AG13-0001

## NONMETALLIC MINERAL PROCESSING PLANT (CRUSHER) AIR GENERAL PERMIT EXAMPLE REGISTRATION WORKSHEET

Facility Identification Number - If known (seven digit number)
- 7775758-001-AG
Registration Type
Check one:
INITIAL REGISTRATION - Notification of intent to:
Construct and operate a proposed new facility.
Operate an existing permitted 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). 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. (See "Surrender of Existing Air Operation Permit(s)" below.)
Operates an existing facility not currently permitted or using 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.
Any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.
Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only, if Applicable
All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general
permit; specifically permit number(s):
<u>N/A</u>
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.)  Middlesex Asphalt, LLC
Wildlesex Asprial, ECO
Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a
complete registration must be submitted for each.)
Inertia 4048 Crusher
Facility Location (Physical location of the facility, not necessarily the mailing address.)  Street Address: 10705 Cosmonaut Blvd.
City: Orlando County: Orange Zin Code: 32824
Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility.)
Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility.)
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Facility Contact	
Name and Position Title (Plant manager or person to be contained Print Name and Title: Mark Landry, Plant Manager	acted regarding day-to-day operations at the facility.)
Facility Contact Telephone Numbers  Telephone: 407-206-0077 x 282  Cell phone: E-mail: mlandry@middlesexco.com	Fax:
Facility Contact Mailing Address Organization/Firm: Middlesex Asphalt, LLC Mailing Address: 10801 Cosmonaut Blvd. City: Orlando	County: Orange Zip Code: 32824
Correspondence Contact/Representative (to serve as addi	tional Department contact)
Name and Position Title Print Name and Title: Mark Landry, Plant Manager	
Correspondence Contact/Representative Telephone Numbers Telephone: 407-206-0077 x 282 Cell phone: E-mail: mlandry@middlesexco.com	F <b>ax:</b>
Correspondence Contact/Representative Mailing Address Organization/Firm: Middlesex Asphalt, LLC Mailing Address: 10801 Cosmonaut Blvd. City: Orlando	County: Orange Zip Code: 32824_
Government Facility Code (check only one)	
Facility not owned or operated by a federal, state	, or local government.
Facility owned or operated by the federal govern	ment.
Facility owned or operated by the state.	
Facility owned or operated by the county.	
Facility owned or operated by the municipality.	
Facility owned or operated by a water manageme	ent district.

Check all  Main Remo Check the Feede Class  Emission U COMPONENT DESCRIPTION e.g. primary, second crusher, screener	Unit Details  MANUFACTURER	nent of roads, parking a s	reas, stock pile Application k Pile Height processing plan "Crusher"	Use Du	ast Suppressant Wind Breaks "Crusher"	
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and fuel type, etc.						,
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**Description of Facility** 

Below, or as an attachment to this worksheet, provide a description of the nonmetallic mineral processing plant 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 material(s) processed, all air pollutant-emitting processes, and identify any air pollution control measures used. Mobile source equipment information is not needed (eg.: trucks, bulldozers, front-end loaders, etc.)

The purpose of this application is to register for an initial AG permit for the Inertia 4048 RAP crusher. An AG is being requested for times the crusher is not located at the asphalt plant.

The facility meets the Eligibility Requirements specified in Rule 62-210.310(2), F.A.C.

The facility meets the fuel usage requirements specified in Rule 62-210.310(5)(e), F.A.C.

When equipment is not located at a mine or quarry, spray bars will be used at the feeder, entrance/exit of the crusher, screen, and conveyor drop points, per Rule 62-210.310(5)(e), F.A.C. Additional precautions used to prevent unconfined emissions is presented on Page 4 of this worksheet.

All affected equipment at the facility was manufactured Post-1983 and Post-2008; therefore, the affected facility is subject to 40 CFR 60, Subpart OOO. In addition, annual visible emissions compliance tests are prescribed in Rule 62-210.310(5)(e), F.A.C.

In addition, a copy of the visible emissions summary and field sheets for the crusher test conducted August 22, 2012 under Permit No. 0951259-010-AO is presented in Attachment 2

#### **Helpful Definitions:**

- "Capacity" Per 40 CFR 60.671, the cumulative rated capacity of all initial crushers that are part of the plant.
- "Department" or "DEP" The State of Florida Department of Environmental Protection.
- "Emissions Unit" Any part or activity of a facility that emits or has the potential to emit any air pollutant.
- "Facility" All of the emissions units which are located on one or more contiguous or adjacent properties, and which are under the control of the same person (or persons under common control).
- "Owner" or "Operator" Any person or entity who or which owns, leases, operates, controls or supervises an emissions unit or facility.
- "Nonmetallic Mineral Processing Plant" Per 40 CFR 60.671, any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants or any other facility processing nonmetallic minerals except as provided in 40 CFR §60.670 (b) and (c).
- "Relocatable Facility" A facility such as, but not limited to, an asphalt plant, portable power generator, or relocatable nonmetallic mineral processing plant, which is designed to be physically moved to, and operated on, different sites by being wholly or partially dismantled and re-erected in essentially the same configuration. It shall not be operable while in transit.
- "Screening Operation" Per 40 CFR 60.671, a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series and retaining oversize material on the mesh surfaces (screens). Grizzly feeders associated with truck dumping static (non-moving) grizzlies used anywhere in the nonmetallic mineral processing plant are considered to be screening operations.
- "Size" Per 40 CFR 60.671, the rated capacity in tons per hour of a crusher, grinding milk bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface of the top screen of a screening operation; the width of a conveyor belt; and the rated capacity in total surface of the top storage bin.
- "Unconfined Emissions" Emissions which escape and become airborne from unenclosed operations or which are emitted into the atmosphere without being conducted through a stack.



Florida Department of Environmental Protection – Receipts 3800 Commonwealth Blvd, MS-77 Tallahassee, Florida 32399

Re: Middlesex Asphalt, LLC

Orlando, Orange County, Florida

Request Initial Air General Permit (No ID)

To Whom It May Concern:

Please find enclosed an Air General Permit Worksheet and supporting attachments for the above referenced facility. In accordance with Rule 62-4.050, FAC, a \$100 processing fee in enclosed. The worksheet requests for an initial air general permit for an Inertia Crusher. The crusher was recently tested under Permit No. 0951259-010-AO. An air general permit is being requested for times the crusher is not located at the asphalt plant

Please provide written confirmation of the coverage under the Air General Permit to Koogler and Associates, Inc.

Thank you for your assistance. If you require additional information or have any questions regarding this permit registration, please contact me at 352.377.5822 or vsgr@kooglerassociates.com.

Best Regards,

Veronica N. Sgro, P.E.

KOOGLER AND ASSOCIATES, INC.

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**Enclosure** 

Cc: Mr. Mark Landry – Middlesex Asphlat, LLC (via EMAIL)

FINANCE & ACCOUNTING

ENVIRONMENTAL PROTECTIO

### Middlesex Asphalt, LLC - Nonmetallic Mineral Processing Plant NEW Facility (No ID assigned)

NEW Facility (No ID assigned)

Attachment 1: Equipment List

Affected Escilities Description

Affected Facility	Manufacturer	Date of Manufacture	Model Number	Identifier & Serial Number	Size (TPH, hp, k	Subject to 40 CFR Part 60 Subpart OOO Yes No		
Primary Crusher(s)	Inertia	Post-2008	4048	Impact Crusher	300	TPH	Х	
Screening Operation(s)	Inertia	Post-2008	Inertia Spec Maker 6' x 18'	2 Deck Screen	108	FT <sup>2</sup>	X	
Belt Conveyor(s)	Inertia	Post-2008	4048	Crusher Underbelt	42	IN.	X	
				Oversize	24	IN.	Х	
				Auxiliary	24	IN.	X	
				Oversize Return	24	IN.	х	
				Screen Underbelt	48 IN.		ж	
	Superior	2005		Stacker, SN 6137	30	IN.	X	
Hopper	Inertia	Post-2008	4048		136	FT <sup>2</sup>		X
Feeder	Inertia	Post-2008	4048	Vibrating Grizzly	64	FT <sup>2</sup>		X
Engine	John Deere			Diesel	300	HP		Х
Generator				480V-113 amp	125	KW		Х

#### Comments:

The hopper and feeder are not subject to 40 CFR 60, Subpart OOO. Per 40 CFR 60.672(d), truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 CFR 60, Subpart OOO. The feeder is not considered a screening operation per 40 CFR 60.671.

The engine and generator are not affected facility equipment per 40 CFR 60.670(a)(1).

Middlesex Asphalt, LLC – Nonmetallic Mineral Processing Plant NEW Facility (No ID assigned) Attachment 2: Visible Emission Observation Summary and Field Sheets

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DESCRIBE BACKGROUND START STOP	18		01	9	00	0				+
BACKGROUND GOLOR SKY CONDITIONS	15	. /	200	20	0	3	-			-
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ale ale		29 0000	
Sun Coco	tion Line	30 0000	li
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HAVE RECEIVED A COPY OF THE	SE OPACITY OBSERVATIONS	ORGANIZATION KOOGLER AND ASS	SOCIATES, INC.
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		Whitlaw	7-11-12



Meddlesex Asphalt L'LC	S-22-12 START TIME STOP TIME
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	10000
Orlando STATE 32824	30000
PHONE SOURCE ID NUMBER	40000
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Orlando	Florida	32824	3	0	0	0	9						
PHONE	SOURCE ID NUMBER	4	0	0	0	0	121						
321 - 282 - 9870 PROCESS EQUIPMENT	OPERATING MODE	5	0	0	8	9							
Oversized but to Robin	PA	8	0	C	0	0							
CONTROL EQUIPMENT	EQUIPMENT OPERATING MODE					0	0						
DESCRIBE EMISSION POINT		of 6 mob	8	0	Q	9	0						
	STOP to retary		9	0	0	0	0						
HEIGHT ABOVE GROUND LEVEL START STOP	START STO		10	0	9	0	0						
DISTANCE FROM OBSERVER						0	0						
START 85 STOP 85	245	11	0	9	0	Q							
START MONE	STOPPONL		13	0	0	0	0						
EMISSION COLOR START MONL STOP MONL	PLUME TYPE: COI		14	9	0	0	0	-		- Andrewson and			
WATER DROPLETS PRESENT:	IF WATER DROPLET	PLUME:	15	0	0	0	0	VIII.					
NO S YES D POINT IN THE PLUME AT WHICH O	2,224	16	0	0	0	9			-				
START ENDOLOUWS FOR PULL to top of yours he				0	0	0	0						
DESCRIBE BACKGROUND	108 4 b. H	,	17	a	0	0	0						
BACKGROUND COLOR	SKY CONDITIONS	-5-	19	0	0	0	0						
START Charle STOP Charles	START STO	PPC	20	O	0	0	0						
WIND SPEED STARTO STOP OF		PSE	21	0	0	0	0						
AMBIENT TEMP: START 90 STOP 90	WET BULB TEMP	RH.percent	22	0	0	0	0						
Asphart Crosher	i any		23	0	0	0	0						
Ple sone	Thro	w North Arrow	24	0	0	0	0						
Time Street	K Pout	0	25	0	0	0	0						
	K Enissian Point		26	0	0	0	0						
but	24	57	27	0	0	0	0	-					
Sun-O- Wind-		Wind	28	0	0	0	0						
Plune and 140'	Observers Positi		29	0	0	Q	0						
Sun Loca	tion line	ond	30		0	-	0						
COMMENTS	result white	0	BERVER	S NAME	(PRIN	n:Ry	an M	eyer					
							_		DATE	,			
			OBSERVER'S SIGNATURE DATE 122/12										
HAVE RECEIVED A COPY OF THE GRATURE	SE OPACITY OBSERVA	TIONS	RGANIZA	TION	000	LER	AND	ASSOC	HATES, IN				
TILE	DATE	C	ERTIFIED	BY: W	hitlo	w Ent	erpris	es	DATE: 7	/2012			

			CONTINUED ON VEO FORM NUMBER							
Middlesex Asphalt L	LC			RVATIO		Ē	START TIM	STOP TIME		
10705 Cosmonaut Blvd			SEC	0	15	30		CON	MENTS	
			1 2	0	0	0	0			-
Orlando	Florida	32824	4 3	0	0	0	0			
PHONE 321-282-7670	SOURCE ID NUMBER	4	0	Q	0	0				
Screen & Siven	OPERATING MODE		5	0	0	0	0	-		-
CONTROL EQUIPMENT	OPERATING MODE		7	0	0	0	0			
DESCRIBE EMISSION POINT START DO SOULCE	STOP inder but		8	0	0	0	0			
HEIGHT ABOVE GROUND LEVEL START STOP			9 10	0	0	0	0			
DISTANCE FROM OBSERVER START STOP	11	0	0	0	0					
DESCRIBE EMISSIONS START MONL	12	0	0	0	0			_		
EMISSION COLOR START NONL STOP NONE	13	0	0	0	0		-			
NO YES ATTACHED DETACHED				0	0	0	ω <u> </u>			
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START STOP CUTTOIN TO THE STOP CUTT				0	0	0	0			
START ASON ALL OILC	STOP SOME	-	18	0	0	0	0	-		
START ARM STOP ARM	START STO	PC	19	0	0	0	0			
START STOP 0-5	START OF STO	P 3E	21	0	0	0	0			
START ON STOP 90	83	75	22	0	0	0	0			
Asphalt	Julia Jana	North Arrow	23	0	0	0	0	-		
Wile Walky hall	X Enlaston Point	. 0	25	0	0	0	0			
S. Store	Sercent	Wind	26	0	0	0	0			-
sun-o- Vind->			27	0	0	0	0			
Plune and 140'	Disservers Positi	nd	29	0	0	0	0			
Sun Loc OMMENTS	ation Line		. Immorely	S NAME	(PRINT	Ry	an Meye	r		ا اسب
			OBSERVER'S SIGNATURE DATE							
HAVE RECEIVED A COPY OF THE IGNATURE	SE OPACITY OBSERVA	TIONS	DRGANIZA	TION	0000	LER	and ass	and another property and print to have	7 1	
TLE	DATE		CERTIFIED	BY:W	hitlo	w Ent	erprises	DAT	ne:7/201	2

		CONTINUED ON VEO FORM NUMBER	-
Middlese Address 10705 Cosmo	a Asphelt L'LC	DBSERVATION DATE	The real Party and Publishers and Pu
PHONE 32-7870 PROCESS EQUIPMENT CONTROL EQUIPMENT DESCRIBE EMISSION POINT START	STATE ZIP 32 82 4 SOURCE ID NUMBER OPERATING MODE OPERATING MODE STOP	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
HEIGHT ABOVE GROUND LEVEL START STOP  DISTANCE FROM OBSERVER START STOP  DESCRIBE EMISSIONS START	DIRECTION FROM OBSERVER	9 0 0 0 10 0 0 0 11 0 0 0 12 0 0 0	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T
EMISSION COLOR START STOP WATER DROPLETS PRESENT: NO 1 YES 1	PLUME TYPE: CONTINUOUS   FUGITIVE   INTERMITTENT   IF WATER DROPLET PLUME: ATTACHED   DETACHED	13 C C C C C C C C C C C C C C C C C C C	A 11 - 10 - 10 - 10 - 10 - 10 - 10 - 10
POINT IN THE PLUME AT WHICH START  DESCRIBE BACKGROUND START  BACKGROUND COLOR START  WIND SPEED STOP  AMBIENT TEMP START  STOP		16 C C C C C C C C C C C C C C C C C C C	
Sun-o- Vinol-1	Draw North Arrow  X Enisster-Rolnt  Under  Screen  Disservers Positions	23	
OMMENTS		OBSERVER'S NAME (PRIND) ROCINCY PAUL OBSERVER'S SIGNATURE ROCINCY Paul  DATE 22-12	
HAVE RECEIVED A COPY OF THE IGNATURE	SE OPACITY OBSERVATIONS	ORGANIZATION KOOGLER AND ASSOCIATES, INC.	
TLE .	DATE	CERTIFIED BY Let hitter 7-11-12	



#### Table 1

# Visible Emission Observations Middlesex Asphalt, LLC Orlando, Orange County, Florida EU 002 - Crushing System; Permit 0951259-011-AO Facility ID No. 09512559 August 22, 2012

		Transfer Rate		Opacity	
Emission	Point	Design	Tested	Observed	Limit
Point	Name	(TPH)	(ТРН)	(%) <sup>(1)</sup>	(%)
1	Hopper/Oversize Return Belt	330	250	0.0	10
2	Crusher	330	250	0.0	15
3	Crusher to Under Belt	330	250	0.0	15
4	Crusher Under Belt to Screen	330	250	0.0	10
5	Screen to Oversize Belt	330	250	0.0	10
6	Oversize Belt to Return Belt	330	250	0.0	10
7	Screen to Under Belt	330	250	0.0	10
8	Screen Underbeit to Stacker Belt	330	250	0.0	10
g	Auxillary Belt - Not in use/not tested	330	-		~ 10

(1) Highest six-minute rolling average opacity.

