

**NONMETALLIC MINERAL PROCESSING PLANTS (CRUSHERS)  
AIR GENERAL PERMIT REGISTRATION FORM**

**Part II. Notification to Permitting Office**

(Detach and submit to appropriate permitting office; keep copy onsite)

**Instructions:** To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. (\$100 as of the effective date of this form)

**Registration Type**

Check one:

**INITIAL REGISTRATION** - Notification of intent to:

- Construct and operate a proposed new facility.  
 Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).

**RE-REGISTRATION** (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.  
 Continue operating the facility after a change of ownership.  
 Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

**Current Permit No.: 7775166-001-AG**

**Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only**

If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s): \_\_\_\_\_  
 No air operation permits currently exist for this facility.

**General Facility Information**

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)  
 Patco, Inc.

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)  
 Patco, Inc.

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)  
 Street Address: 10280 SE 58th Ave  
 City: Belleview County: Marion Zip Code: 34420

Bureau of Air Pollution  
 & Mobile Sources

FEB 03 2009

RECEIVED

7775166-002

Facility Start-Up Date (Estimated start-up date of proposed **new** facility.)(N/A for existing facility)  
N/A

**\* SEE NEXT PAGE AS  
AN ADDENDUM TO THIS  
APPLICATION -** *D. Dittus*

**Owner/Authorized Representative**

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.)

Print Name and Title: George K. Foster, President

Owner/Authorized Representative Mailing Address

Organization/Firm: Creative Environmental Solutions, Inc.

Street Address: 611 North Broad Street

City: Brooksville

County: Hernando

Zip Code: 34601

Owner/Authorized Representative Telephone Numbers

Telephone: 352 796-3374

Fax: 352-796-2449

Cell phone (optional):

**Facility Contact (If different from Owner/Authorized Representative)**

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: Pat Fisher

Facility Contact Mailing Address

Organization/Firm: Patco, Inc

Street Address: P.O. Box 1069

City: Coleman

County: Sumpter

Zip Code: 33521

Facility Contact Telephone Numbers

Telephone: (352) 748-3482

Fax: (352) 748-6636

Cell phone (optional):

**Owner/Authorized Representative Statement**

This statement must be signed and dated by the person named above as owner or authorized representative

*I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.*

*I will promptly notify the Department of any changes to the information contained in this registration form.*

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**\* ADDENDUM TO ORIGINAL RECEIVED  
APPLICATION DATED FEA  
RECEIPT 491551, JAN 30 2009 FEB 11 2009**

**Owner/Authorized Representative**

Bureau of Air Monitoring,  
Use Mobile Sources

<u>Name and Position Title</u> (Person who, by signing this form below, certifies that the facility is eligible to use Mobile Sources air general permit.) Print Name and Title: <b>PATRICK F FISHER CONTROLLER</b>		
<u>Owner/Authorized Representative Mailing Address</u> Organization/Firm: Creative Environmental Solutions, Inc. Street Address: 611 North Broad Street City: Brooksville County: Hernando Zip Code: 34601		
<u>Owner/Authorized Representative Telephone Numbers</u> Telephone: 352 796-3374 Fax: 352-796-2449 Cell phone (optional):		

**Facility Contact (If different from Owner/Authorized Representative)**

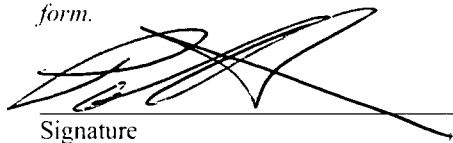
<u>Name and Position Title</u> (Plant manager or person to be contacted regarding day-to-day operations at the facility.) Print Name and Title: Pat Fisher		
<u>Facility Contact Mailing Address</u> Organization/Firm: Patco, Inc Street Address: P.O. Box 1069 City: Coleman County: Sumpter Zip Code: 33521		
<u>Facility Contact Telephone Numbers</u> <i>SAME</i> Telephone: (352) 748-3482 Fax: (352) 748-6636 Cell phone (optional): <i>352-303-0200</i>		

**Owner/Authorized Representative Statement**

This statement must be signed and dated by the person named above as owner or authorized representative

*I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.*

*I will promptly notify the Department of any changes to the information contained in this registration form.*

  
Signature

*1/28/09*  
Date

**Type of Facility**

Check one:

Stationary Facility                       Relocatable Facility

**Type(s) of Precautions Used to Prevent Unconfined Emissions**

Check all that apply for the management of roads, parking areas, stock piles and yards:

Maintain Roads/Parking/Yards       Use Water Application       Use Dust Suppressant  
 Remove Particulate Matter       Reduce Stock Pile Height       Install Wind Breaks

Check the location of spray bars at the nonmetallic mineral processing plant:

Feeders                       Entrance to "Crusher"      **XX Exit of "Crusher"**  
 Classifier Screens       Conveyor Drop Points

**Description of Reasonable Precautions**

Below, or as an attachment to this form, provide details of all types of reasonable precautions to be used to prevent unconfined emissions at the facility.

**The unit has a factory equipped spray assembly located at the exit of the crusher unit. Water is supplied by a storage tank, if onsite water is not available.**

**A partial copy of the July 20,2007 Visible Emissions Observations conducted by Koogler & Associates is included with this application. A complete copy was transmitted to the FDEP Central District Office on October 20, 2007.**

**Description of Facility**

Below, or as an attachment to this form, provide a description of the nonmetallic mineral processing operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

The use of the facility has not changed from previous permitted use. It is used to crush small quantities of recycled concrete. This processed material does not contain toxic or hazardous material.

VISIBLE EMISSIONS  
OBSERVATIONS REPORT

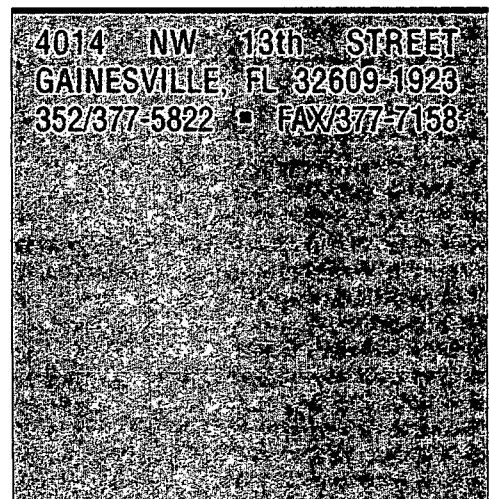
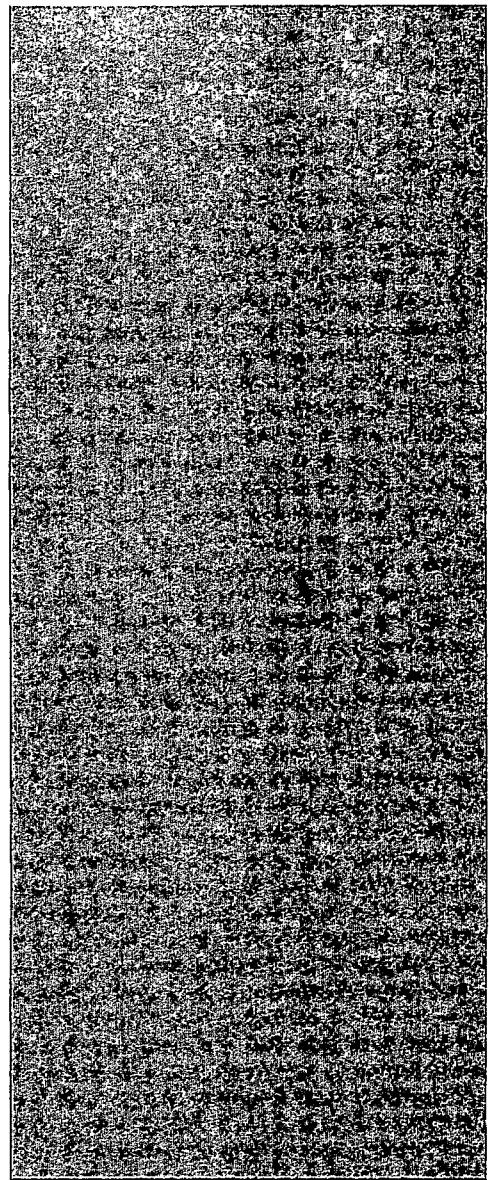
Portable Crushing Unit – Crusher 1

PatCo, Inc.  
Coleman, Florida

Permit No. 7775166-001-AG

Test Date: July 20, 2007  
Report Date: August 20, 2007

591-07-03



VISIBLE EMISSIONS  
OBSERVATIONS REPORT

**Portable Crushing Unit – Crusher 1**

**PatCo, Inc.**  
Coleman, Florida

Permit No. 7775166-001-AG

Test Date: July 20, 2007  
Report Date: August 20, 2007

*Koogler & Associates, Inc.*  
4014 N.W. 13th Street  
Gainesville, Florida 32609  
(352) 377-5822

591-07-03





To the best of my knowledge, all applicable field and analytical procedures comply with the Florida Department of Environmental Protection requirements and all test data and plant operating data are true and correct.

Neil A. Lofgren, P.E.  
Neil A. Lofgren, P.E.

State of Florida  
License No. 61744

August 20, 2007  
Date



## 1.0 INTRODUCTION

PatCo, Inc. owns and operates a portable crusher (Crusher 1) , currently located at 10272 South East 58<sup>th</sup> Avenue, Belleview, Marion County, Florida. On July 20, 2007, Koogler & Associates, Inc. of Gainesville, Florida conducted visible emissions observations on Crusher 1 in accordance with EPA Method 9 (40 CFR 60, Appendix A). The purpose of the testing was to demonstrate compliance with the emission limiting requirements of Rule 62-210.300(4)(c) 5, (F.A.C.) for nonmetallic mineral processing plants.

Prior to the test date, the Central District office of the Florida Department of Environmental Protection (FDEP) was notified of the test schedule and testing method.

During the period of testing, Crusher 1 was operating at approximately 100 tons per hour.

Visible emissions observations were conducted for 30-minute periods on eleven emission points on the crusher, screens and diesel engines. There were no visible emissions observed during the observation periods. Opacity is limited to less than 15 percent for the crusher and ten percent for transfer points on belt conveyors. The results of the visible emission observations are presented in Table 1.

Based on the data presented herein, it can be concluded that during the period of testing on July 20, 2007, Crusher 1 was operating in compliance with the requirements of a general permit.

Table 1  
 Visible Emission Observations  
 PatCo, Inc., Belleview, Florida  
 July 20, 2007

Emission Point	Point Name	Transfer Rate		Opacity	
		Design (TPH)	Tested (TPH)	Observed (%) (1)	Limit (%)
1	Shaker/Hopper	100	100	0	10
2	Crusher	100	100	0	15
3	Crusher Under belt	100	100	0	10
4	Screen	100	100	0	10
5	Screen Oversize Belt	100	100	0	10
6	Screen Under belt	100	100	0	10
7	Short Transfer Belt	100	100	0	10
8	Stacker Belt	100	100	0	10
9	Pile	100	100	0	10
10	Diesel Drive Engine	100	100	0	10
11	Diesel Generator Engine	100	100	0	10

(1) Highest six-minute rolling average opacity

## Appendix

Calculations

Field Data Sheets

Plant Operating Information

Project Participants

Calculations

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT : PATCO, INC - BELLEVIEW, FLORIDA				
SOURCE: SHAKER/HOPPER				
DATE : JULY 20, 2007				
TIME START: 09:41				
TIME FINISH: 10:11				
RESULTS:				
AVERAGE OPACITY =				0.0 %
MAXIMUM OPACITY =				0.0 %
HIGHEST SIX-MINUTE ROLLING AVERAGE =				0.0 %
OBSERVATIONS:				
SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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

KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: SHAKER/HOPPER  
 DATE : JULY 20, 2007  
 TIME START: 09:41  
 TIME FINISH: 10:11

CALCULATIONS:

	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0



KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: CRUSHER  
 DATE : JULY 20, 2007  
 TIME START: 09:41  
 TIME FINISH: 10:11

RESULTS:

AVERAGE OPACITY = 0.0 %  
 MAXIMUM OPACITY = 0.0 %  
 HIGHEST SIX-MINUTE ROLLING AVERAGE = 0.0 %

OBSERVATIONS:

SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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

KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: CRUSHER  
 DATE : JULY 20, 2007  
 TIME START: 09:41  
 TIME FINISH: 10:11

CALCULATIONS :

SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS				
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0

KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: CRUSHER UNDER BELT  
 DATE : JULY 20, 2007  
 TIME START: 09:41  
 TIME FINISH: 10:11

RESULTS:

AVERAGE OPACITY = 0.0 %  
 MAXIMUM OPACITY = 0.0 %  
 HIGHEST SIX-MINUTE ROLLING AVERAGE = 0.0 %

OBSERVATIONS:

SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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

KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: CRUSHER UNDER BELT  
 DATE : JULY 20, 2007  
 TIME START: 09:41  
 TIME FINISH: 10:11

CALCULATIONS :

	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0

KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: SCREEN  
 DATE : JULY 20, 2007  
 TIME START: 10:11  
 TIME FINISH: 10:41

RESULTS:

AVERAGE OPACITY = 0.0 %  
 MAXIMUM OPACITY = 0.0 %  
 HIGHEST SIX-MINUTE ROLLING AVERAGE = 0.0 %

OBSERVATIONS:

SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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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

KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: SCREEN  
 DATE : JULY 20, 2007  
 TIME START: 10:11  
 TIME FINISH: 10:41

CALCULATIONS :

	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT : PATCO, INC - BELLEVIEW, FLORIDA				
SOURCE: SCREEN OVERSIZE BELT				
DATE : JULY 20, 2007				
TIME START: 10:11				
TIME FINISH: 10:41				
RESULTS :				
AVERAGE OPACITY =				0.0 %
MAXIMUM OPACITY =				0.0 %
HIGHEST SIX-MINUTE ROLLING AVERAGE =				0.0 %
OBSERVATIONS :				
SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: SCREEN OVERSIZE BELT  
 DATE : JULY 20, 2007  
 TIME START: 10:11  
 TIME FINISH: 10:41

CALCULATIONS:

	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0



KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT :	PATCO, INC - BELLEVIEW, FLORIDA			
SOURCE:	SCREEN UNDER BELT			
DATE :	JULY 20, 2007			
TIME START:	10:11			
TIME FINISH:	10:41			
RESULTS :				
AVERAGE OPACITY =	0.0 %			
MAXIMUM OPACITY =	0.0 %			
HIGHEST SIX-MINUTE ROLLING AVERAGE =	0.0 %			
OBSERVATIONS :				
SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT :	PATCO, INC - BELLEVIEW, FLORIDA			
SOURCE:	SCREEN UNDER BELT			
DATE :	JULY 20, 2007			
TIME START:	10:11			
TIME FINISH:	10:41			
CALCULATIONS:				
	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT : PATCO, INC - BELLEVIEW, FLORIDA				
SOURCE: SHORT TRANSFER BELT				
DATE : JULY 20, 2007				
TIME START: 10:11				
TIME FINISH: 10:41				
RESULTS:				
AVERAGE OPACITY =				0.0 %
MAXIMUM OPACITY =				0.0 %
HIGHEST SIX-MINUTE ROLLING AVERAGE =				0.0 %
OBSERVATIONS:				
SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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

KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: SHORT TRANSFER BELT  
 DATE : JULY 20, 2007  
 TIME START: 10:11  
 TIME FINISH: 10:41

CALCULATIONS:

	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0

KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: STACKER BELT  
 DATE : JULY 20, 2007  
 TIME START: 11:11  
 TIME FINISH: 11:41

RESULTS:

AVERAGE OPACITY = 0.0 %  
 MAXIMUM OPACITY = 0.0 %  
 HIGHEST SIX-MINUTE ROLLING AVERAGE = 0.0 %

OBSERVATIONS:

SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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

KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES

SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: STACKER BELT  
 DATE : JULY 20, 2007  
 TIME START: 11:11  
 TIME FINISH: 11:41

CALCULATIONS:

	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT :	PATCO, INC - BELLEVIEW, FLORIDA			
SOURCE:	PILE			
DATE :	JULY 20, 2007			
TIME START:	11:11			
TIME FINISH:	11:41			
RESULTS:				
AVERAGE OPACITY =	0.0 %			
MAXIMUM OPACITY =	0.0 %			
HIGHEST SIX-MINUTE ROLLING AVERAGE =	0.0 %			
OBSERVATIONS:				
SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT :	PATCO, INC - BELLEVIEW, FLORIDA			
SOURCE:	PILE			
DATE :	JULY 20, 2007			
TIME START:	11:11			
TIME FINISH:	11:41			
CALCULATIONS :				
	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0



KOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES  
 SUMMARY OF 30 MINUTE VISIBLE EMISSIONS

PLANT : PATCO, INC - BELLEVIEW, FLORIDA  
 SOURCE: DIESEL DRIVE ENGINE  
 DATE : JULY 20, 2007  
 TIME START: 10:11  
 TIME FINISH: 10:41

RESULTS:

AVERAGE OPACITY = 0.0 %  
 MAXIMUM OPACITY = 0.0 %  
 HIGHEST SIX-MINUTE ROLLING AVERAGE = 0.0 %

OBSERVATIONS:


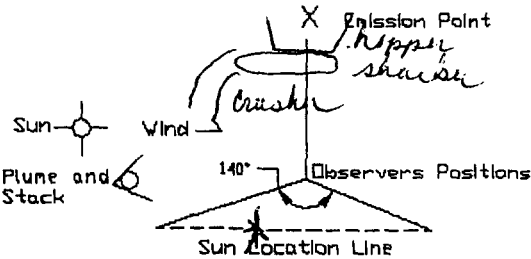
SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0
24	0	0	0	0
25	0	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

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT :	PATCO, INC - BELLEVIEW, FLORIDA			
SOURCE:	DIESEL DRIVE ENGINE			
DATE :	JULY 20, 2007			
TIME START:	10:11			
TIME FINISH:	10:41			
CALCULATIONS:				
	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT :	PATCO, INC - BELLEVIEW, FLORIDA			
SOURCE:	DIESEL GENERATOR ENGINE			
DATE :	JULY 20, 2007			
TIME START:	10:11			
TIME FINISH:	10:41			
RESULTS:				
AVERAGE OPACITY =				0.0 %
MAXIMUM OPACITY =				0.0 %
HIGHEST SIX-MINUTE ROLLING AVERAGE =				0.0 %
OBSERVATIONS:				
SECONDS	0	15	30	45
MINUTES	OPACITY (%)			
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
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

KOOGLER AND ASSOCIATES, ENVIRONMENTAL SERVICES				
SUMMARY OF 30 MINUTE VISIBLE EMISSIONS				
PLANT :	PATCO, INC - BELLEVIEW, FLORIDA			
SOURCE:	DIESEL GENERATOR ENGINE			
DATE :	JULY 20, 2007			
TIME START:	10:11			
TIME FINISH:	10:41			
CALCULATIONS :				
	SIX-MINUTE ROLLING AVERAGES OF VISIBLE EMISSIONS			
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	0.0
7	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0

Field Data Sheets

SOURCE NAME <i>Patco</i>		
ADDRESS <i>10272 SE 58<sup>th</sup> Ave</i>		
CITY <i>Belleview</i>	STATE <i>FL</i>	ZIP
PHONE <i>352-303-0069</i>	SOURCE ID NUMBER	
PROCESS EQUIPMENT <i>Hopper Shaker</i>	OPERATING MODE <i>100 TPH</i>	
CONTROL EQUIPMENT	OPERATING MODE	
DESCRIBE EMISSION POINT START <i>Hopper Area</i> STOP <i>same</i>		
HEIGHT ABOVE GROUND LEVEL START <i>15'2"</i> STOP <i>15'2"</i>		HEIGHT RELATIVE TO OBSERVER START <i>10'2"</i> STOP <i>10'2"</i>
DISTANCE FROM OBSERVER START <i>30'2"</i> STOP <i>30'2"</i>		DIRECTION FROM OBSERVER START <i>258°</i> STOP <i>258°</i>
DESCRIBE EMISSIONS START <i>Clear</i> STOP <i>Clear</i>		
EMISSION COLOR START <i>Clear</i> STOP <i>Clear</i>		PLUME TYPE: CONTINUOUS <input type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>
WATER DROPLETS PRESENT: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>		IF WATER DROPLET PLUME: ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START <i>Top of Hopper</i> STOP <i>same</i>		
DESCRIBE BACKGROUND START <i>sky</i> STOP <i>sky</i>		
BACKGROUND COLOR START <i>Blue</i> STOP <i>White</i>		SKY CONDITIONS START <i>cldy</i> STOP <i>cldy</i>
WIND SPEED START <i>0-2</i> STOP <i>0-2</i>		WIND DIRECTION START <i>Var</i> STOP <i>Var</i>
AMBIENT TEMP START <i>84</i> STOP <i>84</i>		WET BULB TEMP <i>80</i>
		RH. percent <i>84</i>
Draw North Arrow 		
		

OBSERVATION DATE		START TIME		STOP TIME	COMMENTS
7-20-07		0941		1011	
SEC	0	15	30	45	
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	
12	0	0	0	0	
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	

COMMENTS

OBSERVER'S NAME (PRINT)  
*Rodney PAUL*

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE

OBSERVER'S SIGNATURE  
*Rodney Paul* DATE  
*7-20-07*

TITLE

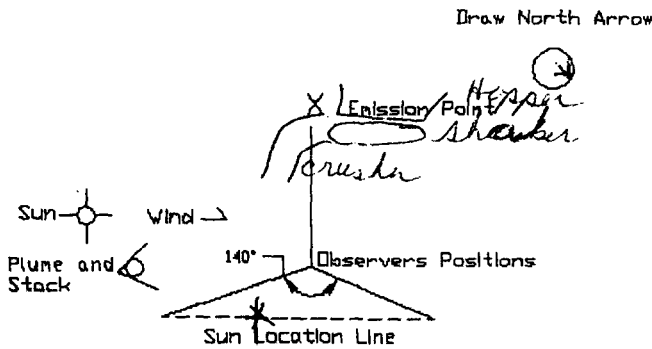
ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

DATE

CERTIFIED BY  
*Whitlow* DATE  
*7-07*



SOURCE NAME <i>Pateco</i>	
ADDRESS <i>10272 SE 58th Ave</i>	
CITY <i>Belleview</i>	STATE <i>FL</i> ZIP
PHONE <i>352-303-0069</i>	SOURCE ID NUMBER
PROCESS EQUIPMENT <i>Crusher</i>	OPERATING MODE <i>100 TPH</i>
CONTROL EQUIPMENT	OPERATING MODE
DESCRIBE EMISSION POINT START <i>Crusher Area</i> STOP <i>same</i>	
HEIGHT ABOVE GROUND LEVEL START <i>15'2"</i> STOP <i>15'2"</i>	HEIGHT RELATIVE TO OBSERVER START <i>10'2"</i> STOP <i>10'2"</i>
DISTANCE FROM OBSERVER START <i>30'</i> STOP <i>30'</i>	DIRECTION FROM OBSERVER START <i>248°</i> STOP <i>248°</i>
DESCRIBE EMISSIONS START <i>Clear</i> STOP <i>Clear</i>	
EMISSION COLOR START <i>Clear</i> STOP <i>Clear</i>	PLUME TYPE: CONTINUOUS <input type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>
WATER DROPLETS PRESENT: NO <input type="checkbox"/> YES <input type="checkbox"/>	IF WATER DROPLET PLUME: ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START <i>Top of crusher</i> STOP <i>same</i>	
DESCRIBE BACKGROUND START <i>sky</i> STOP <i>sky</i>	
BACKGROUND COLOR START <i>Blue</i> STOP <i>White</i>	SKY CONDITIONS START <i>cldy</i> STOP <i>cldy</i>
WIND SPEED START <i>0-2</i> STOP <i>0-2</i>	WIND DIRECTION START <i>Var</i> STOP <i>Var</i>
AMBIENT TEMP. START <i>84</i> STOP <i>84</i>	WET BULB TEMP <i>80</i>
	RH. percent <i>84</i>



OBSERVATION DATE		START TIME		STOP TIME	COMMENTS
7-20-07		0941		1011	
SEC MIN	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	
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	
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	

COMMENTS	
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE	
TITLE	DATE

OBSERVER'S NAME (PRINT) <i>Rodney PAUL</i>	
OBSERVER'S SIGNATURE <i>Rodney Paul</i>	DATE <i>7-20-07</i>
ORGANIZATION <b>KOGLER AND ASSOCIATES, INC.</b>	
CERTIFIED BY <i>Whitlow</i>	DATE <i>7-07</i>



SOURCE NAME  
*Patco*

ADDRESS  
*10272 AE 58<sup>th</sup> Ave*

CITY *Belleview* STATE *Fl* ZIP

PHONE *352-303-0069* SOURCE ID NUMBER

PROCESS EQUIPMENT *under* OPERATING MODE *100 TPH*  
*Crusher to belt*

CONTROL EQUIPMENT OPERATING MODE

DESCRIBE EMISSION POINT  
START *Top of Underbelt* STOP *same*

HEIGHT ABOVE GROUND LEVEL HEIGHT RELATIVE TO OBSERVER  
START *62* STOP *62* START *1/2* STOP *1/2*

DISTANCE FROM OBSERVER DIRECTION FROM OBSERVER  
START *302* STOP *302* START *248°* STOP *248°*

DESCRIBE EMISSIONS  
START *Clear* STOP *Clear*

EMISSION COLOR PLUME TYPE: CONTINUOUS   
START *Clear* STOP *Clear* FUGITIVE  INTERMITTENT

WATER DROPLETS PRESENT: IF WATER DROPLET PLUME:  
NO  YES  ATTACHED  DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START *Top of underbelt* STOP *same*

DESCRIBE BACKGROUND  
START *Equip* STOP *same*

BACKGROUND COLOR SKY CONDITIONS  
START *mc* STOP *mc* START *cldy* STOP *cldy*

WIND SPEED WIND DIRECTION  
START *0-2* STOP *0-2* START *Vari* STOP *Vari*

AMBIENT TEMP. WET BULB TEMP. RH.percent  
START *84* STOP *84* *80* *84*

OBSERVATION DATE		START TIME		STOP TIME	COMMENTS
<i>7-20-07</i>		<i>0941</i>		<i>1011</i>	
SEC MIN	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	
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	
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	

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE

TITLE DATE

OBSERVER'S NAME (PRINT)  
*Rodney PAUL*

OBSERVER'S SIGNATURE  
*Rodney Paul* DATE *7-20-07*

ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

CERTIFIED BY *Whitlow* DATE *7-07*





SOURCE NAME  
*Patco*

ADDRESS  
*10272 AE 58th Ave*

CITY *Bellvue* STATE *FL* ZIP

PHONE *352-303-0069* SOURCE ID NUMBER

PROCESS EQUIPMENT *Screen* OPERATING MODE *100TPH*

CONTROL EQUIPMENT OPERATING MODE

DESCRIBE EMISSION POINT  
START *Screen Area* STOP *same*

HEIGHT ABOVE GROUND LEVEL  
START *12h* STOP *12h* HEIGHT RELATIVE TO OBSERVER  
START *7h* STOP *7h*

DISTANCE FROM OBSERVER  
START *30h* STOP *30h* DIRECTION FROM OBSERVER  
START *230°* STOP *230°*

DESCRIBE EMISSIONS  
START *Clear* STOP *Clear*

EMISSION COLOR  
START *Clear* STOP *Clear* PLUME TYPE: CONTINUOUS   
FUGITIVE  INTERMITTENT

WATER DROPLETS PRESENT: NO  YES  IF WATER DROPLET PLUME: ATTACHED  DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START *Top of Screen* STOP *same*

DESCRIBE BACKGROUND  
START *Short Trees* STOP *same*

BACKGROUND COLOR  
START *Blue & Green* STOP *same* SKY CONDITIONS  
START *cldy* STOP *cldy*

WIND SPEED  
START *0-2* STOP *0-2* WIND DIRECTION  
START *Vari* STOP *Vari*

AMBIENT TEMP: START *87* STOP *87* WET BULB TEMP *82* RH.percent *81*

Draw North Arrow

OBSERVATION DATE		START TIME		STOP TIME	COMMENTS
7-20-07		1011		1041	
SEC MIN	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	
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	
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	

COMMENTS

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TITLE

DATE

OBSERVER'S NAME (PRINT)  
*Rodney PAUL*

OBSERVER'S SIGNATURE  
*Rodney Paul*

DATE  
*7-20-07*

ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

CERTIFIED BY  
*Whitlow*

DATE  
*7-07*



SOURCE NAME  
*Patcher*

ADDRESS  
*10272 SE 58th Ave*

CITY *Billerica* STATE *FL* ZIP

PHONE *352-303-0069* SOURCE ID NUMBER

PROCESS EQUIPMENT *Crusher* OPERATING MODE *100 TPH*

CONTROL EQUIPMENT OPERATING MODE

DESCRIBE EMISSION POINT  
START *Drop Point* STOP *same*

HEIGHT ABOVE GROUND LEVEL  
START *8h* STOP *8h* HEIGHT RELATIVE TO OBSERVER  
START *3h* STOP *3h*

DISTANCE FROM OBSERVER  
START *30h* STOP *30h* DIRECTION FROM OBSERVER  
START *240°* STOP *240°*

DESCRIBE EMISSIONS  
START *clear* STOP *clear*

EMISSION COLOR  
START *clear* STOP *clear* PLUME TYPE: CONTINUOUS  FUGITIVE  INTERMITTENT

WATER DROPLETS PRESENT: NO  YES  IF WATER DROPLET PLUME: ATTACHED  DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START *Top of Drop* STOP *same*

DESCRIBE BACKGROUND  
START *Equip* STOP *same*

BACKGROUND COLOR  
START *mc* STOP *mc* SKY CONDITIONS  
START *cldy* STOP *cldy*

WIND SPEED  
START *0-2* STOP *0-2* WIND DIRECTION  
START *Var* STOP *Var*

AMBIENT TEMP:  
START *87* STOP *87* WET BULB TEMP *82* RH.percent *81*

OBSERVATION DATE		START TIME		STOP TIME	COMMENTS
7-20-07		1011		1041	
SEC MIN	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	
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	
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	

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE

TITLE

DATE

OBSERVER'S NAME (PRINT)  
*Rodney PAUL*

OBSERVER'S SIGNATURE  
*Rodney Paul* DATE  
*7-20-07*

ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

CERTIFIED BY  
*Whitlow* DATE  
*7-07*



SOURCE NAME  
*Patco*

ADDRESS  
*10272 SE 58th Ave*

CITY  
*Bellvue* STATE  
*FL* ZIP

PHONE  
*352-303-0065* SOURCE ID NUMBER

PROCESS EQUIPMENT *includes* OPERATING MODE  
*screen to belt* *100 TPH*

CONTROL EQUIPMENT OPERATING MODE

DESCRIBE EMISSION POINT *screen*  
START *Under belt* STOP *same*

HEIGHT ABOVE GROUND LEVEL HEIGHT RELATIVE TO OBSERVER  
START *10 1/2* STOP *10 1/2* START *5 1/2* STOP *5 1/2*

DISTANCE FROM OBSERVER DIRECTION FROM OBSERVER  
START *30h* STOP *30h* START *230°* STOP *230°*

DESCRIBE EMISSIONS  
START *clean* STOP *clean*

EMISSION COLOR PLUME TYPE: CONTINUOUS   
START *clean* STOP *clean* FUGITIVE  INTERMITTENT

WATER DROPLETS PRESENT: NO  YES  IF WATER DROPLET PLUME: ATTACHED  DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START *Top of belt* STOP *same*

DESCRIBE BACKGROUND  
START *Equip* STOP *same*

BACKGROUND COLOR SKY CONDITIONS  
START *MC* STOP *MC* START *cldy* STOP *cldy*

WIND SPEED WIND DIRECTION  
START *0-2* STOP *0-2* START *Var* STOP *Var*

AMBIENT TEMP: WET BULB TEMP RH.percent  
START *93* STOP *93* *85* *72*

Draw North Arrow

SEC MIN	OBSERVATION DATE			START TIME	STOP TIME	COMMENTS
	0	15	30	45		
1	00	00	00	00		
2	00	00	00	00		
3	00	00	00	00		
4	00	00	00	00		
5	00	00	00	00		
6	00	00	00	00		
7	00	00	00	00		
8	00	00	00	00		
9	00	00	00	00		
10	00	00	00	00		
11	00	00	00	00		
12	00	00	00	00		
13	00	00	00	00		
14	00	00	00	00		
15	00	00	00	00		
16	00	00	00	00		
17	00	00	00	00		
18	00	00	00	00		
19	00	00	00	00		
20	00	00	00	00		
21	00	00	00	00		
22	00	00	00	00		
23	00	00	00	00		
24	00	00	00	00		
25	00	00	00	00		
26	00	00	00	00		
27	00	00	00	00		
28	00	00	00	00		
29	00	00	00	00		
30	00	00	00	00		

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE

TITLE

DATE

OBSERVER'S NAME (PRINT)  
*Rodney PAUL*

OBSERVER'S SIGNATURE  
*Rodney Paul* DATE  
*7-20-07*

ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

CERTIFIED BY  
*Whitlow* DATE  
*7-07*



SOURCE NAME  
*Pateca*

ADDRESS  
*10272 SE 58th Ave*

CITY *Belleview* STATE *FL* ZIP

PHONE *352-303-0069* SOURCE ID NUMBER

PROCESS EQUIPMENT *to start* OPERATING MODE *100TPH*

CONTROL EQUIPMENT OPERATING MODE

DESCRIBE EMISSION POINT  
START *Drop Point* STOP *same*

HEIGHT ABOVE GROUND LEVEL START *5 1/2* STOP *5 1/2* HEIGHT RELATIVE TO OBSERVER START — STOP —

DISTANCE FROM OBSERVER START *30 1/2* STOP *30 1/2* DIRECTION FROM OBSERVER START *220°* STOP *220°*

DESCRIBE EMISSIONS  
START *clean* STOP *clean*

EMISSION COLOR START *clear* STOP *clear* PLUME TYPE: CONTINUOUS  FUGITIVE  INTERMITTENT

WATER DROPLETS PRESENT: NO  YES  IF WATER DROPLET PLUME: ATTACHED  DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START *TOP of Drop* STOP *same*

DESCRIBE BACKGROUND  
START *trees* STOP *trees*

BACKGROUND COLOR START *green* STOP *green* SKY CONDITIONS START *cldy* STOP *cldy*

WIND SPEED START *0-2* STOP *0-2* WIND DIRECTION START *Var* STOP *Var*

AMBIENT TEMP: START *93* STOP *93* WET BULB TEMP *85* RH.percent *72*

Draw North Arrow

The diagram illustrates the observation setup. It shows an 'Emission Point' marked with an 'X' at the top of a 'short stack'. A 'Plume and Stack' is drawn extending from the stack. A 'Sun Location Line' is shown as a dashed line from the emission point to a sun symbol. A 'Wind' direction is indicated by an arrow pointing right. 'Observers Positions' are marked with a circle and 'X' at the bottom, with a '140°' angle between the sun location line and the observer line. A 'screen under belt' is also noted near the observers.

SEC MIN	OBSERVATION DATE			START TIME	STOP TIME	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		
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		
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		

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE

TITLE

DATE

OBSERVER'S NAME (PRINT)  
*RODNEY PAUL*

OBSERVER'S SIGNATURE  
*Rodney Paul*

DATE  
*7-20-07*

ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

CERTIFIED BY  
*Whitlow*

DATE  
*7-07*



SOURCE NAME  
*Pateco*

ADDRESS  
*10272 LE 58th Ave*

CITY *Belleview* STATE *FL* ZIP \_\_\_\_\_

PHONE *352-303-0069* SOURCE ID NUMBER \_\_\_\_\_

PROCESS EQUIPMENT *stacker* OPERATING MODE *100TPH*

CONTROL EQUIPMENT \_\_\_\_\_ OPERATING MODE \_\_\_\_\_

DESCRIBE EMISSION POINT  
START *Drop Point* STOP *same*

HEIGHT ABOVE GROUND LEVEL  
START *52* STOP *52* HEIGHT RELATIVE TO OBSERVER  
START \_\_\_\_\_ STOP \_\_\_\_\_

DISTANCE FROM OBSERVER  
START *80ft* STOP *80ft* DIRECTION FROM OBSERVER  
START *270* STOP *270*

DESCRIBE EMISSIONS  
START *clear* STOP *clear*

EMISSION COLOR  
START *clear* STOP *clear* PLUME TYPE: CONTINUOUS   
START \_\_\_\_\_ STOP \_\_\_\_\_ FUGITIVE  INTERMITTENT

WATER DROPLETS PRESENT: NO  YES  IF WATER DROPLET PLUME: ATTACHED  DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START *Top of drop* STOP *same*

DESCRIBE BACKGROUND  
START *trees* STOP *trees*

BACKGROUND COLOR  
START *Green* STOP *Green* SKY CONDITIONS  
START *cloudy* STOP *cloudy*

WIND SPEED  
START *0-2* STOP *0-2* WIND DIRECTION  
START *Var* STOP *Var*

AMBIENT TEMP: START *90* STOP *90* WET BULB TEMP *84* RH.percent *77*

Draw North Arrow

OBSERVATION DATE		START TIME				STOP TIME	COMMENTS
7-20-07		1111				1141	
SEC MIN	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			
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			
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			

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

OBSERVER'S NAME (PRINT)  
*Rodney PAUL*

OBSERVER'S SIGNATURE  
*Rodney Paul* DATE *7-20-07*

ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

CERTIFIED BY *Whitlow* DATE *7-07*



SOURCE NAME  
*Rateco*

ADDRESS  
*10272 SE 58th Ave*

CITY *Belleview* STATE *FL* ZIP \_\_\_\_\_

PHONE *352-303-0069* SOURCE ID NUMBER \_\_\_\_\_

PROCESS EQUIPMENT *2 Pile* OPERATING MODE \_\_\_\_\_  
*Long stacker to* *100 TPH*

CONTROL EQUIPMENT \_\_\_\_\_ OPERATING MODE \_\_\_\_\_

DESCRIBE EMISSION POINT  
START *Drop Point* STOP *same*

HEIGHT ABOVE GROUND LEVEL START *15 1/2* STOP *15 1/2* HEIGHT RELATIVE TO OBSERVER START *10 1/2* STOP *10 1/2*

DISTANCE FROM OBSERVER START *75 ft* STOP *75 ft* DIRECTION FROM OBSERVER START *220°* STOP *220°*

DESCRIBE EMISSIONS  
START *clear* STOP *clear*

EMISSION COLOR START *clear* STOP *clear* PLUME TYPE: CONTINUOUS  FUGITIVE  INTERMITTENT

WATER DROPLETS PRESENT: NO  YES  IF WATER DROPLET PLUME: ATTACHED  DETACHED

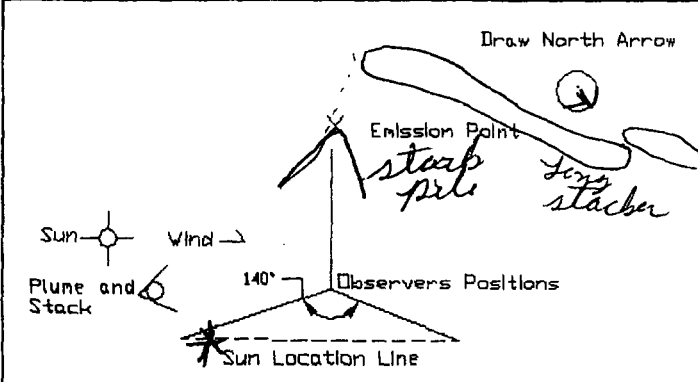
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START *Top of drop* STOP *same*

DESCRIBE BACKGROUND  
START *stack pile* STOP *same*

BACKGROUND COLOR START *gray* STOP *gray* SKY CONDITIONS START *cldy* STOP *cldy*

WIND SPEED START *0-2* STOP *0-2* WIND DIRECTION START *Vari* STOP *Vari*

AMBIENT TEMP: START *90* STOP *90* WET BULB TEMP *84* RH.percent *77*



OBSERVATION DATE		START TIME		STOP TIME	COMMENTS
<i>7-20-07</i>		<i>1111</i>		<i>1141</i>	
SEC MIN	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	
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	
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	
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26	0	0	0	0	
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29	0	0	0	0	
30	0	0	0	0	

COMMENTS

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

OBSERVER'S NAME (PRINT) *Rodney PAUL*

OBSERVER'S SIGNATURE *Rodney Paul* DATE *7-20-07*

ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

CERTIFIED BY *Whitlow* DATE *7-07*



SOURCE NAME  
*Palco*

ADDRESS  
*10272 AE 58<sup>th</sup> Ave*

CITY *Belleveur* STATE *FL* ZIP

PHONE *352-303-0069* SOURCE ID NUMBER

PROCESS EQUIPMENT *on Cat Motor Equip* OPERATING MODE

CONTROL EQUIPMENT OPERATING MODE

DESCRIBE EMISSION POINT  
START *Exhaust pipe* STOP *same*

HEIGHT ABOVE GROUND LEVEL START *15 1/2* STOP *15 1/2* HEIGHT RELATIVE TO OBSERVER START *10h* STOP *10h*

DISTANCE FROM OBSERVER START *30h* STOP *30h* DIRECTION FROM OBSERVER START *248°* STOP *248°*

DESCRIBE EMISSIONS  
START *clear* STOP *clear*

EMISSION COLOR START *clear* STOP *clear* PLUME TYPE: CONTINUOUS  FUGITIVE  INTERMITTENT

WATER DROPLETS PRESENT: NO  YES  IF WATER DROPLET PLUME: ATTACHED  DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START *End of pipe* STOP *same*

DESCRIBE BACKGROUND  
START *sky* STOP *sky*

BACKGROUND COLOR START *white* STOP *white* SKY CONDITIONS START *cloudy* STOP *cloudy*

WIND SPEED START *0-2* STOP *0-2* WIND DIRECTION START *Var* STOP *Var*

AMBIENT TEMP: START *87* STOP *87* WET BULB TEMP *82* RH. percent *81*

Draw North Arrow

The diagram shows a north arrow pointing up. An 'X' marks the 'Emission Point' with a box labeled 'cat motor for crusher'. A line labeled 'Plume and Stack' extends from the emission point. 'Observers Positions' are marked with a circle and 'X'. A 'Sun Location Line' is drawn at a 140-degree angle from the emission point. A wind arrow points to the right.

OBSERVATION DATE		START TIME		STOP TIME	COMMENTS
7-20-07		1011		1041	
SEC MIN	0	15	30	45	
1	00	00	00		
2	00	00	00		
3	00	00	00		
4	00	00	00		
5	00	00	00		
6	00	00	00		
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26	00	00	00		
27	00	00	00		
28	00	00	00		
29	00	00	00		
30	00	00	00		

COMMENTS  
*50-60 Dab in 10 hour days*  
*RC 610H F08365*

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS  
SIGNATURE

TITLE DATE

OBSERVER'S NAME (PRINT) *Rodney PAUL*

OBSERVER'S SIGNATURE *Rodney Paul* DATE *7-20-07*

ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

CERTIFIED BY *Whitlow* DATE *7-07*



SOURCE NAME  
*Patco*

ADDRESS  
*10272 E 58th Ave*

CITY *Belleview* STATE *FL* ZIP

PHONE *352-303-0069* SOURCE ID NUMBER

PROCESS EQUIPMENT *Rental* OPERATING MODE  
*Cat Motor*

CONTROL EQUIPMENT OPERATING MODE

DESCRIBE EMISSION POINT  
START *Exhaust Outlet* STOP *same*

HEIGHT ABOVE GROUND LEVEL START *7h* STOP *7h* HEIGHT RELATIVE TO OBSERVER START *2h* STOP *2h*

DISTANCE FROM OBSERVER START *25h* STOP *25h* DIRECTION FROM OBSERVER START *230°* STOP *230°*

DESCRIBE EMISSIONS  
START *clear* STOP *clear*

EMISSION COLOR START *clear* STOP *clear* PLUME TYPE: CONTINUOUS  FUGITIVE  INTERMITTENT

WATER DROPLETS PRESENT: NO  YES  IF WATER DROPLET PLUME: ATTACHED  DETACHED

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED  
START *Top of Den* STOP *same*

DESCRIBE BACKGROUND  
START *Equip* STOP *same*

BACKGROUND COLOR START *mc* STOP *mc* SKY CONDITIONS START *cldy* STOP *cldy*

WIND SPEED START *0-2* STOP *0-2* WIND DIRECTION START *Var* STOP *Var*

AMBIENT TEMP: START *93* STOP *93* WET BULB TEMP *85* RH.percent *72*

Draw North Arrow

The diagram shows a top-down view of the observation setup. At the top, an 'Emission Point' is marked with an 'X' and labeled 'Rental Den.'. Below it, a vertical line represents the 'Plume and Stack'. To the left, a sun symbol is labeled 'Sun' and a horizontal arrow is labeled 'Wind'. A dashed line from the sun to the emission point is labeled 'Sun Location Line'. At the bottom, two points are marked with 'X' and labeled 'Observers Positions', with a 140-degree angle indicated between the emission point and the observers.

OBSERVATION DATE		START TIME		STOP TIME	COMMENTS
7-20-07		1041		1111	
SEC MIN	0	15	30	45	
1	00	00	00	00	
2	00	00	00	00	
3	00	00	00	00	
4	00	00	00	00	
5	00	00	00	00	
6	00	00	00	00	
7	00	00	00	00	
8	00	00	00	00	
9	00	00	00	00	
10	00	00	00	00	
11	00	00	00	00	
12	00	00	00	00	
13	00	00	00	00	
14	00	00	00	00	
15	00	00	00	00	
16	00	00	00	00	
17	00	00	00	00	
18	00	00	00	00	
19	00	00	00	00	
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26	00	00	00	00	
27	00	00	00	00	
28	00	00	00	00	
29	00	00	00	00	
30	00	00	00	00	

COMMENTS  
*20 Subs in 10 hr day*  
*R 504 850*

OBSERVER'S NAME (PRINT)  
*Rodney PAUL*

OBSERVER'S SIGNATURE  
*Rodney Paul*

DATE  
*7-20-07*

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE

ORGANIZATION **KOGLER AND ASSOCIATES, INC.**

TITLE DATE

CERTIFIED BY *Whitlow* DATE *7-07*





Plant Operating Information

# Process Weight Rate

Owner: Patco  
Date: 7-20-07  
Source: Crusher operation  
Permit No.: \_\_\_\_\_  
Permitted Rate: \_\_\_\_\_

	Time		Input Rate
	From:	To:	
Run No. 1	From:	To:	
Run No. 2	From:	To:	
Run No. 3	From:	To:	
V.E.	From: <u>0941</u>	To: <u>1141</u>	<u>100 TPH</u>

To the best of my knowledge, the above data is true and correct.

  
Authorized Signature

\_\_\_\_\_  
Title



2/12/2007

LAKE SUMTER FUEL OIL INC 0000303863  
PO BOX 490778  
LEESBURG, FL 347490778

MSDS enclosed for:  
0281MAR019 Marathon No. 2 High Sulfur Diesel 5000 ppm Sulfur Max

Dear Customer:

Enclosed are Material Safety Data Sheets (MSDSs) for products you purchased from our company.

This information is being provided to you in compliance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and other state and federal worker "Right-To-Know" regulations. Employers in the U.S. are required to make these MSDSs available to their employees as part of their hazard communication program. If you resell products, this information needs to be passed along to your customers. If you are not directly involved with handling this MSDS information, please forward the MSDSs to the appropriate health and safety personnel in your company. Also enclosed is an "MSDS Explanation of Terms Sheet" that can assist you in understanding and communicating information contained on the MSDS.

In addition to providing you with the basic chemical, health and safety information of the products, the MSDS also contains information that is necessary to comply with various provisions of the EPA Superfund Amendments and Reauthorization Act also known as the SARA Title III Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR Part 370). Depending on local, state and federal regulations, MSDSs or lists of MSDSs are required to be submitted to your State Emergency Response Commission, the Local Emergency Planning Committee, and local fire department. In Section 15 of the MSDS, we have also provided information needed by certain manufacturers that report annual emissions of listed toxic chemicals at their facilities over applicable reporting thresholds, namely, the amounts and specific chemical components that are listed on EPA's Section 313 Toxic Chemical List (40 CFR Part 372).

Please keep these MSDSs for your files and provide photocopies to employees and/or customers as appropriate.

Sincerely

K. R. Ehrnsberger  
P.O. Box 71  
Findlay, Ohio 45839  
Telephone 419/421-3070  
Enclosures

## SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

**Boiling Point:** Temperature (or range) at a pressure of 760 mm Hg, at which the liquid changes to a vapor.  
**Melting Point:** Temperature (or range) at a pressure of 760 mm Hg, at which the solid changes to a liquid.  
**Specific Gravity:** Ratio of the weight of a volume of product to the weight of an equal volume of water at 39.2°F.  
**Solubility in Water:** Solubility of the product by weight in water at 50°F. Categories include: Negligible = <0.1%, Slight = 0.1-1.0%, Moderate = 1-10%, Appreciable = >10%, Complete.  
**Vapor Density:** Relative density or weight of a vapor or gas compared with an equal volume of air at ambient temperatures.  
**Vapor Pressure:** Pressure of saturated vapor above a liquid product in mm Hg.  
**pH:** Value given to represent the acidity or alkalinity of the product at the concentration specified. Strong acids give pHs of 1-3, while strong bases give pHs of 12-13. Water has a pH of 7.  
**VOC Content (%):** The percent of Volatile Organic Compounds present in the product. Petroleum hydrocarbons that have carbon chain lengths >12 have very low VOC concentrations (<1%).  
**Appearance:** Physical description of the product.  
**Odor:** Sensory characterization of the product.  
**Partition Coefficient (n-octanol/water):** This value is a laboratory measure of the partitioning of a chemical between octanol and water which is related to water solubility. Generally, hydrocarbon chains with few carbon atoms tend to have low partition coefficients. Chemicals or mixtures with Log Kow values >4 have negligible water solubility.

## SECTION 10 STABILITY & REACTIVITY

**Stability:** Indication if the product is stable or not stable under reasonably foreseeable conditions of storage or use. Conditions that could cause a dangerous reaction are listed.  
**Hazardous Decomposition Products:** Breakdown products that may be evolved when this material is subjected to heat or combustion.  
**Incompatible Materials:** Those materials or conditions that may cause the product to react violently, releasing large amounts of energy or toxic vapors.  
**Hazardous Polymerization:** Indication if the product has the potential to cause a reaction at a rate that releases large amounts of energy. Conditions that could cause a polymerization reaction are listed.

## SECTION 11 TOXICOLOGICAL INFORMATION

Significant positive toxicologic findings identified by research and/or animal testing. The biological significance of these tests as it relates to potential human health effects may not be known. However, these positive results are reported as required by the OSHA Federal Hazard Communication Standard.  
**Lethal Dose (LD<sub>50</sub>):** Single acute dose of the product which produces death in 50% of the animals tested.  
**Draize Irritation Index:** Empirical score used for grading the severity of eye and skin irritation in animal tests.  
**Sensitizer:** Substance which can produce an adverse reaction due to an allergy induced by prior exposure to the substance, mediated by antibodies and not dose related.

## SECTION 12 ECOLOGICAL INFORMATION

Known toxic effects to plants, animals and the environment if the product is spilled.

Acute Toxicity is typically expressed as Lethal Concentration (LC<sub>50</sub>), Effective Concentration (EC<sub>50</sub>) or Lethal Loading Rate (LL<sub>50</sub>) at which at least 50% of the population is killed or affected after a specified period of exposure. Chemicals are often tested as water accommodated fractions (WAF) in order to maximize the solubility of the test material in an aqueous solution.

## SECTION 13 DISPOSAL CONSIDERATIONS

Methods used for proper disposal of the product. These methods vary according to local, state and federal regulations.

## SECTION 14 TRANSPORTATION INFORMATION

This section provides basic Department of Transportation classification and/or description information to help a knowledgeable user ship a material within the United States or Canada.

## SECTION 15 REGULATORY INFORMATION

This section provides information on state and federal regulations that may affect the product's manufacture, use or distribution in commerce. Major regulations and/or laws that are covered include the OSHA Hazard Communication Standard, Superfund Amendments and Reauthorization Act (SARA Title III). This section does not address specific environmental regulations, i.e., RCRA and CERCLA or OSHA substance specific health standards.

## SECTION 16 OTHER INFORMATION

Any additional information that does not logically fit into any other section is provided here.



# Material Safety Data Sheet

MSDS ID NO.: 0281MAR019  
Revision date: 02/09/2007

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product name:** Marathon No. 2 High Sulfur Diesel 5000 ppm Sulfur Max  
**Synonym:** Diesel No. 2 500 ppm Sulfur Max; No. 2 Diesel, Motor Vehicle Use, Undyed; No. 2 Diesel 500 ppm Sulfur Max; No. 2 MV 500 Diesel; No. 2 Diesel (0.05% Sulfur Max); Speedway/SuperAmerica No. 2 Low Sulfur Diesel 500 ppm Sulfur Max  
**Chemical Family:** Petroleum Hydrocarbon  
**Formula:** Mixture

**Manufacturer:**  
Marathon Petroleum Company LLC  
539 South Main Street  
Findlay OH 45840

**Other information:** 419-421-3070  
**Emergency telephone number:** 877-627-5463

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

No. 2 Diesel is a complex mixture of paraffins, cycloparaffins, olefins, and aromatic hydrocarbons having hydrocarbon chain lengths predominately in the range of C11 through C20. Contains minor amounts of sulfur (<0.05%). May contain a trace amount of benzene (<0.01%). Can contain small amounts of dye and other additives (<0.15%) which are not considered hazardous at the concentrations used. Contains a small amount of a lubricity additive (<0.1%) which is not considered hazardous at the concentration used.

### Product information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Marathon No. 2 Diesel	68476-30-2	100	Skin - potential significant contribution to overall exposure by the cutaneous route = 100 mg/m <sup>3</sup> TWA		

### Component Information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Saturated Hydrocarbons	Mixture	54-85			
Aromatic Hydrocarbons	Mixture	15-45			
Unsaturated Hydrocarbons	Mixture	1-6			
Naphthalene	91-20-3	0.01-0.5	Skin - potential significant contribution to overall exposure by the cutaneous route = 10 ppm TWA = 15 ppm STEL	= 10 ppm TWA = 50 mg/m <sup>3</sup> TWA = 15 ppm STEL = 75 mg/m <sup>3</sup> STEL	

**EMERGENCY OVERVIEW**

NO. 2 DIESEL IS A RED COLORED LIQUID. NO. 2 DIESEL IS A COLORLESS LIQUID. THIS PRODUCT IS CONSIDERED TO BE A COMBUSTIBLE LIQUID PER THE OSHA HAZARD COMMUNICATION STANDARD AND SHOULD BE KEPT AWAY FROM HEAT, FLAME AND SOURCES OF IGNITION. NEVER SIPHON THIS PRODUCT BY MOUTH. IF SWALLOWED, THIS PRODUCT MAY GET SUCKED INTO THE LUNGS (ASPIRATED) AND CAUSE LUNG DAMAGE OR EVEN DEATH. PROLONGED OR REPEATED SKIN CONTACT CAN CAUSE DEFATTING AND DRYING OF THE SKIN WHICH MAY PRODUCE SEVERE IRRITATION OR DERMATITIS.

**OSHA WARNING LABEL:**

**WARNING.  
COMBUSTIBLE LIQUID.  
ASPIRATION (INADVERTENT SUCTION) OF LIQUID INTO THE LUNGS CAN PRODUCE CHEMICAL PNEUMONIA  
OR EVEN DEATH.  
PRODUCES SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.**

**CONSUMER WARNING LABEL:**

**A CONSUMER WARNING LABEL IS NOT APPLICABLE FOR THIS PRODUCT.**

- Inhalation:** Exposure to high vapor concentrations may produce headache, giddiness, vertigo, and anesthetic stupor.
- Ingestion:** Ingestion may result in nausea, vomiting, diarrhea and restlessness. Aspiration (inadvertent suction) of liquid into the lungs must be avoided as even small quantities in the lungs can produce chemical pneumonitis, pulmonary edema/hemorrhage and even death.
- Skin contact:** Prolonged and repeated liquid contact can cause defatting and drying of the skin and can lead to irritation and/or dermatitis.
- Eye contact:** Produces little or no irritation on direct contact with the eye.

**Carcinogenic Evaluation:**

**Product information:**

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Marathon No. 2 Diesel 68476-30-2	NE		A3 - Confirmed animal carcinogen with unknown relevance to humans (as total hydrocarbons)	

**Notes:** The International Agency for Research on Cancer (IARC) has determined that there is inadequate evidence for the carcinogenicity of diesel fuel/fuel oil in humans. IARC determined that there was limited evidence for the carcinogenicity of marine diesel fuel in animals. Distillate (light) diesel fuels were not classifiable as to their carcinogenicity to humans (Group 3A).

IARC has determined that there is sufficient evidence for the carcinogenicity in experimental animals of diesel engine exhaust and extracts of diesel engine exhaust particles. IARC determined that there is only limited evidence for the carcinogenicity in humans of diesel engine exhaust. However, IARC's overall evaluation has resulted in the IARC designation of diesel engine exhaust as probably carcinogenic to humans (Group 2A) because of the presence of certain engine exhaust components.

**Component Information:**

MSDS ID NO.: 0281MAR019

Product name: Marathon No. 2 High Sulfur Diesel  
5000 ppm Sulfur Max

Page 3 of 11

Reactivity: 1  
Other: -

Reactivity: 1  
Special: \*See Section 8 for guidance in selection of personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all ignition sources. Advise authorities and National Response Center (800-424-8802) if substance has entered a watercourse or sewer. Notify local health and pollution control agencies, if appropriate. Contain liquid with sand or soil. Recover and return free product to proper containers. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

## 7. HANDLING AND STORAGE

**Handling:** Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues.

Avoid repeated and prolonged skin contact. Never siphon this product by mouth. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

**Engineering measures:** Local or general exhaust required when using at elevated temperatures that generate vapors or mists.

**Respiratory protection:** Use approved organic vapor chemical cartridge or supplied air respirators when material produces vapors that exceed permissible limits or excessive vapors are generated. Observe respirator protection factor criteria cited in ANSI Z88.2. Self-contained breathing apparatus should be used for fire fighting.

**Skin and body protection:** Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride and polyurethane gloves to prevent skin contact.

**Eye protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields.

**Hygiene measures:** No special protective clothing is normally required. Select protective clothing depending on industrial operations. Use mechanical ventilation equipment that is explosion-proof.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear to Amber Liquid
<b>Physical state (Solid/Liquid/Gas):</b>	Liquid
<b>Substance type (Pure/Mixture):</b>	Mixture
<b>Color:</b>	Clear or Amber
<b>Odor:</b>	Slight Hydrocarbon
<b>Molecular weight:</b>	180
<b>pH:</b>	Neutral
<b>Boiling point/range (5-95%):</b>	400-640 F
<b>Melting point/range:</b>	Not determined.

MSDS ID NO.: 0281MAR019

Product name: Marathon No. 2 High Sulfur Diesel  
5000 ppm Sulfur Max

Page 5 of 11

Lifetime skin painting studies in animals with similar distillate fuels have produced weak to moderate carcinogenic activity following prolonged and repeated exposure. Similar middle distillates, when tested at nonirritating dose levels, did not show any significant carcinogenic activity indicating that this tumorigenic response is likely related to chronic irritation and not to dose. Repeated dermal application has produced severe irritation and systemic toxicity in subacute toxicity studies. Some components of this product, have been shown to produce a species specific, sex hormonal dependent kidney lesion in male rats from repeated oral or inhalation exposure. Subsequent research has shown that the kidney damage develops via the formation of a alpha-2μ-globulin, a mechanism unique to the male rat. Humans do not form alpha-2μ-globulin, therefore, the kidney effects resulting from this mechanism are not relevant in humans. Some components of this product were found to be positive in a few mutagenicity tests while negative in the majority of others. The exact relationship between these results and human health is not known.

#### Summary of health effect data on distillate fuel components:

This product may contain >0.1% naphthalene. Exposure to naphthalene at 30 ppm for two years caused lung tumors in female mice. Male mice with the same exposure did not develop tumors. Exposure to 10-60 ppm naphthalene for 2 years caused tumors in the tissue lining of the nose and respiratory tract in male and female rats. Oral administration of 133-267 mg/kg/day of naphthalene in mice for up to 90 days did not produce mortality, systemic toxicity, adversely affect organ or body weight or produce changes in blood. Repeated oral administration of naphthalene produced an anemia in dogs. Repeated intraperitoneal doses of naphthalene produced lung damage in mice. Repeated high doses of naphthalene has caused the formation of cataracts and retinotoxicity in the eyes of rats and rabbits due to accumulation of 1,2-naphthoquinone, a toxic metabolite. Effects in human eyes is uncertain and not well documented. Pregnant rats administered intraperitoneal doses of naphthalene during gestation gave birth to offspring that had delayed heart and bone development. Pregnant mice given near lethal doses of naphthalene showed no significant maternal toxicity and a reduction in the number of pups per litter, but no gross abnormalities in offspring. Suppressed spermatogenesis and progeny development have been reported in mice, rats and guinea pigs after exposure to high concentrations of naphthalene in their drinking water. Certain groups or individuals, i.e., infants, Semites, Arabs, Asians and Blacks, with a certain blood enzyme deficiency (glucose-6-phosphate dehydrogenase) are particularly susceptible to hemolytic agents and can rapidly develop hemolytic anemia and systemic poisoning from ingestion or inhalation of naphthalene.

#### Summary of health effect information on diesel engine exhaust:

Chronic inhalation studies of whole diesel engine exhaust in mice and rats produced a significant increase in lung tumors. Combustion of kerosine and/or diesel fuels produces gases and particulates which include carbon monoxide, carbon dioxide, oxides of nitrogen and/or sulfur and hydrocarbons. Significant exposure to carbon monoxide vapors decreases the oxygen carrying capacity of the blood and may cause tissue hypoxia via formation of carboxyhemoglobin.

## 2. ECOLOGICAL INFORMATION

#### Ecotoxicity effects:

Product can cause fouling of shoreline and may be harmful to aquatic life in low concentrations. The 96 hour LL50 values for an accomadated fraction (WAF) of fuel oil ranged from 3.2 to 65 mg/l in fish and 2-210 mg/l in invertebrates. EL50 values for inhibition of algal growth ranged from 1.8 to 2.9 mg/l for No. 2 fuel oil and from 10 to 78 mg/l for diesel fuel. This product does not concentrate or accumulate in the food chain. If released to soil and water, this product is expected to biodegrade under both aerobic and anaerobic conditions.

## 3. DISPOSAL CONSIDERATIONS

#### Cleanup Considerations:

This product as produced is not specifically listed as an EPA RCRA hazardous waste according to federal regulations (40 CFR 261). However, when discarded or disposed of, it may meet the criteria of an "characteristic" hazardous waste. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.



**SARA Section 311/312:**

The following EPA hazard categories apply to this product:

- Acute Health Hazard
- Fire Hazard
- Chronic Health Hazard

**SARA Section 313:**

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:
Saturated Hydrocarbons	None
Aromatic Hydrocarbons	None
Unsaturated Hydrocarbons	None
Naphthalene	= 0.1 % de minimis concentration

**State and Community Right-To-Know Regulations:**

The following component(s) of this material are identified on the regulatory lists below:

**Saturated Hydrocarbons**

- Louisiana Right-To-Know: Not Listed
- California Proposition 65: Not Listed
- New Jersey Right-To-Know: Not Listed.
- Pennsylvania Right-To-Know: Not Listed.
- Massachusetts Right-To Know: Not Listed.
- Florida substance List: Not Listed.
- Rhode Island Right-To-Know: Not Listed
- Michigan critical materials register list: Not Listed.
- Massachusetts Extraordinarily Hazardous Substances: Not Listed
- California - Regulated Carcinogens: Not Listed
- Pennsylvania RTK - Special Hazardous Substances: Not Listed
- New Jersey - Special Hazardous Substances: Not Listed
- New Jersey - Environmental Hazardous Substances List: Not Listed
- Illinois - Toxic Air Contaminants: Not Listed
- New York - Reporting of Releases Part 597 - List of Hazardous Substances: Not Listed

**Aromatic Hydrocarbons**

- Louisiana Right-To-Know: Not Listed
- California Proposition 65: Not Listed
- New Jersey Right-To-Know: Not Listed.
- Pennsylvania Right-To-Know: Not Listed.
- Massachusetts Right-To Know: Not Listed.
- Florida substance List: Not Listed.
- Rhode Island Right-To-Know: Not Listed
- Michigan critical materials register list: Not Listed.
- Massachusetts Extraordinarily Hazardous Substances: Not Listed
- California - Regulated Carcinogens: Not Listed
- Pennsylvania RTK - Special Hazardous Substances: Not Listed
- New Jersey - Special Hazardous Substances: Not Listed
- New Jersey - Environmental Hazardous Substances List: Not Listed
- Illinois - Toxic Air Contaminants: Not Listed
- New York - Reporting of Releases Part 597 - List of Hazardous Substances: Not Listed

**Unsaturated Hydrocarbons**

MSDS ID NO.: 0281MAR019

Product name: Marathon No. 2 High Sulfur Diesel  
5000 ppm Sulfur Max

The information and recommendations contained herein are based upon tests believed to be reliable. However, Marathon Petroleum Company LLC (MPC) does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. MPC assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

**End of Safety Data Sheet**

Louisiana Right-To-Know: Not Listed  
 California Proposition 65: Not Listed  
 New Jersey Right-To-Know: Not Listed.  
 Pennsylvania Right-To-Know: Not Listed.  
 Massachusetts Right-To Know: Not Listed.  
 Florida substance List: Not Listed.  
 Rhode Island Right-To-Know: Not Listed  
 Michigan critical materials register list: Not Listed.  
 Massachusetts Extraordinarily Hazardous Substances: Not Listed  
 California - Regulated Carcinogens: Not Listed  
 Pennsylvania RTK - Special Hazardous Substances: Not Listed  
 New Jersey - Special Hazardous Substances: Not Listed  
 New Jersey - Environmental Hazardous Substances List: Not Listed  
 Illinois - Toxic Air Contaminants Not Listed  
 New York - Reporting of Releases Part 597 - List of Hazardous Substances: Not Listed

**Naphthalene**

Louisiana Right-To-Know: Not Listed  
 California Proposition 65: Listed  
 New Jersey Right-To-Know: Listed  
 Pennsylvania Right-To-Know: Listed  
 Massachusetts Right-To Know: Listed  
 Florida substance List: Not Listed.  
 Rhode Island Right-To-Know: Listed  
 Michigan critical materials register list: Not Listed.  
 Massachusetts Extraordinarily Hazardous Substances: Not Listed  
 California - Regulated Carcinogens: Not Listed  
 Pennsylvania RTK - Special Hazardous Substances: Not Listed  
 New Jersey - Special Hazardous Substances: Not Listed  
 New Jersey - Environmental Hazardous Substances List: Listed  
 Illinois - Toxic Air Contaminants Listed  
 New York - Reporting of Releases Part 597 - List of Hazardous Substances: Listed

**Canadian Regulatory Information:**

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Naphthalene	B4, D2A	1 %

**16. OTHER INFORMATION**

**Additional Information:** No data available.

**Prepared by:** Craig M. Parker Manager, Toxicology and Product Safety

**14. TRANSPORT INFORMATION**

49 CFR 172.101:

**DOT:**

**Transport Information:** This material when transported via US commerce would be regulated by DOT Regulations.

**Proper shipping name:** Fuel Oil, No. 2  
**UN/Identification No:** NA 1993  
**Hazard Class:** 3  
**Packing group:** III  
**DOT reportable quantity (lbs):** Not applicable.

**TDG (Canada):**

**Proper shipping name:** Fuel Oil, No. 2  
**UN/Identification No:** NA 1993  
**Hazard Class:** 3  
**Packing group:** III  
**Regulated substances:** Not applicable.

**15. REGULATORY INFORMATION**

**Federal Regulatory Information:**

**US TSCA Chemical Inventory Section 8(b):** This product and/or its components are listed on the TSCA Chemical Inventory.

**OSHA Hazard Communication Standard:** This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication Standard.

**EPA Superfund Amendment & Reauthorization Act (SARA):**

**SARA Section 302:** This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Saturated Hydrocarbons	NA
Aromatic Hydrocarbons	NA
Unsaturated Hydrocarbons	NA
Naphthalene	NA

**SARA Section 304:**

This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Saturated Hydrocarbons	NA
Aromatic Hydrocarbons	NA
Unsaturated Hydrocarbons	NA
Naphthalene	= 0.454 kg final RQ = 1 lb final RQ = 100 lb final RQ = 45.4 kg final RQ

**Decomposition temperature:** Not applicable.  
**Specific gravity:** C.A. 0.8  
**Density:** 6.76 lbs/gal  
**Bulk density:** No data available.  
**Vapor density:** 4-5  
**Vapor pressure:** 1-10 mm Hg @ 100 F  
**Evaporation rate:** No data available.  
**Solubility:** Negligible  
**Solubility in other solvents:** No data available.  
**Partition coefficient (n-octanol/water):** No data available.  
**VOC content(%):** 10%  
**Viscosity:** 1.9-3.4 @ 40 C

**10. STABILITY AND REACTIVITY**

**Stability:** The material is stable at 70 F, 760 mm pressure.  
**Polymerization:** Will not occur.  
**Hazardous decomposition products:** Combustion produces carbon monoxide, aldehydes, aromatic and other hydrocarbons.  
**Materials to avoid:** Strong oxidizers such as nitrates, perchlorates, chlorine, fluorine.  
**Conditions to avoid:** Excessive heat, sources of ignition and open flames.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity:**

**Product information:**

Name	CAS Number	Inhalation:	Dermal:	Oral:
Marathon No. 2 Diesel	68476-30-2	No data available	No data available	No data available

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Naphthalene 91-20-3	Monograph 62, 2002	Reasonably Anticipated To Be A Carcinogen Listed	A4 - Not Classifiable as a Human Carcinogen	Present

**Notes:** The International Agency for Research on Cancer (IARC) and the Environmental Protection Agency (EPA) have determined that naphthalene could be a possible human carcinogen.

#### 4. FIRST AID MEASURES

**Inhalation:** If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician.

**Skin contact:** Wash with soap and large amounts of water. Remove contaminated clothing. If symptoms or irritation occur, call a physician.

**Ingestion:** If swallowed, do not induce vomiting and do not give liquids. Immediately call a physician.

**Eye contact:** Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms or irritation occur, call a physician.

**Medical conditions aggravated by exposure:** Pre-existing skin conditions and respiratory disorders may be aggravated by exposures to components of this product.

#### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** For small fires, Class B fire extinguishing media such as CO<sub>2</sub>, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFT/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

**Specific hazards:** This product has been determined to be a combustible liquid per the OSHA Hazard Communication Standard and should be handled accordingly. For additional fire related information, see NFPA 30 or the North American Emergency Response Guide 128.

**Special protective equipment for firefighters:** Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Keep run-off water out of sewers and water sources.

**Flash point:** 130-190 F

**Autoignition temperature:** 637 F

**Flammable limits in air - lower (%):** 0.7

**Flammable limits in air - upper (%):** 5.0

**NFPA rating:**  
Health: 1  
Flammability: 2

**HMIS classification:**  
Health: 1  
Flammability: 2

MSDS ID NO.: 0281MAR019

Product name: Marathon No. 2 High Sulfur Diesel  
5000 ppm Sulfur Max

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## EXPLANATION OF TERMS USED ON MARATHON OIL AND MARATHON ASHLAND PETROLEUM MATERIAL SAFETY DATA SHEETS

This sheet accompanies the Marathon Oil and Marathon Ashland Petroleum Material Safety Data Sheet and is designed to provide more detailed information on the terms commonly used. Frequently used abbreviations include: < for less than, > for greater than, C.A. for approximately, F for temperature given in ° Fahrenheit. Specific terms and abbreviations are explained below.

### SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name:** Most common name or name under which the product is marketed.  
**Synonyms:** Other common chemical or commercial names (aliases) that may be used to identify the product.  
**Chemical Family:** Generic classification or family in which the product belongs.  
**Chemical Formula:** Empirical chemical formula of the product.  
**MSDS Revision Date:** Date that information on the MSDS was significantly updated or changed.  
**Emergency Phone Numbers:** 24 hour emergency assistance numbers for use in event of accident or spill.

### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

**Product Information:** Provides general information on the product. The product's Chemical Abstract Service (CAS) Number is given if one is available. (Most mixtures will not have a product CAS Number.)  
**Components:** Major components and/or general composition description of the product. Minor components having potential toxicity, which were considered when evaluating the product, are given. CAS Numbers by which the components are uniquely identified are provided. Inclusion of a component is not necessarily based on hazard criteria.  
**Exposure Guidelines:** The established occupational health exposure limits for airborne concentrations of the product or components are indicated in parts per million (ppm) or milligrams contaminant per cubic meter air (mg/M3). When applicable, the TWA, Ceiling Limit or STEL of the product and the individual components are listed. The term TLV refers to Threshold Limit Value of which there are three categories. TWA is the time-weighted average concentration for a normal 8 hour workday and a 40 hour work week to which nearly all workers may be repeatedly exposed without adverse effect. STEL is a 15 minute time-weighted average short term exposure limit which should not be exceeded at any time during a workday and not repeated more than four times a day. A Ceiling limit is a concentration that should not be exceeded at any time during the work period.  
**Source of Exposure Limits:** Agencies or organizations responsible for the established exposure limits include: American Conference of Governmental Industrial Hygienists (ACGIH), the Occupational Safety and Health Administration (OSHA) or Marathon Oil Company's Corporate Limit.

### SECTION 3 HAZARDS IDENTIFICATION

**Emergency Overview:** Describes the material's appearance and a brief summary of the most significant information required for personnel handling the product. Also contains warning statements that are required to be present on product labels as defined by the OSHA Federal Hazard Communication Standard.  
**Potential Health Effects:** Possible changes in health, usually adverse, either confirmed or suspected, based on observations in humans, animal studies or by corollary with a similar substance. Other terms commonly encountered in this section include:  
**Acute Effects:** Abrupt, rapidly evident health effects due to single or short-term exposures usually at high levels or concentrations.  
**Chronic Effects:** Insidious, slowly evident health effects due to repeated or long-term exposures usually to lower levels or concentrations that produce acute effects.  
**Carcinogen Listing:** Refers to substances that had been evaluated by either the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety & Health Administration (OSHA) and have been determined to produce cancer in humans or suspected of producing cancer based on limited human observations or results from animal studies.

### SECTION 4 FIRST AID MEASURES

**Emergency First Aid Procedures:** Immediate care or treatment given to an exposed, ill or injured person usually at the scene of the incident, possibly by non-medically trained persons in an attempt to save lives, to prevent and/or retard further illness or injury.

### SECTION 5 FIRE FIGHTING MEASURES

**Flash Point:** Minimum temperature at which a liquid will give off enough flammable vapor to form an ignitable mixture with air.  
**Autoignition Temperature:** Lowest temperature at which the product will initiate self sustained combustion in the absence of a spark or flame.  
**Explosive Limits:** Lower and upper range of the gas or vapor concentration which will burn or explode if an ignition source is present.  
**Extinguishing Media:** Fire fighting agents that can be used to extinguish fires.  
**Special Fire Fighting Instructions:** Special procedures or unusual fire hazards that have been identified with this product.  
**NFPA Rating/SMIS Classification:** Flammability is rated by either the National Fire Protection Association (NFPA) or the Hazardous Material Identification System (SMIS) classification systems. Categories include: Highly Flammable = 4, Flammable = 3, Combustible = 2, Not Combustible = 1.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Precautions that should be taken to contain the spill, clean-up procedures, and if appropriate, emergency services agencies that need to be notified.

### SECTION 7 HANDLING AND STORAGE

Special precautions or conditions to avoid in handling and storage of the material.

### SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

This section provides additional industrial hygiene and other safe handling requirements that may be required under certain conditions and/or uses of the product. These procedures should be used in addition to good personal hygiene practices that should already be common practice in the workplace. Some of these practices include but are not limited to:

1. No smoking, eating or drinking in work areas.
2. Always wash before eating, smoking or using toilet facilities.
3. Wash hands thoroughly with soap and water after handling any chemicals or containers of chemicals.
4. Keep yourself and work area clean. Remove and launder soiled clothing before reuse.
5. Read and follow all safety precautions as outlined in the MSDS.

**Ventilation:** Type of exhaust ventilation equipment required.

**Respiratory, Eye & Skin Protection:** Type of protective equipment that is necessary for safe handling and use of the product.

**Notes:**

The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.



**Project Participants**



PROJECT PARTICIPANTS

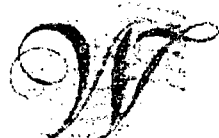
**Koogler & Associates, Inc.**

John B. Koogler, Ph.D., P.E. .... Project Advisor  
Steven L. Cloutier ..... Technical Manager  
Neil A. Lofgren, P.E ..... Project Engineer  
Rodney Paul ..... Field Technician

**PatCo, Inc.**

Happy Browning ..... Plant Manager





**Whitlow Enterprises, LLC**

[www.smokeschool.net](http://www.smokeschool.net)

**Certifies that**

**Rodney Paul of Koogler and Associates, Inc.**

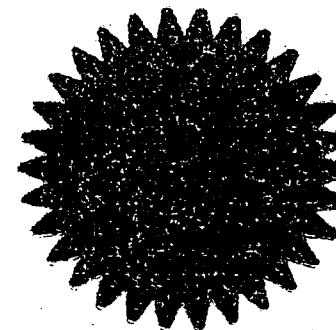
**Has met all of the requirements of EPA Reference Method 9 and 22  
And is qualified as a Visible Emissions Observer**

**Date: July 13, 2007**

**This certificate is valid for 6 months after the above date**

**George Artie "Butch" Whitlow**

**President**



**CREATIVE ENVIRONMENTAL SOLUTIONS, INC.**

Engineers - Environmental Scientists - Geologists  
 611 North Broad Street  
 Brooksville, FL 34601

**LETTER OF TRANSMITTAL**

(352) 796-3374 (352) 371-Fax

To: FDEP Central District Office  
Air Resources Management Program  
3319 Maguire Blvd., Suite 232  
Orlando, FL 32803

Attn: Ms. Wanda Parker-Gavin
Re: Permit No.: 7775166-001-AG
Patco , Inc. Portable Crusher, Belleview, Marion Countyx

- WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:
- Shop drawings     Prints     Plans     Samples     Specifications
- Copy of letter     Change Order     \_\_\_\_\_

Copies	Date	Description
2	9/2/07	Nonmetallic Mineral Processing Plant Air General Permit Registration Form Part II , with attachment.
1		Check \$100. Registration Fee
1		
1		
1		
1		

THESE ARE TRANSMITTED as checked below:

- For approval                       Approved as submitted                       Resubmit \_\_\_\_\_ copies for approval
- For your use                               Approved as noted                               Submit \_\_\_\_\_ copies for distribution
- As requested                               Returned for corrections                               Return \_\_\_\_\_ corrected prints
- For review and comment               \_\_\_\_\_
- FOR BIDS DUE \_\_\_\_\_                       PRINTS RETURNED AFTER LOAN TO US

Attached is the re-registration form for the above crusher. Delay in submittal as the unit has been non-operational preventing a VE test. Test results received Aug 20, 2007 and transmitted to your office separately

Copy To: Pat Fisher, Patco w/ attachment  
George Foster/CES w/ attachment

Signed: Frank Reynolds

*If enclosed are not as noted, kindly notify us at once.*

VISIBLE EMISSIONS  
OBSERVATIONS REPORT

**Portable Crushing Unit – Crusher 1**

**PatCo, Inc.**  
Coleman, Florida

Permit No. 7775166-001-AG

Test Date: July 20, 2007  
Report Date: August 20, 2007

*Koogler & Associates, Inc.*  
4014 N.W. 13th Street  
Gainesville, Florida 32609  
(352) 377-5822

591-07-03



To the best of my knowledge, all applicable field and analytical procedures comply with the Florida Department of Environmental Protection requirements and all test data and plant operating data are true and correct.

Neil A. Lofgren, P.E.  
Neil A. Lofgren, P.E.

State of Florida  
License No. 61744

August 20, 2007  
Date



## 1.0 INTRODUCTION

PatCo, Inc. owns and operates a portable crusher (Crusher 1) , currently located at 10272 South East 58<sup>th</sup> Avenue, Belleview, Marion County, Florida. On July 20, 2007, Koogler & Associates, Inc. of Gainesville, Florida conducted visible emissions observations on Crusher 1 in accordance with EPA Method 9 (40 CFR 60, Appendix A). The purpose of the testing was to demonstrate compliance with the emission limiting requirements of Rule 62-210.300(4)(c) 5, (F.A.C.) for nonmetallic mineral processing plants.

Prior to the test date, the Central District office of the Florida Department of Environmental Protection (FDEP) was notified of the test schedule and testing method.

During the period of testing, Crusher 1 was operating at approximately 100 tons per hour.

Visible emissions observations were conducted for 30-minute periods on eleven emission points on the crusher, screens and diesel engines. There were no visible emissions observed during the observation periods. Opacity is limited to less than 15 percent for the crusher and ten percent for transfer points on belt conveyors. The results of the visible emission observations are presented in Table 1.

Based on the data presented herein, it can be concluded that during the period of testing on July 20, 2007, Crusher 1 was operating in compliance with the requirements of a general permit.





Table 1  
 Visible Emission Observations  
 PatCo, Inc., Belleview, Florida  
 July 20, 2007

Emission Point	Point Name	Transfer Rate		Opacity	
		Design (TPH)	Tested (TPH)	Observed (%) (1)	Limit (%)
1	Shaker/Hopper	100	100	0	10
2	Crusher	100	100	0	15
3	Crusher Under belt	100	100	0	10
4	Screen	100	100	0	10
5	Screen Oversize Belt	100	100	0	10
6	Screen Under belt	100	100	0	10
7	Short Transfer Belt	100	100	0	10
8	Stacker Belt	100	100	0	10
9	Pile	100	100	0	10
10	Diesel Drive Engine	100	100	0	10
11	Diesel Generator Engine	100	100	0	10

(1) Highest six-minute rolling average opacity

PATCO TRANSPORT  
PO BOX 2829  
BELLEVUE, FL 34421



FDEP  
RECEIPTS  
PO BOX 3070  
TALLAHASSEE, FL  
32315-3070

ATTN: SANDY BOWMAN  
OR  
DICK DIBBLE