

Table 1: Geo-referenced T sheet source information

T-sheet Area	US Coast & Geodetic Survey Sheet #	Year of Survey	Surveyor	Map Scale
Neah Bay	386	1852	Lawson	10000
Port Ludlow	537	1855	Lawson	10000
New Dungeness – Spit	539	1855	Lawson	10000
Port Townsend Bay	581	1856	Lawson	10000
Point Wilson	582	1856	Lawson	10000
Point Wilson (revised)	582-1	1856	Lawson	10000
Port Gamble Bay	585	1856	Lawson	10000
Admiralty Inlet	669	1857	Lawson	10000
Port Discovery – N. Discovery Bay	1124	1868-69	Lawson	10000
Port Discovery – C. Discovery Bay	1125	1869	Lawson	10000
Port Discovery – S. Discovery Bay	1126	1869-70	Lawson	10000
Washington Harbor – Sequim Bay	1165	1870	Lawson	10000
New Dungeness	1168	1870	Lawson	10000
Protection Island – New Dungeness – Graysmarsh	1169	1870	Lawson	10000
Indian – Marrowstone Islands	1255	1871	Lawson	10000
Oak Bay	1304	1872	Lawson	10000
Port Gamble – Hazel Point	1556	1878	Gilbert	10000
Dabob and Quilcene Bays - North	1557a	1883	Gilbert	10000
Dabob and Quilcene Bays – South	1557b	1883	Gilbert	10000
Dabob Bay – Dosewallips	1558a	1883	Gilbert	10000
Hood Pt. – Hazel Pt.	1558b	1884	Gilbert	10000
Duckabush – Hood’s Point	1559a	1883	Gilbert	10000
Hama Hama – Anderson Cove	1559b	1883-84	Gilbert	10000
Lilliwaup – Dewatto and north and south	1560a	1884	Gilbert	10000
Anna’s Bay – Skokomish River	1560b	1884	Gilbert	10000
Tahuya and east toward Lynch Cove	1561a	1884	Gilbert	10000
Lynch Cove	1561b	1884	Gilbert	10000
Point Wilson – Port Townsend	HT2071	1891	Gilbert	4800
Glen Cove –Kah Tai	HT2072	1891	Gilbert	4800
Port Townsend Bay	2079	1891	Pratt	10000
Ediz Hook – Port Angeles	2109	1892	Gilbert	4800
Port Angeles East	2110	1892	Gilbert	4800
Agate Bay – Crescent Bay	2857	1908	Dibrell	4800
Freshwater Bay – Elwha River	2858	1908	Dibrell; Dunning	20000

Morse Creek – Dungeness	2859	1907-08	Quillian; Dunning; Dibrell	20000
Twin Rivers – Clallam Bay	2907	1908-09	Rhodes	20000
Clallam Bay – Neah Bay	2908	1908-09	Rhodes	20000
Salt Creek – Tongue Point	3048	1909	-	1000
Crescent Bay – Deep Creek	4182	1926	Aslakson; Witherbee	20000

Table 2: Other (not georeferenced) T sheet source information

T-sheet Area	US Coast & Geodetic Survey Sheet #	Year of Survey	Surveyor	Map Scale
Ediz Hook – Port Angeles Harbor	HT325	1852	-	10000
Port Townsend Bay Vicinity	H434	1854	Alder	10000
S. Port Townsend Bay – Oak Bay	3528	1915	Denson	10000
Teekalet Pt. – Pt. Julia	3552	1915	Patton	2500
Tongue Pt. – Ediz Hook	4187	1926	Witherbee	20000
N. Discovery Bay – Protection Island	4189	1926	Cotton	10000
S. Discovery Bay	4190	1926	Cotton	10000
Sequim Bay	4191	1926	Cotton	10000
Morse Cr. – New Dungeness	4193	1926	Cotton	20000
New Dungeness – Washington Harbor	4194	1926	Cotton	10000
Port Ludlow Bay	4283	1927	Jones	5000
Pt. Gamble Bay	4286	1927	Jones	5000
Foulweather Bluff – Lofall	4287	1927	Jones	10000
Mats Mats Bay - Foulweather Bluff	4307	1927	Jones	10000
Cape Flattery – Shipwreck Pt.	4633	1931	Mathisson	20000
Pillar Pt. – Deep Cr.	4634	1931	-	20000
Port Townsend Vicinity	6553	1937	Jones	5000

Table 3: Habitat Features Digitized from T-sheets and Contemporary Air Photos

Tidal Regime	Feature Type	Attribute	GIS Feature	
<i>Tidal</i>	kelp		line/poly	
	open beach (exposed)*		poly	
	rocks/boulders (large)		poly/point	
	lagoon	"connected" or "isolated"		poly
		deep water lagoon		poly
	channel	distributary (connected to river channel)		poly/line
		tidal channel (open or blind)		poly/line
		stream channel		poly/line
		sub-tidal (river channel)		poly/line
	marsh	salt marsh		poly
		submerged marsh		poly
		drift wood		poly
substrate**	boulders, gravel, sand, mud, etc.		poly/line	
	un-vegetated, driftwood, or grassland		poly/line	
<i>Non-tidal</i>	spit		poly/line	
	wetland	fresh marsh		poly
		fresh pond/lake		poly
		forest wetland		poly
		stream		line/poly
	upland	scrub-shrub wetland		poly
		forest		poly
		grassland		poly
		rock/island		poly/point
		eroded bluff		poly/line/point
		gravel, sand bar-unveg. (riverine)		poly
		sand dune		poly
	cultural	rocky bluff		poly/line/point
		scrub-shrub		poly
		agricultural, urban, or other artificial features		poly/ line/point

Table 4: General Land Office (GLO) Cadastral Survey Notes List (organized by Range and then Township)

Township/ Range	Section Line Date(s)	Meander Line Date(s)	Surveyor(s)
T26N R1E	1857, 1858, 04-05/1859, 1874	1857, 1858, 05-07/1859, 1874	William Carlton & Thomas Berry (1857), William Carlton (1858), John Trutch (1859), Van Vleet (1874)
T27N R1E	06-07/1859	06-07/1859	John Trutch (1859)
T28N R1E	07/1859	07/1859	John Trutch (1859)
T29N R1E	1855, 1857, 09/1858	1855, 1857, 1858	Hall (1855), William Carlton & Thomas Berry (1857), John Trutch (1858)
T30N R1E	1856, 10/1857, 09/1858	1856, 1857, 10/1858	Hunt (1856), William Carlton & Thomas Berry (1857), John Trutch (1858)
T22N R1W	1856	-	Isaac Smith & Thomas Berry (1856)
T23N R1W	08/1872	08/1872	William Jameson (1872)
T25N R1W	08/1859	08/1859	John Trutch (1859)
T26N R1W	08/1857, 07-08/1859, 1871	08/1859	William Carlton & Thomas Berry (1857), John Trutch (1859), Edgar Morgan (1871)
T27N R1W	08/1857, 08-09/1859	08-09/1859	William Carlton & Thomas Berry (1857), John Trutch (1859)
T29N R1W	1855, 1857, 04/1858, 1859, 1861, 09-10/1862, 1872-1873	1855, 1857, 1858, 1859, 1861, 1862, 1872-1873	Hall (1855), William Carlton & Thomas Berry (1857), John Trutch (1858), Whitworth (1861), Treadway (1859 & 1862), Edgar Morgan (1872-1873)
T30N R1W	1857, 06-07/1858, 1860-1861, 1862, 06/1863	1857, 08/1858, 1860-1861, 1862, 06/1863	William Carlton & Thomas Berry (1857), John Trutch (1858), Whitworth (1860-1861), Treadway (1862), Sloan (1863)
T31N R1W	1856, 1857, 04-07/1858, 1860	1856, 1857, 1858, 1860	Hunt (1856), William Carlton & Thomas Berry (1857), John Trutch (1858), Whitworth (1860)
T27N R2E	06/1859	06/1859	John Trutch (1859)
T28N R2E	1855, 06-07/1859	1855, 06/1859	Hall (1855), John Trutch (1859)
T22N R2W	09/1856, 08-09/1861	08-09/1861	Isaac Smith & Thomas Berry (1856), N.G. Terrill (1861)
T24N R2W	11-12/1876	11-12/1876	William Jameson (1876)
T25N R2W	07/1856, 08/1859, 10-11/1871	08/1859, 11/1871	John Trutch (1859), Edgar Morgan (1871)
T26N R2W	10-11/1871	11/1871	Edgar Morgan (1871)
T27N R2W	08-09/1877	09/1877	William Jameson (1877)
T29N R2W	1858, 1859, 10/1872-1873, 1891, 1903, 1914	1858, 1859, 12/1872-01/1873, 1891, 1903, 1914	John Trutch (1858), Treadway (1859), Edgar Morgan (1872-1873), George Kline (1891), McPherson (1903), Nelson (1914)
T30N R2W	04-06/1858	07/1858	John Trutch (1858)
T21N R3W	10/1873	10/1873	Thomas Reed (1873)
T22N R3W	08/1857, 08-09/1861	09/1861	N.G. Terrill (1861)

T23N R3W	03-04/1874	04/1874	Shoecraft (1874)
T24N R3W	11-12/1875	11-12/1875	William Jameson (1875)
T29N R3W	1858, 12/1872-1873, 12/1891	1858, 12/1891	John Trutch (1858), Edgar Morgan (1873), George Kline (1891)
T30N R3W	04-06/1858, 1891	06/1858, 1891	John Trutch (1858), George Kline (1891)
T21N R4W	08-09/1857, 08/1860, 09-10/1873	09/1861, 10/1873	William Carlton & Thomas Berry (1857), N.G. Terrill (1860-61), Thomas Reed (1873)
T22N R4W	02/1873	03,10/1873	William Jameson (02-03/1873), Thomas Reed (10/1873)
T30N R5W	05/1858, 09-11/1862, 04/1879, 1897	1858, 11/1862, 1879, 1897	John Trutch (1858), Henry & House (1862), Shoecraft (1879), Fitzhenry (1897)
T30N R6W	08-10/1862, 1863, 1879, 1897	08/1862, 1863, 06/1879, 1897	Henry (1862), Sloan (1863), Shoecraft (1879), Fitzhenry (1897)
T31N R7W	10/1862, 09/1864, 09- 10/1872, 1892	1862, 1864, 09/1872, 1892	Henry (1862), Treadway (1864), William Jameson (1872), Schwartz (1892)
T31N R8W	1864, 09-10/1872, 1888, 1892	10/1872	Treadway (1864), William Jameson (1872), James Sheets (1888 & 1892)
T31N R9W	1888, 1892	-	James Sheets (1888 & 1892)
T31N R10W	1864, 1885	10/1864, 1885	Treadway (1864), Ward (1885)
T31N R11W	1864, 1877	10/1864, 05/1877	Treadway (1864), Shoecraft (1877)
T32N R12W	1864, 1877, 1884, 1892	10/1864, 1877, 1884, 1892	Treadway (1864), Shoecraft (1877), Ward (1884), Graham & Shelton (1892)
T32N R13W	1892	04/1892	Shelton (1892)
T33N R15W	1897, 1915, 1925	10/1897, 1915, 1925	Shelton (1897), Stinson (1915), Betts (1925)

Table 5: Aerial Photography Source Details

Area	Date	Series	Origin	Source	Scale	Color /BW	Georeferenced (Y/N)	Projection/ Datum
<i>Skokomish R.</i>	1938	-	-	Puget Sound River History Project (PSRHP)	1:12,000	BW	Y (by PSRHP)	UTM NAD27 ZONE 10 METERS
<i>W. Olympic Peninsula</i>	1938	-	-	Makah Forestry	-	BW	N	-
<i>Hood Canal and E. Strait of Juan de Fuca Areas</i>	1939	GS-J	USGS	USDA Forest Service/PSRHP	1:30,000	BW	Y (by PSRHP)	UTM NAD27 ZONE 10 METERS
<i>Western Washington</i>	1942	-	US ARMY	ARMY COE	1:20,000	BW	N	-
<i>Belfair St. Park</i>	1946	-	-	WA State Parks	-	BW	N	-
<i>W. Olympic Peninsula</i>	1948	-	-	Makah Forestry	1:1,000	BW	N	-
<i>Clallam Co.</i>	1951	-	-	Merrill & Ring	-	BW	N	-
<i>Central Clallam Co.</i>	1955	DYE	U.S. Forest Service	UW Map Library	1:15,840	BW	N	-
<i>Central-Southern Hood Canal</i>	1956 - 1958	EBS	WA DOT	UW Map Library	1:12,000	BW	N	-
<i>Clallam Co.</i>	1957	-	-	WDFW	-	BW	N	-
<i>NE Olympic Peninsula</i>	1957	EBQ	CSS	UW Map Library	1:12,000	BW	N	-
<i>Olympic Peninsula</i>	1962	EJK	U.S. Forest Service	UW Map Library	1:12,000	BW	N	-
<i>Greater Puget Sound</i>	1965	WF	Pacific Aerial Survey	UW Map Library	1:60,000	BW	N	-
<i>Kitsap Co.</i>	1972	JK-72	WA DNR	UW Map Library	1:12,000	BW	N	-
<i>W. Olympic Peninsula</i>	1973	OL-H-73	WA DNR	UW Map Library	1:58,000	BW	N	-
<i>Western Washington</i>	1976 - 1977	Oblique s	WA DOE	WA DOE	-	Color	N	-
<i>W. Olympic Peninsula</i>	1977	OL-77	WA DNR	Makah Forestry	-	BW	N	-
<i>W. Olympic Peninsula</i>	1981	OSI-81	-	Makah Forestry	1:40,000	Color	N	-
<i>Western Washington</i>	1992 - 1997	Oblique s	WA DOE	WA DOE	-	Color	N	-
<i>W. Olympic Peninsula</i>	1995	-	WA DNR	WA DNR	-	Color	N	-
<i>South Shore Hood Canal</i>	1999	-	Mason Co.	Mason Co.	-	Color	Y	WA SPS NAD83 FEET
<i>Western Washington</i>	2000	OL-QT-00	WA DNR	WA DNR	1:12,000	BW	Y	WA SPN/SPS NAD83 FEET

Western Washington	2000 - 2002	Oblique	WA DOE	WA DOE	-	Color	N	-
Kitsap Co.	2001	-	Kitsap Co.	Kitsap Co.	-	Color	Y	WA SPN NAD83 FEET
Dosewallips R.	2002	-	PGST	PGST	-	Color	Y	UTM ZONE 10 NAD 83 METERS
Port Hadlock	2003	-	Jefferson Co. CS	Jefferson Co. CS	1:100	Color	Y	WA SPN NAD83 FEET
Western Washington	2003	OL-C-03	WA DNR	WA DNR	1:12,000	Color	N (Y by Point No Point Treaty Council)	WA SPN NAD83 FEET
Washington Harbor	2003	-	Jamestown S'Klallam Tribe (JKST)	Jamestown S'Klallam Tribe (JKST)	-	Color	N (Y by PNPTC)	WA SPN NAD83 FEET
Port Townsend	2004	-	Port Townsend	Port Townsend	1:100	Color	Y	WA SPN NAD83 FEET
Snow/Salmon Cr.	2004	-	JKST	JKST	-	Color	N (Y by PNPTC)	WA SPN NAD83 FEET
Skokomish R.	2004	-	Skokomish Tribe	Skokomish Tribe	-	Color	N	-
Blyn	2005	-	JKST	JKST	-	Color	N (Y by PNPTC)	WA SPN NAD83 FEET
Siebert Cr.	2006	-	JKST	JKST	-	Color	N	-

Table 6: Western Strait of Juan De Fuca Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Neah Bay</i>	Y	Y	0	0	Y	Fill, armoring	Updrift, upslope	Severely Impaired	Severely Impaired
<i>Sail River</i>	Y	Y	0	0	Y	Fill, dredging	Upslope	Unimpaired	Moderately Impaired
<i>Snow Cr.</i>	Y	Y	0	0	Y	Fill, armoring	Upslope	Impaired	Severely Impaired
<i>Bullman Cr.</i>	Y	Y	0	0	Y	Road	Upslope	Unimpaired	Moderately Impaired
<i>Rasmussen Cr.</i>	Y	Y	0	0	Y	Road	Unknown	Un-rated	Un-rated
<i>Jansen Cr.</i>	Y	Y	0	0	Y	Road	Unknown	Un-rated	Un-rated
<i>Olsen Cr.</i>	Y	Y	0	0	Y	Road	Unknown	Un-rated	Un-rated
<i>Sekiu R.</i>	Y	Y	0	2.1	Y	Road	Upslope, updrift	Unimpaired	Moderately Impaired
<i>Hoko R.</i>	Y	Y	0	1.54	Y	Dredging	Upslope, updrift	Impaired	Moderately Impaired
<i>Clallam R.</i>	Y	Y	0	0.56	Y	Tidal prism	Upslope, updrift	Impaired	Moderately Impaired

Table 7: Central Strait of Juan De Fuca Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Pysht R.</i>	Y	Y	114.48	51.61	Y	Dikes, dredging, fill	Upslope	Impaired	Severely Impaired
<i>Jim Cr.</i>	Y	Y	0	0	Y	Fill, dredging	Upslope	Impaired	Severely Impaired
<i>Deep Cr.</i>	Y	Y	0	0	Y	Road	Upslope	Impaired	Moderately Impaired
<i>East/West Twin R.</i>	Y	Y	0	0	Y	Road, fill	Upslope, updrift fill	Unimpaired	Moderately Impaired
<i>Murdock Cr.</i>	Y	Y	0	0	Y	Unknown	Upslope	Un-rated	Un-rated
<i>Lyre R.</i>	Y	Y	0	0	Y	Armoring, channelization	Upslope	Impaired	Moderately Impaired
<i>Field Cr.</i>	Y	Y	0	0	Y	Unknown	Unknown	Unimpaired	Functional
<i>Whiskey Cr.</i>	Y	Y	0	0	Y	Fill, jetty	Upslope	Impaired	Severely Impaired
<i>Salt Cr.</i>	Y	Y	31.78	21.33	Y	Dike, fill	Upslope	Impaired	Moderately Impaired

Table 8: Eastern Strait of Juan De Fuca Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Coville Cr.</i>	Y	Y	0	0	Y	Unknown	Unknown	Unimpaired	Functional
<i>Elwha R.</i>	Y	Y	6.15	9.18	Y	Dikes, roads	Upslope dam, seds.	Impaired	Severely Impaired
<i>Dry Cr.</i>	Y	Y	0	0	Y	Unknown	Upslope, updrift	Impaired	Severely Impaired
<i>Ediz Hook</i>	Y	Y	27.04	11.35	U	Armoring, fill	Updrift	Severely Impaired	Severely Impaired
<i>Port Angeles Harbor</i>	Y	Y	0	0	Y	Fill, urban	Upslope, updrift	Severely Impaired	Severely Impaired
<i>Lees Cr.</i>	Y	Y	0	0	Y	Fill (RR)	Upslope, updrift	Impaired	Severely Impaired
<i>Morse Cr.</i>	Y	Y	0	1.67	Y	Channelization	Upslope, updrift	Impaired	Severely Impaired
<i>Bagley Cr.</i>	Y	Y	0	0	Y	Unknown	Unknown	Unimpaired	Functional
<i>Siebert Cr.</i>	Y	Y	0	0	Y	Unknown	Upslope	Unimpaired	Functional
<i>McDonald Cr.</i>	Y	Y	0	0	Y	Unknown	Unknown	Unimpaired	Functional
<i>Dungeness Spit</i>	Y	Y	16.96	18.32	Y	Dike at base	Unknown	Unimpaired	Functional
<i>Cline Spit</i>	Y	Y	4.12	3.65	U	Road, dredging	Upslope	Impaired	Moderately Impaired
<i>Dungeness R.</i>	Y	Y	21.06	38.23	Y	Dikes, fill	Upslope, updrift	Impaired	Moderately Impaired
<i>Meadowbrook Cr.</i>	Y	Y	13.25	15.29	Y	Dikes, roads	Upslope, updrift	Severely Impaired	Severely Impaired
<i>Cassalery Cr.</i>	Y	Y	7.01	5.61	Y	Roads, channelization	Upslope, updrift	Severely Impaired	Severely Impaired
<i>Grays-marsh/ Gierin Cr.</i>	Y	Y	78.54	61.00	Y	Dikes, channelization	Upslope	Severely Impaired	Severely Impaired

Table 9: Sequim Bay Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Washington Harbor</i>	Y	Y	59.1	52.93	Y	Dike, fill	Upslope, updrift	Impaired	Moderately Impaired
<i>Johnson Cr/Pitship Pt.</i>	Y	Y	0.1	0	Y	Fill, roads	Upslope, updrift	Impaired	Lost
<i>Pitship Marsh</i>	Y	Y	2.44	1.75	Y	Road, fill	Updrift	Impaired	Severely Impaired
<i>Schoolhouse Pt.</i>	N	N	0.15	0.07	U	House, dock	Updrift	Unimpaired	Moderately Impaired
<i>S. Sequim Bay</i>	Y	Y	6.17	5.26	Y	Roads	Upslope	Impaired	Functional
<i>SE Sequim Spit</i>	Y	Y	5.44	5.28	Y	Fill at base	Unknown	Unimpaired	Functional
<i>Goose Pt.</i>	N	N	0	0	U	Unknown	Unknown	Unimpaired	Functional
<i>Hardwick Pt.</i>	U	N	0.81	0.54	U	Fill (road)	Unknown	Unimpaired	Moderately Impaired
<i>Paradise Cove</i>	Y	Y	6.18	6.05	U	Unknown	Unknown	Unimpaired	Functional
<i>Travis Spit</i>	N	N	2.31	1.72	U	Fill at base, road	Unknown	Unimpaired	Moderately Impaired

Table 10: Discovery Bay Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Kanem Pt.</i>	N	N	0	0	U	Unknown	Unknown	Unimpaired	Functional
<i>Violet Pt.</i>	N	Y*	3.62	1.91	U	Fill, dredging	Updrift	Impaired	Severely Impaired
<i>Thompson Lagoon</i>	N	N	2.48	2.42	Y	Unknown	Unknown	Unimpaired	Functional
<i>Diamond Pt.</i>	N	N	5.53	3.40	U	Fill (homes), armoring	Upslope	Impaired	Severely Impaired
<i>Eagle Cr.</i>	Y	Y	0.36	1.11	Y	Fill	Upslope	Unimpaired	Moderately Impaired
<i>Gardiner Lagoon</i>	U	Y	5.71	5.68	Y	Fill, dredging	Updrift, upslope	Impaired	Moderately Impaired
<i>Contractors' Pt.</i>	Y	Y	0.75	0	Y	Fill, road	Upslope	Severely Impaired	Severely Impaired
<i>Kalset Pt.</i>	N	N	0.61	1.14	U	Road, dock	Unknown	Unimpaired	Moderately Impaired
<i>Mill Pt.</i>	U	N	0	0	U	Fill**	Updrift	Unimpaired	Un-rated
<i>Maynard Lagoon</i>	Y	Y	0.3	0.57	Y	Fill (road, RR)	Updrift, upslope	Severely Impaired	Severely Impaired
<i>Snow/Salmon Cr.</i>	Y	Y	13.29	11.27	Y	Fill (road, RR), channelized	Upslope	Severely Impaired	Severely Impaired
<i>Discovery Junction Marsh</i>	Y	Y	0.79	0.95	Y	Fill, road	Updrift, upslope	Unimpaired	Moderately Impaired
<i>Fairmont Marsh</i>	Y	U	1.48	1.27	Y	Fill (RR)	Updrift, upslope	Impaired	Severely Impaired
<i>Woodman Marsh</i>	U	N	0	0.69	U	Unknown	Updrift, upslope	Unknown	Un-rated
<i>Tukey Spit</i>	Y	U	0.81	1.00	U	Driftlogs	Updrift	Impaired	Moderately Impaired
<i>Tukey Lagoon</i>	N	N	0.92	0.95	U	Unknown	Updrift	Unimpaired	Functional
<i>Beckett Pt.</i>	Y	N	5.17	4.12	U	Fill (homes), road	Updrift, upslope	Severely Impaired	Severely Impaired
<i>Cape George</i>	N	Y*	0.86	0.96	U	Fill, dredging	Upslope	Impaired	Lost

* Current surface water connectivity provided by dredged marina channel

** Historical (at time of earliest surveys) direct impacts were severe at Mill Point

Table 11: Port Townsend/Oak Bay Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Pt. Wilson</i>	N	N	0.65	0	U	Roads, buildings armoring	Updrift	Impaired	Severely Impaired
<i>Pt. Hudson</i>	N	Y*	10.92	1.78	U	Fill (urban)	Updrift, upslope	Severely Impaired	Lost
<i>Kah-Tai Lagoon</i>	N	N	44.82	17.15	U	Fill (urban)	Updrift, upslope	Severely Impaired	Severely Impaired
<i>Glen Cove</i>	N	N	25.78	10.90	Y	Dredging, fill (industrial)	Unknown	Impaired	Severely Impaired
<i>Kala Pt.</i>	U	Y	4.88	6.79	Y	Dredging? fill at base	Upslope	Unimpaired	Functional
<i>Chimacum Cr.</i>	Y	Y	6.71	7.76	Y	Fill (industrial)	Upslope, updrift	Impaired	Moderately Impaired
<i>Hadlock Lagoon</i>	Y	Y	0.37	0.46	Y	Fill at base, docks	Updrift	Impaired	Moderately Impaired
<i>Hadlock Marsh</i>	Y	Y	0.47	0.38	U	Fill	Updrift, upslope	Unimpaired	Functional
<i>Crane Pt.</i>	Y	N	2.33	0	U	Fill (military)	Updrift	Impaired	Lost
<i>Walan Pt.</i>	Y	Y	7.98	8.09	U	Road, buildings, driftlogs	Unknown	Impaired	Moderately Impaired
<i>NE Indian Spit</i>	Y	Y	6.08	0.58	U	Fill at base (military)	Updrift	Unimpaired	Severely Impaired
<i>Fawkes Marsh</i>	U	Y	0.21	0.57	U	Unknown	Unknown	Unimpaired	Functional
<i>Fawkes Spit</i>	Y	Y	0.97	1.50	U	Drift logs	Unknown	Unimpaired	Functional
<i>Kettle Marsh</i>	U	Y	0.28	0.44	U	Unknown	Unknown	Unimpaired	Functional
<i>Bishops Pt.</i>	Y	Y	1.04	0.71	U	Fill at base	Unknown	Unimpaired	Moderately Impaired
<i>SE Indian Marsh</i>	U	U	0.42	0.23	Y	Unknown	Unknown	Unimpaired	Moderately Impaired
<i>Scow Bay</i>	Y	Y	4.94	5.02	U	Fill (road)	Updrift	Impaired	Moderately Impaired
<i>Mystery Bay South</i>	Y	Y	0	0.18	Y	Fill (roads)	Unknown	Impaired	Moderately Impaired
<i>Nordland Marsh</i>	Y	N	0.29	0	U	Fill, docks	Updrift	Impaired	Lost
<i>Mystery Bay Lagoons</i>	Y	Y	1.08	1.17	Y	Fill	Updrift	Impaired	Moderately Impaired
<i>Sand Pt.</i>	U	U	0	0.74	U	Fill (home)	Updrift	Unimpaired	Functional
<i>Ditch Marsh</i>	Y	Y	2.40	1.60	U	Fill, driftlogs	Unknown	Impaired	Moderately Impaired
<i>Long Spit</i>	Y	N	10.22	2.04	U	Fill (military, park)	Updrift	Impaired	Severely Impaired

<i>Marrowstone Pt.</i>	N	N	1.28	2.17	U	Fill, armor	Unknown	Impaired	Moderately Impaired
<i>East Beach Spit</i>	U	U	0	0	U	Fill (park)	Unknown	Unknown	Un-rated
<i>Little Oak Bay</i>	Y	Y	4.04	15.62	Y	Dredging, fill, road	Updrift	Impaired	Severely Impaired
<i>S. Indian Lagoon</i>	Y	Y	7.67	8.65	Y	Unknown	Updrift	Unimpaired	Functional

* Current surface water connectivity provided by dredged marina channel

Table 12: Hood Canal Entrance Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Olele Marsh</i>	N	U	1.83	1.30	U	Fill, roads	Upslope	Impaired	Severely Impaired
<i>N. Mats Mats Marsh</i>	Y	Y	0.25	0.27	U	Unknown	Unknown	Unimpaired	Functional
<i>Piddling Cr.</i>	Y	Y	0	0	Y	Fill (home)	Upslope	Unimpaired	Un-rated
<i>S. Mats Mats Marsh</i>	Y	N	0.10	0	U	Fill, docks	Updrift	Impaired	Lost
<i>Basalt Marsh</i>	N	N	0.06	0	U	Unknown	Upslope, updrift	Unknown	Un-rated
<i>N. Ludlow Spit</i>	Y	N	0	0	Y	Fill (industrial)	Upslope	Impaired	Lost
<i>Ludlow Cr.</i>	Y	Y	0	0	Y	Fill (road)	Upslope	Impaired	Moderately Impaired
<i>Ludlow Lagoon</i>	Y	Y	5.05	2.93	Y	Roads, dikes, ditch	Upslope, updrift	Impaired	Severely Impaired
<i>S. Ludlow Marsh</i>	U	N	0.19	0	U	Fill	Unknown	Impaired	Lost
<i>E. Ludlow Marsh</i>	Y	Y	0.40	0.67	Y	Unknown	Unknown	Unimpaired	Functional
<i>Tala Marsh</i>	U	U	0.24	0.14	U	Fill (homes)	Updrift	Unimpaired	Moderately Impaired
<i>Bywater Bay</i>	Y	Y	23.73	24.77	Y	Unknown	Unknown	Unimpaired	Functional
<i>Pt. Hannon</i>	U	U	0.68	2.04	U	Unknown	Unknown	Unimpaired	Functional
<i>Termination Pt.</i>	U	U	0.85	1.12	U	Fill, road, dredge	Updrift	Impaired	Severely Impaired
<i>Point No Point Marsh</i>	Y	Y	16.64	10.04	Y	Fill (homes), roads, ditch	Updrift, upslope	Impaired	Severely Impaired
<i>Skunk Bay Marsh</i>	Y	U	4.03	0.96	Y	Fill (homes)	Updrift	Impaired	Severely Impaired
<i>Foulweather Marsh</i>	Y	Y	14.00	12.07	Y	Fill at base	Unknown	Unimpaired	Functional
<i>S. Foulweather Spit</i>	U	N	0.74	0	N	Fill (homes)	Updrift	Impaired	Lost
<i>Foulweather Lagoon</i>	U	U	7.81	9.32	Y	Dredged	Unknown	Unimpaired	Functional
<i>Driftwood Key</i>	Y	Y	10.96	2.11	Y	Fill (homes), dredged	Updrift, upslope	Impaired	Lost
<i>Hawk's Hole Cr.</i>	Y	Y	1.50	0.04	Y	Fill, channelized	Updrift, upslope	Impaired	Lost
<i>Pt. Julia</i>	Y	Y	3.80	3.62	Y	Fill (road)	Unknown	Unimpaired	Moderately Impaired
<i>Little Boston Cr.</i>	Y	Y	0	0	Y	Fill (hatchery)	Upslope	Severely Impaired	Severely Impaired
<i>Middle Cr.</i>	Y	Y	0	0	Y	Unknown	Upslope	Un-rated	Un-rated
<i>Martha John</i>	Y	Y	0	0	Y	Unknown	Upslope	Unimpaired	Functional

<i>Cr.</i>									
<i>S. Gamble Marsh</i>	U	N	0.19	0	U	Fill	Unknown	Impaired	Lost
<i>Gamble Cr.</i>	Y	Y	0.63	0.25	Y	Fill (road)	Upslope, updrift	Unimpaired	Moderately Impaired
<i>Ladine DeCouteau Cr.</i>	Y	Y	0	0	Y	Fill (road)	Upslope	Unimpaired	Moderately Impaired
<i>Teekalet Pt.</i>	U	N	0	0	U	Fill (industrial)	Updrift, upslope	Impaired	Lost
<i>Salisbury Pt.</i>	Y	N	3.01	0	Y	Fill (park, homes)	Updrift, upslope	Impaired	Lost

Table 13: North Hood Canal Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Shine Cr.</i>	Y	Y	33.35	20.59	Y	Fill (homes), road	Upslope, updrift	Impaired	Severely Impaired
<i>South Pt.</i>	Y	Y	20.99	5.70	Y	Fill (homes), dredging	Updrift	Impaired	Severely Impaired
<i>Nordstrom Cr.</i>	Y	Y	0	0	Y	Unknown	Unknown	Unimpaired	Functional
<i>Thorndyke Cr.</i>	Y	Y	30.72	34.85	Y	Unknown	Unknown	Unimpaired	Functional
<i>Green Pt.</i>	U	U	0.61	0.50	Y	Drift logs	Unknown	Unimpaired	Functional
<i>Puget Mill Co. Spit</i>	U	U	1.31	1.07	Y	Drift logs	Unknown	Unimpaired	Functional
<i>SE Toandos Lagoon</i>	U	Y	0	0.79	Y	Unknown	Unknown	Un-rated	Un-rated
<i>Hazel Pt.</i>	U	U	0	0	U	Drift logs	Unknown	Unimpaired	Functional
<i>Fishermans' Harbor Spit</i>	U	U	0	0	U	Unknown	Unknown	Unimpaired	Functional
<i>W. Oak Head Marsh</i>	N	U	0.67	0.57	Y	Unknown	Unknown	Unimpaired	Functional
<i>W. Spring Marsh</i>	U	N	1.00	0	U	Roads, fill (homes)	Updrift, upslope	Impaired	Lost
<i>Kinman Cr.</i>	Y	Y	0.91	0	Y	Fill (home)	Updrift, upslope	Impaired	Severely Impaired
<i>Lofall Marsh</i>	Y	N	2.03	0	U	Fill (homes)	Updrift, upslope	Impaired	Lost
<i>Jump Off Joe Cr.</i>	Y	Y	0	0	Y	Fill, ditch	Upslope, updrift	Un-rated	Un-rated
<i>Cattail Cr.</i>	Y	U	1.54	0	Y	Road, dam (military)	Upslope, updrift	Severely Impaired	Lost
<i>Floral Spit</i>	U	N	2.14	0.48	U	Fill (road, military)	Updrift	Impaired	Severely Impaired
<i>S. Floral Spit</i>	U	N	0	0	U	Fill (road, military)	Updrift	Impaired	Lost
<i>N. Devil's Hole Spit</i>	U	N	0.85	0	U	Fill (military)	Updrift	Impaired	Lost
<i>Devil's Hole Cr.</i>	Y	U	3.56	0	Y	Road, dam (military)	Upslope, updrift	Severely Impaired	Lost

<i>Three Spits</i>	U	N	0.67	0	U	Fill (military)	Updrift	Impaired	Lost
<i>Carlson Spit</i>	U	N	0.06	0.23	U	Fill, dock	Updrift	Impaired	Moderately Impaired
<i>Kings Spit</i>	U	U	0.85	0.59	U	Fill, drift logs	Updrift	Impaired	Moderately Impaired
<i>Bangor Lagoon</i>	U	Y	0	0.44	Y	Unknown	Unknown	Unimpaired	Functional
<i>Olympic View Cr.</i>	Y	Y	1.48	0.36	Y	Ditched, fill?	Unknown	Impaired	Severely Impaired

Table 14: Dabob Bay Sub- Region

Habitat Complex	Tidal Channel Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Zelatched Lagoon</i>	Y	Y	6.61	5.12	Y	Fill, road	Unknown	Unimpaired	Moderately Impaired
<i>W. Toandos Marsh</i>	Y	Y	0.49	0.33	Y	Fill at base	Unknown	Unimpaired	Moderately Impaired
<i>Camp Harmony Spits</i>	U	U	0	0	Y	Armor, fill	Unknown	Un-rated	Un-rated
<i>Tongue Spit</i>	Y	N	0	0	Y	Armor, fill	Unknown	Impaired	Lost
<i>Camp Discovery Spit</i>	Y	Y	0	0	Y	Fill (homes)	Upslope	Un-rated	Moderately Impaired
<i>Long Spit</i>	Y	Y	25.66	26.87	Y	Unknown	Unknown	Unimpaired	Functional
<i>Tarboo Cr.</i>	Y	Y	7.74	11.95	Y	Drift logs, road	Upslope	Unimpaired	Functional
<i>Broad Spit</i>	Y	Y	2.88	2.55	Y	Shellfish	Unknown	Unimpaired	Functional
<i>Tule Marsh</i>	N	N	1.08	0	U	Fill (homes)	Unknown	Impaired	Lost
<i>Lindsay Cr.</i>	Y	Y	0	0	Y	Unknown	Upslope	Un-rated	Un-rated
<i>Fishermans' Pt.</i>	Y	Y	2.06	1.77	U	Fill at base	Unknown	Unimpaired	Functional
<i>Upper Quilcene Bay</i>	Y	Y	51.11	72.73	Y	Dikes, road	Upslope	Impaired	Moderately Impaired
<i>Indian George Cr.</i>	Y	Y	4.31	1.57	Y	Fill (homes, marina)	Upslope, updrift	Impaired	Severely Impaired
<i>Whitney Pt.</i>	Y	Y	3.47	2.58	Y	Dike, fill	Unknown	Impaired	Moderately Impaired
<i>S. Whitney Marsh</i>	N	U	0.25	0.29	U	Unknown	Upslope	Unimpaired	Moderately Impaired
<i>Jackson Marsh</i>	N	N	0.50	0	U	Fill?	Updrift	Impaired	Severely Impaired
<i>Spencer Cr.</i>	Y	Y	0	0.32	Y	Road	Upslope	Impaired	Moderately Impaired
<i>Marple-Jackson Cr.</i>	Y	Y	0.58	1.39	Y	Fill (homes)	Upslope	Impaired	Moderately Impaired
<i>Smart Cove Lagoon</i>	Y	Y	4.51	3.28	Y	Fill (homes)	Updrift, upslope	Unimpaired	Moderately Impaired
<i>Turner Cr.</i>	Y	Y	0	0	Y	Road	Upslope	Impaired	Severely Impaired

Table 15: Central Hood Canal Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Dosewallips R.</i>	Y	Y	30.44	47.00	Y	Dikes, road	Upslope	Impaired	Moderately Impaired
<i>Pleasant Harbor Spit</i>	U	U	0	0.03	U	Fill at base	Unknown	Unimpaired	Moderately Impaired
<i>Black Point Marsh</i>	N	U	0.21	0	U	Fill (homes)	Unknown	Impaired	Lost
<i>Black Point</i>	Y	U	2.16	0.28	Y	Fill, road	Unknown	Impaired	Severely

<i>Lagoon</i>									Impaired
<i>Quatsap Pt.</i>	N	N	0.60	1.15	U	Unknown	Updrift	Unimpaired	Functional
<i>Duckabush R.</i>	Y	Y	25.35	39.94	Y	Road, dikes	Upslope	Impaired	Moderately Impaired
<i>McDonald Cr.</i>	Y	Y	0.29	0.35	Y	Road, fill	Upslope	Impaired	Moderately Impaired
<i>Fulton Cr.</i>	Y	Y	2.50	1.12	Y	Fill (road), dredging	Upslope	Impaired	Severely Impaired
<i>Triton Marsh</i>	N	Y	0.41	0.41	U	Dredged, armoring	Upslope	Impaired	Moderately Impaired
<i>Schaerer Cr.</i>	Y	Y	0.43	0.33	Y	Road, fill	Upslope	Impaired	Severely Impaired
<i>Wacketickeh Cr.</i>	Y	Y	0.33	1.09	Y	Road, fill	Upslope	Impaired	Severely Impaired
<i>Hamma Hamma R.</i>	Y	Y	21.50	35.26	Y	Road, dikes	Upslope	Impaired	Severely Impaired
<i>Jorsted Cr.</i>	Y	Y	2.20	0.29	Y	Road, fill (homes)	Upslope	Impaired	Severely Impaired
<i>E. Anderson Marsh</i>	U	N	0.17	0	Y	Fill (home)	Unknown	Impaired	Lost
<i>Little Anderson Cr.</i>	Y	Y	1.55	1.82	Y	Fill (home), cult.	Upslope	Unimpaired	Functional
<i>Johnson Cr.</i>	Y	Y	0.14	0	Y	Fill, channeliz.	Upslope	Impaired	Severely Impaired
<i>E. Beef Marsh</i>	N	N	0.48	0	U	Fill (homes)	Unknown	Impaired	Lost
<i>Big Beef Cr.</i>	Y	Y	12.25	11.63	Y	Fill, road, channeliz.	Upslope, updrift	Impaired	Moderately Impaired
<i>Little Beef Cr.</i>	Y	Y	1.51	1.32	Y	Road	Unknown	Unimpaired	Functional
<i>Seabeck Spit</i>	Y	U	1.27	1.54	U	Fill (road, industrial)	Updrift	Impaired	Severely Impaired
<i>Seabeck Cr.</i>	Y	Y	0	0.82	Y	Unknown	Upslope	Unimpaired	Moderately Impaired
<i>Nick's Lagoon</i>	Y	Y	1.88	2.28	Y	Fill (old road)	Upslope	Unimpaired	Functional
<i>Misery Pt.</i>	Y	Y	1.60	1.50	U	Unknown	Unknown	Unimpaired	Functional
<i>Miami Beach Marsh</i>	Y	N	2.91	0	U	Fill (homes)	Updrift, upslope	Impaired	Lost
<i>Spear Fir Lagoon</i>	Y	Y	3.79	2.30	Y	Fill (home)	Updrift	Impaired	Moderately Impaired
<i>Stavis Cr.</i>	Y	Y	16.03	17.81	Y	Road	Upslope	Unimpaired	Functional
<i>Hood's Pt.</i>	Y	N	2.68	0	Y	Fill (home)	Updrift	Impaired	Lost
<i>Boyce Cr.</i>	Y	Y	1.30	1.32	Y	Fill	Updrift	Unimpaired	Functional
<i>Nellita Cr.</i>	Y	Y	0	0	Y	Unknown	Updrift	Un-rated	Un-rated
<i>Harding Cr.</i>	Y	Y	0	0	Y	Unknown	Unknown	Un-rated	Un-rated
<i>Tekiu Pt.</i>	N	U	0.39	0.24	U	Fill (homes)	Updrift	Impaired	Moderately Impaired
<i>Big Anderson Cr.</i>	Y	Y	0.41	3.06	Y	Roads and RR grade	Upslope	Impaired	Moderately Impaired
<i>Thomas Cr.</i>	Y	Y	0	0	Y	Unknown	Unknown	Un-rated	Un-rated
<i>Holly Marshes</i>	U	N	1.20	0	Y	Fill, road (homes)	Updrift, upslope	Impaired	Lost
<i>Chinom Pt.</i>	Y	U	0.37	0.29	Y	Unknown	Unknown	Unimpaired	Moderately Impaired

Table 16: South Hood Canal Sub-Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Ayock Pt.</i>	Y	Y	2.61	0.40	Y	Fill (homes)	Updrift	Impaired	Severely Impaired
<i>Eagle Cr.</i>	Y	Y	3.34	0.17	Y	Fill (road)	Upslope, updrift	Impaired	Severely Impaired
<i>Cabin Marsh</i>	U	N	0.20	0	U	Fill (homes)	Updrift	Impaired	Lost
<i>Lilliwaup Cr.</i>	Y	Y	3.46	6.88	Y	Dikes, fill (road), dredging	Upslope	Impaired	Moderately Impaired
<i>Little Lilliwaup Cr.</i>	Y	Y	0	0	Y	Fill (road)	Unknown	Impaired	Moderately Impaired
<i>Sund Cr.</i>	Y	Y	0.30	0.46	Y	Fill (road, homes)	Upslope	Impaired	Severely Impaired
<i>Miller Cr.</i>	Y	Y	1.31	0.18	Y	Fill (road, homes)	Upslope	Impaired	Severely Impaired
<i>Clark Cr.</i>	Y	Y	0	0	Y	Fill (road)	Unknown	Impaired	Severely Impaired
<i>Finch Cr.</i>	Y	Y	0	0	Y	Fill (hatchery, road)	Upslope	Impaired	Severely Impaired
<i>Neelim Marsh</i>	Y	Y	0.57	0.65	U	Fill (homes)	Updrift, upslope	Impaired	Moderately Impaired
<i>Potlatch Marsh</i>	Y	N	1.01	0	Y	Fill (park, homes)	Updrift, upslope	Impaired	Lost
<i>Enati Cr.</i>	Y	Y	0	0.60	Y	Road	Upslope	Impaired	Moderately Impaired
<i>Skokomish R.</i>	Y	Y	227.90	284.19	Y	Dikes, fill	Upslope	Impaired	Severely Impaired
<i>Dalby Cr.</i>	Y	Y	0.29	0.97	Y	Fill (road)	Upslope	Impaired	Moderately Impaired
<i>Dewatto R.</i>	Y	Y	8.00	8.50	Y	Dike, dredging	Unknown	Unimpaired	Functional
<i>Little Dewatto Cr.</i>	Y	Y	0	0.75	Y	Unknown	Upslope	Unimpaired	Functional
<i>Two Points Marsh</i>	U	U	0.11	0.05	U	Unknown	Updrift	Unimpaired	Functional
<i>Red Bluff Marsh</i>	U	Y	0	0.19	Y	Unknown	Updrift	Unimpaired	Functional
<i>Cougar Spit</i>	U	U	0.29	0.31	U	Fill (homes)	Updrift	Impaired	Moderately Impaired
<i>Rendsland Cr.</i>	Y	Y	1.33	0.66	Y	Dredged, fill (road, homes)	Upslope	Impaired	Severely Impaired
<i>Brown's Pt.</i>	Y	Y	1.85	1.07	Y	Fill (homes)	Updrift	Impaired	Severely Impaired
<i>Hall Marsh</i>	U	U	0.28	0.21	U	Fill (homes)	Updrift	Impaired	Severely Impaired
<i>Hogan's</i>	Y	N	1.01	0	Y	Fill	Updrift,	Impaired	Lost

<i>Spit/Caldervin Cr.</i>						(homes)	upslope		
<i>Tahuya R.</i>	Y	Y	16.24	19.79	Y	Road	Unknown	Unimpaired	Functional

Table 17: Hood Canal Hook Sub- Region

Habitat Complex	Surface Water Connectivity		Tidal Wetland (ha)		Fresh water Input	Direct Impacts	Indirect Impacts	Overall Connectivity	Relative Condition
	Hist.	Curr.	Hist.	Curr.					
<i>Sisters Marsh</i>	Y	U	0.17	0.08	U	Fill (homes)	Updrift	Impaired	Severely Impaired
<i>Shoofly Cr./Big Spit</i>	Y	Y	2.15	0.65	Y	Fill (homes)	Updrift, upslope	Impaired	Severely Impaired
<i>Little Shoofly Cr.</i>	Y	Y	0.42	0.14	Y	Fill (homes), dredged	Updrift, upslope	Impaired	Severely Impaired
<i>47 Degree Marsh</i>	U	N	0.21	0	Y	Fill (homes, road)	Updrift	Impaired	Lost
<i>Sword Spit</i>	Y	Y	0.95	2.21	Y	Fill (homes)	Updrift	Impaired	Severely Impaired
<i>E. Sword Marsh</i>	N	N	0.07	0	U	Fill (homes)	Updrift	Impaired	Lost
<i>Stimson Cr./Peirce Spit</i>	Y	Y	2.93	1.76	Y	Fill (homes)	Updrift, upslope	Impaired	Severely Impaired
<i>Sunbeach Spit</i>	Y	Y	0.02	0.96	U	Fill, bulkheads	Updrift	Impaired	Severely Impaired
<i>Sunbeach Marshes</i>	Y	Y	2.58	0.90	Y	Fill (homes, bulkheads)	Updrift	Impaired	Severely Impaired
<i>Little Mission Cr.</i>	Y	Y	8.36	3.21	Y	Fill (park)	Upslope	Impaired	Severely Impaired
<i>Big Mission Cr.</i>	Y	Y	1.43	0.90	Y	Fill (park), channeliz.	Upslope	Impaired	Severely Impaired
<i>Old Road Marsh</i>	Y	Y	5.62	3.84	U	Dike, fill (homes)	Updrift	Impaired	Severely Impaired
<i>Lynch Cove</i>	Y	Y	91.33	92.83	Y	Dikes, fill (cult.)	Upslope	Impaired	Moderately Impaired
<i>Low Spit</i>	Y	Y	0.92	0.74	U	Docks	Updrift	Impaired	Moderately Impaired
<i>Rose Spit</i>	Y	Y	0	0	Y	Fill (home, bulkhead)	Updrift	Impaired	Severely Impaired
<i>Springbrook Cr.</i>	Y	Y	0	0	Y	Road	Unknown	Impaired	Moderately Impaired
<i>Sunset Beach Spit</i>	Y	Y	0	0.07	U	Fill at base	Updrift	Unimpaired	Moderately Impaired
<i>Holyoke Cr.</i>	Y	Y	0	0	Y	Fill (road, homes)	Updrift, upslope	Impaired	Moderately Impaired
<i>Granite Cr.</i>	Y	Y	0	0	Y	Fill (road)	Updrift, upslope	Impaired	Moderately Impaired
<i>Granite Marsh</i>	Y	N	0.50	0	U	Fill (homes)	Updrift	Impaired	Lost
<i>W. Granite</i>	Y	N	0	0	Y	Fill	Updrift	Impaired	Lost

<i>Spit</i>						(homes)			
<i>Forest Beach Cr.</i>	Y	Y	0	0	Y	Fill, bulkheads	Upslope, updrift	Impaired	Severely Impaired
<i>Twanoh Cr.</i>	Y	Y	1.67	0	Y	Fill (park)	Upslope, updrift	Impaired	Lost
<i>Morang Spit</i>	Y	N	0.19	0	U	Fill (homes)	Updrift	Impaired	Lost
<i>W. Morang Cr.</i>	Y	Y	0	0	Y	Fill (road, homes)	Upslope	Impaired	Severely Impaired
<i>E. Burn Marsh</i>	U	N	0.37	0	U	Fill (homes)	Updrift	Impaired	Lost
<i>Burn Marsh</i>	U	N	0.72	0	U	Fill (homes)	Updrift	Impaired	Lost

The following tables 18 – 31 summarize the habitat complexes according to several factors one might want to consider in making habitat protection and restoration decisions.

We considered three primary life history functions for juvenile salmon that are potentially provided by the habitat complexes assessed as part of our study of historical changes:

- 1) Feeding
- 2) Refuge from predation
- 3) Osmoregulatory transition

The following tables help describe how the habitat complexes potentially support these functions.

Stream-delta Complexes

All the complexes that we identified as stream-deltas are generally considered “natal” to salmon, in that the watershed these complexes are directly associated with provides the birthplace for salmon. Adults must migrate through the stream-delta to spawn and juveniles must migrate through the complex en route to salt water, and as is typical, eventually the open ocean. Stream-delta complexes may also provide habitat for juvenile salmon that did not originate in that stream-delta. For example, in addition to providing habitat for juvenile salmon originating from its own watershed, the Salt Creek estuary might potentially provide habitat for juvenile salmon that originate from the Elwha River watershed. Table 18 is a list of stream-delta complexes across the study area, that historically are documented to have provided tidal wetland habitat and are considered “Functional” according to our Relative Condition rating. The implication is that these stream-delta complexes might be favorable candidates for long-term habitat protection by addressing watershed, riverine, and estuarine processes that support estuarine habitat structure and function. In some instances there may also be opportunities for habitat restoration in these complexes (e.g., Dewatto River dike removal), though we consider the major management strategy to be the protection of processes and habitat. Tables 2-4 are stream-delta complexes that historically (or currently) provided tidal wetland habitat, and were given a Relative Condition rating of “Moderately Impaired” (Table 19), “Severely Impaired” (Table 20), and “Lost” (Table 21).

Table 18. Stream-delta habitat complexes that historically (or currently) provided tidal wetland habitat*, and were given a Relative Condition rating as “Functional”. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Thorndyke Cr.	North Hood Canal	30.72	+ 13%
Tahuya R.	South Hood Canal	16.24	+ 22%
Stavis Cr.	Central Hood Canal	16.03	+ 11%
Dewatto R.	South Hood Canal	8.00	+ 6%
Tarboo Cr.	Dabob Bay	7.74	+ 54%
South Sequim Bay**	Sequim Bay	6.17	- 15%***
Little Anderson Cr.	Central Hood Canal	1.55	+ 17%
Little Beef Cr.	Central Hood Canal	1.51	- 13%
Boyce Cr.	Central Hood Canal	1.3	+ 2%
Little Dewatto Cr.****	South Hood Canal	0	N/A ****

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** South Sequim Bay habitat complex includes the Jimmycomelately and Dean Creek estuaries.

*** This percentage change in tidal wetland habitat represents data prior to major restoration of the Jimmycomelately/Dean Creek estuaries. Newer data would likely make this percentage a positive value (i.e., reflect an overall gain in tidal wetland habitat).

**** Little Dewatto Creek did not have tidal wetland habitat according to the T sheet; however, 0.75 ha occurs today.

Table 19. Stream-delta habitat complexes that historically (or currently) provided tidal wetland habitat* and were given a Relative Condition rating as “Moderately Impaired”. Complexes are listed according to the historical amount of tidal wetland habitat estimated, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Union R./Lynch Cove	Hood Canal Hook	91.33	+ 2%
Upper Quilcene Bay**	Dabob Bay	51.11	+ 42%
Salt Creek	Central Strait	31.78	- 33 %
Dosewallips R.	Central Hood Canal	30.44	+ 54%
Duckabush R.	Central Hood Canal	25.35	+ 58%
Dungeness R.	Eastern Strait	21.06	+ 82%
Big Beef Creek	Central Hood Canal	12.25	- 5%
Chimacum Cr.	Pt. Townsend/Oak Bay	6.71	+ 16
Lilliwaup Cr.	South Hood Canal	3.46	+ 99%
Gamble Cr.	Hood Canal Entrance	0.63	- 60
Marple-Jackson Cr.	Dabob Bay	0.58	+ 140
Big Anderson Cr.	Central Hood Canal	0.41	+ 646
Eagle Creek	Discovery Bay	0.36	+ 208
Dalby Creek	South Hood Canal	0.29	+ 234
McDonald Cr.	Central Hood Canal	0.29	+ 21
Sekiu River***	Western Strait	0	N/A
Hoko River***	Western Strait	0	N/A
Clallam River***	Western Strait	0	N/A
Seabeck Creek****	Central Hood Canal	0	N/A
Enati Creek****	South Hood Canal	0	N/A
Spencer Creek****	Dabob Bay	0	N/A

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** Upper Quilcene Bay habitat complex includes the Big and Little Quilcene river, and Donovan Creek estuaries.

*** We have no reliable historical estimates of tidal wetland habitat in the Sekiu, Hoko, and Clallam river deltas, all in the Western Strait sub-region. Small amounts (approx. 2 ha or less) are estimated in these complexes today.

**** Seabeck, Enati, and Spencer creek stream-deltas were not reported to have tidal wetland habitat according to the T sheets; however, some tidal marsh occurs in these complexes today.

Table 20. Stream-delta habitat complexes that historically (or currently) provided tidal wetland habitat* and were given a Relative Condition rating as “Severely Impaired”. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Skokomish R.	South Hood Canal	227.9	+ 25%
Pysht River	Central Strait	114.48	- 55 %
Shine Creek	North Hood Canal	33.35	- 38
Hamma Hamma R.	Central Hood Canal	21.50	+ 64%
Salmon/Snow Cr.	Discovery Bay	13.29	- 15%
Meadowbrook Cr.	Eastern Strait	13.25	+ 15
Little Mission Cr.	Hood Canal Hook	8.36	- 62
Elwha R.	Eastern Strait	6.15	+ 49%
Olympic View Cr.	North Hood Canal	3.54	- 90
Eagle Creek	South Hood Canal	3.34	- 95
Stimson Cr.	Hood Canal Hook	2.93	- 40
Fulton Creek	Central Hood Canal	2.50	- 61
Jorsted Creek	Central Hood Canal	2.20	- 87
Shoofly Creek	Hood Canal Hook	2.15	- 70
Big Mission Creek	Hood Canal Hook	1.43	- 37
Rendsland Creek	South Hood Canal	1.33	- 50
Miller Creek	South Hood Canal	1.31	- 86
Kinman Creek	North Hood Canal	0.91	- 100
Schaerer Creek	Central Hood Canal	0.43	- 23
Little Shoofly Creek	Hood Canal Hook	0.42	- 67
Wackitickeh Creek	Central Hood Canal	0.33	+ 230
Sund Creek	South Hood Canal	0.30	+ 53
Johnson Creek	Central Hood Canal	0.14	- 100
Morse Creek**	Eastern Strait	0	N/A **

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** We have no reliable historical estimate of the amount of tidal wetland habitat at Morse Creek; however, today our estimate is 1.67 ha of salt marsh.

Table 21. Stream-delta habitat complexes that historically provided tidal wetland habitat* and were given a Relative Condition rating as “Lost”. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Devil’s Hole Creek	North Hood Canal	3.56	- 100 %
Twanoh Creek	Hood Canal Hook	1.67	- 100
Cattail Creek	North Hood Canal	1.54	- 100
Hawks Hole Creek	Hood Canal Entrance	1.5	- 97
Johnson Cr./Pitship Pt.	Sequim Bay	0.1	- 100

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

Table 22. Stream-delta habitat complexes that neither historically or currently provided tidal wetland habitat*, and their Relative Condition rating.

Habitat Complex	Sub-Region	Relative Condition
Martha John Creek	Hood Canal Entrance	Functional
Nordstrom Creek	North Hood Canal	Functional
McDonald Creek	Eastern Strait	Functional
Siebert Creek	Eastern Strait	Functional
Coville Creek	Eastern Strait	Functional
Field Creek	Central Strait	Functional
Bagley Creek	Eastern Strait	Functional
Bullman Creek	Western Strait	Moderately Impaired
Ladine DeCouteau Creek	Hood Canal Entrance	Moderately Impaired
Ludlow Creek	Hood Canal Entrance	Moderately Impaired
Little Lilliwaup Creek	South Hood Canal	Moderately Impaired
Holyoke Creek	Hood Canal Hook	Moderately Impaired
Springbrook Creek	Hood Canal Hook	Moderately Impaired
Granite Creek	Hood Canal Hook	Moderately Impaired
Lyre River	Central Strait	Moderately Impaired
Deep Creek	Central Strait	Moderately Impaired
E/W Twin Rivers	Central Strait	Moderately Impaired
Sail River	Western Strait	Moderately Impaired
Finch Creek	South Hood Canal	Severely Impaired
Clark Creek	South Hood Canal	Severely Impaired
Little Boston Creek	Hood Canal Entrance	Severely Impaired
Turner Creek	Dabob Bay	Severely Impaired
W. Morang Creek	Hood Canal Hook	Severely Impaired
Snow Creek	Western Strait	Severely Impaired
Jim Creek	Central Strait	Severely Impaired
Whiskey Creek	Central Strait	Severely Impaired
Neah Bay	Western Strait	Severely Impaired
Dry Creek	Eastern Strait	Severely Impaired
Port Angeles Harbor	Eastern Strait	Severely Impaired
Lee's Creek	Eastern Strait	Severely Impaired
Cassalery Creek	Eastern Strait	Severely Impaired
Forest Beach Creek	Hood Canal Hook	Severely Impaired
Middle Creek	Hood Canal Entrance	Unrated
Thomas Creek	Central Hood Canal	Unrated
Harding Creek	Central Hood Canal	Unrated
Nellita Creek	Central Hood Canal	Unrated
Jump Off Joe Creek	North Hood Canal	Unrated
Piddling Creek	Hood Canal Entrance	Unrated
Jansen Creek	Western Strait	Unrated
Rasmussen Creek	Western Strait	Unrated
Olsen Creek	Western Strait	Unrated
Murdock Creek	Central Strait	Unrated
Lindsay Creek	Dabob Bay	Unrated

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

Spit/Marsh Complexes

Table 23. Spit/marsh habitat complexes that have maintained their historical surface water connectivity (SWC) with adjacent nearshore waters (or have SWC today but may not have historically), and which we rated the Relative Condition as “Functional”. Complexes known to have freshwater inputs are shown in blue type. Complexes are listed according to the estimated historical amount of tidal wetland habitat*, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Long Spit	Dabob Bay	25.66	+ 5
Bywater Bay	Hood Canal Entrance	23.73	+ 4
Dungeness Spit	Eastern Strait	16.96	+ 8
Foulweather Marsh	Hood Canal Entrance	14.00	- 14
South Indian Lagoon	Port Townsend/Oak Bay	7.67	+ 13
Paradise Cove	Sequim Bay	6.18	- 2
SE Sequim Bay Spit	Sequim Bay	5.44	- 3
Kala Point**	Port Townsend/Oak Bay	4.88	+ 39
Broad Spit	Dabob Bay	2.88	- 11
Fisherman’s Point	Dabob Bay	2.06	- 14
Nick’s Lagoon	Central Hood Canal	1.88	+ 21
Misery Point	Central Hood Canal	1.60	- 6
Fawkes Spit	Pt Townsend/Oak Bay	0.97	+ 55
Hadlock Marsh	Pt Townsend/Oak Bay	0.47	- 19
East Ludlow Marsh	Hood Canal Entrance	0.40	+ 68
Kettle Marsh***	Pt Townsend/Oak Bay	0.28	+ 57
N. Mats Mats Marsh	Hood Canal Entrance	0.25	+ 8
Fawkes Marsh***	Pt Townsend/Oak Bay	0.21	+ 171
Red Bluff Marsh	South Hood Canal	0	N/A ****

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** There is question as to whether Kala Point had surface water connectivity in historical times. Regardless of its historical status, we believe the channel connection is certainly larger today than in the earliest maps from the 1800s.

*** Historically, Kettle Marsh and Fawkes Marsh complexes may not have supported surface water connectivity, though today they do have such a connection.

**** No tidal wetland habitat was associated with Red Bluff Marsh according to the historical T sheet; however, a small amount of salt marsh (0.19 ha) occurs at the site today.

Table 24. Spit/marsh habitat complexes that have maintained their historical surface water connectivity (SWC) with adjacent nearshore waters (or have SWC today but may not have historically), and which we rated the Relative Condition as “Moderately Impaired”. Complexes known to have freshwater inputs are shown in blue type. Complexes are listed according to the estimated historical amount of tidal wetland habitat*, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Washington Harbor	Sequim Bay	59.10	- 10
Walan Point	Pt Townsend/Oak Bay	7.98	+ 1
Zelatched Point	Dabob Bay	6.61	- 23
Gardiner Lagoon**	Discovery Bay	5.71	- 1
Skow Bay Marsh	Pt Townsend/Oak Bay	4.94	+ 2
Smart Cove Lagoon	Dabob Bay	4.51	- 27
Cline Spit	Eastern Strait	4.12	- 11
Point Julia	Hood Canal Entrance	3.80	- 5
Spear Fir Lagoon	Central Hood Canal	3.79	- 39
Point Whitney Lagoon	Dabob Bay	3.47	- 26
Ditch Marsh	Pt Townsend/Oak Bay	2.40	- 33
Mystery Bay Lagoons	Pt Townsend/Oak Bay	1.08	+ 8
Bishop’s Point	Pt Townsend/Oak Bay	1.04	- 32
Low Spit	Hood Canal Hook	0.92	- 20
Discovery Jct. Marsh	Discovery Bay	0.79	+ 20
Neelim Marsh	South Hood Canal	0.57	+ 14
W. Toandos Marsh	Dabob Bay	0.49	- 33
Triton Marsh***	Central Hood Canal	0.41	No change
Hadlock Lagoon	Pt Townsend/Oak Bay	0.37	+ 22
Chinom Point****	Central Hood Canal	0.37	- 22
S. Mystery Bay Marsh	Pt Townsend/Oak Bay	0 *****	N/A
Camp Discovery Creek Spit	Dabob Bay	0	No change
Sunset Beach Spit	Hood Canal Hook	0	N/A *****

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** There is question as to whether the Gardiner Lagoon complex had surface water connectivity in historical times (1800s). Regardless of its historical status, a channel connection certainly exists today.

*** Historical maps from the 1800s do not indicate a surface water connection at the Triton Marsh complex, though such a connection occurs today.

**** Chinom Point historically had surface water connectivity, but there is uncertainty of such a connection today.

***** Current day estimate of tidal wetland habitat in the South Mystery Bay Marsh complex is 0.18 ha.

*****Current day estimate of tidal wetland associated with Sunset Beach Spit is 0.07 ha

Table 25. Spit/marsh habitat complexes that have maintained their historical surface water connectivity (SWC) with adjacent nearshore waters (or have SWC today but may not have historically), and which we rated the Relative Condition as “Severely Impaired” or “Lost”. Complexes known to have freshwater inputs are shown in blue type. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.**

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Graysmarsh/Gierin Cr.	Eastern Strait	78.54	- 22
Ediz Hook	Eastern Strait	27.04	- 58
South Point	North Hood Canal	20.99	- 73
Point No Point Marsh	Hood Canal Entrance	16.64	- 40
Driftwood Key**	Hood Canal Entrance	10.96	- 81
NE Indian Spit	Pt Townsend/Oak Bay	6.08	- 90
Old Road Marsh	Hood Canal Hook	5.62	- 38
Ludlow Lagoon	Hood Canal Entrance	5.05	- 42
Indian George Cr.	Dabob Bay	4.31	- 64
Little Oak Bay Lagoon	Pt Townsend/Oak Bay	4.05	+ 286 ***
Skunk Bay Marsh****	Hood Canal Entrance	4.03	- 76
Ayock Point	South Hood Canal	2.61	- 85
Sunbeach Marshes	Hood Canal Hook	2.58	- 65
Pitship Marsh	Sequim Bay	2.44	- 28
Black Point Lagoon	Central Hood Canal	2.16	- 87
Brown’s Point	South Hood Canal	1.85	- 42
Fairmont Marsh	Discovery Bay	1.48	- 14
Sword Spit	Hood Canal Hook	0.95	+ 133
Contractor’s Point	Discovery Bay	0.75	- 100
Maynard Lagoon	Discovery Bay	0.30	+ 90
Sunbeach Spit	Hood Canal Hook	0.02	+ 4700 *****
Rose Spit	Hood Canal Hook	0	No change

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** The Relative Condition of the Driftwood Key complex was rated as “Lost”.

*** Habitat changes to the Little Oak Bay spit/marsh complex have been dramatic with the near complete loss of a substantial tidal flat, that was converted to salt marsh and lagoon (that was historically present in relatively small amounts), and landfill and a deepwater navigation channel in the early 1900s.

**** Skunk Bay Marsh had historical surface water connectivity (SWC), but we are uncertain of the status of SWC today.

***** Current day estimate of salt marsh associated with the Sunbeach Spit complex is 0.96 ha, a huge percentage gain from historical estimate. Much of this marsh is growing seaward of bulkheads.

Table 26. Spit/marsh habitat complexes that have lost their historical surface water connectivity (SWC) with adjacent nearshore waters, and their Relative Condition ratings (MI = moderately impaired; SI = severely impaired; L = lost). Complexes known to have freshwater inputs are shown in blue type. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Long Spit (SI)	Pt Townsend/Oak Bay	10.22	- 80
Beckett Point (SI)	Discovery Bay	5.17	- 20
Salsbury Point (L)	Hood Canal Entrance	3.01	- 100
Miami Beach Marsh (L)	Central Hood Canal	2.91	- 100
Hood's Point (L)	Central Hood Canal	2.68	- 100
Crane Point (L)	Pt Townsend/Oak Bay	2.33	- 100
Lofall Marsh (L)	North Hood Canal	2.03	- 100
Seabeck Spit (SI)	Central Hood Canal	1.27	+ 21
Potlatch Marsh (L)	South Hood Canal	1.01	- 100
Hogan's Spit/Caldervin Cr. (L)	South Hood Canal	1.01	- 100
Tukey Spit (MI)	Discovery Bay	0.81	+ 23
Granite Marsh (L)	Hood Canal Hook	0.50	- 100
Nordland Marsh (L)	Pt Townsend/Oak Bay	0.29	- 100
Morang Spit (L)	Hood Canal Hook	0.19	- 100
Sisters Marsh (SI)	Hood Canal Hook	0.17	- 53
S. Mats Mats Marsh (L)	Hood Canal Entrance	0.10	- 100
Tongue Spit (L)	Dabob Bay	0	No change
West Granite Spit (L)	Hood Canal Hook	0	No change
N. Ludlow Spit (L)	Hood Canal Entrance	0	No change

* "Tidal wetland habitat" here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered "tidal wetland" in the report.

Table 27. Spit/marsh habitat complexes that did not have historical surface water connectivity (SWC) with adjacent nearshore waters (or the historical status of SWC is unknown), and which we rated the Relative Condition as “Functional”. Complexes known to have freshwater inputs are shown in blue type. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Foulweather Lagoon	Hood Canal Entrance	7.81	+ 19
Thompson Lagoon	Discovery Bay	2.48	- 2
Puget Mill Co. Spit	North Hood Canal	1.31	- 18
Tukey Lagoon	Discovery Bay	0.92	+ 3
Point Hannon	Hood Canal Entrance	0.68	+ 200
W. Oak Head Marsh	North Hood Canal	0.67	- 15
Green Point	North Hood Canal	0.61	- 18
Quatsap Point	Central Hood Canal	0.60	+ 92
Two Points Marsh	South Hood Canal	0.11	- 55
Sand Point	Pt Townsend/Oak Bay	0 **	N/A **
Fisherman’s Harbor Spit	North Hood Canal	0	No change
Kanem Point	Discovery Bay	0	No change
Goose Point	Sequim Bay	0	No change
Hazel Point	North Hood Canal	0	No change

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** The historical T sheet did not indicate any symbology at Sand Point; however, a fair assumption is that at least 0.74 ha of salt marsh probably existed at the time, which is our current day estimate of salt marsh.

Table 28. Spit/marsh habitat complexes that did not have historical surface water connectivity (SWC) with adjacent nearshore waters (or the historical status of SWC is unknown), and which we rated the Relative Condition as “Moderately Impaired”. Complexes known to have freshwater inputs are shown in blue type. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Travis Spit	Sequim Bay	2.31	- 64
Marrowstone Point	Pt Townsend/Oak Bay	1.28	+ 70
Kings Spit	North Hood Canal	0.85	- 31
Hardwick Point	Sequim Bay	0.81	- 33
Kalset Point	Discovery Bay	0.61	+ 87
SE Indian Marsh	Pt Townsend/Oak Bay	0.42	- 45
Tekiu Point	Central Hood Canal	0.39	- 38
Cougar Spit	South Hood Canal	0.29	+ 7
S. Whitney Marsh	Dabob Bay	0.25	+ 16
Tala Marsh	Hood Canal Entrance	0.24	- 42
Schoolhouse Point	Sequim Bay	0.15	- 53
Carlson Spit	North Hood Canal	0.06	+ 283
Pleasant Harbor Spit	Central Hood Canal	0	N/A **

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** Current day estimate of salt marsh at Pleasant Harbor Spit is 0.03 ha.

Table 29. Spit/marsh habitat complexes that did not have historical surface water connectivity (SWC) with adjacent nearshore waters (or the historical status of SWC is unknown), and which we rated the Relative Condition as “Severely Impaired”. Complexes known to have freshwater inputs are shown in blue type. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Kah Tai Lagoon	Pt Townsend/Oak Bay	44.82	- 62
Glen Cove	Pt Townsend/Oak Bay	25.78	- 58
Diamond Point	Discovery Bay	5.53	- 39
Violet Point **	Discovery Bay	3.62	- 47
Floral Spit	North Hood Canal	2.14	- 78
Olele Marsh	Hood Canal Entrance	1.83	- 29
Termination Point	Hood Canal Entrance	0.85	+ 32
Point Wilson	Pt Townsend/Oak Bay	0.65	- 100
Jackson Marsh	Dabob Bay	0.50	- 100
Hall Marsh	South Hood Canal	0.28	- 25

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** A navigation channel and marina occur at Violet Point.

Table 30. Spit/marsh habitat complexes that did not have historical surface water connectivity (SWC) with adjacent nearshore waters (or the historical status of SWC is unknown), and which we rated the Relative Condition as “Lost”. Complexes known to have freshwater inputs are shown in blue type. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Point Hudson**	Pt Townsend/Oak Bay	10.92	- 84
Holly Marshes	Central Hood Canal	1.20	- 100
Tule Marsh	Dabob Bay	1.08	- 100
W. Spring Marsh	North Hood Canal	1.00	- 100
Cape George**	Discovery Bay	0.86	+ 12 ***
N. Devil’s Hole Spit	North Hood Canal	0.85	- 100
S. Foulweather Spit	Hood Canal Entrance	0.74	- 100
Burn Marsh	Hood Canal Hook	0.72	- 100
Three Spits	North Hood Canal	0.67	- 100
E. Beef Marsh	Central Hood Canal	0.48	- 100
E. Burn Marsh	Hood Canal Hook	0.37	- 100
Black Point Marsh	Central Hood Canal	0.21	- 100
47 Degree Marsh	Hood Canal Hook	0.21	- 100
Cabin Marsh	South Hood Canal	0.20	- 100
S. Ludlow Marsh	Hood Canal Entrance	0.19	- 100
S. Gamble Marsh	Hood Canal Entrance	0.19	- 100
East Anderson Marsh	Central Hood Canal	0.17	- 100
E. Sword Marsh	Hood Canal Hook	0.07	- 100
S. Floral Spit	North Hood Canal	0	0
Teekalet Spit	Hood Canal Entrance	0	0

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** Point Hudson, Cape George habitat complexes have navigation channels and marinas.

*** All of the current day tidal wetland “habitat” associated with the Cape George complex is provided by the dredged marina bay.

Table 31. Spit/marsh habitat complexes that were not given a Relative Condition rating. None of these complexes is known to have provided surface water connectivity, either historically or today. Complexes are listed according to the estimated historical amount of tidal wetland habitat, with the largest amount at the top and smallest amount at the bottom.

Habitat Complex	Sub-Region	Historical Tidal Wetland* (ha)	Percent Change in Tidal Wetland (%)
Basalt Marsh	Hood Canal Entrance	0.06	- 100
Woodman Marsh	Discovery Bay	0	N/A **
Mill Point***	Discovery Bay	0	0
Camp Harmony Spits	Dabob Bay	0	0
East Beach Spit	Pt Townsend/Oak Bay	0 ****	0

* “Tidal wetland habitat” here (as in much of the report) is defined as tidal marsh, lagoon, and associated channels. Though acknowledged as providing value to salmon, tidal flat habitat is not considered “tidal wetland” in the report.

** Historical T sheet did not indicate any symbology at the Woodman Marsh complex. One might assume that at least as much tidal wetland habitat existed at the site historically as today (current estimate is 0.69 ha).

*** At the time of the 1869 T sheet, Mill Point was completely built over by a sawmill.

**** Historical T sheet did not indicate any symbology at the East Beach Spit complex. Today part of this spit is filled over by a parking lot and access road.