



**STATEMENT OF BASIS**  
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 BAQ Engineering Services Division

<b>Company Name:</b>	Winnsboro Crushed Stone LLC	<b>Permit Writer:</b>	Mareesa Singleton
<b>Permit Number:</b>	1000-0038-CA	<b>Date:</b>	March 3, 2015

**DATE APPLICATION RECEIVED:** August 21, 2014

**FACILITY DESCRIPTION:** Crushed Stone Processing Plant

**PROJECT DESCRIPTION:** New crushed stone processing plant capable of crushing 800 tons per hour from the primary crusher. The facility will consist of four crushers (primary, secondary, tertiary, and quaternary or fines), four material screens, twenty-three conveyors, ten storage piles, and a truck loading operation.

**SOURCE TEST REQUIREMENTS** Crushers CR1 - CR4, Conveyors C1 – C23, and Screens S1 – S4 are subject to an initial source test in accordance with 40 CFR 60 Subpart OOO.

**EMISSIONS**

Pollutant	FACILITY WIDE EMISSIONS*	
	Uncontrolled Emissions	Controlled/Limited Emissions
	TPY	TPY
PM	774.88	58.28
PM <sub>10</sub>	248.44	20.44
PM <sub>2.5</sub>	32.70	2.59
SO <sub>2</sub>	0.041	---
NO <sub>x</sub>	0.62	---
CO	0.13	---
VOC	0.05	---

\* Includes emissions from the 80 hp exempt de-watering diesel pump. The pump is only used when the water level in the pit is too high for operations, i.e. initial drilling, rain, etc. Based upon available water, the pump will operate a maximum of 500 hours per year.

**OPERATING PERMIT STATUS:** The facility will be issued a new conditional major operating permit. The facility is requesting federally enforceable limits of less than 100 TPY of PM<sub>10</sub> for Title V avoidance and less than 250 TPY of PM for PSD avoidance.

**REGULATORY APPLICABILITY REVIEW**

Regulation	Comments/Periodic Monitoring Requirements
Section II.E - Synthetic Minor	This is synthetic minor construction permit. The facility is requesting federally enforceable limits of less than 100 TPY for PM <sub>10</sub> for Title V avoidance and less than 250 TPY of PM for PSD avoidance.
Standard No. 4	- Section VIII: From June 15, 1999 guidance, a process includes all process emission units and/or group of process units used to make a finished identifiable output. It was determined that this facility is one process defined as aggregate processing consisting of all of the equipment with a finished identifiable output of crushed stone. The allowable PM emission rate is 74.74 lb/hr. - Section IX: IDs 01 and 02 are subject to 20% opacity - Section X: The facility is subject to this section for all non-enclosed operations.
Standard No. 7	The facility is requesting a PSD avoidance limit of less than 250 TPY of PM.
61-62.6	The fugitive PM (Dust) emissions are controlled in a manner that should not produce undesirable levels of PM (Dust) emissions by using wet suppression.
40 CFR 60 and 61-62.60	The facility is subject to Subparts A and OOO. Crushers CR1 - CR4, Conveyors C1 – C23, and Screens S1 – S4 are subject to an initial source test in accordance with 40 CFR 60 Subpart OOO. They are also subject to emission limits, recordkeeping, and reporting as outlined in the Subpart.

**MODELING REVIEW**

Regulation	Comments/Periodic Monitoring Requirements
Standard No. 2	This facility has demonstrated compliance through air dispersion modeling; see summary dated November 7, 2014. There are no modeling restrictions.



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Regulation	Comments/Periodic Monitoring Requirements
Standard No. 7.c	There are no baselines established for PM <sub>10</sub> in Fairfield County.
Standard No. 8 (state only)	TAPs from virgin fuel are exempt.

**PUBLIC NOTICE**

This construction permit will undergo a 30-day public notice period to establish synthetic minor limits in accordance with SC Regulation 61-62.1, Section II(N). This permit(s) was placed in *The Herald-Independent* and *The Independent Voice* on October 17, 2014. The comment period was open from October 17, 2014 to December 4, 2014 and was placed on the BAQ website during that time period. Comments were received during the comment period.

**ADDITIONAL PUBLIC PARTICIPATION**

- Winnsboro Crushed Stone, LLC Citizen Meeting on June 26, 2014.
- Winnsboro Crushed Stone, LLC Citizen Meeting on October 2014.
- BLWM and BAQ joint Public Meeting and Hearing on November 20, 2014. All comments are addressed in the response to comments document.
- Permit Changes:
  1. Modified 40 CFR 60 Subpart OOO conditions to read verbatim from the regulations
  2. Added the following to the wet suppression Permit condition D.12:  
 “When unfavorable metrological conditions (i.e., dry and very windy) create particulate matter emissions from the operation that exceed opacity limits, the owner or operator shall cease operation until the conditions have ceded or additional controls (e.g., extra water sprays, wind screens) have been added that bring the emissions to compliant levels.”
  3. Added the following requirement to the fugitive dust control plan Permit Condition D.11:
    - a. All water used for wet suppression will be clarified by recirculation or it will be a clean source of water.
    - b. The facility shall remind truck drivers of their responsibility and encourage them to comply with SC Code of Laws Sections 56-5-4100 and 56-5-4110 (which requires haul trucks transporting aggregate from all quarries to prevent the escape of materials loaded onto the vehicles) with signage located along the exit road.
    - c. The facility shall asphalt pave from Rockton Thruway to the scales and 100 feet on the approach to the scales from the direction of the processing plant. The remainder of the access road (approximately 2,100 feet) shall be paved with crushed stone. Roads interior to the plant and product stockpile area shall be paved with crushed stone.
  4. Changed reporting in Permit Condition D.11 from “The plan shall be developed within 180 days from the issue date of this permit and submitted to the Department for approval.” to “The plan shall be developed and submitted to the Department for approval 90 days prior to the start of operations.”
  5. Revised the modeling on November 7, 2014.
  6. Updated the modeling condition and the modeling Attachment.

**SUMMARY AND CONCLUSIONS**

It has been determined that this source, if operated in accordance with the submitted application, will meet all applicable requirements and emission standards.