

REQUIRED INFORMATION FOR MIXING ZONE MODELING

GENERAL INFORMATION

1. Applicant Name: _____
2. Permit No.: _____
3. Project Name (if different from applicant): _____
4. Contact name and phone number: _____
5. Date submitted: _____
5. Facility type (new, existing or upgrade): _____

AMBIENT CONDITIONS

1. Receiving waterbody: _____
2. Width of waterbody at discharge point (m): _____
3. Depth of waterbody at discharge point (m): _____
4. Average depth of waterbody at discharge point (m): _____

DISCHARGE TYPE:

Submerged endpipe or submerged multiport diffuser? _____
Effluent Density (kg/m³): _____

Note: Fill out box A below for endpipe discharges; box B for diffuser discharges.

A. DISCHARGE CONDITIONS FOR SUBMERGED ENDBPIPE DISCHARGES

1. Nearest bank (right or left) to the outfall looking downstream: _____
2. Distance from nearest bank to discharge (m): _____
3. Endpipe diameter (m): _____
4. Contraction ratio (if known): _____
5. Height of discharge above stream bottom (m): _____
6. Effluent flow rate (mgd): _____

B. DISCHARGE CONDITIONS FOR SUBMERGED MULTIPORT DIFFUSERS

NOTE:

Diffuser length is defined as the distance between the first and last diffuser ports.

1. Diffuser length (m): _____
2. Nearest bank (right or left) to the outfall looking downstream: _____
3. Distance from nearest bank to first diffuser port (m): _____
4. Total number of ports: _____
5. Diameter of a single port (m): _____
6. Distance between adjacent ports (i.e., port spacing, m): _____
7. Height of ports above stream bottom (m): _____
8. Port contraction ratio (if known): _____
9. Diameter of diffuser manifold (m): _____
10. Effluent flow rate (mgd): _____

SPECIAL REQUIREMENTS

1. Please submit a map displaying the outfall location along with the appropriate latitude/longitude coordinates.
2. Please submit the appropriate engineering plans that depict the outfall configuration.