

# VISIBLE EMISSIONS EVALUATION

COMPANY <b>AERcon</b>	
UNIT <b>Anhydrite Storage Silo</b>	
ADDRESS <b>3701 C.R. 544 East</b>	
<b>Haines city, FL</b>	
PERMIT NO. <b>1050276-008-AD</b>	COMPLIANCE YES - NO - <b>X</b>
AIRS NO. <b>1050276</b>	EU NO. <b>004</b>
PROCESS RATE <b>~ 25 tph</b>	PERMITTED RATE <b>25 Tph</b>
PROCESS EQUIPMENT <b>Silo loading</b>	
CONTROL EQUIPMENT <b>Baghouse</b>	
OPERATING MODE	AMBIENT TEMP (BF) START <b>75°</b> STOP <b>Same</b>
HEIGHT ABOVE GROUND LEVEL START <b>~ 35 ft</b> STOP <b>~ 35 ft</b>	HEIGHT RELATIVE TO OBSERVER START <b>~ 30 ft</b> STOP <b>~ 30 ft</b>
DISTANCE FROM OBSERVER START <b>~ 100 ft</b> STOP	DIRECTION FROM OBSERVER START <b>90°</b> STOP
EMISSION COLOR <b>White</b>	PLUME TYPE CONTIN. - INTERMITTENT <b>X</b>
WATER DROPLETS PRESENT? NO - <b>X</b> YES -	IS WATER DROPLET PLUME ATTACHED - DETACHED -
POINT IN PLUME AT WHICH OPACITY WAS DETERMINED START <b>6 ft from Baghouse vent</b> STOP <b>Same</b>	
DESCRIBE BACKGROUND START <b>Blue sky</b> STOP <b>Blue sky</b>	
BACKGROUND COLOR START <b>Blue</b> STOP <b>Blue</b>	SKY CONDITIONS START <b>Clear</b> STOP <b>Clear</b>
WIND SPEED (MPH) START <b>~ 2-8</b> STOP <b>7-8</b>	WIND DIRECTION START <b>S</b> STOP <b>S</b>
AVERAGE OPACITY FOR HIGHEST PERIOD <b>6.45%</b>	RANGE OF OPACITY READINGS MIN. <b>0</b> MAX. <b>10</b>
SOURCE LAYOUT SKETCH <div style="text-align: center;"> <p style="font-size: small;">Draw North Arrow</p> </div>	
COMMENTS <b>Loading was stopped around 9:20 to check baghouse on advise of Consultant Southern Environmental.</b>	

OBSERVATION DATE		START TIME				STOP TIME				
04/20/2011		9:07				9:19				
SEC.					SEC.					
	MIN	0	15	30		45	MIN	1	15	30
0	10	5	5	5	30					
1	5	5	0	5	31					
2	5	5	5	10	32					
3	5	5	0	0	33					
4	0	5	5	5	34					
5	5	10	10	5	35					
6	5	5	10	0	36					
7	0	5	5	5	37					
8	5	5	5	5	38					
9	5	10	10	5	39					
10	5	10	10	10	40					
11	10	5	5	5	41					
12	5	5	5	5	42					
13					43					
14					44					
15					45					
16					46					
17					47					
18					48					
19					49					
20					50					
21					51					
22					52					
23					53					
24					54					
25					55					
26					56					
27					57					
28					58					
29					59					

Observers Signature: *Steve Sherman*

Date: **04/21/2011**

Observers Organization: Florida Department of Environmental Protection

Observer Name and Certified By:

## EASTERN TECHNICAL ASSOCIATES

### STEVEN SHERMAN

**SHE710883** STUDENT ID NUMBER

meets the specifications of Federal Reference Method 9 and qualifies as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, NC. This certificate is valid for six months from date of issue and expires on the date below.

TAMPA, FL	2/9/2011	391742
SCHOOL LOCATION	DATE OF SCHOOL	CERT NUMBER
TMPS11	8/11/2011	
LAST LECTURE	CERTIFICATION EXP DATE	BEARER

# VISIBLE EMISSIONS EVALUATION

COMPANY <b>AERCON</b>	
UNIT <b>EU 005 Boring Area</b>	
ADDRESS <b>3701 C.R. 544 East Haines City, FL</b>	
PERMIT NO. <b>1050276-008-AD</b>	COMPLIANCE YES - <b>X</b> NO -
AIRS NO. <b>1050276</b>	EU NO. <b>005</b>
PROCESS RATE <b>Normal Boring</b>	PERMITTED RATE <b>-</b>
PROCESS EQUIPMENT <b>Boring</b>	
CONTROL EQUIPMENT <b>Baghouse</b>	
OPERATING MODE <b>Normal</b>	AMBIENT TEMP (BF) START <b>~85</b> STOP <b>~85</b>
HEIGHT ABOVE GROUND LEVEL START <b>~26 ft</b> STOP <b>~26 ft</b>	HEIGHT RELATIVE TO OBSERVER START <b>~2 ft</b> STOP <b>~2 ft</b>
DISTANCE FROM OBSERVER START <b>~10 ft</b> STOP <b>~10 ft</b>	DIRECTION FROM OBSERVER START <b>280°</b> STOP <b>280°</b>
EMISSION COLOR	PLUME TYPE CONTIN. - INTERMITTENT -
WATER DROPLETS PRESENT? NO - <b>X</b> YES -	IS WATER DROPLET PLUME ATTACHED - DETACHED -
POINT IN PLUME AT WHICH OPACITY WAS DETERMINED START STOP	
DESCRIBE BACKGROUND START <b>gray roof panels</b> STOP <b>gray roof panels</b>	
BACKGROUND COLOR START <b>gray</b> STOP <b>gray</b>	SKY CONDITIONS START <b>clear</b> STOP <b>clear</b>
WIND SPEED (MPH) START <b>2-8 mph</b> STOP <b>2-8 mph</b>	WIND DIRECTION START <b>SW</b> STOP <b>SW</b>
AVERAGE OPACITY FOR HIGHEST PERIOD <b>0%</b>	RANGE OF OPACITY READINGS MIN. <b>0%</b> MAX. <b>0%</b>
SOURCE LAYOUT SKETCH <small>Draw North Arrow</small>	
COMMENTS <b>normal Boring operations were performed</b>	

OBSERVATION DATE		START TIME				STOP TIME				
04/20/2011		11:53				12:23				
SEC					SEC					
	MIN	0	15	30		45	MIN	1	15	30
0	0	0	0	0	30					
1	0	0	0	0	31					
2	0	0	0	0	32					
3	0	0	0	0	33					
4	0	0	0	0	34					
5	0	0	0	0	35					
6	0	0	0	0	36					
7	0	0	0	0	37					
8	0	0	0	0	38					
9	0	0	0	0	39					
10	0	0	0	0	40					
11	0	0	0	0	41					
12	0	0	0	0	42					
13	0	0	0	0	43					
14	0	0	0	0	44					
15	0	0	0	0	45					
16	0	0	0	0	46					
17	0	0	0	0	47					
18	0	0	0	0	48					
19	0	0	0	0	49					
20	0	0	0	0	50					
21	0	0	0	0	51					
22	0	0	0	0	52					
23	0	0	0	0	53					
24	0	0	0	0	54					
25	0	0	0	0	55					
26	0	0	0	0	56					
27	0	0	0	0	57					
28	0	0	0	0	58					
29	0	0	0	0	59					

Observers Signature: *Steven Sherman*

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