| Field Name | Alias | Source Data | Description |
|---|---|---|---|
| PARCELID | Parcel ID | Skagit County Assessor Parcel Data | Parcel ID used to join Skagit County Assessor data with parcel geometries. Only parcels within the shoreline zone (200 feet of MHHW) were considered. |
| Building_Value | Building Value | Skagit County Assessor Parcel Data | Value of any and all buildings on property |
| Land_Use | Land Use | Skagit County Assessor Parcel Data | Current land use designation for the parcel |
| Assessed_Value | Assessed Value | Skagit County Assessor Parcel Data | Assessed value of parcel |
| Township | Township | Skagit County Assessor Parcel Data | Township of parcel |
| Range | Range | Skagit County Assessor Parcel Data | Range of parcel |
| Section | Section | Skagit County Assessor Parcel Data | Section of parcel |
| Quarter_Section | Quarter Section | Skagit County Assessor Parcel Data | Quarter section of parcel |
| VI_Score_Norm | Vulnerability Score | Puget Sound Sea Level Rise Analysis (Washington Sea Grant and Coastal Geologic Services) | Total vulnerability of parcel to sea level rise. Score is a combination of the exposure and sensitivity of the parcel to sea level rise. Scores are normalized across all parcels in the Puget Sound region and range from 0-20. |
| DCType | Drift cell type | Beach Strategies (WDFW and Coastal Geologic Services) | Drift cell type or direction associated with the parcel. ; “NAD” = No Appreciable Drift; “RtoL” = Right to left; “LtoR” = Left to Right |
| DCName | Drift cell name | Beach Strategies (WDFW and Coastal Geologic Services) | Unique code/identifier for each drift cell. |
| DCCard | Drift cell cardinality | Beach Strategies (WDFW and Coastal Geologic Services) | Cardinality indicator of a “1 to 1”, “1 to Many”, “Many to 1”, or “Many to Many” relationship with the PSNERP dataset; |
| Shoretype | Shoretype | Beach Strategies (WDFW and Coastal Geologic Services) | Shoretype of each drift cell; PB = Pocket Beach; PB-AR = Pocket Beach – Artificial; FBE = Feeder Bluff Exceptional; FB = Feeder Bluff; FB-T = Feeder Bluff, Tallus; TZ = Transport Zone; AS = Accretion Shorform; NAD-D = No Appreciable Drift – Delta; NAD-B = No Appreciable Drift – Bedrock; NAD-AR = No Appreciable Drift – Artificial; NAD-LE = No Appreciable Drift – Low Energy |
| ErosionPotential | Erosion Potential | Beach Strategies (WDFW and Coastal Geologic Services) | Erosion potential of each drift cell nearest to parcel, calculated as a function of shore type and fetch length (See Beach Strategies for details). Scores are between 1-8 where higher scores indicate greater erosion potential. |
| Listing_Cat5_Water | Cat 5 Water Listing | Water Quality Atlas (Washington State Department of Ecology) | Listing ID of Category 5 tested water near parcel. <Null> values indicate there are no category 5 waters within 200 feet of the parcel. |
| Parameter_Cat5_Water | Cat 5 Water Parameter | Water Quality Atlas (Washington State Department of Ecology) | Parameter of Category 5 tested water near parcel. <Null> values indicate there are no category 5 waters within 200 feet of the parcel. |
| Listing_Cat4_Water | Cat 4 Water Listing | Water Quality Atlas (Washington State Department of Ecology) | Listing ID of Category 4 tested water near parcel. <Null> values indicate there are no category 4 waters within 200 feet of the parcel. |
| Parameter_Cat4_Water | Cat 4 Water Parameter | Water Quality Atlas (Washington State Department of Ecology) | Parameter of Category 4 tested water near parcel. <Null> values indicate there are no category 4 waters within 200 feet of the parcel. |
| Listing_Cat2_Water | Cat 2 Water Listing | Water Quality Atlas (Washington State Department of Ecology) | Listing ID of Category 2 tested water near parcel. <Null> values indicate there are no category 2 waters within 200 feet of the parcel. |
| Parameter_Cat2_Water | Cat 2 Water Parameter | Water Quality Atlas (Washington State Department of Ecology) | Parameter of Category 2 tested water near parcel. <Null> values indicate there are no category 2 waters within 200 feet of the parcel. |
| Listing_Cat1_Water | Cat 1 Water Listing | Water Quality Atlas (Washington State Department of Ecology) | Listing ID of Category 1 tested water near parcel. <Null> values indicate there are no category 1 waters within 200 feet of the parcel. |
| Parameter_Cat1_Water | Cat 1 Water Parameter | Water Quality Atlas (Washington State Department of Ecology) | Parameter of Category 1 tested water near parcel. <Null> values indicate there are no category 1 waters within 200 feet of the parcel. |
| Listing_Cat1_Sediment | Cat 1 Sediment Listing | Water Quality Atlas (Washington State Department of Ecology) | Listing ID of Category 1 tested sediment near parcel. <Null> values indicate there are no category 1 sediments within 200 feet of the parcel. |
| Parameter_Cat1_Sediment | Cat 1 Sediment Parameter | Water Quality Atlas (Washington State Department of Ecology) | Parameter of Category 1 tested sediment near parcel. <Null> values indicate there are no category 1 sediments within 200 feet of the parcel. |
| Listing_Cat2_Sediment | Cat 2 Sediment Listing | Water Quality Atlas (Washington State Department of Ecology) | Listing ID of Category 2 tested sediment near parcel. <Null> values indicate there are no category 2 sediments within 200 feet of the parcel. |

| Field Name | Alias | Source Data | Description |
|---|---|---|---|
| Parameter_Cat2_Sediment | Cat 2 Sediment Parameter | Water Quality Atlas (Washington State Department of Ecology) | Parameter of Category 2 tested sediment near parcel. <Null> values indicate there are no category 2 sediments within 200 feet of the parcel. |
| Listing_Cat4_Sediment | Cat 4 Sediment Listing | Water Quality Atlas (Washington State Department of Ecology) | Listing ID of Category 4 tested sediment near parcel. <Null> values indicate there are no category 4 sediments within 200 feet of the parcel. |
| Parameter_Cat4_Sediment | Cat 4 Sediment Parameter | Water Quality Atlas (Washington State Department of Ecology) | Parameter of Category 4 tested sediment near parcel. <Null> values indicate there are no category 4 sediments within 200 feet of the parcel. |
| Listing_Cat5_Sediment | Cat 5 Sediment Listing | Water Quality Atlas (Washington State Department of Ecology) | Listing ID of Category 5 tested sediment near parcel. <Null> values indicate there are no category 5 sediments within 200 feet of the parcel. |
| Parameter_Cat5_Sediment | Cat 5 Sediment Parameter | Water Quality Atlas (Washington State Department of Ecology) | Parameter of Category 5 tested sediment near parcel. <Null> values indicate there are no category 5 sediments within 200 feet of the parcel. |
| Wetland_Type | Wetland type | National Wetland Inventory (United States Fish and Wildlife Service) | Current wetland type intersecting with parcel. |
| Wetland_Acres | Wetland acres | National Wetland Inventory (USFWS) | Size of wetland associated with parcel. |
| Upland_Percent_Cover | Upland vegetation cover | C-Cap Regional Land Cover (NOAA Office of Coastal Management) | Combined percent tree and shrub cover of upland parcel (if intertidal) or of the parcel itself (if upland). Calculated from C-Cap land cover raster data. |
| OWS_Type | Overwater structure type | Washington State Department of Ecology overwater structures marine waters | Type of overwater structure within 200 feet of parcel (Bridge, dock, etc.) |
| OWS_Decking | Overwater structure decking | Washington State Department of Ecology overwater structures marine waters | Observation whether or not a structure decking was complete. |
| OWS_Complex | Overwater structure complex | Washington State Department of Ecology overwater structures marine waters | Observation whether or not the overwater structure included multiple structure types (such as including both a building and a dock). |
| Historical_Wetland_Ty | Historical wetland type | Puget Sound Nearshore Restoration Project (WDFW) | Type of historical wetland found within 200 feet of parcel, if any.; EU = Euryhaline Unvegetated; OT = Oligohaline Transition; EM = Estuarine Mixing; TF = Tidal Freshwater |
| FeatureType | Fish passage feature type | WDFW Fish Passage Geodatabase (Cite) | Type of fish passage barrier found on parcel, if any. |
| PercentFishPassableCode | Fish passable code | WDFW Fish Passage Geodatabase (Cite) | Estimated percent of fish that can pass fish passage barrier found on parcel.ol |
| StreamName | Stream name | NHD Flowline (United States Geological Survey) | Name of stream on parcel, if the stream is named and if a stream directly intersects with parcel. |
| StreamLength | Stream length | NHD Flowline (USGS) | Length of stream intersecting with parcel. |
| ReachCode | Reach code | NHD Flowline (USGS) | 14 digit HUC code of stream intersecting with parcel. |
| StreamOrder | Stream order | NHD Flowline (USGS) | Stream order of stream directly intersecting with parcel. |
| UpStream_Barrier_Type | Upstream barrier type | WDFW Fish Passage Geodatabase | Type of fish barrier found upstream of stream reach intersecting with a parcel, or type of fish barrier found directly on parcel. |
| UpStream_Barrier_Passage_Percent | Upstream barrier passage | WDFW Fish Passage Geodatabase | Estimated percent of fish that can pass through barrier found upstream of stream reach intersecting with a parcel, or estimated percent of fish that can pass fish passage barrier found on parcel |
| Parcel_Acres | Parcel acres | Calculated | Calculated area of parcel. |
| Beach_Access_; Dist | Beach access distance | Beach access points from Coastal Atlas (Department of Ecology) | Distance to nearest beach access point to parcels (in miles). Parcels that were greater than 0.5 miles from nearest beach access point have a distance of -1 miles. |
| Smelt_spawning | Smelt spawning | WDFW forage fish spawning survey data | True/False if smelt spawning has been documented 200 feet or less from parcel. 0 is coded as false and 1 as true. |
| SandLance_spawning | Sand lance spawning | WDFW forage fish spawning survey data | True/False if sand lance spawning has been documented 200 feet or less from parcel. 0 is coded as false and 1 as true. |
| Herring_spawning | Herring spawning | WDFW forage fish spawning survey data | True/False if herring spawning has been documented 200 feet or less from parcel. 0 is coded as false and 1 as true. |
| Armoring_presence | Armoring presence | Beach strategies (WDFW) | True/False if beach armoring is present 200 feet or less from parcel. 0 is coded as false and 1 as true. |

| Field Name | Alias | Source Data | Description |
|---|---|---|---|
| Public_ownership | Public ownership | Created | True/False if the parcel is publicly owned. 0 is coded as false and 1 as true. A parcel was assumed to be publicly owned if the owner's name from the Skagit County Assessor data had the strings "State" or "U.S.A." |
| OWS_SF | Overwater structure square feet | Ecology marine overwater structures | Square footage of overwater structure near parcel, if any. Null values indicate no overwater structure was found within 200 feet of the parcel. |
| Natal_Estuary_P | Natal estuary presence | NOAA Natal estuary layer | True/False if a natal estuary is present within 200 feet of the parcel. 0 is coded as false and 1 as true. |
| Str_HlfMil | Stream mouth in 0.5 mi | NHD Flowlines (USGS) | True false if a stream mouth is located within a half mile of the parcel "as the fish swims" (i.e. only paths to stream mouths entirely through water were considered). |
| Kelp_Presence | Kelp presence | Washington Department of Natural Resources (WDNR) – Floating kelp indicator (online map) | True/False if a floating kelp bed is present within 200 feet of the parcel. 0 is coded as false and 1 as true. |
| Eelgrass_presence | Eelgrass presence | Washington Department of Natural Resources (WDNR) – Puget Sound Eelgrass Monitoring Data Viewer | True/False if an eelgrass bed (both Z.marina and Z. japonica) bed is present within 200 feet of the parcel. 0 is coded as false and 1 as true. |
| Acr_score | Acres score | Calculated/Created | Acreage of parcel according to assessor's data. Parcel size can capture the available area for a restoration project and may also have implications for feasibility. Scoring is based on the overall spread of parcel sizes and could be revised to capture sizes that are relevant for determining feasibility of a project (e.g., if projects are typically on parcels <5 acres, scoring could give more points to those parcels). Scoring: 5=>25 acres; 4=10-25 acres; 3=2-10 acres; 2=1-2 acres; 1=0.5-1 acres; 0 =<0.5 acres |
| Own_score | Ownership score | Calculated/Created | Private versus public ownership according to assessor's data. This delineation was determined by searching for key terms in the ownership field (e.g., "state", "county") to identify publicly owned parcels. All other parcels are considered to be private. Scoring: 10 =public ownership; 0 = otherwise |
| Val_score | Parcel value score | Calculated/Created | Assessed value according to assessor's data. Scoring breakdown is based on the spread of parcel values and could be revised to capture costs relevant for determining the feasibility of a project. Scoring: 5= <$8K; 3=$8K-$300K; 2= $300k-$1M; 0 = >$1M |
| Bch_score | Beach access score | Calculated/Created | Proximity to public beach access point. Beach access is important for determining coordination requirements, especially if a project is relying on volunteer support. Scoring: 5 = Access point on parcel; 3 = Access point within 0.5 mile of parcel; 0 = no nearby beach access |
| FC_score | Feasibility Score | Calculated/Created | Sum of all feasibility scores (i.e. from Acr_score to Bch_score). Higher values indicate higher ecological value of parcel (max score of 25). |
| Hwt_score | Historical wetland score | Calculated/Created | The Puget Sound Nearshore Ecosystem Restoration Project captured historic wetlands and past estuary extents. When considering restoration opportunities, this data highlights locations that could be restored to a past high-value condition. Scoring: 4 = yes, within 200 ft; 0 = no |
| OWS_score | Overwater structure score | Calculated/Created | Considers whether overwater structures are present on the parcel or along the shoreline. Removal of overwater structures is a restoration action with high uplift potential. Scoring: 5 = yes, within 200 ft; 0 = no |
| Arm_score | Armoring score | Calculated/Created | Armoring identified along the shoreline. Removal of armoring and creating a soft shoreline could improve shoreline functions. Scoring: 5 = yes, within 200 ft; 0 = no |
| Bar_score | Fish barrier score | Calculated/Created | Documented barriers to fish passage on the parcel/within the drift cell or upstream of an identified stream. Removal of a stream barrier could be a restoration opportunity. This is also an important consideration if actions are being considered downstream of a stream barrier. Scoring: 3 = stream barrier present; 1 = barrier upstream; 0 = no stream barrier |
| Bui_score | Nearshore structure score | Calculated/Created | Presence of structures on the nearshore parcel. Potential removal of structures adjacent to the shoreline could improve riparian habitat and connectivity. Scoring: 4 = yes; 0 = no |

| Field Name | Alias | Source Data | Description |
|---|---|---|---|
| SLR_score | Sea level rise score | Calculated/Created | Risk of the location being affected by sea level rise. May help to highlight locations where restoration actions could help mitigate effects of sea level rise. Scoring: 4 = high; 1 = med; 0 = low |
| RP_score | Restoration Potential score | Calculated/Created | Sum of all restoration potential scores (i.e. from Hwt_score to SLR_score). Higher values indicate higher ecological value of parcel (max score of 25). |
| Fsh_score | Forage fish score | Calculated/Created | Documented observation of sand lance, surf smelt, or herring spawning. Scoring: 6 = documented presence within 200 ft; 0 = no documented presence or habitat |
| Veg_score | Eelgrass score | Calculated/Created | Documented presence of eelgrass (Zostera marina or Zostera japonica combined) in proximity. Scoring: 6 = documented presence within 200 ft; 0 = no documented presence or habitat |
| Klp_score | Kelp score | Calculated/Created | Documented presence of kelp (e.g., Nereocystis luetkeana, Laminaria spp.). Scoring: 6 = documented presence within 200 ft; 0 = no documented presence or habitat |
| Wet_score | Wetland score | Calculated/Created | Current presence of tidal marsh or wetland habitat on the parcel or adjacent to shoreline segment. Scoring: 3 = mapped wetland; 0 = no |
| Est_score | Natal estuary score | Calculated/Created | Assesses whether the proposed location is within 5-mile buffer of salmonid natal streams. Scoring: 2 = Within 5 miles of natal estuary; 0 = >5 miles to stream |
| Cov_score | Upland cover score | Calculated/Created | Considers the proportion of the upland/riparian area that is natural versus developed. Scoring: 3 = majority of upland area is natural; 0 = majority of upland area is developed |
| Str_score | Stream score | Calculated/Created | Distance (as fish would swim) to nearest the stream (not necessarily natal stream). Scoring: 4 = stream on parcel; 2 = <0.5 miles to stream; 0 = >0.5 miles to stream |
| Sho_score | Shoreline erosion score | Calculated/Created | Potential for erosion of the shoreline based on fetch and shoretype. Scoring: 8 = PB with erosion potential of 3-4 OR FB/FBE with erosion potential of 7-8; 6 = PB with erosion potential of 5-6; 4 = FB/FBE with erosion potential of 5-6; 2 = AS or TZ; 0 = NAD |
| Sed_score | Sediment quality score | Calculated/Created | Based on data from the Washington Department of Ecology that captures assessed sediments under the Clean Water Act. Category 1 and areas that have not been assessed are considered to have high sediment quality. Category 5 represents the lowest quality. Scoring: 6 = Category 1 or no data; 4 = Category 2 or 3; 2 = Category 4; 0 = Category 5 (303(d) list) |
| Wat_score | Water quality score | Calculated/Created | Based on data from the Washington Department of Ecology that captures assessed waters under the Clean Water Act. Category 1 and areas that have not been assessed are considered to have high water quality. Category 5 represents the lowest quality. Scoring: 6 = Category 1 or no data; 4 = Category 2 or 3; 2 = Category 4; 0 = Category 5 (303(d) list) |
| EF_score | Ecological Function score | Calculated/Created | Sum of all Ecological function scores (i.e. from Fsh_score to Wat_score). Higher values indicate higher ecological value of parcel (max score of 50). |
| EF_bin | Ecological Function bin | Calculated/Created | Using Jenks natural breaks method, Low, Moderate, and High bins were defined using the total spread of ecological function scores (See Table 1 for breaks). Scores were then assigned into an appropriate bin. |
| RP_bin | Restoration Potential bin | Calculated/Created | Using Jenks natural breaks method, Low, Moderate, and High bins were defined using the total spread of restoration potential scores (See Table 1 for breaks). Scores were then assigned into an appropriate bin. |
| Priority | Overall Priority | Calculated/Created | Total restoration priority level based on Ecological Function and Restoration Potential tiers. |
| PriorityFinal | Final Priority | Calculated/Created | Final priority in high, moderate, and low bins based on Ecological Function and Restoration Potential scores. |