 **Pump Station Information Form**

***Small Communities Division***

***Note:* Please complete this form and submit to HRSD if your project calls for:**

1. **a new private pump station facility,**
2. **upgrades and/or modifications to an existing private pump station facility, or**
3. **a replacement of an existing private pump station facility.**

|  |  |  |
| --- | --- | --- |
| Project Name: |  | |
| Jurisdiction: |  |

**Pump Station Facility Information**

|  |  |  |  |
| --- | --- | --- | --- |
| Pump station number: |  | | As provided by locality |
| Name: |  | | Pump station name |
| Ownership: |  | | Is this a “Private” or “Public” pump station facility? |
| Number of pumps: |  | Number of pumps in the pump station | |
| Design TDH: |  | Total Dynamic Head for the pumps (ft) | |
| Firm capacity: |  | Design capacity with largest capacity pump out of service (gpm) | |
| Total capacity: |  | Pump station design capacity with all pumps operating (gpm) | |
| Configuration type: |  | | WW/DW, Submersible, Vacuum, Suction lift, Dry pit |
| Force main outfall type: |  | | Select force main outfall type (gravity, pressure) |
| Drive type: |  | | Motor drive (Constant, VFD) |
| Vertical datum: |  | | Vertical Datum - Year of Adjustment (ft) |
| Construction year: |  | Year the pump station was built | |

**Wet Well Information**

|  |  |  |
| --- | --- | --- |
| Ground elev: |  | Existing or new ground elevation (ft) |
| Top slab elev: |  | Wet well top elevation inside wet well wall (ft) |
| Bottom slab elev: |  | Wet well bottom slab elevation (ft) |
| Influent invert elev: |  | Invert elevation of influent pipe into the pump station wet well (ft) |
| Lead pump ON elev: |  | Pump control setting elevation (ft) |
| Lag pump ON elev: |  | Pump control setting elevation (ft) |
| Lead pump OFF elev: |  | Pump control setting elevation (ft) |
| Lag pump OFF elev: |  | Pump control setting elevation (ft) |
| VFD Set Point elev: |  | Set point for VFD pumps (ft) |
| CL of pump volute elev: |  | Center line of pump volute elevation (ft) |
| High water alarm elev: |  | Alarm setting elevation (ft) |
| Cross-sectional area: |  | Cross-sectional area based on operational storage volume (ft2) |
| Overflow elev: |  | Elevation at which SSO will first occur at PS or upstream SMH (ft) |
| Overflow point location: |  | |
| ***Note:***  *Provide location of known lowest manhole rim upstream of the pump station where an overflow would first occur. Please Include a map to indicate this location.* | | |

**Pump Information**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Pumps** | **Pump Manufacturer** | **Model** | **Min. impeller dia.**  **(in)** | **Max. impeller dia. (in)** | **Installed impeller dia. (in)** |
| **1** |  |  |  |  |  |
| **2** |  |  |  |  |  |
| **3** |  |  |  |  |  |
| **4** |  |  |  |  |  |

**Motor Information** *(For constant speed pumps, use the “Max Speed” column to report motor speed)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Motors** | **Motor Manufacturer** | **HP** | **Min. Speed**  **(rpm)** | **Max. Speed**  **(rpm** |
| **1** |  |  |  |  |
| **2** |  |  |  |  |
| **3** |  |  |  |  |
| **4** |  |  |  |  |

***Note:*** *For constant speed pumps fill out the “Maximum Pump Curves” table ONLY.*

**Maximum Pump Curves** *(Units should be in* ***feet*** *for H and* ***gpm*** *for Q)*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Pump Curve Points** | | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
| **Pump 1** | **H** |  |  |  |  |  |  |  |  |  |
| **Q** |  |  |  |  |  |  |  |  |  |
| **Pump 2** | **H** |  |  |  |  |  |  |  |  |  |
| **Q** |  |  |  |  |  |  |  |  |  |
| **Pump 3** | **H** |  |  |  |  |  |  |  |  |  |
| **Q** |  |  |  |  |  |  |  |  |  |
| **Pump 4** | **H** |  |  |  |  |  |  |  |  |  |
| **Q** |  |  |  |  |  |  |  |  |  |

**Minimum Pump Curves** *(Units should be in* ***feet*** *for H and* ***gpm*** *for Q)*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Pump Curve Points** | | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
| **Pump 1** | **H** |  |  |  |  |  |  |  |  |  |
| **Q** |  |  |  |  |  |  |  |  |  |
| **Pump 2** | **H** |  |  |  |  |  |  |  |  |  |
| **Q** |  |  |  |  |  |  |  |  |  |
| **Pump 3** | **H** |  |  |  |  |  |  |  |  |  |
| **Q** |  |  |  |  |  |  |  |  |  |
| **Pump 4** | **H** |  |  |  |  |  |  |  |  |  |
| **Q** |  |  |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Applicant’s Name: |  | Date: |  |