## AIR COMPLIANCE ANALYSIS SUMMARY SHEET

COMPANY/FA LOCATION (C PERMIT NUM	OUNTY):	Vulcan Construction Materials, L Eutawville (Orangeburg) 1860-0165	D	ourg Quarry ATE: EVIEWED BY:	11/14/23 VMG
REQUEST:	OPEF OPEF PERM	STRUCTION PERMIT RATING PERMIT – NEW RATING PERMIT – RENEWAL MIT - MODIFICATION COMPLIANCE DEMO		STATE PERMI CONDITIONA GENERAL CM TITLE V PERM PSD MAJOR	L MAJOR
ANALYSIS:	TOXI Y EXEN	IENT AIR QUALITY STANDARDS C AIR POLLUTANTS MPTION		_ PSD INCREM _ DE MINIMIS _ DEFERRAL	
OTHER:	EXPE	DITED	N		O(Y or N)

**PROJECT DESCRIPTION:** The facility has submitted a construction permit application to install a new portable crushed and broken granite mining and quarrying operation. The portable plant will include one (1) grizzly feeder/truck unloading operation, three (3) crushers, two (2) screens and four (4) conveyors. The control device for each emission point ID is wet suppression (WS).

**SUMMARY OF ANALYSIS & RESULTS:** synTerra Science and Engineering Consultants submitted the application on behalf of the facility.

<u>Standard 2</u>: All of the equipment is exempt because the controlled  $PM_{10}/PM_{2.5}$  emission rate for each emission point is less than 1.14 lb/hr.

<u>Standard 7</u>: Since this is not a PSD project, no Standard 7 analysis is required.

Standard 8: No toxic air pollutants were reported in the construction permit application.

STANDARD NO. 2 AND 7– EXEMPTED AMBIENT AIR QUALITY STANDARDS EMISSION RATES (LB/HR)						
Emission Point ID	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NOx	СО	Lead
C1-P	0.0103	0.0029				
C2-P	0.0081	0.0023				
С3-Р	0.0161	0.0045				
C4-P	0.0046	0.0013				
PC1-P	0.3240	0.0600				
PC2-P	0.1890	0.0350				
PC3-P	0.0675	0.0125				
S1-P	0.4440	0.0300				
S2-P	0.2590	0.0175				
TU-1	0.0008	0.0001				
FACILITY TOTAL	1.3234	0.1660				

EMISSION POINT DESCRIPTIVE INFORMATION				
Emission Point ID	Source Identification & Description	Date Installed (Modified)	Status	Other
С1-Р	225 TPH Conveyor Stacker #1 w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	
С2-Р	175 TPH Conveyor Stacker #2 w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	
С3-Р	350 TPH Conveyor Stacker #3 w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	
С4-Р	100 TPH Conveyor Stacker #4 w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	
E-1	300hp (223.71 kW) Tier 3/Stage IIIA Engine	2023	Exempt Std 2,7,8:Internal Combustion Engine considered portable, "non-road" engine	
PC1-P	Portable 600 TPH Crusher #1 w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	
PC2-P	Portable 350 TPH Crusher #2 w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	
РСЗ-Р	Portable 125 TPH Crusher #3 w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	
S1-P	Portable 600 TPH Screen #1 w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	
S2-P	Portable 350 TPH Screen #2 w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	
TU-1	600 TPH Grizzly/Truck Unloading w/ Wet Suppression	2023	Exempt Std 2: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr	

HISTORY				
Date	Ву	Reason	Description	
11/14/23	VMG	C/P	<ul> <li><u>Standard 2</u>: All of the equipment is exempt because the controlled PM<sub>10</sub>/PM<sub>2.5</sub> emission rate for each emission point is less than 1.14 lb/hr.</li> <li><u>Standard 7</u>: Since this is not a PSD project, no Standard 7 analysis is required.</li> <li><u>Standard 8</u>: toxic air pollutants were reported in the construction permit application.</li> </ul>	