**DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET**

MONITORING LOCATION: DESCRIPTION \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SURVEY/PROJECT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MONITORING LOCATION: NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SAMPLING ENTITY\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ RQ\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MONITORING LOCATION: WIN ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ COUNTY \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ORG CODE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

LATITUDE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ LONGITUDE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TIME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (EAST/CENT)

**HABITAT COMPONENTS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| STORMWATER INPUTS: | Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation | | | | | | | | | | | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place | | | | | | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place | | | | | | | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place | | | | | |
| 20 | 19 | | | 18 | | 17 | | | 16 | | 15 | 14 | 13 | | 12 | 11 | 10 | 9 | | 8 | 7 | | 6 | 5 | | 4 | 3 | 2 | 1 |
| LAKESIDE ALTERATIONS: | Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) | | | | | | | | | | | Moderate disturbance visible -structures, roads or other (10%-49% lakeside affected) | | | | | | Many structures, roads or other human disturbance visible (50%-70% lakeside affected) | | | | | | | Highly developed or disturbed (>70% of lakeside affected) | | | | | |
| 20 | 19 | 18 | | | 17 | | | 16 | | | 15 | 14 | 13 | | 12 | 11 | 10 | 9 | | 8 | 7 | | 6 | 5 | 4 | | 3 | 2 | 1 |
| BUFFER ZONE: | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer | | | | | | | | | | | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer | | | | | | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer | | | | | | | < 29% of shoreline with >18m buffer | | | | | |
| 20 | 19 | | 18 | | | | 17 | | | 16 | 15 | 14 | 13 | | 12 | 11 | 10 | 9 | 8 | | | 7 | 6 | 5 | | 4 | 3 | 2 | 1 |
| **PREDOMINANT LAKESIDE LAND USE** :  Forest/Natural Silviculture Field/Pasture Agricultural Residential Commercial Industrial Other (Specify) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Local Watershed Erosion:** None Slight Moderate Heavy | | | | | | | | | | | | | | | **Local Watershed Pollution:** None Slight Moderate Heavy | | | | | | | | | | | | | | | |

**WATER QUALITY**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample Depth (m)** | | **Temp. (C°)** | **pH (SU)** | **DO (mg/L)** | **DO**  **(% SAT)** | **Sp. Cond. (umhos/cm)** | **Salinity (ppt)** | **Secchi Depth (m)** | **Total Depth (m)** |
| **Top** |  |  |  |  |  |  |  |  |  |
| **Mid** |  |  |  |  |  |  |  |
| **Bottom** |  |  |  |  |  |  |  |
| **Data J Qualified?** | |  |  |  |  |  |  | **VOB:** Yes No |
| **Meter ID #:** | |  | | | | | | **Photos Taken:** Yes No | |

**OBSERVATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Water Clarity:** Clear Slightly Turbid Turbid Opaque | **Sediment Odors:**    Normal  Anaerobic  Chemical  Petroleum    Sewage | | **Abundance:** Absent Rare Common Abundant  Periphyton/Algal Mat:  Nuisance Plants:  Submersed Plants:  Exotic Apple Snails: | |
| **Water Color:** Clear Green (Algae) Tannic |
| **Water Odors:**  Normal Chemical Petroleum Sewage |
| **Water Oils:** NormalGlobSheenSlick |
| **Artificially Impounded:** Yes No | **Sediment Type:**  Organic Fibrous (peaty)  Organic Smooth (muck)  Sand/Silt  Sandy  Vegetated | | **Biological Communities:**  LVI Conducted? Yes No | |
| **Water Level:** Low Normal High | **Notes:** | |
| **Water Level Control Mechanisms Present** (Weir, Dam, Pumps)**:**  Yes No Don’t Know |
| **Active Vegetation Management:** Yes No Don’t Know |
| **Sediment Oils:**  Normal  Glob  Sheen  Slick | |
| **Weather Conditions:** |
| **Print Name:** | | **Signature:** | | **Date**: |

SITE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Collection Method:** Wading Shore Canoe Boat (gas motor) Other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |
| **Additional Observations (evidence of vegetation management):** | | |
| **Print Name:** | **Signature:** | **Date:** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sampling Team Members** | **Meter**  **Readings** | **Sample**  **Collection** | **Documentation** | **Preservation** | **Preservation**  **Check** |
| **1.** |  |  |  |  |  |
| **2.** |  |  |  |  |  |
| **3.** |  |  |  |  |  |
| **4.** |  |  |  |  |  |