

# **PROJECT DATA SUPPLEMENT**

## **CASE STUDY 5**

### **ANIMAL FEEDLOT (CLARK COUNTY)**

#### **FINAL REPORT**

ON

#### **WISCONSIN'S DAIRY AND LIVESTOCK ODOR AND AIR EMISSION PROJECT**

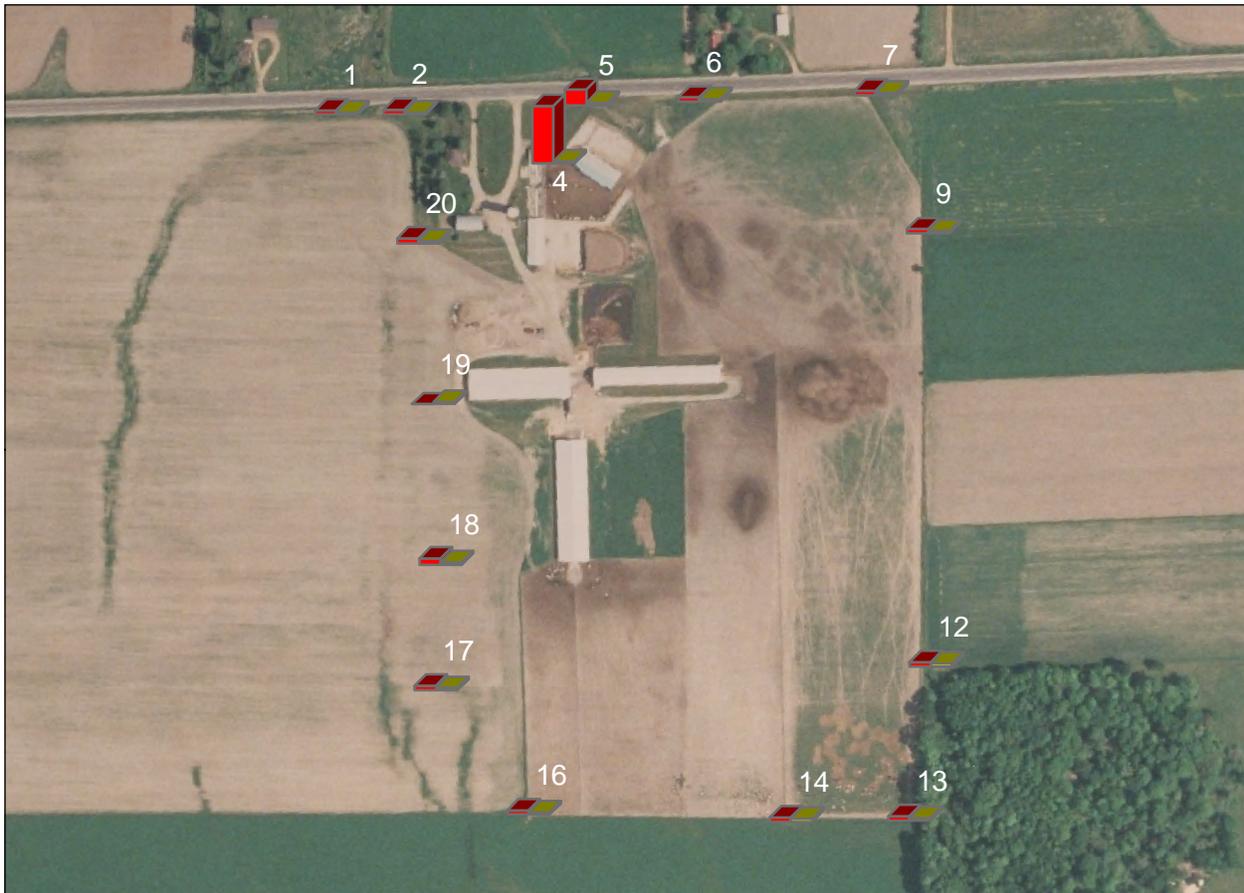
DECEMBER 2008

WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION  
WISCONSIN DEPARTMENT OF NATURAL RESOURCES  
WISCONSIN AGRICULTURAL STEWARDSHIP INITIATIVE

MADISON, WISCONSIN

**Ambient Air Concentrations**  
Daytime Levels

**Clark County**  
May 21, 2007

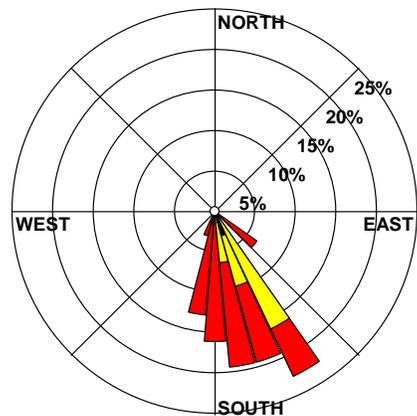
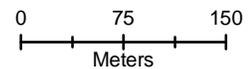


**Field Sampling Measurements**  
(Micrograms per Cubic Meter)

Location	NH3	H2S
1	ND	ND
2	43	ND
4	532	ND
5	143	ND
6	39	ND
7	ND	ND
9	ND	ND
12	ND	ND
13	ND	ND
14	ND	ND
16	ND	ND
17	ND	ND
18	58	ND
19		ND
20	50	ND

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

- Ammonia
- Hydrogen Sulfide
- 10 Location Number



- WIND SPEED (m/s)**
- >= 11.1
  - 8.8 - 11.1
  - 5.7 - 8.8
  - 3.6 - 5.7
  - 2.1 - 3.6
  - 0.5 - 2.1
- Calms: 0.00%

**Ambient Air Concentrations**  
Nighttime Levels

**Clark County**  
May 21-22, 2007

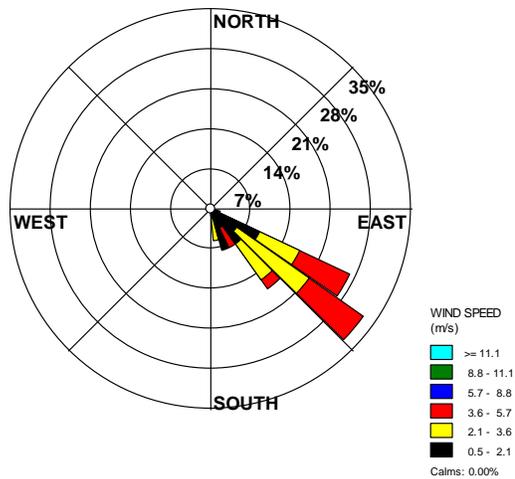
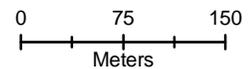


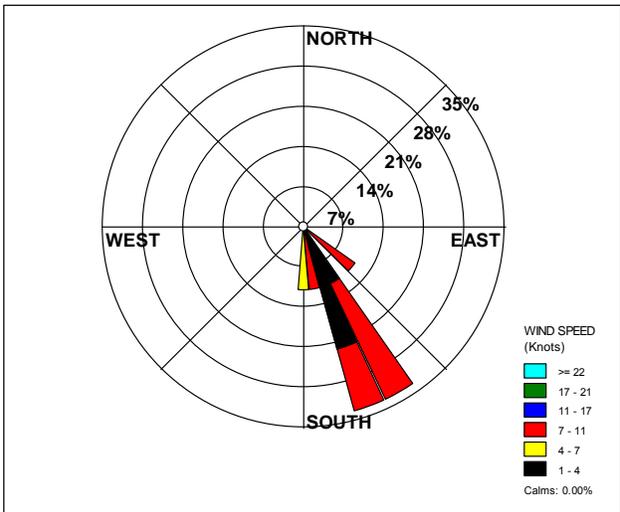
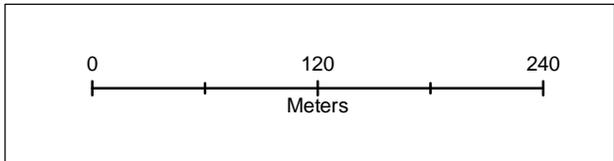
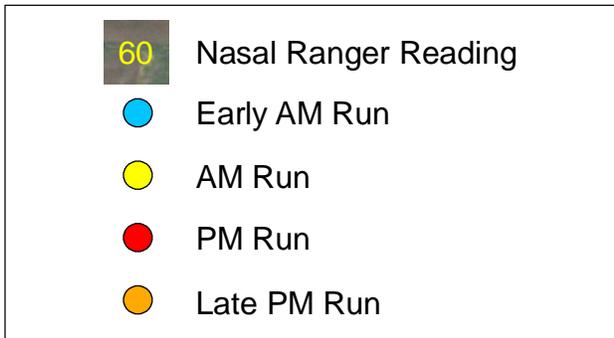
**Field Sampling Measurements**  
(Micrograms per Cubic Meter)

Location	NH3	H2S
1	38	ND
2	44	ND
3	98	ND
4	240	ND
5	26	ND
6	ND	ND
7	ND	ND
9	ND	33
11	ND	ND
14	ND	ND
16	ND	ND
17	ND	ND
18	54	ND
19	209	ND
20	54	ND

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

- Ammonia
- Hydrogen Sulfide
- 10 Location Number





**Ambient Air Concentrations**  
Daytime Levels

**Clark County**  
July 17, 2007

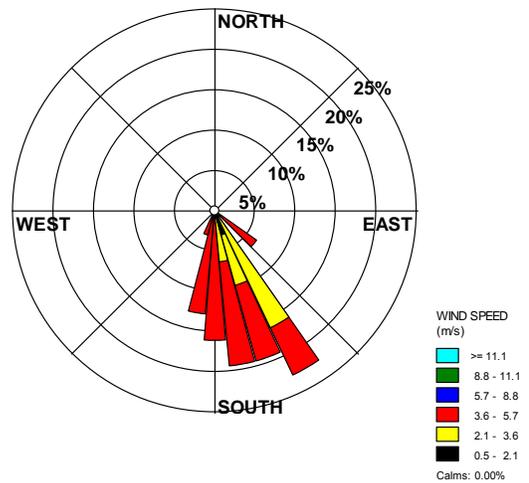
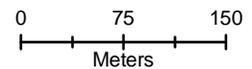


**Field Sampling Measurements**  
(Micrograms per Cubic Meter)

Location	NH3	H2S
2	ND	ND
3	96	ND
4	130	ND
6	37	ND
8	11	
10	13	
12	ND	
15	ND	ND
17	ND	ND
18	ND	ND
19	ND	ND
20	18	ND
21	131	ND

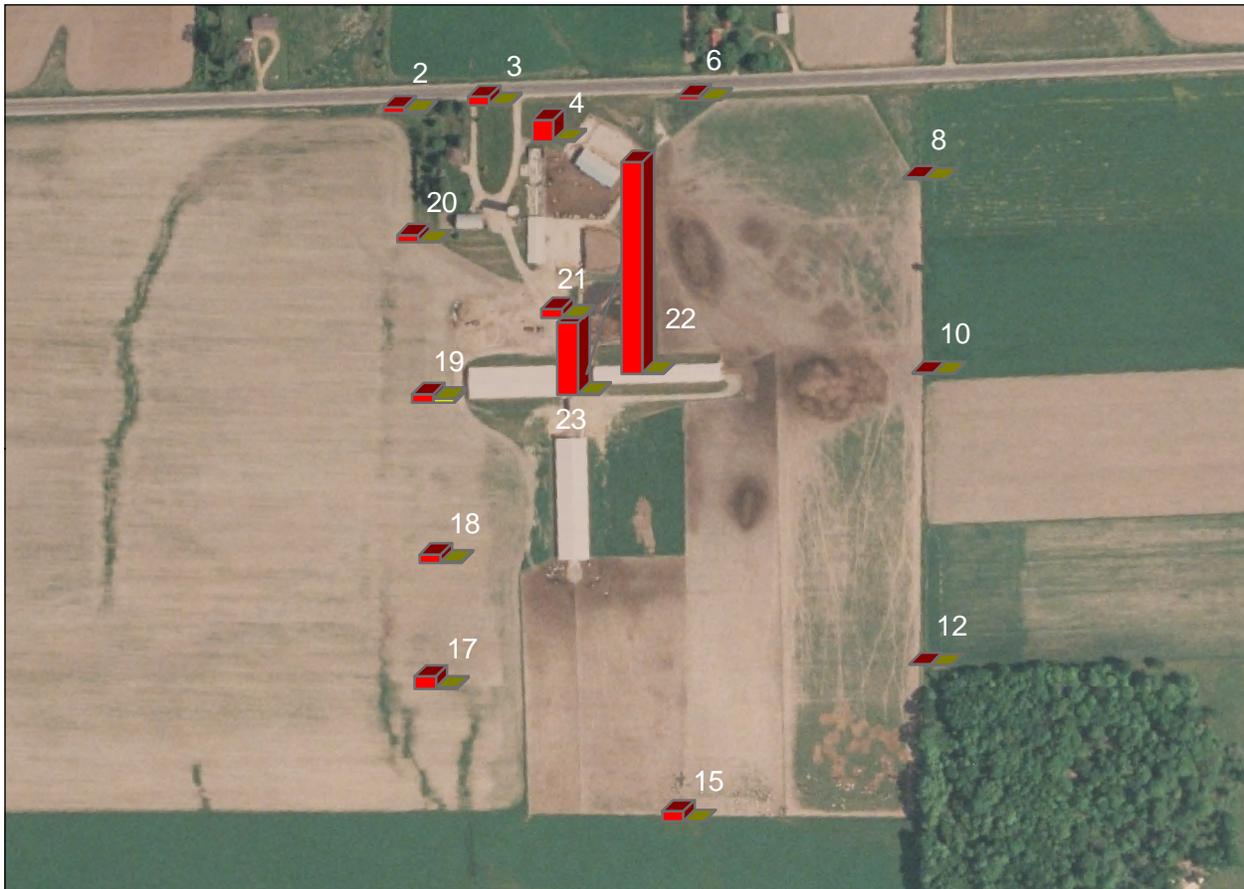
Note: ND = Non-Detect (detection limits vary with conditions)

- Ammonia
- Hydrogen Sulfide
- 10 Location Number



**Ambient Air Concentrations**  
Nighttime Levels

**Clark County**  
July 17-18, 2007

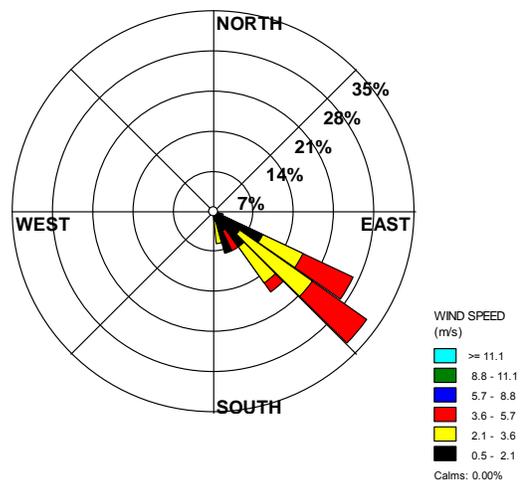
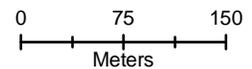


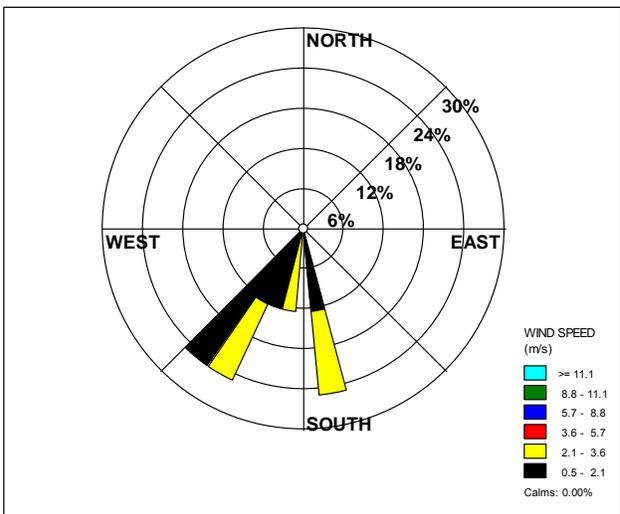
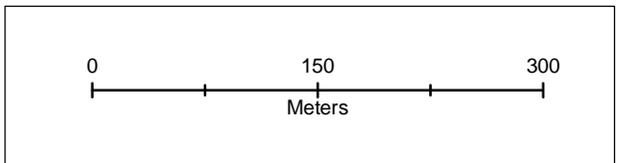
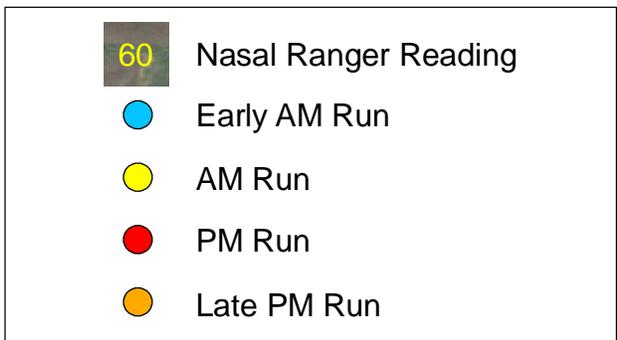
**Field Sampling Measurements**  
(Micrograms per Cubic Meter)

Location	NH3	H2S
2	53	ND
3	83	ND
4	203	ND
6	39	ND
8	19	
10	13	ND
12	10	
15	93	
17	115	ND
18	78	ND
19	78	36
20	61	ND
21	86	ND
22	1966	ND
23	672	ND

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

■ Ammonia  
■ Hydrogen Sulfide  
10 Location Number





**Ambient Air Concentrations**  
Daytime Levels

**Clark County**  
September 10, 2007

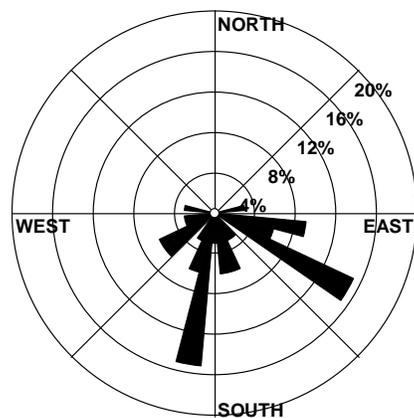
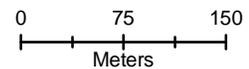


**Field Sampling Measurements**  
(Micrograms per Cubic Meter)

Location	NH3	H2S
2	13	
3	36	ND
4	325	ND
8		ND
11	ND	
16	ND	ND
17	ND	
18	62	ND
19	74	ND

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

- Ammonia
- Hydrogen Sulfide
- 10 Location Number



- WIND SPEED (m/s)
- >= 11.1
  - 8.8 - 11.1
  - 5.7 - 8.8
  - 2.1 - 3.6
  - 0.5 - 2.1
- Calms: 0.00%

**Ambient Air Concentrations**  
Nighttime Levels

**Clark County**  
September 10-11, 2007

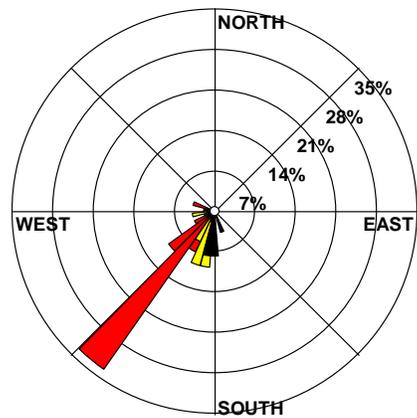
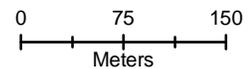


**Field Sampling Measurements**  
(Micrograms per Cubic Meter)

Location	NH3	H2S
2	ND	
3	ND	ND
4	221	ND
6	49	
9	17	ND
11	34	
14	ND	
16	ND	
17		ND
18	23	
19	ND	ND
20	ND	

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

- Ammonia
- Hydrogen Sulfide
- 10 Location Number



- WIND SPEED (m/s)
- >= 11.1
  - 8.8 - 11.1
  - 5.7 - 8.8
  - 3.6 - 5.7
  - 2.1 - 3.6
  - 0.5 - 2.1
- Calms: 0.00%

