

USACE /404 Wetland and Waters Impacts Summary Table - UPDATED 1/17/2018

Resource Name	Cowardin/ HGM Classification	Total Area (acres) ¹	Temp Impacts (acres) ³	Temp Fill (CY) ²	Temp Removal (CY) ²	Permanent Impacts (acres)	Permanent Fill (CY)	Permanent Removal (CY)	Type of Material	Impact Description
ESTUARINE										
Mudflats										
Wetland APC-A2	E2EM / ESTUARINEF	3.883	0.003	175	175	0.000	--	--	steel pile	Temporary work bridge piles in wetland
Coos Bay Intertidal Mudflat/Sand @ Access Channel (AC)	E2 / ESTUARINEF	10.122	0.959			9.163			sand	Permanent access channel dredging and temporary disturbance below HMT
Coos Bay Salt Marsh @ AC	E2EM / ESTUARINEF	0.055	0			0.055			sand	Access channel dredging below HMT
Coos Bay Shallow Subtidal @ AC	E1UB / ESTUARINEF	9.490	0.390			3.639			sand	Permanent access channel dredging and temporary disturbance below HMT
Coos Bay Intertidal Mudflat/Sand @ Material Offloading Facility (MOF)	E2US / ESTUARINEF	1.660	0.027			1.635			Aggregate	Permanent fill for MOF below HMT; temporary fill and subsequent removal of sand fill
Coos Bay Shallow Subtidal @ MOF	E1UB / ESTUARINEF	0.074	0	30,000	30,000	0.074	--	1,200,000	Aggregate	Permanent fill for MOF below HMT
Coos Bay Intertidal Mudflat/Sand @ MOF Temporary Sand Fill Area	E2US / ESTUARINEF	0.794	0.794			--			sand/rock	Temporary fill and subsequent removal of MOF sand fill and riprap protection
Coos Bay Shallow Subtidal @ MOF Temporary Sand Fill Area	E1UB / ESTUARINEF	0.011	0.011			--			sand/rock	Temporary fill and subsequent removal of MOF sand fill and riprap protection
Coos Bay Intertidal Mudflat/Sand @ Temporary Materials Barge Berth (TMBB)	E2US / ESTUARINEF	1.256	1.256			--			pile, blocks	Temporary disturbance for construction of TMBB, use of steel pile and concrete blocks
Coos Bay Salt Marsh @ TMBB	E2EM / ESTUARINEF	0.003	0.003			--			pile/blocks	Temporary disturbance for construction of TMBB, use of steel pile and concrete blocks
Coos Bay Shallow Subtidal @ TMBB	E1UB / ESTUARINEF	0.001	0.001			--			pile/blocks	Temporary disturbance for construction of TMBB, use of steel pile and concrete blocks
Coos Bay Intertidal Mudflat/Sand @ HDP	E2 / ESTUARINEF	0.080	0.080	See note ³	See note ³	--	--	--	pipeline	Temporary disturbance of upland below HMT for hydraulic dredge pipeline
Coos Bay Intertidal Mudflat/Sand @ NRI Temporary Dredge Line	E2US / ESTUARINEF	0.043	0.043	See note ⁴	See note ⁴	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Coos Bay Shallow Subtidal @ NRI Temporary Dredge Line	E2US / ESTUARINEF	0.030	0.030	See note ⁴	See note ⁴	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Coos Bay Mudflat/Sand @ Trans Pacific Parkway and Hwy101	E2RS/ ESTUARINEEF	1.669	0.512	--	--	0.512	3,900	--	rock	Permanent fill of riprap for TPP improvements
Total Mudflats		29.171	0.668	30,175	30,175	15.078	3,900	1,200,000		
Vegetated Shallows										
Coos Bay Eelgrass @ AC	E2AB / ESTUARINEF	2.011	0.110			1.900			sand	Access channel dredging below HMT
Coos Bay Eelgrass @ TMBB	E2AB / ESTUARINEF	0.023	0.023	See note ²	See note ²	--	--	See note ²	pile/blocks	Temporary disturbance for construction of TMBB, use of steel pile and concrete blocks
Coos Bay Eelgrass @ MOF Temporary Sand Fill Area	E2AB / ESTUARINEF	0.160	0.160			--			sand/rock	Temporary fill and subsequent removal of MOF sand fill and riprap protection
Coos Bay Eelgrass @ NRI Temporary Dredge Line	E2AB / ESTUARINEF	0.028	0.029	See note ⁴	See note ⁴	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Coos Bay Eelgrass @ APCO Temporary Dredge Transfer Line	E2AB / ESTUARINEF	0.029	0.028	See note ⁵	See note ⁵	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Coos Bay Eelgrass @ Eelgrass Temporary Dredge Line	E2EM / ESTUARINEF	0.496	0.496	See note ⁴	See note ⁴	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Coos Bay Eelgrass @ Kentuck Temporary Dredge Transfer Line	E2EM/ESTUARINEF	0.024	0.024	See note ⁵	See note ⁵	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Total Vegetated Shallows		2.771	0.687	0	0	1.900	0	0		
TOTAL ESTUARINE REQUIRING MITIGATION (excludes Deep Subtidal)		31.942	1.355	30,175	30,175	16.978	3,900	1,200,000		
Deep Subtidal										
Coos Bay Deep Subtidal @ AC	E1UB / ESTUARINEF	17.564	17.564	See note ²	See note ²	--	--	See note ²	sand	Access channel dredging below HMT
Coos Bay Deep Subtidal @ NRI Dredge Areas	E1UB / ESTUARINEF	26.979	26.979	See note ⁶	See note ⁶	--	--	600,000	sand/rock	Dredging of Navigation Reliability Improvement areas 1 through 4
Coos Bay Deep Subtidal @ NRI Temporary Dredge Line	E1UB / ESTUARINEF	9.904	9.904	See note ⁴	See note ⁴	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Coos Bay Deep Subtidal @ APCO Temporary Dredge Transfer Line	E1UB / ESTUARINEF	0.857	0.857	See note ⁵	See note ⁵	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Coos Bay Deep Subtidal @ Eelgrass Temporary Dredge Line	E1UB / ESTUARINEF	0.572	0.572	See note ⁴	See note ⁴	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Coos Bay Deep Subtidal @ Kentuck Temporary Dredge Transfer Line	E1UB / ESTUARINEF	2.160	2.160	See note ⁵	See note ⁵	--	--	--	pipeline	Temporary dredge line used to move dredge material to disposal site
Total Deep Subtidal		58.036	58.036	0	0	0.000	0	600,000		
TOTAL ESTUARINE RESOURCES		90.951	59.391	30,175	30,175	16.978	3,900	1,800,000		
FRESHWATER										
Wetlands										
Wetland 2012-2	PEM / MINSOILFLT PSSC, PEMF/ Flat	9.837	0.044	--	--	0.010	See note ⁷	See note ⁷	sand/rock	Permanent fill for construction of access and utility corridor; temporary disturbance for installation of drainage culvert/pipe
Wetland 2012-5	PSSC / DEPRESS	0.011	0.011	--	--	--	--	--	n/a	Temporary disturbance along water and utility line corridor; no fill/removal proposed
Wetland 2012-6	PSSC / DEPRESS	0.004	0.004	--	--	--	--	--	n/a	Temporary disturbance for access road construction activities; no fill/removal proposed
Wetland 2013-6	PEM / MINSOILFLT PEMF/ Flat	3.801	0.222	--	--	0.606	8,850	--	sand/rock	Permanent fill for construction of access and utility corridor; temporary disturbance for construction of access and utility corridor
Wetland Ditch D-1 @ Boxcar Hill	PEM/DEPRESS		0.024							Temporary disturbance in roadside ditch with wetland characteristics.
Wetland C	PFO / DEPRESS	0.288	0	--	--	0.255	2,700	--	sand/rock	Wetland filled for access and utility corridor
Wetland E	PABH, PUBH/ DEPRESS	4.107	0.143	--	--	0.341	6,300	--	sand/rock	Permanent fill for construction of access and utility corridor; temporary disturbance for construction of access and utility corridor
Wetland H (east)	PEM / DEPRESS	0.087	0	--	--	0.087	7,900	--	sand	Wetland filled to raise site to +63 feet NAVD88 to avoid design tsunami
Wetland H (west)	PEM / DEPRESS	0.062	0	--	--	0.007	--	--	sand	Wetland filled to raise site to +63 feet NAVD88 to avoid design tsunami
Wetland I (north)	PEM / DEPRESS	0.266	0	--	--	0.266	11,350	--	sand	Wetland filled to raise site to +63 feet NAVD88 to avoid design tsunami
Wetland I (south)	PEM / DEPRESS	0.010	0	--	--	0.010	1,050	--	sand	Wetland filled to raise site to +63 feet NAVD88 to avoid design tsunami
Wetland J	PEMA/ Slope	1.945	0	--	--	0.073	2,150	--	sand	Wetland filled to raise site to +63 feet NAVD88 to avoid design tsunami
Wetland N	PEM / DEPRESS	0.019	0	--	--	0.019	2,000	--	sand	Wetland filled to raise site to +63 feet NAVD88 to avoid design tsunami
TOTAL FRESHWATER WETLAND RESOURCES		20.437	0.448	0	0	1.674	42,300	0		
Waters										
Ditch @ Boxcar Hill										
UPLAND BELOW HMT										
Upland Below HMT										
Coos Bay Upland below HMT @ south of Wetland E			--	--	--	0.136	see note ²	--	sand/soil	Upland below HMT may include temporary disturbance along Access and Utility corridor
Coos Bay Upland below HMT @ Wetland H (west)	N/A	0.060	--	--	--	0.007	see note ²	--	sand/soil	Upland below HMT filled to raise site to +63 feet NAVD88, above design tsunami
Coos Bay Upland below HMT @ Wetland J	N/A	0.110	--	--	--	0.109	see note ²	--	sand/soil	Upland below HMT filled to raise site to +63 feet NAVD88, above design tsunami
Coos Bay Upland above HMT @ AC	N/A	0.240	--	--	--	0.240	--	--	sand/soil	Upland dredging below HMT adjacent to access channel
Coos Bay Upland below HMT @ MOF	N/A	0.090	--	--	--	0.090	see note ²	--	Aggregate	Upland fill for MOF development below HMT
Coos Bay Upland below HMT @ HDP	N/A	0.440	0.440	See note ³	See note ³	--	--	--	pipeline	Temporary disturbance of upland below HMT for hydraulic dredge pipeline
Coos Bay Upland below HMT @ TMBB	N/A	0.021	0.021	See note ²	See note ²	--	--	--	sand/soil	Temporary excavation upland below HMT for construction of TMBB
Coos Bay Upland below HMT @ Temp Fill Area (MOF)	N/A	0.012	0.012	See note ²	See note ²	--	--	--	sand/rock	Temporary fill and subsequent removal of MOF sand fill and riprap protection
TOTAL UPLAND BELOW HMT		0.973	0.473	0	0	0.582	0	0		

NOTES:

General Notes:

- Wetlands that are not impacted are not listed on this table.
- Wetlands F and G are not regulated under Section 404; therefore, fill areas/volumes are not calculated as "impacts" in this table.
- HMT (el. 10.26' NAVD88) is the elevation used to calculate areas regulated under Section 404.
- ¹ Total area refers to the portion of the resource within the study area. Resources often extend beyond the study area limits, thus the area is noted as N/A.
- ² Impacts shown in *italicized text* are not included in the total impact calculation because they occur within the limits of permanent impacts already recorded on this table.
- ³ The hydraulic dredge pipeline (HDP) will extend from the Access Channel to South Dunes. Portions of the 2-foot diameter pipe will be installed below HMT.
- ⁴ The total distance of the NRI Temporary Dredge Line total distance is approximately 8.3 miles. The dredge line is anticipated to be 24" diameter.
- ⁵ The total distance of the NRI Temporary Dredge Transfer Line is approximately 2.5 miles. The dredge line is anticipated to be 24" diameter.
- ⁶ NRI dredge areas will require permanent removal within deep subtidal habitat, but will result in temporary impacts to functions and values; therefore impacts are recorded as temporary.
- ⁷ Temporary disturbance is required for access or general construction activities. These areas do not require fill or removal impacts but will result in temporary soil disturbance.