

## Irrigation Equipment or Towed Hose Applicator Calibration

### A. If flow Rate is Known:

- a. Estimate pumping time: \_\_\_\_\_ hours
- b. Estimate water flow rate: \_\_\_\_\_ gallons per minute
- c. Estimate acres covered: \_\_\_\_\_ acres
- d. Estimate application rate:

$$\text{Inches ( or acre-inch/acre) = } \frac{\text{Pumping Time X Flow Rate}}{\text{Acres X 450}} = \frac{\text{X}}{\text{X} \times 450} = \text{_____ in.}$$

### B. If Flow Rate is NOT Known:

- a. Identify Rated Pump Pressure and Flow Rate: \_\_\_\_\_ psi at \_\_\_\_\_ gpm
- b. Identify Actual Pump Pressure: \_\_\_\_\_ psi
- c. Estimate Actual Flow Rate:  

$$\text{GPM}_{\text{actual}} = \text{GPM}_{\text{rated}} \sqrt[4]{\frac{\text{P}_{\text{actual}}}{\text{P}_{\text{rated}}}} = \text{_____} / \text{_____} = \text{_____ gpm}$$

\* square root

- d. Substitute actual Flow Rate from c. into the Flow Rate space in d. of "A. If Flow Rate Is Known" and complete application rate.

### C. Optional Method for Pivot or other Sprinkler Irrigation Systems

- a. Place 4 to 6 rain gauges (pans or straight sided plastic cups will also work) in line with the pivot center point at roughly equally spaced intervals. Placement on access road away from crop canopy is preferred.
- b. Measure depth in rain gauges and calculate average.

Gauge #1: \_\_\_\_\_ in. #2: \_\_\_\_\_ in. #3: \_\_\_\_\_ in. #4: \_\_\_\_\_ in. #5: \_\_\_\_\_ in. #6: \_\_\_\_\_ in.

Average Depth: \_\_\_\_\_ in.

# Waste Storage Structure Sample Results

## Operation Responsibility

### Westridge Dairy

**Barn # 1**

**Barn 1**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 2**

**Barn 2**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 3**

**Barn 3**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 4**

**Barn 4**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

# Waste Storage Structure Sample Results

## Operation Responsibility

### Westridge Dairy

**Barn # 5**

**Barn 5**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 6**

**Barn 6**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 7**

**Barn 7**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 8**

**Barn 8**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

# Waste Storage Structure Sample Results

## Operation Responsibility

### Westridge Dairy

**Barn # 9      Barn 9**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 10      Barn 10**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 11      Barn 11**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 12      Barn 12**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

# Waste Storage Structure Sample Results

## Operation Responsibility

### Westridge Dairy

Barn # 13      Barn 13

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

Barn # 101      Basin 101

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

Barn # 102      Basin 102

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

Barn # 103      Basin 103

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

# Waste Storage Structure Sample Results

## Operation Responsibility

### Westridge Dairy

**Barn # 104    Holding Pond 104**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 105    Lagoon 105**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 106    Stacking Area 106**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

**Barn # 107    Stacking Area 107**

Date	Sample Taken By	Service Lab	Lab Number	Total Nitrogen	Ammonium Nitrogen	Total Phosphorus	Total Potassium	Unit of Measure

# Waste Application Recording Log - Liquid

Crop Year \_\_\_\_\_

Date	Field Identification	Acres Applied	Manure Source	App. (a) Method	Target App. Rate	Actual App. Rate	Soil Moisture	Air Temp.	Wind Direction	Wind Speed	Applicator

a.) Application Methods	
<b>B</b>	Broadcast w/o incorporation or incorporation >
<b>BI</b>	Broadcast, incorporated within 12 hours
<b>IN</b>	Injected
<b>IR</b>	Irrigated

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Crop Year \_\_\_\_\_

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a.) Application Methods	
B	Broadcast w/o incorporation or incorporation >
BI	Broadcast, incorporated within 12 hours
IN	Injected
IR	Irrigated

# Waste Application Recording Log - Solid

Spreader Make \_\_\_\_\_ Model \_\_\_\_\_ Cubic Feet Capacity \_\_\_\_\_

Date	Field Identification	Manure Source	Bedding Type	Target App. Rate	Acres Applied	Loads Applied	Soil Moisture	Air Temp.	Wind Dir.	Wind Speed	Applicator

