

SOURCE TEST REPORT

VISIBLE EMISSIONS

FROM

**MULLINIKS CONSTRUCTION COMPANY
5937 SOUDEL DRIVE
JACKSONVILLE, FLORIDA 32219**

PORTABLE CONCRETE & ASPHALT CRUSHING PLANT

**LOCATED AT
ORLANDO PAVING PLANT NUMBER 2
8501 FLORIDA ROCK ROAD
ORLANDO, FLORIDA 32824**

**FDEP PERMIT NUMBER
7775037-003-AO**

FEBRUARY 24, 2000

PREPARED FOR

**DARABI AND ASSOCIATES
730 NE WALDO ROAD SUITE A
GAINESVILLE, FLORIDA 32641**

PREPARED BY

**ASTECH ENVIRONMENTAL SERVICES
13170-58 ATLANTIC BLVD. SUITE 131
JACKSONVILLE, FLORIDA 32225
(904) 221-7174**



DONNIE L. LEEPER

ASTECH ENVIRONMENTAL SERVICES

13170-58 ATLANTIC BOULEVARD SUITE 131
JACKSONVILLE, FLORIDA 32225

Phone 904 221-7174
Fax (904) 221-7174

February 18, 2000

Ms. Marie Driscoll
Orange County Environmental Protection Division
800 Mercy Drive
Orlando, Florida 32808

Re: 7775037-003-AO

Dear Ms. Driscoll,

This letter is to confirm the telephone conversation between Frank Darabi and yourself concerning Mulliniks Construction Company.

Astech Environmental Services will be at the plant on Thursday February 24, 2000 at 10:00 A.M. to begin visible emissions testing on the Portable Concrete & Asphalt Crusher.

The plant is located at Orlando Paving Co.'s Lanstreet Road facility. If you should need any directions or have any questions please call me at (904) 237-1052.

Sincerely,



Donnie Leeper

VISIBLE EMISSION OBSERVATION FORM 1

Method (Check One)
 Method A 203A 203B Other: _____

Company Name
 mulliniks construction co.
 Facility Name
 located at Orlandoaving #2
 Street Address
 8501 Florida Rock Road
 City Orlando State FL Zip 32824

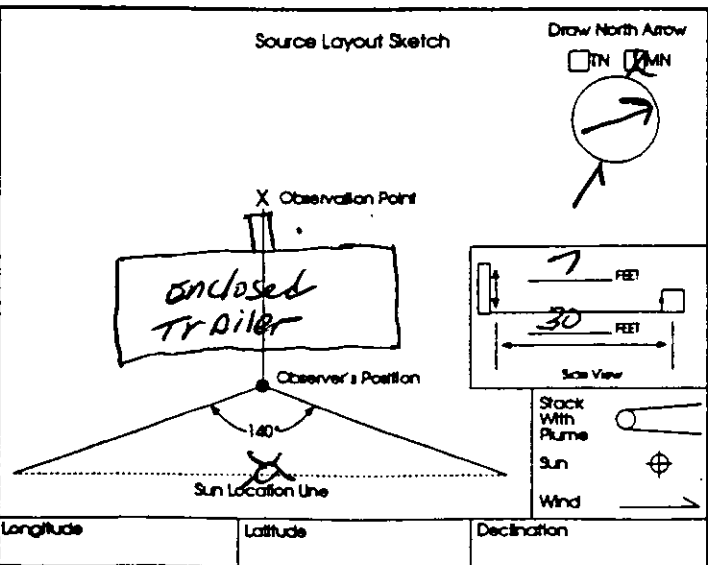
Process Diesel Generator Unit # 1 Operating Mode 12 GPH
 Control Equipment N/A Operating Mode N/A

Describe Emission Point
 4" circular exhaust
 Pipe coming from foot of trailer
 Height of Emis. Pt. Start 12' End Same
 Height of Emis. Pt. Rel. to Observer Start 7' End Same
 Distance to Emis. Pt. Start 30' End Same
 Direction to Emis. Pt. (Degrees) Start 265° End Same

Vertical Angle to Obs. Pt. Start 2° End Same
 Direction to Obs. Pt. (Degrees) Start 265° End Same
 Distance and Direction to Observation Point from Emission Point
 Start See Above DATA End Same

Describe Emissions
 Start coning plume End Same
 Emission Color Start black End Same
 Water Droplet Plume Attached Detached None

Describe Plume Background
 Start sky End Same
 Background Color Start blue End Same
 Sky Conditions Start partly cloudy End Same
 Wind Speed Start 3-5 End Same
 Wind Direction Start SE End Same
 Ambient Temp. Wet Bulb Temp. RH Percent



Additional Information

Form Number _____ Page 1 of 1
 Continued on VEO Form Number _____

Observation Date	Time Zone	Start Time	End Time				
2-24-00	EST	1130	1200				
Sec	0	15	30	45	Comments		
Min							
1	5	5	5	5			
2	5	5	5	5			
3	5	5	5	5			
4	5	5	5	5			
5	5	5	5	5			
6	5	5	5	5			
7	5	5	5	5			
8	5	5	5	5			
9	5	5	5	5			
10	5	5	5	5			
11	5	5	5	5			
12	5	5	5	5			
13	5	5	5	5			
14	5	5	5	5			
15	5	5	5	5			
16	5	5	5	5			
17	5	5	5	5			
18	5	5	5	5			
19	5	5	5	5			
20	5	5	5	5			
21	5	5	5	5			
22	5	5	5	5			
23	5	5	5	5			
24	5	5	5	5			
25	5	5	5	5			
26	5	5	5	5			
27	5	5	5	5			
28	5	5	5	5			
29	5	5	5	5			
30	5	5	5	5			

Observer's Name (Print)
 Janie Leeper
 Observer's Signature
 Janie Leeper Date 2-24-00
 Organization
 Astech Environmental Services
 Certified by
 E.T.A. Date 12-8-99

VISIBLE EMISSION OBSERVATION FORM 1

Form Number Page of
 Continued on VEO Form Number

Method Used (Circle One) Method 9 203A 2038 Other: _____

Company Name Mulliniks Construction Co.
 Facility Name located at Orlandoaving #2
 Street Address 8501 Florida Rock Road
 City Orlando State FL Zip 32827

Process Primary Screens Unit # _____ Operating Mode 190 TPH
 Control Equipment Water Spray Operating Mode As needed

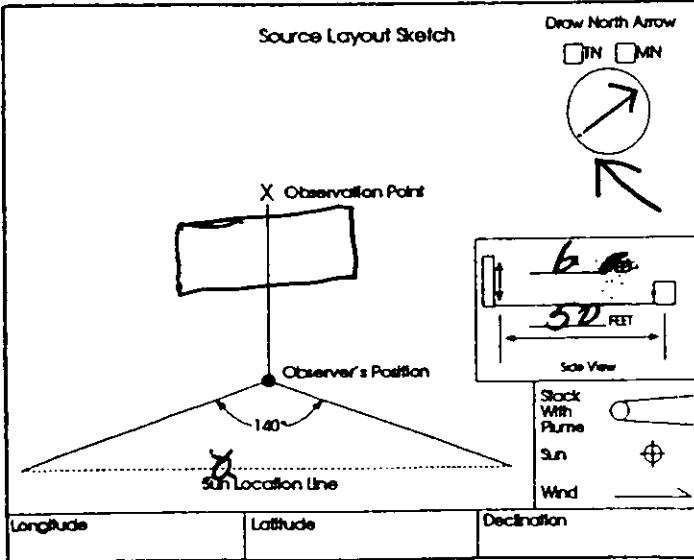
Describe Emission Point
~ 4' x 12' bin Around Screener

Height of Emiss. Pt. Start 12' End Same Height of Emiss. Pt. Rel. to Observer Start 6' End Same
 Distance to Emiss. Pt. Start 50' End Same Direction to Emiss. Pt. (Degrees) Start 79° End Same

Vertical Angle to Obs. Pt. Start 15° End Same Direction to Obs. Pt. (Degrees) Start 79° End Same
 Distance and Direction to Observation Point from Emission Point Start See Above data End Same

Describe Emissions
 Start Clear End Same
 Emission Color Start Clear End Same Water Droplet Plume Attached Detached None

Describe Plume Background
 Start tree line End Same Sky Conditions Start Partly Cloudy End Same
 Background Color Start Brown End Same Wind Speed Start 5-10 End Same
 Wind Direction Start SE End Same
 Ambient Temp. _____ Wet Bulb Temp. _____ RH Percent _____



Additional Information

Observation Date	Time Zone	Start Time	End Time				
2-24-00	EST	1535	1628				
Sec	0	15	30	45	Comments		
Min							
1	0	0	0	0			
2	0	0	0	0			
3	0	0	0	0			
4	0	0	0	0			
5	0	0	0	0			
6	0	0	0	0			
7	0	0	0	0			
8	0	0	0	0			
9	0	0	0	0			
10	0	0	0	0			
11	0	0	0	0	STOP AT 1606		
12	0	0	0	0	START AT 1609		
13	0	0	0	0			
14	0	0	0	0			
15	0	0	0	0			
16	0	0	0	0			
17	0	0	0	0			
18	0	0	0	0			
19	0	0	0	0			
20	0	0	0	0			
21	0	0	0	0			
22	0	0	0	0			
23	0	0	0	0			
24	0	0	0	0			
25	0	0	0	0			
26	0	0	0	0			
27	0	0	0	0			
28	0	0	0	0			
29	0	0	0	0			
30	0	0	0	0			

Observer's Name (Print) Donnie Leeper
 Observer's Signature Donnie Leeper Date 2-24-00
 Organization Astech Environmental Services
 Certified By E.T.A Date 12-8-99

VISIBLE EMISSION OBSERVATION FORM 1

Form Number Page of
 Continued on VEO Form Number

Method Used (Circle One)
 (Method 9) 231A 2038 Other: _____
 Company Name: **Mulliniks Construction Co.**
 Facility Name: **located at Orlando Paving Plant(2)**
 Street Address: **Florida Rock Road**
 City: **Orlando** State: **FL** Zip: **32809**

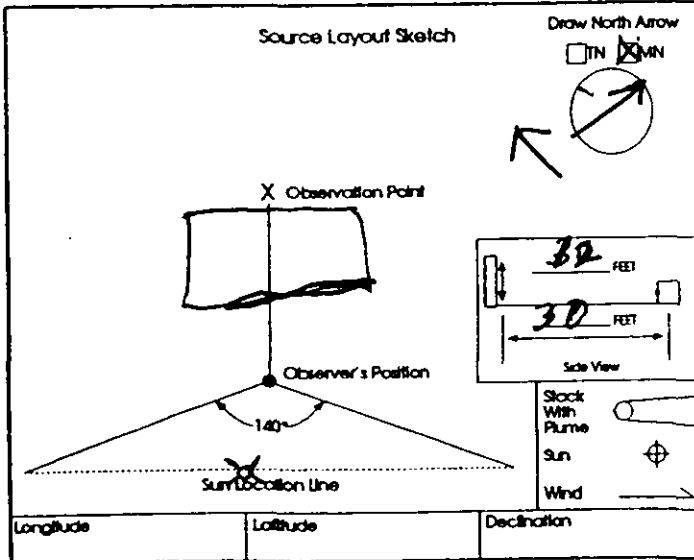
Process: **Hopper Silo** Unit #: _____ Operating Mode: **190 TPH**
 Control Equipment: **Water Spray** Operating Mode: **AS needed**

Describe Emission Point: **~ 4' x 8' loading bin**
 Height of Emis. Pt. Start: **~ 12'** End: **Same** Height of Emis. Pt. Rel. to Observer Start: **~ 6'** End: **Same**
 Distance to Emis. Pt. Start: **30'** End: **Same** Direction to Emis. Pt. (Degrees) Start: **62°** End: **Same**

Vertical Angle to Obs. Pt. Start: **~ 3°** End: _____ Direction to Obs. Pt. (Degrees) Start: **62°** End: **Same**
 Distance and Direction to Observation Point from Emission Point Start: **See Above DATA** End: **Same**

Describe Emissions
 Start: **Clear** End: **Same**
 Emission Color: **Clear** End: **Same** Water Droplet Plume: _____
 Attached Detached None

Describe Plume Background
 Start: **sky** End: **Same**
 Background Color: **grey** End: **Same** Sky Conditions: **Partly Cloudy** End: **Same**
 Wind Speed: **5-10** End: **Same** Wind Direction: **SE** End: **Same**
 Ambient Temp.: _____ Wet Bulb Temp.: _____ RH Percent: _____



Additional Information

Sec Min	Time Zone				Start Time	End Time	Comments
	0	15	30	45			
1	0	0	0	0	1555	1628	
2	0	0	0	0			
3	0	0	0	0			
4	0	0	0	0			
5	0	0	0	0			
6	0	0	0	0			
7	0	0	0	0			
8	0	0	0	0			
9	0	0	0	0			
10	0	0	0	0			
11	0	0	0	0			Stop at 1609
12	0	0	0	0			Start 1609
13	0	0	0	0			
14	0	0	0	0			
15	0	0	0	0			
16	0	0	0	0			
17	0	0	0	0			
18	0	0	0	0			
19	0	0	0	0			
20	0	0	0	0			
21	0	0	0	0			
22	0	0	0	0			
23	0	0	0	0			
24	0	0	0	0			
25	0	0	0	0			
26	0	0	0	0			
27	0	0	0	0			
28	0	0	0	0			
29	0	0	0	0			
30	0	0	0	0			

Observer's Name (Print): **Donnie Leeper**
 Observer's Signature: **Donnie Leeper** Date: **2-24-00**
 Organization: **Astech Environmental Services**
 Certified By: **E.T.A.** Date: **12-8-99**

VISIBLE EMISSION OBSERVATION FORM 1

Form Number Page 1 of 1
Continued on VEO Form Number

Method Used (Circle One)
Method 9 203A 203B Other: _____

Company Name
Mullinix Construction Co.
Facility Name
located at Orlando Hwy #2
Street Address
8501 Florida Rock Road
City Orlando State FL Zip 32809

Process Crusher Unit # _____ Operating Mode 180 TPH
Control Equipment Water Spray Operating Mode As needed

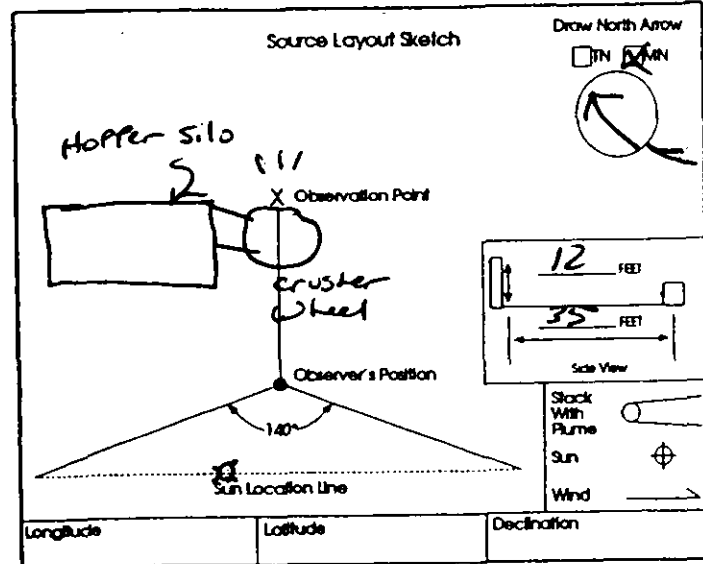
Describe Emission Point
4' Circular crushing wheel

Height of Emiss. Pt. Start ~12' End Same Height of Emiss. Pt. Rel. to Observer Start ~6' End Same
Distance to Emiss. Pt. Start 35' End Same Direction to Emiss. Pt. (Degrees) Start 162° End Same

Vertical Angle to Obs. Pt. Start ~3° End Same Direction to Obs. Pt. (Degrees) Start 62° End Same
Distance and Direction to Observation Point from Emission Point Start See Above Data End Same

Describe Emissions
Start Clear End Same
Emission Color Water Droplet Plume
Start Clear End Same Attached Detached None

Describe Plume Background
Start Sky End Same
Background Color Grey End Same Sky Conditions cloudy End Same
Wind Speed Start 5-10 End Same Wind Direction Start SE End Same
Ambient temp. _____ Wet Bulb temp. _____ RH Percent _____



Additional Information

Observation Date	Time Zone	Start Time	End Time				
2-24-00	EST	1535	1628				
Sec	0	15	30	45	Comments		
Min							
1	0	0	0	0			
2	0	0	0	0			
3	0	0	0	0			
4	0	0	0	0			
5	0	0	0	0			
6	0	0	0	0			
7	0	0	0	0			
8	0	0	0	0			
9	0	0	0	0			
10	0	0	0	0			
11	0	0	0	0	stop 1606		
12	0	0	0	0	start 1609		
13	0	0	0	0			
14	0	0	0	0			
15	0	0	0	0			
16	0	0	0	0			
17	0	0	0	0			
18	0	0	0	0			
19	0	0	0	0			
20	0	0	0	0			
21	0	0	0	0			
22	0	0	0	0			
23	0	0	0	0			
24	0	0	0	0			
25	0	0	0	0			
26	0	0	0	0			
27	0	0	0	0			
28	0	0	0	0			
29	0	0	0	0			
30	0	0	0	0			

Observer's Name (Print) Donnie Leifer
Observer's Signature Donnie Leifer Date 2-24-00
Organization Astech Environmental Services
Certified By E.T.A. Date 12-8-99

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 203A 203B Other _____

Company Name
 Mulliniks Construction CO.
 Facility Name
 Located At Orlando Paving Plant 2
 Street Address
 8501 Florida Rock Road
 City Orlando State FL Zip 32824

Process Return Conveyor Unit # _____ Operating Mode 190 TPH
 Control Equipment Water Spray # Operating Mode AS Needed

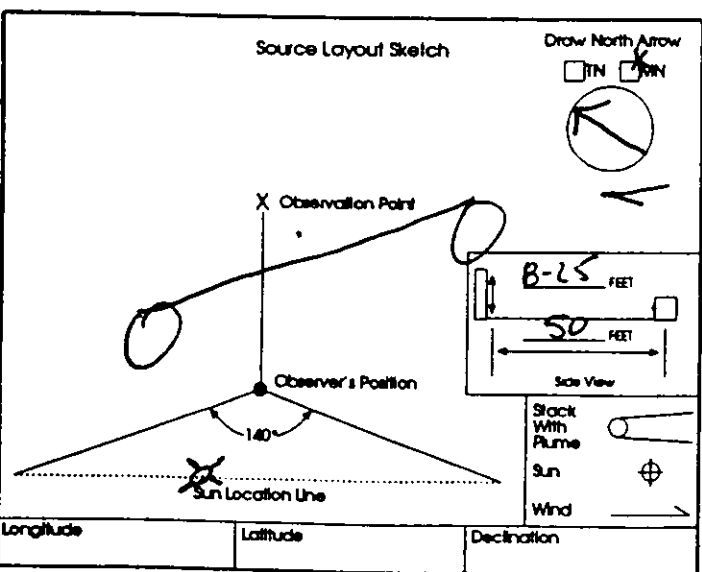
Describe Emission Point
 ~ 30' long conveyor belt

Height of Emiss. Pt. Start See comments end SAME
 Height of Emiss. Pt. Rel. to Observer Start See comments end SAME
 Distance to Emiss. Pt. Start ~ 50' end SAME
 Direction to Emiss. Pt. (Degrees) Start 64° to 79° end SAME

Vertical Angle to Obs. Pt. Start ~ 10° to 10° end SAME
 Direction to Obs. Pt. (Degrees) Start 64° to 79° end SAME
 Distance and Direction to Observation Point from Emission Point Start See Above DATA end SAME

Describe Emissions
 Start CLEAR End SAME
 Emission Color Start CLEAR End SAME
 Water Droplet Plume Attached Detached None

Describe Plume Background
 Start Tree line End SAME
 Background Color Start brown end SAME
 Sky Conditions Start Partly Cloudy end SAME
 Wind Speed Start 5-10 end SAME
 Wind Direction Start SE End SAME
 Ambient Temp. _____
 Wet Bulb Temp. _____
 RH Percent _____



Additional Information
 Belt goes from ~ 8' Above ground to ~ 25' Above ground

Form Number _____ Page 1 of 1
 Continued on VEO Form Number _____

Observation Date 2-24-00 Time Zone EST Start Time 1633 End Time 1704

Sec Min	0	15	30	45	Comments
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	STOP AT 1649
15	0	0	0	0	START AT 1650
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print) Donnie Leeper
 Observer's Signature Donnie Leeper Date 12-24-00
 Organization Astech Environmental Services
 Certified by E.T.A. Date 12-8-99

VISIBLE EMISSION OBSERVATION FORM 1

Form Number Page 1 of 1
Continued on VEO Form Number

Method Used (Circle One)
Method 9 203A 203B Other:

Company Name Mullinix Construction Co.
Facility Name located at Orlando Aving #2
Street Address 8501 Florida Rock Road
City Orlando State FL Zip 32824

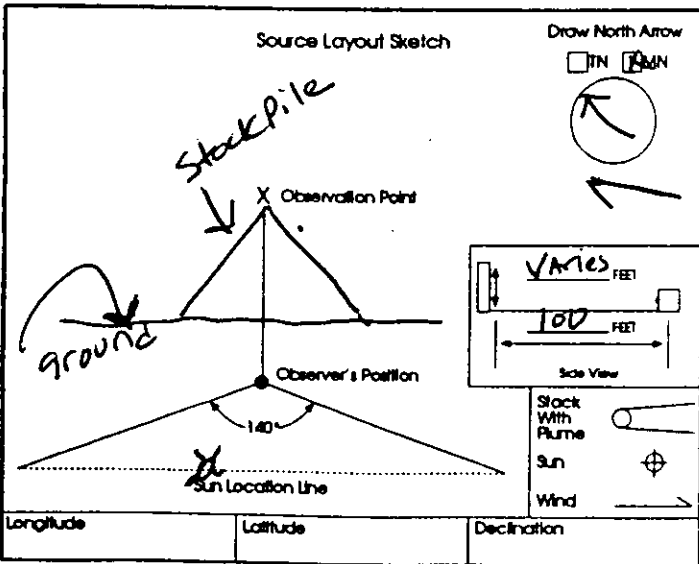
Process Drop Point Unit # Operating Mode 190 TPH
Control Equipment Water Spray Operating Mode AS Needed

Describe Emission Point
Stackpile that varies in height due to loader carrying away product
Height of Emiss. Pt. Start Varies End Same Height of Emiss. Pt. Rel. to Observer Start Varies End Same
Distance to Emiss. Pt. Start 100' End Same Direction to Emiss. Pt. (Degrees) Start 102° End Same

Vertical Angle to Obs. Pt. Start Varies End Same Direction to Obs. Pt. (Degrees) Start 102° End Same
Distance and Direction to Observation Point from Emission Point Start See Above Data End Same

Describe Emissions
Start Clear End Same
Emission Color Start Clear End Same Water Droplet Plume Attached Detached None

Describe Plume Background
Start treeline End Same
Background Color Start green End Same Sky Conditions Start partly End Same
Wind Speed Start 5-10 End Same Wind Direction Start SE End Same
Ambient Temp. Start End Wet Bulb Temp. RH Percent



Longitude Latitude Declination
Additional Information

Observation Date		Time Zone				Start time	End time
2-24-00		EST				11:33	17:04
Min	Sec	0	15	30	45	Comments	
	1	0	0	0	0		0
2	0	0	0	0	0		
3	0	0	0	0	0		
4	0	0	0	0	0		
5	0	0	0	0	0		
6	0	0	0	0	0		
7	0	0	0	0	0		
8	0	0	0	0	0		
9	0	0	0	0	0		
10	0	0	0	0	0		
11	0	0	0	0	0		
12	0	0	0	0	0		
13	0	0	0	0	0		
14	0	0	0	0	0		
15	0	0	0	0	0		
16	0	0	0	0	0		
17	0	0	0	0	0		
18	0	0	0	0	0		
19	0	0	0	0	0		
20	0	0	0	0	0		
21	0	0	0	0	0		
22	0	0	0	0	0		
23	0	0	0	0	0		
24	0	0	0	0	0		
25	0	0	0	0	0		
26	0	0	0	0	0		
27	0	0	0	0	0		
28	0	0	0	0	0		
29	0	0	0	0	0		
30	0	0	0	0	0		

Observer's Name (Print) Donnie Kefer
Observer's Signature Donnie Kefer Date 2-24-00
Organization Astech Environmental Services
Certified by E.T.A. Date 12-8-99

VISIBLE EMISSION OBSERVATION FORM 1

Form Number		Page	of
Continued on VEO Form Number			

Method Used (Circle One) Method 9 203A 203B Other: _____

Company Name Mulliniks Construction Co.
 Facility Name located At Orlando Paving Plant 2
 Street Address 8501 Florida Park Road
 City Orlando State FL Zip 32824

Process FINAL Conveyor Unit # _____ Operating Mode 190 TPH
 Control Equipment Water Spray Operating Mode AS Needed

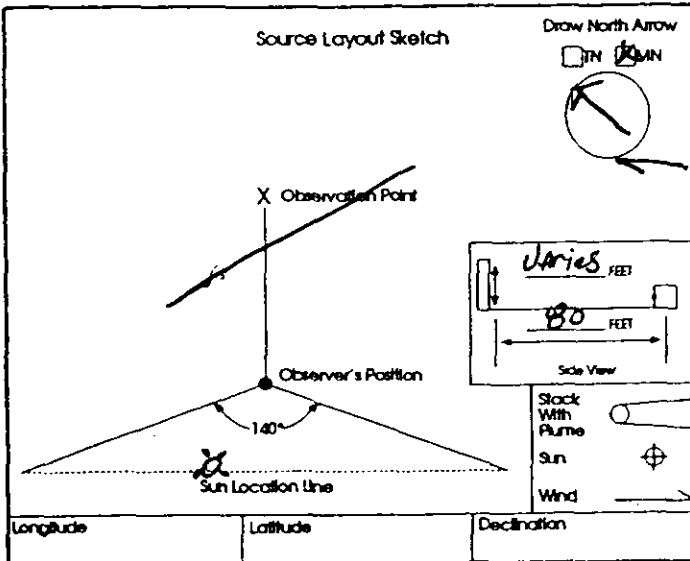
Describe Emission Point
~ 40' long conveyor belt

Height of Emiss. Pt. Start 5' to 20' End SAME Height of Emiss. Pt. Rel. to Observer Start level to 14' End SAME
 Distance to Emiss. Pt. Start 80' End SAME Direction to Emiss. Pt. (Degrees) Start 80° to 90° End SAME

Vertical Angle to Obs. Pt. Start level to 6° End SAME Direction to Obs. Pt. (Degrees) Start 80° to 90° End SAME
 Distance and Direction to Observation Point from Emission Point Start See Above data End SAME

Describe Emissions
 Start Clear End SAME Emission Color Start Clear End SAME
 Water Droplet Plume Attached Detached None

Describe Plume Background
 Start free line End SAME Sky Conditions Start Partly Cloudy End SAME
 Background Color Start brown End SAME Wind Speed Start 5-10 End SAME
 Wind Direction Start SE End SAME Ambient Temp. _____ Wet Bulb Temp. _____ RH Percent _____



Sec Min	Time Zone <u>EST</u>				Start time <u>1633</u>	End time <u>1704</u>	Comments
	0	15	30	45			
1	0	0	0	0			
2	0	0	0	0			
3	0	0	0	0			
4	0	0	0	0			
5	0	0	0	0			
6	0	0	0	0			
7	0	0	0	0			
8	0	0	0	0			
9	0	0	0	0			
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13	0	0	0	0			
14	0	0	0	0			
15	0	0	0	0			
16	0	0	0	0			
17	0	0	0	0			
18	0	0	0	0			
19	0	0	0	0			
20	0	0	0	0			
21	0	0	0	0			
22	0	0	0	0			
23	0	0	0	0			
24	0	0	0	0			
25	0	0	0	0			
26	0	0	0	0			
27	0	0	0	0			
28	0	0	0	0			
29	0	0	0	0			
30	0	0	0	0			

Observer's Name (Print) Donnie Leeper
 Observer's Signature Donnie Leeper Date 2-24-00
 Organization Astech Environmental Services
 Certified By E.T.A. Date 12-8-99

VISIBLE EMISSIONS EVALUATOR

This is to certify that

Donnie Leeper

met the specifications of Federal Reference Method 9 and qualified 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, North Carolina. This certificate is valid for six months from date of issue.

274960

Certificate Number

Jacksonville, Florida

Location

December 8, 1999

Date of Issue

Thomas Fore
President

Michael Sanford
Director of Training