

# **PROJECT DATA SUPPLEMENT**

## **CASE STUDY 6.1**

### **SAND CHANNELS**

CONTIGUOUS TO

### **MANURE STORAGE LAGOON**

### **(MANITOWOC COUNTY)**

## **FINAL REPORT**

ON

## **WISCONSIN'S DAIRY AND LIVESTOCK**

## **ODOR AND AIR EMISSION PROJECT**

DECEMBER 2008

WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

WISCONSIN AGRICULTURAL STEWARDSHIP INITIATIVE

MADISON, WISCONSIN

# Ambient Air Concentrations

Daytime Levels - Sand Separation Channel

Manitowoc County

October 15, 2007

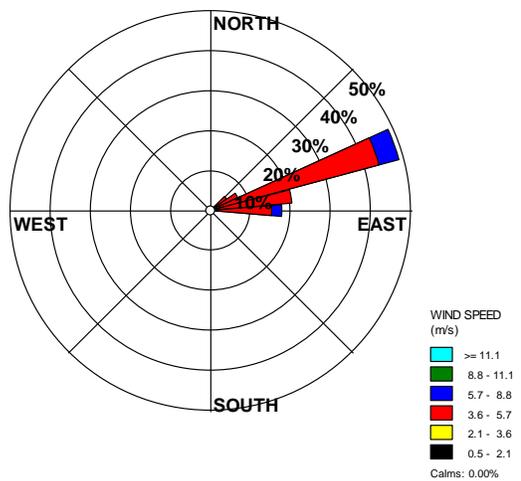
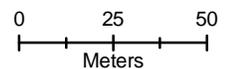


## Field Sampling Measurements (Micrograms per Cubic Meter)

Location	NH3	H2S
28	ND	ND
29	887	5118

Note: ND = Non-Detect (detection limits vary with conditions)

- Ammonia
- Hydrogen Sulfide
- 10 Location Number



# Ambient Air Concentrations

Nighttime Levels - Sand Separation Channel

Manitowoc County

October 15-16, 2007

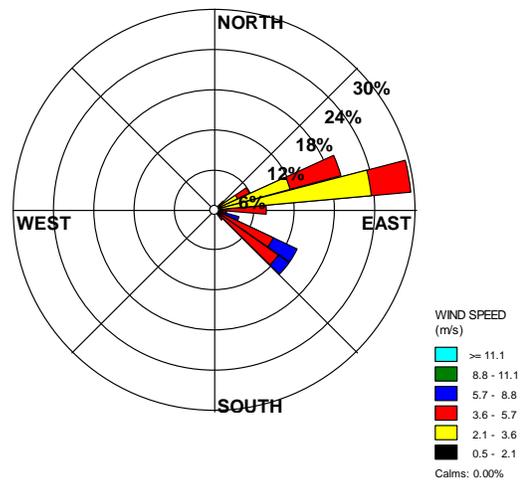
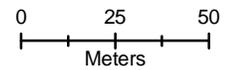


## Field Sampling Measurements (Micrograms per Cubic Meter)

Location	NH3	H2S
28	64	22
29	732	6614

Note: ND = Non-Detect (detection limits vary with conditions)

- Ammonia
- Hydrogen Sulfide
- 10 Location Number



# Ambient Air Concentrations

Daytime Levels - Sand Separation Channel

Manitowoc County

May 5, 2008

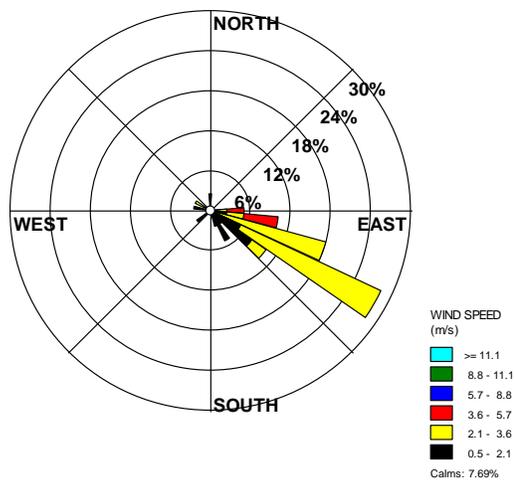
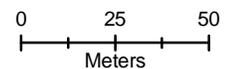


## Field Sampling Measurements (Micrograms per Cubic Meter)

Location	NH3	H2S
28	316	472
29	1002	18838
30	362	364
31	444	380

Note: ND = Non-Detect (detection limits vary with conditions)

- Ammonia
- Hydrogen Sulfide
- 10 Location Number



# Ambient Air Concentrations

Nighttime Levels - Sand Separation Channel

Manitowoc County

May 5-6, 2008



### Field Sampling Measurements (Micrograms per Cubic Meter)

Location	NH3	H2S
28	576	3881
29	517	18182
30	430	2335
31	310	720

Note: ND = Non-Detect (detection limits vary with conditions)

- Ammonia
- Hydrogen Sulfide
- 10 Location Number

