

# VISIBLE EMISSIONS EVALUATION

COMPANY <i>Chemical Lime</i>	
UNIT	
ADDRESS <i>10245 Cement Plant Road Brooksville, FL 34601</i>	
PERMIT NO. <i>0530364-004-AF</i>	COMPLIANCE YES - <input checked="" type="checkbox"/> NO -
AIRS NO. <i>0530364</i>	EU NO. <i>003</i>
PROCESS RATE <i>~7 tons</i>	PERMITTED RATE <i>7 tons</i>
PROCESS EQUIPMENT <i>Bagging operations</i>	
CONTROL EQUIPMENT <i>Baghouse</i>	
OPERATING MODE	AMBIENT TEMP (BF) START <i>~85</i> STOP
HEIGHT ABOVE GROUND LEVEL START <i>~25ft</i> STOP <i>~25ft</i>	HEIGHT RELATIVE TO OBSERVER START <i>0ft</i> STOP <i>0ft</i>
DISTANCE FROM OBSERVER START <i>~15ft</i> STOP <i>~15ft</i>	DIRECTION FROM OBSERVER START <i>335°</i> STOP <i>335°</i>
EMISSION COLOR	PLUME TYPE CONTIN. - INTERMITTENT -
WATER DROPLETS PRESENT? NO - <input checked="" type="checkbox"/> YES -	IS WATER DROPLET PLUME ATTACHED - DETACHED -
POINT IN PLUME AT WHICH OPACITY WAS DETERMINED START - STOP -	
DESCRIBE BACKGROUND START <i>white tank</i> STOP <i>white tank</i>	
BACKGROUND COLOR START <i>white</i> STOP <i>white</i>	SKY CONDITIONS START <i>clear</i> STOP <i>clear</i>
WIND SPEED (MPH) START <i>2-4</i> STOP <i>2-4</i>	WIND DIRECTION START <i>sw</i> STOP <i>sw</i>
AVERAGE OPACITY FOR HIGHEST PERIOD <i>0%</i>	RANGE OF OPACITY READINGS MIN. <i>0%</i> MAX. <i>0%</i>
SOURCE LAYOUT SKETCH <div style="text-align: right; font-size: small;">Draw North Arrow</div> <p>The sketch shows an 'Observer's Position' at the bottom center. A vertical line goes up to an 'Emission Point'. A dashed line labeled 'Sun Location Line' goes down and to the right at a 140-degree angle from the vertical. A horizontal arrow labeled 'Sun' and 'Wind' points to the right. A curved arrow labeled 'Plume and Stack' points to the right from the emission point. A north arrow symbol is in the top right corner.</p>	
COMMENTS <i>~3.3 tons in 30 min</i>	

OBSERVATION DATE		START TIME				STOP TIME			
<i>05/11/2011</i>		<i>9:38</i>				<i>10:08</i>			
SEC	0	15	30	45	SEC	1	15	30	45
MIN					MIN				
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: *Stu In*

Date: *05/11/2011*

Observers Organization: Florida Department of Environmental Protection

Observer Name and Certified By:

## EASTERN TECHNICAL ASSOCIATES

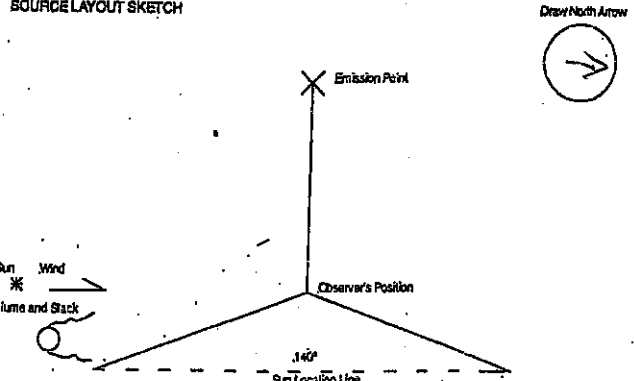
**STEVEN SHERMAN**

SHE710883 STUDENT ID NUMBER

met 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>Chemical Lime</b>	
UNIT	
ADDRESS <b>1045 Cement Plant Road Brooksville, Florida 34601</b>	
PERMIT NO. <b>0530364-004-AF</b>	COMPLIANCE YES - <b>X</b> NO -
AIRS NO. <b>0530364</b>	EU NO. <b>001</b>
PROCESS RATE <b>~46 tph</b>	PERMITTED RATE <b>50 tph</b>
PROCESS EQUIPMENT <b>Silo loading from truck</b>	
CONTROL EQUIPMENT <b>Baghouse</b>	
OPERATING MODE	AMBIENT TEMP (BF) START <b>78</b> STOP
HEIGHT ABOVE GROUND LEVEL START <b>~100 ft</b> STOP	HEIGHT RELATIVE TO OBSERVER START <b>~60 ft</b> STOP
DISTANCE FROM OBSERVER START <b>~200 ft</b> STOP	DIRECTION FROM OBSERVER START <b>~260</b> STOP
EMISSION COLOR <b>-</b>	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>Clear sky</b> STOP <b>Same</b>	
BACKGROUND COLOR START <b>Blue</b> STOP <b>Same</b>	SKY CONDITIONS START <b>Clear</b> STOP <b>Clear</b>
WIND SPEED (MPH) START <b>2-4</b> STOP <b>Same</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 <div style="text-align: right; font-size: small;">Draw North Arrow</div> 	
COMMENTS <b>23.3 tons combined / 30 min</b>	
<b>~46 tons/hr</b>	

OBSERVATION DATE		START TIME				STOP TIME				
05/11/11		10:26				10:56				
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: *Steve Sherman*

Date: **05/11/2011**

Observers Organization: Florida Department of Environmental Protection

Observer Name and Certified By:

## EASTERN TECHNICAL ASSOCIATES

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PERMIT NO. <i>0530364-004-AF</i>	COMPLIANCE YES - <input checked="" type="checkbox"/> NO -
AIRS NO. <i>0530364</i>	EU NO. <i>002</i>
PROCESS RATE <i>~9 tph</i>	PERMITTED RATE <i>9 tph</i>
PROCESS EQUIPMENT <i>hydrator</i>	
CONTROL EQUIPMENT <i>wet scrubber</i>	
OPERATING MODE <i>1.5 in H<sub>2</sub>O</i>	AMBIENT TEMP (BF) START <i>~90°</i> STOP <i>~90°</i>
HEIGHT ABOVE GROUND LEVEL START <i>~85</i> STOP <i>~85</i>	HEIGHT RELATIVE TO OBSERVER START <i>~80 ft</i> STOP <i>~80 ft</i>
DISTANCE FROM OBSERVER START <i>~150 ft</i> STOP <i>~150 ft</i>	DIRECTION FROM OBSERVER START <i>312°</i> STOP <i>312°</i>
EMISSION COLOR <i>white</i>	PLUME TYPE CONTIN. - <input checked="" type="checkbox"/> INTERMITTENT -
WATER DROPLETS PRESENT? NO - YES - <input checked="" type="checkbox"/>	IS WATER DROPLET PLUME ATTACHED - <input checked="" type="checkbox"/> DETACHED -
POINT IN PLUME AT WHICH OPACITY WAS DETERMINED START <i>10 ft from stack exit</i> STOP <i>10 ft from stack exit</i>	
DESCRIBE BACKGROUND START <i>Clear Sky</i> STOP <i>Clear Sky</i>	
BACKGROUND COLOR START <i>Blue</i> STOP <i>Blue</i>	SKY CONDITIONS START <i>Clear</i> STOP <i>Clear</i>
WIND SPEED (MPH) START <i>3-5 mph</i> STOP <i>Same</i>	WIND DIRECTION START <i>SW</i> STOP <i>SW</i>
AVERAGE OPACITY FOR HIGHEST PERIOD <i>10.4%</i>	RANGE OF OPACITY READINGS MIN. <i>5%</i> MAX. <i>15%</i>
SOURCE LAYOUT SKETCH <i>Draw North Arrow</i>	
COMMENTS <i>Test momentarily stopped to empty hydrator</i>	

OBSERVATION DATE		START TIME				STOP TIME				
<i>05/11/2011</i>		<i>11:28</i>				<i>12:02</i>				
SEC					SEC					
	MIN	0	15	30		45	MIN	1	15	30
0	15	5	5	5	30					
1	10	5	5	10	31					
2	5	5	5	5	32					
3	10	10	5	5	33					
4	5	5	10	5	34					
5	5	10	10	5	35					
6	5	5	5	5	36					
7	5	5	10	5	37					
8	5	5	5	5	38					
9	10	5	5	5	39					
10	5	10	5	10	40					
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12	5	10	15	5	42					
13	5	10	15	10	43					
14	5	10	10	5	44					
15	10	5	10	10	45					
16	10	5	10	5	46					
17	5	5	5	10	47					
18	10	10	10	5	48					
19	10	5	10	10	49					
20	15	15	5	10	50					
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