**Vegetation Sampling Form - Permanent Transects / Quads**

Date / / time : Obs Site\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Transect

**UTM (transect)**  / **Compass Reading**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Point** | **Spp** | **Height (cm)** |  | **Point** | **Spp** | **Height (cm)** |  | **Point** | **Spp** | **Height (cm)** |  | **Point** | **Spp** | **Height (cm)** |
| **0.0\*** |  |  |  | 13.0 |  |  |  | 26.0 |  |  |  | 39.0 |  |  |
| 1.0 |  |  |  | 14.0 |  |  |  | 27.0 |  |  |  | **40.0\*** |  |  |
| 2.0 |  |  |  | 15.0 |  |  |  | 28.0 |  |  |  | 41.0 |  |  |
| 3.0 |  |  |  | 16.0 |  |  |  | 29.0 |  |  |  | 42.0 |  |  |
| 4.0 |  |  |  | 17.0 |  |  |  | 30.0 |  |  |  | 43.0 |  |  |
| 5.0 |  |  |  | 18.0 |  |  |  | 31.0 |  |  |  | 44.0 |  |  |
| 6.0 |  |  |  | 19.0 |  |  |  | 32.0 |  |  |  | 45.0 |  |  |
| 7.0 |  |  |  | **20.0\*** |  |  |  | 33.0 |  |  |  | 46.0 |  |  |
| 8.0 |  |  |  | 21.0 |  |  |  | 34.0 |  |  |  | 47.0 |  |  |
| 9.0 |  |  |  | 22.0 |  |  |  | 35.0 |  |  |  | 48.0 |  |  |
| 10.0 |  |  |  | 23.0 |  |  |  | 36.0 |  |  |  | 49.0 |  |  |
| 11.0 |  |  |  | 24.0 |  |  |  | 37.0 |  |  |  | 50.0 |  |  |
| 12.0 |  |  |  | 25.0 |  |  |  | 38.0 |  |  |  | **\*remember quad** |

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| **Quad 1** | **0.0m** |  |  | **Soil Salinity ppt** \_\_\_\_\_\_\_\_\_\_\_\_ |  | **Quad 2**  | **19.5m**  |  |  | **Soil Salinity ppt** \_\_\_\_\_\_\_\_\_\_\_\_ |
|  | **WD** |   |  | **Comments** |   |   |  |  | **WD** |   |  | **Comments** |   |   |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Species** | **%** | **Ht.** | **Dens** | **Species** | **%** | **Ht** | **Dens** |  | **Species** | **%** | **Ht.** | **Dens** | **Species** | **%** | **Ht** | **Dens** |
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| **Quad 3** | **39.5m** |  |  | **Soil Salinity ppt** \_\_\_\_\_\_\_\_\_\_\_\_ |  | **Comments, diagrams, etc.:** |
|  | **WD** |   |  | **Comments** |   |   |  |  |  |  |  |  |  |  |  |
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| **Species** | **%** | **Ht.** | **Dens** | **Species** | **%** | **Ht** | **Dens** |  |  |  |  |  |  |  |  |  |
|   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
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**Survey Plot– Communities and Habitats**

**Site:\_\_\_\_\_\_\_\_\_\_\_\_\_Transect\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Time:\_\_\_\_\_\_\_ Tide:\_\_\_\_\_\_\_\_\_\_ Obs:\_\_\_\_\_\_\_\_\_\_\_\_Center GPS Coordinates (50m): Northing\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Easting\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Cover classes: **+**(<1%) **1**(1-5%) **2**(6-10%) **3**(11-25%) **4**(26-50%) **5**(51-75%)  **6**(76-100%)

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| Communities and Habitats in 100m Diam. Survey Plot | Cover class | Dominant species |
| *Jaumea carnosa or Carex sp.* dominated (“low marsh”) Regularly flooded by daily tides; Highly saline conditions are dominated by *Jaumea carnosa* and *Sarcocornia pacifica*Brackish conditions are dominated by *Carex sp.*, *Triglochin* *maritimum* and *Scirpus sp.*Common species include *Distichlis spicata*, *Plantago maritima*, *Spergularia sp*. and *Atriplex patula*. |  |  |
| *Deschampsia caespitosa* dominated (“high marsh”)Above mean higher high water; and inundated less than daily; Dominated by *Deschampsia caespitosa*, and *Hordeum brachyantherum* Common species include *Distichlis spicata*, *Grindelia integrifolia*, *Potentilla anserina ssp. pacifica*, and *Atriplex patula* |  |  |
| Salt marsh terrestrial borderInfrequently flooded by spring and storm tides; Moderately halophytic; Could include areas of higher elevation on marsh platform (commonly islands or linear patches next to channel edges)Dominated by *Symphyotrichum subspicatum* |  |  |
| Brackish terrestrial borderRarely flooded by tides, but often tidal influenced fresh/brackishNot halophytic but tolerant of maritime conditions (spray and infrequent pulses)Includes areas heavily influenced by freshwater sources.Dominated by *Typha Latifolia,* *Salix sp*. and *Populus sp.* Could include *Spiraea douglasii* and *Physocarpus capitatus* |  |  |
| InvasivesInvasives such as *Phalaris arundinacea,* *Cotula coronopifolia, Lotus* *corniculatus, Circium sp,* and *Ranunculus sp.*Colonization and spread often result of disturbance |  |  |
| Pannes, Pools, Creeks, and MudflatsChannels, creeks, ditches, pannes, pools and mudflats |  | n/a |
| Open WaterLarger areas of water: bays, rivers, ponds |  | n/a |
| UplandNon-wetland areas of upland that fall into the 100m diameter circle; includes land uses of all types (e.g. natural and developed) Dominated by Conifers such as *Pseudotsuga menziesii* & *Thuja plicata*  |  | n/a |

 **100m Buffer around Survey Plot – to be completed in office**

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| **Land Use Type**  | **Cover Class** | **Land Use Type**  | **Cover Class** |
| Natural condition |  | Residential – Low |  |
| Modified natural |  | Residential – High |  |
| Maintained open |  | Urban |  |
| Disturbed open |  | Marina |  |
| Agricultural |  |  |  |