

**TAILWATER RECOVERY**

**NRCS-NJ DATA SHEET**

Landowner: \_\_\_\_\_ Date: \_\_\_\_\_  
 County: \_\_\_\_\_ Twp: \_\_\_\_\_ Completed By: \_\_\_\_\_

**DETERMINE IRRIGATED AREA IN CATCHMENT AREA (Attach Aerial Photo)**

Area	Identifier (Hoop/Glass/ Field)	Crop	Qty	Width, ft	Length, ft	Spacing, ft

**BASIC IRRIGATION SYSTEM INFORMATION**

Sprinkler Output \_\_\_\_\_ gpm Qty: \_\_\_\_\_  
 Sprinkler Type or Mfr \_\_\_\_\_  
 Irrigation Run Time \_\_\_\_\_ hr/day  
 Water Supply  Well  Pond  Strm  Other  
 Pump Capacity \_\_\_\_\_ gpm psi \_\_\_\_\_  
 Existing Irrigation Main \_\_\_\_\_ Inch Type \_\_\_\_\_  
 Does supply meet water demand?  Yes  No  
 Volume of one irrigation set: \_\_\_\_\_ Gallons or cubic feet  
 Minimum Tailwater Volume: 80% of one irrig set \_\_\_\_\_ cu ft

**SITE SUITABILITY FOR TAILWATER PIT**

Conduct soil borings to confirm site conditions and to evaluate liner requirements

Soil Series \_\_\_\_\_ Borings? \_\_\_\_\_  
 Soil Type (typical) \_\_\_\_\_  
 Seasonal High Water Table \_\_\_\_\_ feet  
 Depth to Bedrock \_\_\_\_\_ feet  
 Suitability of Earthfill \_\_\_\_\_  
 Distance from TW pit to irrigation main \_\_\_\_\_ feet

**Agrichemicals in Runoff**

Fertilizers  Yes  No \_\_\_\_\_

Chemicals  Yes  No \_\_\_\_\_

**Tailwater Collection System(s)**

Surface Flow: Ditch, Lined WW  Yes  No \_\_\_\_\_

Subsurface: Surface Inlet, pipe UO  Yes  No \_\_\_\_\_

**Pre-Treatment**

Settling Basin  Yes  No \_\_\_\_\_

Constructed Wetland  Yes  No \_\_\_\_\_

**Post-Treatment**

Filtration  Yes  No \_\_\_\_\_ Screen, disk, sand

Disinfection  Yes  No \_\_\_\_\_ Gas Chlorination, UV,

Bio-Retention Basin  Yes  No \_\_\_\_\_

**Distribution System**

Pump (diesel or electric)  Yes  No \_\_\_\_\_

Irrigation Main  Yes  No \_\_\_\_\_

**Reapplication Area**

To greenhouses or hoopouses  Yes  No \_\_\_\_\_ Area:

To field container stock  Yes  No \_\_\_\_\_ Area:

To field crops  Yes  No \_\_\_\_\_ Area:

**Basin Discharge Area**

Wetland or sensitive area  Yes  No \_\_\_\_\_

Stream or Pond  Yes  No \_\_\_\_\_ Name:

Other:  Yes  No \_\_\_\_\_

**Stormwater Runoff**

(See FOTG Section III Quality Criteria for Water Quantity)

Imp Area > ¼ acre in Highlands?  Yes  No \_\_\_\_\_ If yes, rate and volume control required

**COMMON CONVERSIONS**

**TYPICAL PIPE SIZES**

- 1 PSI = 2.31 FEET
- 1 CFS = 450 GPM
- 1 CUBIC FOOT = 7.48 GALLONS
- 1 CUBIC FOOT = 62.4 POUNDS
- 1 ACRE-FT = 43560 CU FT
- 1 GALLON = 8.34 POUNDS

- Q < 200 GPM - 4" PVC MAIN
- Q < 450 GPM - 6" PVC MAIN
- Q < 750 GPM - 8" PVC MAIN