



**NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SYSTEM ENGINEERING
TECHNICAL REVIEW FORM**

**PUMPING STATIONS
(N.J.A.C. 7:10-11.9)**

Water Purveyor _____

PWSID# _____

Municipality _____

Pump Information:

Number of Pumps _____

Capacity/Discharge Head _____

Type of Pumps

_____ gpm @ _____ TDH
_____ gpm @ _____ TDH
_____ gpm @ _____ TDH

Turbine
 Centrifugal

Section of Specifications giving details on pumps: _____

Method of Pump Control: _____ Firm Capacity: _____ GPD

Location of Pump Station: Above Grade
 Underground

Maximum elevation served by pump station: _____

Does the pressure gradient supplied by this pump station provide fire protection? YES NO

Does the pressure gradient supplied by this pump station contain gravity storage? YES NO

- | | YES | NO | N/A |
|--|--------------------------|--------------------------|--------------------------|
| 1. Is the pump station designed to meet the demand requirements pursuant to N.J.A.C. 7:10-11.6(a)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Does the pump station have firm capacity to achieve the maximum design output of the station? (N.J.A.C. 7:10-11.6(a)) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Is the pump station equipped with check valves within the station? (N.J.A.C. 7:10-11.9(e)) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Is the pump station equipped with flow meters within the station? (N.J.A.C. 7:10-11.9(e)) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Is the pump station equipped with isolation valves within the station? (N.J.A.C. 7:10-11.9(e)) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Is the pump station equipped with pressure gauges within the station? (N.J.A.C. 7:10-11.9(e)) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

	YES	NO	N/A
7. Is the pump station equipped with shutoff valves within the station? (N.J.A.C. 7:10-11.9(e))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the station designed to maintain a minimum pressure of 20 psi in the suction main? (N.J.A.C. 7:10-11.9(d)3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. If included is the wet well watertight? (N.J.A.C. 7:10-11.9(c))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. If included is the wet well protected against seepage? (N.J.A.C. 7:10-11.9(c))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. If included is the wet well protected against contamination? (N.J.A.C. 7:10-11.9(c))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. If included is the wet well equipped with a vent? (N.J.A.C. 7:10-11.9(c))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. If included is the wet well protected against the entry of foreign matter? (N.J.A.C. 7:10-11.9(c))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Above Grade Pumping Stations

1. Is the building constructed in accordance with N.J.A.C. 7:10-11.6(g)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is the finished floor elevation of a treated water pumping station a minimum of 1 foot above the highest recorded flood elevation? (N.J.A.C. 7:10-11.9(b)1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Underground Pumping Stations

1. Are a minimum of 2 sump pumps? (N.J.A.C. 7:10-11.9(g)1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Are the sump pumps designed to be activated at different flood levels provided? (N.J.A.C. 7:10-11.9(g)1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Are there flood alarms to a station manned 24 hours a day? (N.J.A.C. 7:10-11.9(g)2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the alarm triggered when water is 6 inches above floor level? (N.J.A.C. 7:10-11.9(g)2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the alarm triggered when the second sump pump is activated? (N.J.A.C. 7:10-11.9(g)2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the above ground power shutoff activated when water reaches base of the pumps? (N.J.A.C. 7:10-11.9(g)2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- | | YES | NO | N/A |
|---|--------------------------|--------------------------|--------------------------|
| 7. Are isolation valves provided which automatically close if there is a power failure? (N.J.A.C. 7:10-11.9(g)3) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Are isolation valves provided which automatically close when the second sump pump starts? (N.J.A.C. 7:10-11.9(g)3) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Submit appropriate engineering plans, specifications, reports, etc. to substantiate your answers

I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval.



Signature of Engineer
Professional Engineer's Embossed Seal

_____ Date

_____ N.J.P.E. #

_____ Type or Print Name of Engineering Firm

PA09 (09/13)

