

## **WASTE APPLICATION**

Maintain a lagoon level that meets or exceeds regulations (20 inch minimum.)

### **PROCEDURES:**

- Check and record rainfall weekly. Record sheet is located in office on the wall.
- Monitor long-range weather forecast. (Watch local weather daily)
- Coordinate spray application with harvest. During harvest season, communicate with Bob Campbell @ 244-1047 to coordinate hay removal/spray application.
- Spray when conditions are right (refer to certification training for Operations of Animal Waste Management manual located on bookshelf in office- (chapter 5)
- Go to pump. Check oil, crank, prime, crank, lines fill up turn rpms to 1800-2000. Watch for clogs, proper turning of spray. If clogged or not turning, repair. The pump is operating at 14.2 gallons per/min. Calculations to how long/how much to pump is based on PAN and crop analysis. Refer to DWQ box in office for specifications. Turn to low speed. Let run for 5 mins., turn off.
- Coordinate planting of winter crops with Bob Campbell. 244-1047
- Monitor water delivery system for leaks daily. Visual inspection for leaks daily. If leaks are detected fix as required.
- Perform scheduled maintenance on the irrigation equipment. Change oil and pump every 100 hours. Record hours on filter when installing new filter. Grease pump approx. twice a year as per visual inspection. Change fuel filters on pump at every other oil change. Record date on filter. Change air filter annually. Record date on filter.
- Keep accurate irrigation records. Records are located in the DWQ box and on the main computer.
- Perform weekly inspection of lagoon marker. Weekly inspection is recorded on freeboard sheet located on wall in office. Replace lagoon marker if/when damaged as needed.

### **Consequences from departure:**

**Departure from this procedure once will require re-training, if departure more than once the employee will be relieved from their duties**

### **Possible fines, closure of farm**

**Surface water run-off- (affects on flora and fauna and fish)**

**Over application of nitrogen – (leach to groundwater, ditches, streams, waterways, encouraging excess algae growth, which can cause oxygen depletion, and fish kills) also may get into wells.**

**Excess lagoon water applied to crop land depletes oxygen in the soil, which in turn causes root decay. This problem can cause reduced growth/yields or depending upon severity death of the crop.**

### **MORTALITY**

Dispose of mortality within 24 hours.

### **PROCEDURES:**

Remove deceased from pens. Small, newborn to 12 pound, pigs and afterbirth are placed in 5 gallon buckets and placed in freezer.

When freezer is full, place containers in truck and deliver to McLawhorne.

Sows over 12 pounds that are dead are removed from building, placed in trailer, and delivered to McLawhorne on a daily/as needed basis.

### **Consequences from departure:**

**Departure from this procedure once will require re-training, if departure more than once the employee will be relieved from their duties**

**Accumulation of dead carcass can lead to disease and water quality problems along with odor.**

### **SLUDGE REMOVAL**

Sludge removal will be performed by a contractor. No on-farm procedures.

### **CATASTROPHIC LOSSES**

Catastrophic loss procedures will be determined by NRCS. Cowan farms will document procedures to be followed on the farm, when determination is made.

Prior to the new procedures, the State Vets office and local NRCS office will provide guidance in the event of catastrophic loss. Contact numbers: NRCS 637-2547 extension 3. State Vets 252-756-4961.

### **Consequences from departure:**

**Departure from this procedure once will require re-training, if departure more than once the employee will be relieved from their duties.**

**Accumulation of dead carcass can lead to disease and water quality problems along with odor. assistance (state or federal) will require proper disposal.**

## **BERM AND BANK MANAGEMENT**

Visually inspect bank and berm daily. Perform weekly inspection **verification by recording information on weekly bank inspection sheet located in office.**

Bank maintenance is performed as specified in the Certification Training Manual, page 17 (Lagoon Maintenance), located in the office on the bookshelf.

Perform embankment management as specified on page 18 in prior mentioned manual.

### **Consequences from departure:**

**Departure from this procedure once will require re-training, if departure more than once the employee will be relieved from their duties.**

**A breach in the embankment will result in fines, impact water quality, surface water run-off- (affects on flora and fauna and fish).**

## **FEED BIN**

Follow visual inspection as specified on bin inspection record. Follow best management practice as documented in Insect Control Checklist for Animal Operations located in the DWQ box.

### **Consequences from departure:**

**Departure from this procedure once will require re-training, if departure more than once the employee will be relieved from their duties.**

**Spilled feed will result in excess birds, insects, rodents, and odor in the houses.**

**Disease may spread due to the rodents, insects and birds.**