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Making It Better, Together.

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FORM 5 DESIGN OF PRESSURE DOSING SYSTEM

1. Configuration of Distribution Network: Type Manifold End Central Distribution

Laterals: Number _____ length, ft. _____ Diameter, in _____

Tot. lateral Vol (V_l) gals _____

Hole Diameter, in _____ Hole Spacing, in _____ Number of Laterals, n _____

2. Lateral Discharge Rate: Design Pressure Head at Distal End of Laterals (H_p). ft. _____

Hole Discharge Rate, Q, gpm _____ Number of Holes per Lateral, n _____

Lateral Discharge Rate, (Q x n) gpm _____

3. Manifold length, ft. _____ Manifold Diameter, in _____, Total Manifold Vol. (V_m) _____

4. System Discharge Rate, gpm _____

5. Dose Volume: Daily Volume of Sewage (Q). gpd _____ Design Permeability, in/hr _____

or Percolation Rate, min/in _____ Total Volume of Delivery Pipe (V_p) _____

Internal Volume of Distribution Network (V), (V_p) + V_m + V_l _____ Dose Volume (V_d) _____

- 6a. Pump Selection: Length of Delivery Pipe, ft. _____ Diameter of Delivery Pipe, in _____

Friction Loss in Delivery Pipe (H_f, ft. _____ Elevation of Dosing Tank Low Water Level _____

Elevation of Lateral Invert _____ Elevation Head (H_e), ft. _____

Total Operating Head (H_t) (H_p) + (H_f) (H_e), ft. _____ Pump Model _____

Rated Horse Power _____ Pump Discharge Rate at Total Operating Head, gpm _____

- 6b. Siphon Elevation: Pipe H_f, ft. _____ Length of deliver Pipe _____

Friction Loss in Delivery pipe, H_f, ft. _____ Velocity Head, H_v, ft. _____

Total Operating Head (H_t) (H_p + H_f + H_v), ft. _____ Elevation Lateral Invert _____

Elevation of Siphon Invert _____

7. I hereby certify that the information furnished on Form 5 of this application is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-B

Signature of Professional Engineer _____ Date ____/____/____