats	change	permitted to	N/A	No	smothering during disposal	Permitted under maintenance	
		Steven &				Residential- accessory											Concrete vertical bulkhead extends app	
		Deborah	1681 Oak Bay Road,			structure	Septic system										toe. Overgrown, rotted wood stairs in r	
		Sampson		960 300 015	Drivate	(septic)	modification.	Marine	Oak Bay	нн	N/A	N/A	None	N/A	No		overgrown with RUUR, RUAR, HEHE.	
-	70120	Janipson	FOIL Haulock, 98339	300 300 013	Filvate	(septic)	mounication.	Marine	Oak bay	1111	N/A	N/A	Increase in	None -	NO	140	overgrown with Rook, Roak, Helle.	
													stairway	County				
													width, number	signed off				
													of landings.	on permit				
													and addition	without				
						Residential-							of 10' X 10'	requiring		Unpermitted construction		
	BLD14-	Paul & Susan	140 N Bay Way, Port			Accessory	Replace stairs to						deck at top of	additional		of 10' X 10' deck at top of		
8	00215	Barlock	Ludlow, 98365	976 800 015	Private	Structure	beach	Marine	Oak Bay	GG	N/A	N/A	bluff.	mitigation.	No	bluff.		
	SDP 14-		N/AHwy 101 MP	N/APublic			Replace guardrail		Hood								Replacement of guardrails and/or post	
9	00012	WSDOT	301.81 to MP 321.46	Road	Public		and posts	Marine/River	Canal	A-L	N/A	N/A	None	N/A	No	No	Same footprint. No removal of vegetati	
						l	Shoulder paving,											
			N/AParadise Bay			l	drainage										Roadwork isolated from stream and we	
		Jefferson		N/APublic	D. J. L.	Transportati	improvements,		Paradise							N	removal or excavation. Very small piec	
10	00013	County	1.53	Road	Public	on	striping, guardrails,	Marine	Bay	BB & CC	N/A	N/A	None	N/A	No	No Stormwater run-off from	jurisdiction. No construction at culverts	
						Filling/Excav	Drainago									neighborhood directed on		
			320 Tala Shore			ation of	improvements to									to property and pipe-		
	NDP 15-	Diana Brown	Drive, Port Ludlow.			Shoreline -	protect existing		Hood								Extra pipe at site; work may continue to	
		& John Weida		998 200 304	Private	septic	septic system.	Marine	Canal	AA	N/A	N/A	None	N/A	No	Could exacerbate slope	unlikely since engineer signed off on w	
				250 250 504		_	Mitigation planting					,	T		Yes (corrective	Yes, plants extremely		
						Mitigation	for removing								mitigation, for	small; plant mortality		
						for	vegetation from								violation); owner	present at time of site visit		
						Residential	FWHCA & landslide								cleared/placed fill	l'	Planting plan has large area that is "lo	
	IND 15.	Rarhara	33 Elston Ave Port				hazard area relation	L	Admiralty				<u> </u>	1	within protected	nacced habitat	Large cobblectone 10' v 20' May be im-	
	← →	Marin	e River Lake	Summa	ry Tables (Pivot) R	estoration Actions	Sheet2	(+)		1						•	

Other Grant Components:

- Technical assistance
- Prepare written guidance and templates for applying NNL indicators that could by used by other local jurisdictions
- Enforcement



Determine the Monitoring Time Frame

- Grant Started: 2010
- Locally Approved SMP: December 7, 2009
- SMP Effective Date: February 21, 2014
- Grant End Date: December 31, 2016

Evaluate Results and Make Recommendations

The good news:

- Planners generally reviewed proposals consistent with SMP
- Developers generally constructed project per the permit conditions and approved site plan
- Results indicate:
 - Permits issued under the SMP permits protecting natural shoreline ecological functions and processes
 - Baseline conditions are maintained

However, opportunities for improvement exist...

Evaluate Results and Make Recommendations

- Conduct site visits during application review
- Pull previous files, especially for maintenance and repair shoreline exemptions
- Better imagery/aerial photographs
- Require applicant to show limits of construction and have stormwater calculations for land disturbance and impervious surfaces agree with proposal drawings
- Require installation of orange construction barrier fencing prior to any clearing, grading, or other land alteration

Evaluate Results and Make Recommendations

- Marine Biologist
- Fisheries Biologist
- Wildlife Biologist
- Wetlands Biologist
- Geologist/Coastal Geologist
- Stormwater Engineer
- Hydrologist
- Arborist



