

UPS NEXT DAY AIR

Tracking Number: A377 343 7334

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September 21, 2021

Tennessee Department of Environment and Conservation
Division of Air Pollution
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243

Subject: Operating Permit 063205P Renewal
Emission Source 87-0023-01
O-N Minerals (Luttrell) Company d/b/a Carmeuse Lime & Stone
486 Clinch Valley Road
Luttrell, Tennessee 37779

The O-N Minerals (Luttrell) Company d/b/a Carmeuse Lime & Stone is located at 486 Clinch Valley Road, Luttrell, Tennessee. Operations consist of both open pit and subsurface mining of limestone for the production of aggregate and various lime products. Limestone is transported from a surface pit and subsurface mine portal for further processing through crushing and screening operations.

The Site is operating under operating permit number 063205P (Permit) issued by the Tennessee Department of Environment and Conservation (TDEC) on February 1, 2012 with expiration of November 1, 2021. The Permit is related to fugitive emissions from crushing and screening operations as well as associated stockpiles and unpaved roadways. All other emission sources are covered by separate permits.

No major changes have occurred for this source since the last permit renewal. Carmeuse Lime & Stone wishes to renew the current operating permit.

Total Potential Annual Emissions and Average Annual Emissions of Particulate Matter (PM) for the crushing & screening operations, quarry stockpiles and unpaved roads are summarized in the tables below.

Table 1 – Potential Annual Emissions

Emission Type	PM (TPY)	PM ₁₀ (TPY)	PM _{2.5} (TPY)
Crushing & Screening Operations	39.82	21.04	14.33
Quarry Stockpiles	12.47	5.90	0.09
Unpaved Roads	16.02	4.56	4.56
Total	68.31	31.49	18.97

TDEC- DAP
O-N Minerals (Luttrell) Company d/b/a Carmeuse Lime & Stone
Operating Permit 065362P Renewal
Page 2
[DATE]

Enclosed with this letter are the following for renewal of the current Operating Permit 063205P:

- TDEC Form APC 100
- TDEC Form APC 101
- Emission calculations

If you have any questions, please do not hesitate to contact me at 205-601-7595 or Jackie.Padgett@carmeuse.com.

Sincerely,



Jackie Padgett
Senior Environmental Manager
Carmeuse Lime & Stone

Enclosure: Attachment A – APC Forms
Attachment B – Calculations

APC FORMS



DEPARTMENT OF ENVIRONMENT AND CONSERVATION
 DIVISION OF AIR POLLUTION CONTROL
 William R. Snodgrass Tennessee Tower
 312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243
 Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

APC 100

NON-TITLE V PERMIT APPLICATION FACILITY IDENTIFICATION

Type or print and submit. Attach appropriate source description forms.			
SITE INFORMATION			
1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)] O-N Minerals (Luttrell) Company - dba Carmeuse Lime & Stone			
2. Site name (if different from legal name) Same			
3. Is a construction permit application fee being submitted? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (see instructions for appropriate fee to submit)			
4. Site address (St./Rd./Hwy.) 486 Clinch Valley Road			County name Union
City Luttrell	Zip code 37779		5. NAICS or SIC code 1422
6. Site location (in lat. /long.)	Latitude 36 13' 12"	Longitude 83 43' 48"	
CONTACT INFORMATION (RESPONSIBLE PERSON)			
7. Responsible person/Authorized contact Ben Hopkins			Phone number with area code 865-230-8442
Mailing address (St./Rd./Hwy.) 486 Clinch Valley Road			Fax number with area code N/A
City Luttrell	State TN	Zip code 37779	Email address ben.hopkins@carmeuse.com
CONTACT INFORMATION (TECHNICAL)			
8. Principal technical contact Jackie Padgett			Phone number with area code 205-601-7595
Mailing address (St./Rd./Hwy.) P.O. Box 37			Fax number with area code N/A
City Saginaw	State AL	Zip code 35137	Email address jackie.padgett@carmeuse.com
CONTACT INFORMATION (BILLING)			
9. Billing contact Jackie Padgett			Phone number with area code 205-601-7595
Mailing address (St./Rd./Hwy.) P.O. Box 37			Fax number with area code N/A
City Saginaw	State AL	Zip code 35137	Email address jackie.padgett@carmeuse.com

AIR CONTAMINANT SOURCE(S) INFORMATION

10. Description of air contaminant source(s) and Unique Source ID(s). List, identify, and briefly describe process emission sources, fuel burning installations, and incinerators that are contained in this application and include a Unique Source ID for each source. The Unique Source ID is a name/number/letter, which uniquely identifies the air contaminant source(s), like Boiler #1, Paint Line #1, Engine #1, etc. (see instructions for more details)

Primary crushing, screening, and material handling for limestone with wet suppression controls for fugitive emissions.

11. Is the air contaminant source(s) in a nonattainment area? If "Yes", then minor source BACT must be addressed. Yes No

☐
☒

12. Normal operation:	Hours/Day 24	Days/Week 7	Weeks/Year 52	Days/Year 365
13. Percent annual throughput	Dec. – Feb. 25%	March – May 25%	June – August 25%	Sept. – Nov. 25%

TYPE OF PERMIT REQUESTED (check appropriate box)

14. Operating permit <input checked="" type="checkbox"/>	Date construction started	Date completed	Date of ownership change (if applicable) N/A
	Last permit number(s) 063205P		Emission Source Reference Number(s) 87-0023-01
Construction permit <input type="checkbox"/>	Last permit number(s)		Emission Source Reference Number(s)

If you chose Construction permit above, then choose either New Construction, Modification, or Location Transfer

New Construction <input type="checkbox"/>	Starting date	Completion date
Modification <input type="checkbox"/>	Date modification started or will start	Date completed or will complete
Location Transfer <input type="checkbox"/>	Transfer date	Address of last location

15. Describe changes that have been made to this equipment or operation(s) since the last construction or operating permit application:

There has been replacement of a conveyor and a sand screw, both of which TDEC was notified.

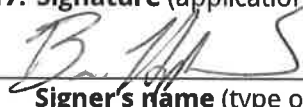
16. Comments

SIGNATURE

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

17. Signature (application must be signed before it will be processed)

Date



9/30/21

Signer's name (type or print)

Title

Phone number with area code

Ben Hopkins

Site Operations Manager

865-230-4842



DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243
Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

APC 101

**NON-TITLE V PERMIT APPLICATION
EMISSION POINT DESCRIPTION**

Type or print and submit for each stack or air contaminant source. Submit with the APC 100.

GENERAL IDENTIFICATION AND DESCRIPTION

1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)]

O-N Minerals (Luttrell) Company (dba Carmeuse Lime & Stone - Luttrell Operation) SOS: 000051154

2. Unique Source ID (name/number/letter which uniquely identifies this air contaminant source, like Boiler #1)

Primary & Secondary Crushing, Screening & Washing Operation, with Wet Suppression Control

3. Unique Emission Point ID (name/number/letter which uniquely identifies this emission point, like Stack #1)

87-0023-01

4. Brief description of air contaminant source (Attach a diagram if appropriate):

Primary crushing and material handling.

5. Emission point location

Latitude

36 13 36.49N

Longitude

83 42 50.13W

6. Distance to nearest property line (Ft.)

105.6 Ft

STACK AND EMISSION DATA

7. Stack or emission point data:
→

Height above grade (Ft.)

Various

Diameter (Ft.)
Fugitive

Temperature (°F)
Ambient

% of time over 125°F
0

Direction of exit (Up, down or horizontal)
Horizontal

Data at exit conditions:
→

Flow (actual Ft.³/Min.)
Fugitive

Velocity (Ft. /Sec.)
Fugitive

Moisture (Grains/Ft.³)
N/A

Moisture (Percent)
N/A

Data at standard conditions:
→

Flow (Dry std. Ft.³/Min.)
Fugitive

Velocity (Ft. /Sec.)
N/A

Moisture (Grains/Ft.³)
N/A

Moisture (Percent)
N/A

8. Monitoring device and recording instrument (check all that apply):

Opacity monitor
☐

SO₂ monitor
☐

NO_x monitor
☐

Strip chart
☐

Electronic data logger
☐

Other (specify in comments)
☐

No monitor (none)
☒

9. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).
Wet suppression control. Compliance can be determine through use of visible emissions.

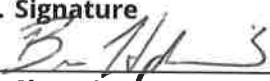
10. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)

Air contaminants	Average Emissions (Lbs./Hr.)	Maximum Emissions (Lbs./Hr.)	Concentration	Average Emissions (Ton/Yr.)	Potential Emissions (Ton/Yr.)	Emissions Estimation Method Code *	Control Devices *	Control Efficiency %
Particulate matter (PM)	15.51	15.51	**	68.31	68.31	3	061	50-75
Sulfur dioxide (SO ₂)			***					
Carbon monoxide (CO)			PPM					
Volatile organic compounds (VOC)			PPM					
Nitrogen oxides (NO _x)			PPM					
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)								
Lead (Pb)								
Greenhouse gases (CO ₂ equivalents)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify)								
Other (specify)								
Other (specify)								
Other (specify)								

11. Comments**SIGNATURE**

If this form is being submitted at the same time as an APC 100 form, then a signature is not required on this form. Date this form regardless of whether a signature is provided. If this form is NOT being submitted at the same time as an APC 100 form, then a signature is required.

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12. Signature**Date**


9/30/21

Signer's name (type or print)

Ben Hopkins

Title

Site Operations Manager

Phone number with area code

865-230-4842

- * Refer to the tables in the instructions for estimation method and control device codes.
- ** Exit gas particulate matter concentration units: Process – Grains/Dry Standard Ft³ (70°F), Wood fired boilers - Grains/Dry Standard Ft³ (70°F), all other boilers – Lbs. /Million BTU heat input.
- *** Exit gas sulfur dioxide concentrations units: Process – PPM by volume, dry bases, and boilers – Lbs. /Million BTU heat input



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APC 102

**NON-TITLE V PERMIT APPLICATION
 PROCESS OR FUEL BURNING SOURCE DESCRIPTION**

Type or print. Submit with the APC 100.			
GENERAL IDENTIFICATION AND DESCRIPTION			
1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)] O-N Minerals (Luttrell) Company dba Carmeuse Lime & Stone 000051154		2. Emission Source Reference Number 87-0023-01	
3. Is this air contaminant source subject to an NSPS or NESHAP rule? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, list rule citation, including Part, Subpart, and applicable Sections:			
4. Unique Source ID (see instructions) 87-0023-01		5. Unique Emission Point ID (see instructions)	
6. Description of air contaminant source Primary & Secondary Crushing, Washing & Screening Operation with Wet Suppression Control.			
7. Type of air contaminant source (Check only one option to the right)			
Process Emission Source: For each process emission source, submit a separate application. (Check at right and complete lines 8, 9, and 14)			<input checked="" type="checkbox"/>
Process Emission Source with in process fuel: Products of combustion contact materials heated. For each process emission source, submit a separate application. (Check at right and complete lines 8 through 14)			<input type="checkbox"/>
Non-Process fuel burning source: Products of combustion do not contact materials heated. Complete this form for each boiler or fuel burner and complete a Non-Title V Emission Point Description Form (APC 101) for each stack. (Check at right and complete lines 10 through 14)			<input type="checkbox"/>
PROCESS EMISSION SOURCE DESCRIPTION AND DATA			
8. Type of operation: Continuous <input checked="" type="checkbox"/> Batch <input type="checkbox"/>		Normal batch time	Normal batches/day
9. Process material inputs and In-process solid fuels	Diagram reference	Input rates (pounds/hour)	
		Design	Actual
A. Primary Crushing & Screening	SN001	1200 tons/hour	1200 tons/hour
B. Secondary Crushing & Screening	SN016	900 tons/hour	900 tons/hour
C. Tertiary Crushing & Screening	SN040	200 tons/hour	200 tons/hour
D.			
E.			
F.			
G.			
Totals			

* A simple process flow diagram must be attached.

DESCRIPTION OF BOILER, BURNER, ENGINE, OR OTHER FUEL BURNING SOURCE**10. Boiler or burner data:** (Complete lines 10 through 14 using a separate form for each boiler, burner, etc.)

Serial Number		Type of firing***	
Rated horsepower	Rated input capacity (10 ⁶ BTU/Hr.)	Other rating (specify capacity and units)	
Date constructed	Date manufactured	Date of last modification (explain in comments below)	

** Source with a common stack will have the same stack number.

*** Cyclone, spreader (with or without reinjection), pulverized (wet or dry bottom, with or without reinjection), other stoker (specify type, hand fired, automatic, or other type (describe below in comments)).

FUEL USED IN BOILER, BURNER, ENGINE, OR OTHER FUEL BURNING SOURCE**11. Fuel data:** (Complete for a process emission source with in process fuel or a non-process fuel burning source)

Primary fuel type (specify)				Standby fuel type(s) (specify)			
Fuels used	Annual usage	Hourly usage		% Sulfur	% Ash	BTU value of fuel	(For APC use only) SCC code
		Design	Average				
Natural gas:	10 ⁶ Cu. Ft.	Cu. Ft.	Cu. Ft.	//////// ////////	//// ////	1,000	
#2 Fuel oil:	10 ³ Gal.	Gal.	Gal.		//// ////		
#5 Fuel oil:	10 ³ Gal.	Gal.	Gal.		//// ////		
#6 Fuel oil:	10 ³ Gal.	Gal.	Gal.		//// ////		
Coal:	Tons	Lbs.	Lbs.				
Wood:	Tons	Lbs.	Lbs.	//////// ////////	//// ////		
Liquid propane:	10 ³ Gal.	Gal.	Gal.	//////// ////////	//// ////	85,000	
Other (specify type & units):							

12. If Wood is used as a fuel, specify types and estimate percent by weight of bark**13. If Wood is used with other fuels, specify percent by weight of wood charged to the burner.**

14. Comments**SIGNATURE**

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15. Signature**Date****Signer's name** (type or print)

Ben Hopkins

Title

Site Operations Manager

Phone number with area code

865-230-4842

EMISSION CALCULATIONS

Source List

Source Number*	Unit Description	Process Flow
001	Telesmith Primary Crusher (42X48 Pioneer)	to SN004 (18Belt)
002	Grizzly #1	to SN003 (Grizzly #2)
003	Grizzly #2	to SN004 (18Belt)
004	1 Belt	to SN005 (28Belt)
005	2 Belt	to SN006 (3Belt)
006	3 Belt	to SN007(Roadrock) and SN008 (chemical)
007	Roadrock	to SN009 (3Belt)
008	Chemical	to SN010 (3ABelt)
009	3 Belt	to SN011 (4Belt)
010	3A Belt	to SN011 (4Belt)
011	4 Belt	to SN012 (Near Screen) and SN013 (Far Screen)
012	Near Screen	- to SN014 (5ABelt), SN025(6Belt R), and SN026(6ABelt R) - combined with Far Screen and through Flop Gate and split between SN018(8BeltR) and SN019(8A Belt)
013	Far Screen	to SN015 (5Belt), SN025(6Belt R), and SN026(6ABelt R)
014	5A Belt	to SN015 (5Belt)
015	5 Belt	to SN016 (Allis)
016	Secondary Cone Crusher (Allis Chalmers 600 Cone)	to SN017(5B Belt)
017	5B Belt	to SN011 (4 Belt)
018	8 Belt R	to SN020 (7 Belt) and to SN041 (301 Belt)
019	8A Belt	to SN021 (8B Belt)
020	7 Belt	to SN023 (shed)
021	8B Belt	to SN022 (Radial Stacker)
022	Radial Stacker	to SN024 (Shed)
023	3/8 x 0 Shed	FINAL LOCATION
024	3/8 x 0 Shed	FINAL LOCATION
025	6 Belt R	- to SN041 (301 Belt) and split between SN027 (505 Belt) and SN047 (7A Belt); - through flop gate and split between SN033 (101 Belt) and SN034 (309 Belt)
026	6A Belt R	- to SN041 (301 Belt) and split between SN027 (505 Belt) and SN047 (7A Belt); - through flop gate and split between SN033 (101 Belt) and SN034 (309 Belt)
027	505 Belt	to SN028 (506 Belt)
028	506 Belt	through flop gate and split between SN029 (508 Belt) and SN030 (509 Belt)
029	508 Belt	to SN031 (Unit Train)
030	509 Belt	to SN032 (Unit Train)
031	Unit Train	FINAL LOCATION
032	Unit Train	FINAL LOCATION
033	101 Belt	to SN035 (102 Belt)
034	309 Belt	through SN040 (VSI) to SN041 (301 Belt)
035	102 Belt	through flop gate to SN036 (103 Belt) and SN038 (A Pile)
036	103 Belt	to SN037 (B Pile)
037	B Pile	FINAL LOCATION
038	A Pile	FINAL LOCATION
039	210-1-HP02 Loading	to SN041 (301 Belt)
040	Tertiary VSI Crusher	to SN041 (301 Belt)
041	301 Belt	to SN042 (Wash Screen)
042	Wash Screen	to SN043 (Sand Screw), SN045(302 Belt), SN056 (303A Belt), and SN051 (303 Belt)
043	Sand Screw	to SN044 (306 Radial)
044	306 Radial	to SN049 (Sand)
045	302 Belt	to SN046 (305 Belt) and SN053 (302A Belt)
046	305 Belt	to SN047 (7A Belt)
047	7A Belt	to SN048 (13A Belt)
048	13A Belt	to SN050 (FGD)
049	Sand	FINAL LOCATION
050	FGD	FINAL LOCATION
051	303 Belt	through Diverter Gate to SN052 (308 Belt) and SN054 (304 Belt)
052	308 Belt	to SN058 (Drainfield Stone)
053	302A Belt	to SN054 (304 Belt) and SN056 (307 Belt)
054	304 Belt	to feed through flop gate at SN033 (101 Belt) and SN034 (309 Belt)
055	303A Belt	to SN056 (307 Belt)
056	307 Belt	to 57's
057	57's	FINAL LOCATION
058	Drainfield Stone	FINAL LOCATION

*Source #s are linked labels on ACAD drawing

Emissions Summary

Carmeuse Lime - Luttrell Operation

**Primary & Secondary Crusher, Screening & Washing Operation and
associated Material Handling**

Emissions Source	Total PM (tpy)	PM ₁₀ (tpy)	PM _{2.5} (tpy)
Crushing & Screening Operations	39.82	21.04	14.33
Quarry Stockpiles	12.47	5.90	0.09
Unpaved Roads	16.02	4.56	4.56
TOTAL	68.31	31.49	18.97

Fug PM Emissions

Source Number	Emission Unit Description	Material Information		PM Emission Factor (lb/ton)	PM ₁₀ Emission Factor (lb/ton)	PM _{2.5} Emission Factor (lb/ton)	Emission Factor Reference	Number of Transfer Points	Control Type	PM Emissions (tons/year)	PM ₁₀ Emissions (tons/year)	PM _{2.5} Emissions (tons/year)
		Material Type	Tons/Yr									
001	Tenneco Primary Crusher (27848 P)	Limestone	5256000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
002	Grizzly #1	Limestone	5256000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
003	Grizzly #2	Limestone	5256000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
004	1A Belt	Limestone	5256000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
004A	1B Belt	Limestone	5256000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
005	2 Belt	Limestone	5256000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
006	3 Belt	Limestone	5256000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
009	3A Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
010	4 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
011	Neer Screen	Limestone	3066000	0.0022	0.00074	0.00005	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	3.3726	1.13442	0.07866
012	Far Screen	Limestone	3066000	0.0022	0.00074	0.00005	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	3.3726	1.13442	0.07866
013	5A Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
014	5 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
015	Secondary Cone Crusher (426 Chd)	Limestone	3066000	0.0013	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
017	5B Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
018	6 Belt R	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
019	8A Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
020	7 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
021	8B Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
025	6 Belt R	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
026	6A Belt R	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
027	505 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
028	506 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
029	508 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
030	509 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
033	101 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
034	309 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
035	102 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
036	103 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
039	210-1-HP02 Loading	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
040	Tenneco VSI Crusher	Limestone	3066000	0.0013	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
041	301 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
042	Wash Screen	Limestone	3066000	0.0036	0.0022	0.0022	AP-42, 5th Ed., Sec. 13.2.4, 1/95	1	Water	5.5186	3.3726	3.3726
043	Sand Screw	Limestone	3066000	0.0036	0.0022	0.0022	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	5.5186	3.3726	3.3726
044	306 Radial	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
045	302 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
046	305 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
047	7A Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
048	13A Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
051	303 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
052	308 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
053	302A Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
054	304 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
055	303A Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
056	307 Belt	Limestone	3066000	0.0004	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
TOTAL EMISSIONS										39.61858	21.041682	14.328951

Legend

GRIZZLY
SCREEN/SIZING
DROP POINT

Fug PM Emissions

Source Number	Emission Unit Description	Material Information		PM Emission Factor (lb/ton)	PM ₁₀ Emission Factor (lb/ton)	PM _{2.5} Emission Factor (lb/ton)	Emission Factor Reference	Number of Transfer Points	Control Type	PM Emissions (tons/year)	PM ₁₀ Emissions (tons/year)	PM _{2.5} Emissions (tons/year)
		Material Type	Tons/Yr									
004	1A Belt	Limestone	5256000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
004A	1B Belt	Limestone	5256000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
005	2 Belt	Limestone	5256000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
006	3 Belt	Limestone	5256000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
009	3 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034164
010	3A Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
011	4 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
014	5A Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
015	5 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
017	5B Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
018	6 Belt R	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
019	8A Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
020	7 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
021	8B Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
025	5 Belt R	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
026	6A Belt R	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
027	505 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
028	506 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
029	508 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
030	509 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
033	101 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
034	309 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
035	102 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
036	103 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
039	210-1-HPD2 Loading	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
041	301 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
044	306 Radial	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
045	302 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
046	305 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
047	7A Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
048	13A Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
051	303 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
052	308 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
053	302A Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
054	304 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
055	303A Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
056	307 Belt	Limestone	3066000	0.00014	0.00046	0.00013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.21462	0.070518	0.019929
TOTAL EMISSIONS										8.55414	2.870646	0.794313

Legend
SCREENING
SCREENSIZING
DROP POINT

1.953

Fug PM Emissions

Source Number	Emission Unit Description	Material Information		PM Emission Factor (lb/ton)	PM ₁₀ Emission Factor (lb/ton)	PM _{2.5} Emission Factor (lb/ton)	Emission Factor Reference	Number of Transfer Points	Control Type	PM Emissions (tons/year)	PM ₁₀ Emissions (tons/year)	PM _{2.5} Emissions (tons/year)
		Material Type	Tons/Yr									
002	Grizzly #1	Limestone	5256000	0.00014	0.000048	0.000013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034184
003	Grizzly #2	Limestone	5256000	0.00014	0.000048	0.000013	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	0.36792	0.120888	0.034184
012	Near Screen	Limestone	3066000	0.0022	0.00074	0.00005	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	3.3728	1.13442	0.07065
013	Far Screen	Limestone	3066000	0.0022	0.00074	0.00005	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	3.3728	1.13442	0.07065
042	Wash Screen	Limestone	3066000	0.0036	0.0022	0.0022	AP-42, 5th Ed., Sec. 13.2.4, 1995	1	Water	5.5188	3.3728	3.3728
043	Sand Screw	Limestone	3066000	0.0036	0.0022	0.0022	AP-42, 5th Ed., Sec. 11.19.2-2, 2004	1	Water	5.5188	3.3728	3.3728
TOTAL EMISSIONS										18.51864	9.255816	6.968828

Legend

(Limestone)
SCREEN/SIZING
DROP POINT

4.228

Quarry Stockpiles

Emission Point	Emission Unit Description	Comment	Moisture Content ¹ (%)	Mean Wind Speed ² (mph)	Annual Hours of Operation	Annual Production (tons/yr)	PM Emission Factor (lb/ton) ₂	PM ₁₀ Emission Factor (lb/ton) ₂	PM _{2.5} Emission Factor (lb/ton) ₂	PM Emissions (tons/year)	PM ₁₀ Emissions (tons/year)	PM _{2.5} Emissions (tons/year)
007	Roadrock	to SN009 (38Belt)	4.8	4.1	8,760	5256000	0.000537086	0.000254027	3.8467E-06	1.41	0.67	0.010
008	Chemical	to SN010 (3ABelt)	4.8	4.1	8,760	5256000	0.000537086	0.000254027	3.8467E-06	1.41	0.67	0.010
022	Radial Stacker	to SN024 (Shed)	4.8	4.1	8,760	5256000	0.000537086	0.000254027	3.8467E-06	1.41	0.67	0.010
023	3/8 x 0 Shed	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
024	3/8 x 0 Shed	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
031	Unit Train	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
032	Unit Train	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
037	B Pile	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
038	A Pile	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
049	Sand	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
050	FGD	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
057	57's	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
058	Drainfield Stone	FINAL LOCATION	4.8	4.1	8,760	3066000	0.000537086	0.000254027	3.8467E-06	0.82	0.39	0.006
TOTAL EMISSIONS										12.47	5.90	0.09

$$E = k(0.0032) \left(\frac{U}{5}\right)^{1.3} / \left(\frac{M}{2}\right)^{1.4} \quad \text{Eq. 1}$$

Where:

E = Emission factor (lbs/ton)

k = Particle size multiplier (PM 0.74; PM₁₀ 0.35; PM_{2.5} 0.053)

U = Mean wind speed (mile per hour)

M = Material moisture content (%)

¹ Max moisture range due to water suppression control (AP-42 Chapter 13, pg 13.2.4-4)

² Average wind speed from Oak Ridge, TN (<http://hwf.ncdc.noaa.gov/oa/climate/online/cod/avgwvnd.html>)

³ From Equation 1 AP-42 Chapter 13, pg 13.2.4-4 ; A rating

Unpaved Roads

Material Hauled	Annual Material Throughput (tons)	Total Miles (roundtrip)	Mean Vehicle Weight (tons)	Surface Material Silt Content (%) (s) ¹	Surface Material Moisture Content (%) (M)	Mean Vehicle Speed (MPH) (S)	VT (miles/year)	PM Emission Factor (lb/VT)	PM ₁₀ Emission Factor (lb/VT)	PM _{2.5} Emission Factor (lb/VT)	Control Efficiency (%) ²	PM Emissions (tons/year)	PM ₁₀ Emissions (tons/year)	PM _{2.5} Emissions (tons/year)
Limestone Aggregate	5,256,000	0.15	124.5	8.3	1	15	6,333	20.24	5.76	0.58	75%	16.0225927	4.5562479	0.4556248
TOTAL EMISSIONS												16.02	4.55625	0.45562

¹ AP-42 Chapter 13 TBL 13.2.2-1

² AP-42 Chapter 13 Figure 13.2.2-2

$$E = k \left(\frac{s}{12} \right)^a \left(\frac{W}{3} \right)^b$$

Where:

Equation 1a (Industrial Roads)

E =

size specific emission factor (lb/VT)

k =

Particle size multiplier (PM 4.9; PM₁₀ 1.5; PM_{2.5} 0.15)

s =

Surface silt content (%)

a =

Particle size multiplier (PM 0.7; PM₁₀ 0.9; PM_{2.5} 0.9)

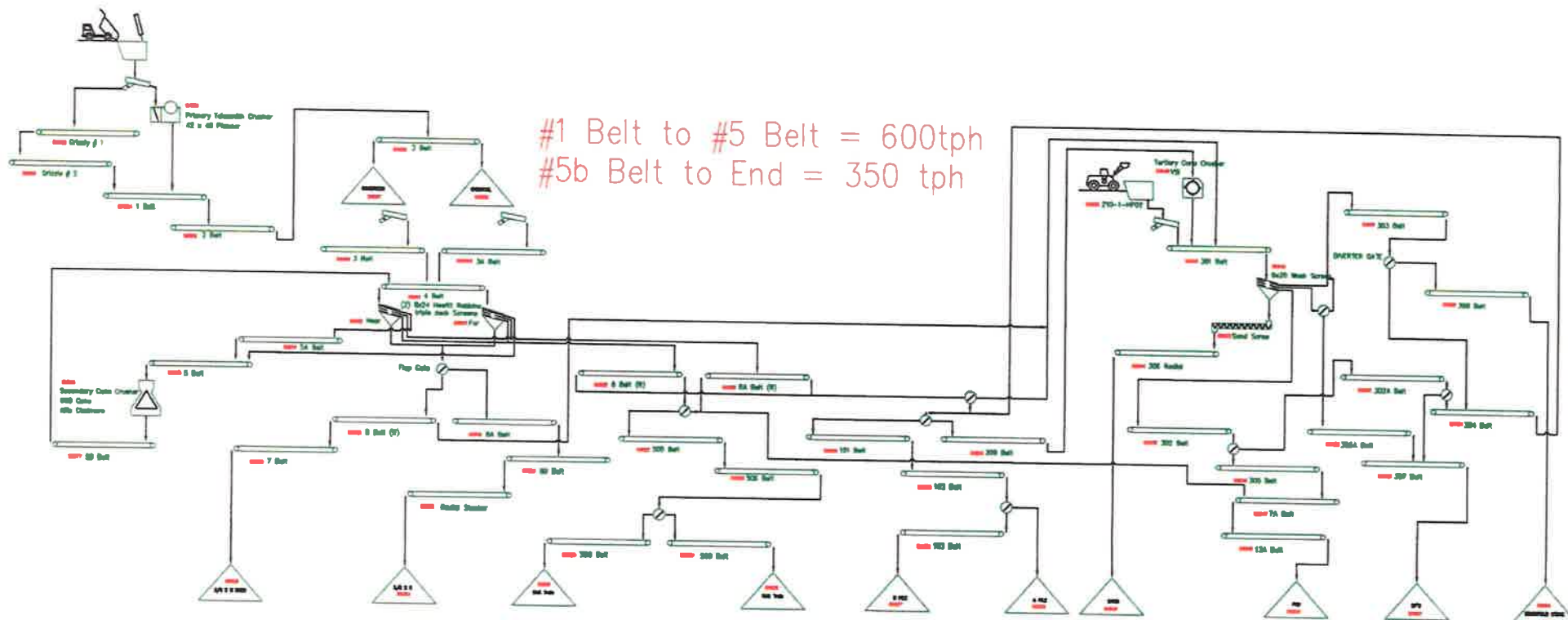
W =

Mean vehicle weight (tons)

b =

Particle size multiplier (PM 0.45; PM₁₀ 0.45; PM_{2.5} 0.45)

Appendix C – Process Drawings



#1 Belt to #5 Belt = 600tph
#5b Belt to End = 350 tph

APC RCV0

5 OCT 2021 AM 11:15

UPS NEXT DAY AIR

Tracking Number: A377 343 7334

September 21, 2021

]

Tennessee Department of Environment and Conservation
Division of Air Pollution
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor
Nashville, TN 37243

Subject: Operating Permit 065362P Renewal
Emission Source 87-0023-07
O-N Minerals (Luttrell) Company d/b/a Carmeuse Lime & Stone
486 Clinch Valley Road
Luttrell, Tennessee 37779

The O-N Minerals (Luttrell) Company d/b/a Carmeuse Lime & Stone is located at 486 Clinch Valley Road, Luttrell, Tennessee. Operations consist of both open pit and subsurface mining of limestone for the production of aggregate and various lime products. Limestone is transported from a surface pit and subsurface mine portal via haul trucks on unpaved haul roads. Additionally, material stockpiles onsite include both finished products and coproducts.

The Site is operating under operating permit number 065362P (Permit) issued by the Tennessee Department of Environment and Conservation (TDEC) on April 20, 2012 with expiration of November 1, 2021. The Permit is related to fugitive emissions from mine operation haul roads and stockpiles. All other emission sources are covered by separate permits.

No major changes have occurred for this source since the last permit renewal. Carmeuse Lime & Stone wishes to renew the current operating permit.

Total Potential Annual Emissions and Average Annual Emissions of Particulate Matter (PM) for the stockpiles and haul roads are summarized in the tables below.

Table 1 – Potential Annual Emissions

Emission Type	PM (TPY)	PM ₁₀ (TPY)	PM _{2.5} (TPY)
Stockpiles	15.74	7.87	1.18
Haul Roads	54.28	15.43	1.40
Total	70.02	23.31	2.58

Table 2 – Average Annual Emissions

Emission Type	PM (TPY)	PM ₁₀ (TPY)	PM _{2.5} (TPY)
Stockpiles	15.74	7.87	1.18
Haul Roads	24.42	6.95	0.63
Total	40.17	14.82	0.63

Enclosed with this letter are the following for renewal of the current Operating Permit 065362P:

- TDEC Form APC 100
- TDEC Form APC 101
- Emission calculations

If you have any questions, please do not hesitate to contact me at 205-664-7129 or Jackie.Padgett@carmeuse.com.

Sincerely,


Jackie Padgett
Senior Environmental Manager
Carmeuse Lime & Stone

Enclosure: Attachment A – APC Forms
Attachment B – Calculations

APC FORMS



DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 15th Floor, Nashville, TN 37243
Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

APC 100

**NON-TITLE V PERMIT APPLICATION
FACILITY IDENTIFICATION**

Type or print and submit. Attach appropriate source description forms.			
SITE INFORMATION			
1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)] O-N Minerals (Luttrell) Company - dba Carmeuse Lime & Stone SOS: 000051154			
2. Site name (if different from legal name) Same			
3. Is a construction permit application fee being submitted? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (see instructions for appropriate fee to submit)			
4. Site address (St./Rd./Hwy.) 486 Clinch Valley Road			County name Union
City Luttrell	Zip code 37779		5. NAICS or SIC code 1422
6. Site location (in lat. /long.)	Latitude 36 13' 12"	Longitude 83 43' 48"	
CONTACT INFORMATION (RESPONSIBLE PERSON)			
7. Responsible person/Authorized contact Ben Hopkins			Phone number with area code 865-230-4842
Mailing address (St./Rd./Hwy.) 486 Clinch Valley Road			Fax number with area code N/A
City Luttrell	State TN	Zip code 37779	Email address ben.hopkins@carmeuse.com
CONTACT INFORMATION (TECHNICAL)			
8. Principal technical contact Jackie Padgett			Phone number with area code 205-601-7595
Mailing address (St./Rd./Hwy.) P.O. Box 37			Fax number with area code N/A
City Saginaw	State AL	Zip code 35137	Email address jackie.padgett@carmeuse.com
CONTACT INFORMATION (BILLING)			
9. Billing contact Jackie Padgett			Phone number with area code 205-601-7595
Mailing address (St./Rd./Hwy.) P.O. Box 37			Fax number with area code N/A
City Saginaw	State AL	Zip code 35137	Email address jackie.padgett@carmeuse.com

AIR CONTAMINANT SOURCE(S) INFORMATION

10. Description of air contaminant source(s) and Unique Source ID(s). List, identify, and briefly describe process emission sources, fuel burning installations, and incinerators that are contained in this application and include a Unique Source ID for each source. The Unique Source ID is a name/number/letter, which uniquely identifies the air contaminant source(s), like Boiler #1, Paint Line #1, Engine #1, etc. (see instructions for more details)

The Luttrell Operation consists of both open pit and subsurface mining of limestone for the production of aggregate and various lime products. This permit renewal is specifically for the Operating Permit Number 065362P related to fugitive emissions from mine operation haul roads and stockpiles of materials. All other emission sources are covered by separate permits.

11. Is the air contaminant source(s) in a nonattainment area? If "Yes", then minor source BACT must be addressed. Yes No

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12. Normal operation:	Hours/Day 24	Days/Week 7	Weeks/Year 52	Days/Year 365
13. Percent annual throughput	Dec. – Feb. 25%	March – May 25%	June – August 25%	Sept. – Nov. 25%

TYPE OF PERMIT REQUESTED (check appropriate box)

14. Operating permit <input checked="" type="checkbox"/>	Date construction started	Date completed	Date of ownership change (if applicable) N/A
	Last permit number(s) 065362P		Emission Source Reference Number(s) 87-0023-01
Construction permit <input type="checkbox"/>	Last permit number(s)		Emission Source Reference Number(s)

If you chose Construction permit above, then choose either New Construction, Modification, or Location Transfer

New Construction <input type="checkbox"/>	Starting date	Completion date
Modification <input type="checkbox"/>	Date modification started or will start	Date completed or will complete
Location Transfer <input type="checkbox"/>	Transfer date	Address of last location

15. Describe changes that have been made to this equipment or operation(s) since the last construction or operating permit application:

None.

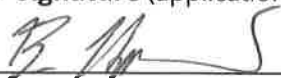
16. Comments

SIGNATURE

Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

17. Signature (application must be signed before it will be processed)

Date



9/30/21

Signer's name (type or print)

Title

Phone number with area code

Ben Hopkins

Site Operations Manager

865-230-4842



**NON-TITLE V PERMIT APPLICATION
EMISSION POINT DESCRIPTION**

Type or print and submit for each stack or air contaminant source. Submit with the APC 100.												
GENERAL IDENTIFICATION AND DESCRIPTION												
1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)] O-N Minerals (Luttrell) Company (dba Carmeuse Lime & Stone - Luttrell Operation) SOS: 000051154												
2. Unique Source ID (name/number/letter which uniquely identifies this air contaminant source, like Boiler #1) 87-0023-07 - Haul Roads												
3. Unique Emission Point ID (name/number/letter which uniquely identifies this emission point, like Stack #1) None - Fugitive												
4. Brief description of air contaminant source (Attach a diagram if appropriate): Limestone is transported from the surface pit and mine portal via haul trucks on unpaved haul roads.												
5. Emission point location	Latitude 36 13 36.49N	Longitude 83 42 50.13W	6. Distance to nearest property line (Ft.) Approximately 105 Ft									
STACK AND EMISSION DATA												
7. Stack or emission point data: →	Height above grade (Ft.) Various	Diameter (Ft.) Fugitive	Temperature (°F) Ambient	% of time over 125°F 0	Direction of exit (Up, down or horizontal) Horizontal							
Data at exit conditions: →	Flow (actual Ft. ³ /Min.) Fugitive	Velocity (Ft. /Sec.) Fugitive	Moisture (Grains/Ft. ³) N/A	Moisture (Percent) N/A								
Data at standard conditions: →	Flow (Dry std. Ft. ³ /Min.) Fugitive	Velocity (Ft. /Sec.) N/A	Moisture (Grains/Ft. ³) N/A	Moisture (Percent) N/A								
8. Monitoring device and recording instrument (check all that apply): <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Opacity monitor <input type="checkbox"/></td> <td style="text-align: center;">SO₂ monitor <input type="checkbox"/></td> <td style="text-align: center;">NO_x monitor <input type="checkbox"/></td> <td style="text-align: center;">Strip chart <input type="checkbox"/></td> <td style="text-align: center;">Electronic data logger <input type="checkbox"/></td> <td style="text-align: center;">Other (specify in comments) <input type="checkbox"/></td> <td style="text-align: center;">No monitor (none) <input checked="" type="checkbox"/></td> </tr> </table>						Opacity monitor <input type="checkbox"/>	SO ₂ monitor <input type="checkbox"/>	NO _x monitor <input type="checkbox"/>	Strip chart <input type="checkbox"/>	Electronic data logger <input type="checkbox"/>	Other (specify in comments) <input type="checkbox"/>	No monitor (none) <input checked="" type="checkbox"/>
Opacity monitor <input type="checkbox"/>	SO ₂ monitor <input type="checkbox"/>	NO _x monitor <input type="checkbox"/>	Strip chart <input type="checkbox"/>	Electronic data logger <input type="checkbox"/>	Other (specify in comments) <input type="checkbox"/>	No monitor (none) <input checked="" type="checkbox"/>						
9. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.). As required by the current operating permit, wet suppression control is used on haul roads.												

10. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)

Air contaminants	Average Emissions (Lbs./Hr.)	Maximum Emissions (Lbs./Hr.)	Concentration	Average Emissions (Ton/Yr.)	Potential Emissions (Ton/Yr.)	Emissions Estimation Method Code *	Control Devices *	Control Efficiency %
Particulate matter (PM)	2.79 E-03	6.20 E-03	**	24.42	54.28	3	061	55
Sulfur dioxide (SO ₂)			***					
Carbon monoxide (CO)			PPM					
Volatile organic compounds (VOC)			PPM					
Nitrogen oxides (NO _x)			PPM					
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)								
Lead (Pb)								
Greenhouse gases (CO ₂ equivalents)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify) PM 10	7.93 E-04	1.76 E-03		6.95	15.43	3	061	55
Other (specify) PM 2.5	7.21 E-05	1.60 E-04		0.63	1.40	3	061	55
Other (specify)								
Other (specify)								

11. Comments**SIGNATURE**

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12. Signature**Date**

9/30/21

Signer's name (type or print)**Title****Phone number with area code**

Ben Hopkins

Site Operations Manager

865-230-4842

- * Refer to the tables in the instructions for estimation method and control device codes.
- ** Exit gas particulate matter concentration units: Process – Grains/Dry Standard Ft³ (70°F), Wood fired boilers - Grains/Dry Standard Ft³ (70°F), all other boilers – Lbs. /Million BTU heat input.
- *** Exit gas sulfur dioxide concentrations units: Process – PPM by volume, dry bases, and boilers – Lbs. /Million BTU heat input



**NON-TITLE V PERMIT APPLICATION
EMISSION POINT DESCRIPTION**

Type or print and submit for each stack or air contaminant source. Submit with the APC 100.												
GENERAL IDENTIFICATION AND DESCRIPTION												
1. Organization's legal name and SOS control number [as registered with the TN Secretary of State (SOS)] O-N Minerals (Luttrell) Company (dba Carmeuse Lime & Stone - Luttrell Operation) SOS: 000051154												
2. Unique Source ID (name/number/letter which uniquely identifies this air contaminant source, like Boiler #1) 87-0023-07 - Stockpiles												
3. Unique Emission Point ID (name/number/letter which uniquely identifies this emission point, like Stack #1) None - Fugitive												
4. Brief description of air contaminant source (Attach a diagram if appropriate): Material stockpiles include both finished products and coproducts. The wind erosion emissions from the stockpiles are fugitive.												
5. Emission point location	Latitude 36 13 36.49N	Longitude 83 42 50.13W	6. Distance to nearest property line (Ft.) Approximately 105 Ft									
STACK AND EMISSION DATA												
7. Stack or emission point data: →	Height above grade (Ft.) Various	Diameter (Ft.) Fugitive	Temperature (°F) Ambient	% of time over 125°F 0	Direction of exit (Up, down or horizontal) Horizontal							
Data at exit conditions: →	Flow (actual Ft. ³ /Min.) Fugitive	Velocity (Ft. /Sec.) Fugitive	Moisture (Grains/Ft. ³) N/A		Moisture (Percent) N/A							
Data at standard conditions: →	Flow (Dry std. Ft. ³ /Min.) Fugitive	Velocity (Ft. /Sec.) N/A	Moisture (Grains/Ft. ³) N/A		Moisture (Percent) N/A							
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9. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.). There is no control equipment in place.												

10. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)

Air contaminants	Average Emissions (Lbs./Hr.)	Maximum Emissions (Lbs./Hr.)	Concentration	Average Emissions (Ton/Yr.)	Potential Emissions (Ton/Yr.)	Emissions Estimation Method Code *	Control Devices *	Control Efficiency %
Particulate matter (PM)	1.80 E-03	1.80 E-03	**	15.74	15.74	3	000	NA
Sulfur dioxide (SO ₂)			***					
Carbon monoxide (CO)			PPM					
Volatile organic compounds (VOC)			PPM					
Nitrogen oxides (NO _x)			PPM					
Hydrogen fluoride (HF)								
Hydrogen chloride (HCl)								
Lead (Pb)								
Greenhouse gases (CO ₂ equivalents)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Hazardous air pollutant (specify)								
Other (specify) PM 10	8.99 E-04	8.99 E-04		7.87	7.87	3	000	NA
Other (specify) PM 2.5	1.35 E-04	1.35 E-04		1.18	1.18	3	000	NA
Other (specify)								
Other (specify)								

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Ben Hopkins

Site Operations Manager

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- *** Exit gas sulfur dioxide concentrations units: Process – PPM by volume, dry bases, and boilers – Lbs. /Million BTU heat input



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