



**Form 1.1 SYSTEM DESCRIPTION (SD)**

*(This form is used for the initial system evaluation for the facility and the site. It should be kept on file, and a copy should accompany the service provider at each O&M service visit. Any changes to the system facility should be recorded on the form, along with the date the change was noted.)*

**A. Client Contact Information**

Name of owner: \_\_\_\_\_ System ref. #: \_\_\_\_\_  
 Phone: \_\_\_\_\_ T: \_\_\_ R: \_\_\_ Sec: \_\_\_ No.: \_\_\_  
 Cell: \_\_\_\_\_ E-mail: \_\_\_\_\_  
 Site address/County: \_\_\_\_\_  
 \_\_\_\_\_  
 Mailing address/County (if different): \_\_\_\_\_  
 \_\_\_\_\_  
 Directions to site: \_\_\_\_\_

**B. System Documentation Available** (If no documentation, fill out Section D.)

Date installed: \_\_\_\_\_

Installer: _____	License #: _____
Phone: _____ Cell: _____	Fax: _____
E-mail: _____	
Designer: _____	License #: _____
Phone: _____ Cell: _____	Fax: _____
E-mail: _____	
Previous service provider: _____	License #: _____
Phone: _____ Cell: _____	Fax: _____
E-mail: _____	

Design flow: \_\_\_\_\_ Gal per day

**C. Operational Checklists**

*Identify operational checklists for components included in system. Number the components of the treatment train in order in the spaces provided after the titles.*

**Form 4.1 Site Assessment** on File?  Yes  No

**Tanks and advanced treatment component operational checklists (Chapters 5, 6 and 7):**

- |  |  |
|--|--|
| <input type="checkbox"/> Pump: Demand-Dosed system: _____      | <input type="checkbox"/> Aerobic treatment unit: _____               |
| <input type="checkbox"/> Pump: Timer-Dosed system: _____       | <input type="checkbox"/> Constructed wetland: _____                  |
| <input type="checkbox"/> Holding tank: _____                   | <input type="checkbox"/> Lagoon: _____                               |
| <input type="checkbox"/> Septic/Trash/Processing (tank): _____ | <input type="checkbox"/> Disinfection unit –Chlorine: _____          |
| <input type="checkbox"/> Pump tank(s): _____                   | <input type="checkbox"/> Disinfection unit –Ultraviolet light: _____ |
| <input type="checkbox"/> Media filter: _____                   | <input type="checkbox"/> Disinfection unit –Ozone: _____             |

System ref. #: \_\_\_\_\_

**Final treatment and dispersal component operational checklists (Chapter 8):**

- Gravity Distribution: \_\_\_\_\_
- Drip distribution system: \_\_\_\_\_
- Evapotranspiration bed: \_\_\_\_\_
- Spray distribution system: \_\_\_\_\_
- Mound system: \_\_\_\_\_
- Discharging systems outfall: \_\_\_\_\_
- Low-pressure drainfield: \_\_\_\_\_

**D. No System Documentation Available**

*Complete the remaining information if it is not available in the permit or as-built drawings.*

**Facility Details**

1. Number of bedrooms: \_\_\_\_\_
2. Square footage of facility: \_\_\_\_\_ sq ft
3. Number of current occupants: \_\_\_\_\_
4. Design flow: \_\_\_\_\_ gpd
5. Design strength: \_\_\_\_\_ BOD (mg/L) \_\_\_\_\_ TSS (mg/L) \_\_\_\_\_ FOG (mg/L)
6. Water supply:
  - Private water supply
  - Public water supply
7. Water source (if private supply): \_\_\_\_\_ Lateral distance to water supply
  - Groundwater well: \_\_\_\_\_ ft
  - Spring: \_\_\_\_\_ ft
  - Surface water (i.e. creek, lake, etc.): \_\_\_\_\_ ft
8. Garbage disposal present? Yes \_\_\_ No \_\_\_
9. Are any water softener or water treatment chemicals used? Yes \_\_\_ No \_\_\_
10. Has facility been remodeled since original construction? Yes \_\_\_ No \_\_\_

**System Details**

**1. Site**

- a. Landscape position: \_\_\_\_\_
- b. Drainage:  Surface/gravity  Subsurface/gravity  Subsurface/pump
- c. Monitoring well present? Yes \_\_\_ No \_\_\_

**2. Pretreatment components - Tanks**

- a. Holding tank
  - 1) Capacity: \_\_\_\_\_ gal
  - 2) Material:  Concrete  Fiberglass  Plastic
    - i) Manufacturer: \_\_\_\_\_
  - 3) Access to surface? Yes \_\_\_ No \_\_\_
  - 4) Location (GIS): \_\_\_\_\_ / \_\_\_\_\_
- b. Septic tank /Trash tank
  - 1) Capacity (total): \_\_\_\_\_ gal
    - i) Compartmented? Yes \_\_\_ No \_\_\_
    - ii) Capacities for compartmented system: 1) \_\_\_\_\_ gal 2) \_\_\_\_\_ gal
  - 2) Material:  Concrete  Fiberglass  Plastic
    - i) Manufacturer: \_\_\_\_\_

System ref. #: \_\_\_\_\_

- 3) Access to surface? Yes \_\_\_ No \_\_\_
- 4) Location (GIS): \_\_\_\_\_/\_\_\_\_\_
- 5) Effluent screen? Yes \_\_\_ No \_\_\_
  - i) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

c. Flow equalization tank (surge, etc.)

- 1) Capacity: \_\_\_\_\_ gal/in
- 2) Material:  Concrete  Fiberglass  Plastic
- 3) Access to surface? Yes \_\_\_ No \_\_\_
- 4) Location (GIS): \_\_\_\_\_/\_\_\_\_\_
- 5) Pump tank: \_\_\_\_\_ N.A.
  - i) Manufacturer: \_\_\_\_\_
- 6) Pump: \_\_\_\_\_ N.A.
  - i) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ HP: \_\_\_\_\_
- 7) Pump operating condition
  - i) Discharge Rate: \_\_\_\_\_ gal/min
  - ii) Head: \_\_\_\_\_ ft
- 8) Control method
  - i) Sensors:  Floats  Pressure transducer  Ultrasonic
  - ii) Description: \_\_\_\_\_
- 9) Pump dose settings
  - i) Frequency: \_\_\_\_\_ doses/day
  - ii) Interval: \_\_\_\_\_ sec/dose
  - iii) Volume: \_\_\_\_\_ gal/dose
- 10) Control panel
  - i) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_
- 11) Electrical
  - i) Separate circuits (pump, alarm)? Yes \_\_\_ No \_\_\_
  - ii) Breaker size: \_\_\_\_\_
- 12) Alarm
  - i) Manufacturer: \_\_\_\_\_
  - ii) Sensors:  Floats  Pressure transducer  Ultrasonic
  - iii) Description: \_\_\_\_\_

d. Dosing pump tank

- 1) Capacity: \_\_\_\_\_ gal/in
- 2) Material:  Concrete  Fiberglass  Plastic
- 3) Access to surface? Yes \_\_\_ No \_\_\_
- 4) Location (GIS): \_\_\_\_\_/\_\_\_\_\_
- 5) Pump tank: \_\_\_\_\_ N.A.
  - i) Manufacturer: \_\_\_\_\_
- 6) Pump: \_\_\_\_\_ N.A.
  - i) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ HP: \_\_\_\_\_
- 7) Pump operating condition
  - i) Discharge Rate: \_\_\_\_\_ gal/min
  - ii) Head: \_\_\_\_\_ ft
- 8) Control method
  - i) Sensors:  Floats  Pressure transducer  Ultrasonic
  - ii) Description: \_\_\_\_\_
- 9) Pump dose settings
  - i) Frequency: \_\_\_\_\_ doses/day

System ref. #: \_\_\_\_\_

- ii) Interval: \_\_\_\_\_ sec/dose
- iii) Volume: \_\_\_\_\_ gal/dose
- 10) Panel for sensors
  - i) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_
- 11) Electrical
  - i) Separate circuits (pump, alarm)? Yes \_\_\_ No \_\_\_
  - ii) Breaker size: \_\_\_\_\_
- 12) Alarm
  - i) Manufacturer: \_\_\_\_\_
  - ii) Sensors:  Floats  Pressure transducer  Ultrasonic
  - iii) Description: \_\_\_\_\_

**3. Pretreatment components – advanced**

- a. Aerobic treatment unit (ATU)
  - 1) Treatment method:
    - Suspended growth  Attached growth  Rotating Biological Contactor
    - Combination attached/suspended growth  Sequencing Batch Reactor
    - Other: \_\_\_\_\_
  - 2) Capacity: \_\_\_\_\_ gpd
  - 3) Material:  Concrete  Fiberglass
    - i) Manufacturer: \_\_\_\_\_ Model #: \_\_\_\_\_
    - ii) Product serial #: \_\_\_\_\_
  - 4) Access to surface? Yes \_\_\_ No \_\_\_
  - 5) Location (GIS): \_\_\_\_\_/\_\_\_\_\_
  - 6) Effluent screen / Tertiary filter \_\_\_\_\_ N.A.
    - i) Manufacturer: \_\_\_\_\_
  - 7) Air supply
    - i) Air supply method:  Aspirator  Compressor  Blower  Free Air
    - ii) Manufacturer: \_\_\_\_\_ Model #: \_\_\_\_\_
  - 8) Sludge return method: \_\_\_\_\_
- b. Single pass filter
  - 1) Media:  Sand  Glass  Foam  Peat  Other: \_\_\_\_\_
    - i) Media depth: \_\_\_\_\_ in
    - ii) Liner material: \_\_\_\_\_
  - 2) Filter size: \_\_\_\_\_ sq ft
    - i) Dimensions: \_\_\_\_\_ ft x \_\_\_\_\_ ft
    - ii) Accessibility:  Buried  Free Access  Covered
    - iii) Cover material: \_\_\_\_\_
    - iv) Lid insulated? Yes \_\_\_ No \_\_\_
  - 3) Distribution method:  Pressure  Gravity
    - i) Pipe diameter: \_\_\_\_\_ in
    - ii) Flow control:  Orifice  Spray nozzle  Other: \_\_\_\_\_
      - Orifice position: \_\_\_\_\_ in
    - iii) Flow control diameter: \_\_\_\_\_ in
    - iv) Number of flow controls (orifices, nozzles, etc.): \_\_\_\_\_
    - v) Squirt height/Operating head: \_\_\_\_\_ in
    - vi) Clean outs/Inspection ports: Number \_\_\_\_\_ Yes \_\_\_ No \_\_\_
    - vii) Clean out access to surface? Yes \_\_\_ No \_\_\_
  - 4) Filtrate collection system: \_\_\_\_\_

System ref. #: \_\_\_\_\_

c. Recirculating Filter

- 1) Media:  Sand  Gravel  Bottom Ash  Foam  Textile  Other: \_\_\_\_\_
- i) Media depth: \_\_\_\_\_ in
- ii) Liner material: \_\_\_\_\_
- iii) Recirculation method: \_\_\_\_\_
- 2) Filter size: \_\_\_\_\_ sq ft
- i) Dimensions: \_\_\_\_\_ ft x \_\_\_\_\_ ft
- ii) Accessibility:  Buried  Free Access
- iii) Cover material: \_\_\_\_\_
- iv) Lid insulated? Yes \_\_\_ No \_\_\_
- 3) Distribution method
- i) Pipe diameter: \_\_\_\_\_ in
- ii) Flow control:  Orifice  Spray nozzle  Other: \_\_\_\_\_
- Orifice position: \_\_\_\_\_
- iii) Flow control diameter: \_\_\_\_\_ in
- iv) Number of flow controls (orifices, nozzles, etc.): \_\_\_\_\_
- v) Squirt height/Operating head: \_\_\_\_\_ in
- vi) Clean outs/Inspection ports: Number \_\_\_\_\_ Yes \_\_\_ No \_\_\_
- vii) Clean out access to surface? Yes \_\_\_ No \_\_\_
- 4) Filtrate collection system: \_\_\_\_\_
- 5) Forced aeration: \_\_\_\_\_ N.A.
- i) Description: \_\_\_\_\_

d. Trickling filter

- 1) Media:  Gravel  Foam  Textile  Plastic  Other: \_\_\_\_\_
- i) Media depth: \_\_\_\_\_ in
- ii) Liner material: \_\_\_\_\_
- 2) Filter size: \_\_\_\_\_ sq ft
- i) Dimensions: \_\_\_\_\_ ft x \_\_\_\_\_ ft
- 3) Distribution method
- i) Pipe diameter: \_\_\_\_\_ in
- ii) Flow control:  Orifice  Spray nozzle  Other: \_\_\_\_\_
- Orifice position: \_\_\_\_\_
- iii) Flow control diameter: \_\_\_\_\_ in
- iv) Number of flow controls (orifices, nozzles, etc.): \_\_\_\_\_
- v) Squirt height/Operating head: \_\_\_\_\_ in
- vi) Clean outs/Inspection ports: Number \_\_\_\_\_ Yes \_\_\_ No \_\_\_
- vii) Clean out access to surface? Yes \_\_\_ No \_\_\_
- 4) Filtrate collection system: \_\_\_\_\_
- 5) Forced aeration: \_\_\_\_\_ N.A.
- i) Description: \_\_\_\_\_

e. Constructed wetland

- 1) Bed media:  None  Gravel  Other: \_\_\_\_\_
- i) Number of cells: \_\_\_\_\_
- ii) Media depth: \_\_\_\_\_ in
- iii) Water depth: \_\_\_\_\_ in
- iv) Liner material: \_\_\_\_\_
- v) Border material: \_\_\_\_\_
- 2) Size: \_\_\_\_\_ sq ft
- i) Dimensions: \_\_\_\_\_ ft x \_\_\_\_\_ ft

System ref. #: \_\_\_\_\_

ii) Length to width ratio: \_\_\_\_\_ :

- 3) Distribution method
  - i) Pipe diameter: \_\_\_\_\_ in
  - ii) Flow control:  Orifice  Spray nozzle  Other: \_\_\_\_\_  
Orifice position: \_\_\_\_\_
  - iii) Flow control diameter: \_\_\_\_\_ in
  - iv) Number of flow controls (orifices, nozzles, etc.): \_\_\_\_\_
  - v) Squirt height/Operating head: \_\_\_\_\_ in
  - vi) Clean outs/Inspection ports: Number \_\_\_\_\_ Yes \_\_\_ No \_\_\_
  - vii) Clean out access to surface? Yes \_\_\_ No \_\_\_
- 4) Surface loading rate: \_\_\_\_\_ gpd/sq ft
- 5) Filtrate collection system: \_\_\_\_\_
- 6) Monitoring location: \_\_\_\_\_
- 7) Vegetation: \_\_\_\_\_ N.A.
- i) Description: \_\_\_\_\_
- 8) Water level control: \_\_\_\_\_ N.A.
- i) Description: \_\_\_\_\_

f. Lagoon system

- 1) Type:  Aerobic  Facultative  Partial-mixed aerated  Anaerobic
  - i) Water depth: \_\_\_\_\_ ft
  - ii) Liner material: \_\_\_\_\_
- 2) Lagoon size: \_\_\_\_\_ sq ft
  - i) Dimensions: \_\_\_\_\_ ft x \_\_\_\_\_ ft
  - ii) Length to width ratio: \_\_\_\_\_ :
- 3) Inlet to lagoon
  - i) Pipe description: \_\_\_\_\_
  - ii) Pipe diameter: \_\_\_\_\_ in
  - iii) Clean outs? Yes \_\_\_ No \_\_\_
- 4) Surface loading rate: \_\_\_\_\_ gpd/sq ft
- 5) Monitoring location: \_\_\_\_\_
- 6) Vegetation: \_\_\_\_\_ N.A.
- i) Description: \_\_\_\_\_
- 7) Water level control: \_\_\_\_\_ N.A.
- i) Description: \_\_\_\_\_

g. Disinfection unit

- 1) Chlorine – tablet
  - i) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_
- 2) Chlorine – liquid
  - i) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_
- 3) Ultraviolet light
  - i) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_
- 4) Ozone
  - i) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_
- 5) Other: \_\_\_\_\_
- 6) Disinfection monitoring location: \_\_\_\_\_
- 7) Dechlorination
  - i) Type: \_\_\_\_\_
  - ii) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_
- 8) Dechlorination monitoring location: \_\_\_\_\_

System ref. #: \_\_\_\_\_

**4. Final treatment and dispersal**

a. Gravity distribution

- 1) Type:  Trench  Bed  ET bed



- ii) Distribution heads per zone: \_\_\_\_\_
  - a) Manufacturer: \_\_\_\_\_ Model(s): \_\_\_\_\_
  - b) Pattern(s): \_\_\_\_\_
- iii) In-line filtration:  None  Screen  Disk  Sand  
a) Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_
- iv) Total area of spray distribution fields: \_\_\_\_\_sq ft
- v) Gauging Device: \_\_\_\_\_

5) Surface discharge

- i) Permit number: \_\_\_\_\_
- ii) Permit requirements: \_\_\_\_\_
- iii) Location: \_\_\_\_\_
- iv) Monitoring location: \_\_\_\_\_



System ref. #: \_\_\_\_\_

**E. Sketch of system**

	Scale 1 in = _____ ft