# Maine DEP Wetland Station Report

## *Physical/Chemical Attributes*

**Station:** W-115 **Name:** CHRISTINA RESERVOIR - W-115

**Trip ID:** 2009-115 **Town:** FORT FAIRFIELD

**Mitigation Monitoring Site:** No

### Catchment Land Use

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Total Area (ac)** | 3397 | **High Int. Dev %** | 0.0 | **Water %** | 11.2 | **Non-vegetated %** | 2.2 |
| | | **Med Int. Dev. %** | 0.1 | **Wetland %** | 21.9 | **Tilled Agriculture %** | 55.6 |
| | | **Low Int. Dev. %** | 1.2 | **Upland Woody %** | 9.8 | **Grassland %** | 0.1 |
| | | **Development %** | 1.3 | **Natural %** | 31.8 | **Human Altered %** | 57.0 |
| | | | | | | **Impervious %** | 0.8 |
| **Total Land (ac)** | 3018 | **High Int. Dev %** | 0.0 | **Water %** | N/A | **Non-vegetated %** | N/A |
| | | **Med Int. Dev. %** | 0.1 | **Wetland %** | 24.7 | **Tilled Agriculture %** | 62.6 |
| | | **Low Int. Dev. %** | 1.4 | **Upland Woody %** | 11.1 | **grassland %** | 0.1 |
| | | **Development %** | 1.4 | **Natural %** | 35.8 | **Human Altered %** | 64.2 |
| | | | | | | **Impervious %** | 0.9 |

### Human Disturbance

| | |
|---|---|
| **TOTAL SCORE** | 33 |
| **Hydrologic Modifications** | 8 |
| **Vegetative Modifications** | 0 |
| **Chemical Contaminants** | 5 |
| **Impervious Surface** | 8 |
| **Non-point Sources** | 12 |

### Landscape-level Cowardin Classification

| | |
|---|---|
| **System:** | PALUSTRINE |
| **Subsystem:** | |
| **Class 1:** | EMERGENT |
| **Subclass 1:** | PERSISTENT |
| **Class 2:** | |
| **Subclass 2:** | |
| **Class 3:** | |
| **Subclass 3:** | |

### Hydrogeomorphic Setting

| | |
|---|---|
| **Landscape Position:** | LENTIC |
| **Lotic Gradient:** | |
| **Flow Path:** | BIDIRECTIONAL FLOW-NONTIDAL |
| **Land Form:** | FRINGE |
| **Land Form Type:** | LENTIC |
| **Waterbody Type:** | LAKE |
| **Waterbody Subtype:** | |
| **Comments:** | |

### Water Chemistry

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Field pH:** | 8.08 | STU | **Lab pH:** | 8.4 | STU | **Si:** | < 0.55 | MG/L |
| **Field Conductivity:** | 214 | US/CM | **Lab Conductivity:** | 208 | UMHO | **NO3:** | | |
| **Temperature:** | 21 | DEG C | **Alkalinity:** | 98 | MG/L | **NO3 + NO2:** | < 0.005 | MG/L |
| **Dissolved O2:** | 8.8 | MG/L | **Color:** | 21 | UNIT | **Total N:** | | |
| | | | **DOC:** | 4.7 | MG/L | **TKN:** | 0.6 | MG/L |
| | | | **Ca:** | | | **NH4:** | | |
| | | | **Mg:** | | | **PO4:** | 4 | UG/L |
| | | | **K:** | | | **Total P:** | 0.024 | MG/L |
| | | | **Na:** | | | **Chl. a:** | J 0.0046 | MG/L |
| | | | **Cl:** | 4 | MG/L | **Corr. Chl. a:** | J 0.005 | MG/L |
| | | | **Sulfate:** | | | | | |

**Dominant Plant Species:** UNKNOWN SUBMERGED PLANTS, CATTAILS, RUSHES(SPARSE)

**Habitat Classification:**
EMERGENT PERSISTENT VEGETATION
AQUATIC MACROPHYTE BED

**Substrate Classification:**
GRAVEL SUBSTRATE
SAND SUBSTRATE