



December 8, 2025

Mr. Steve McCaslin
Director, Engineering Services Division
Bureau of Air Quality
SC DHEC
2600 Bull Street
Columbia, South Carolina, 29201

SUBJECT: **Heidelberg Materials Southeast Aggregates, LLC - Manning Quarry
Columbia, SC
Construction Permit Application**

Dear Mr. McCaslin:

Heidelberg Materials Southeast Aggregates, LLC (Heidelberg), proposes to install the Manning Quarry in Columbia, SC. Heidelberg plans to install a temporary, portable plant that will include one (1) grizzly feeder, three (3) crushers, three (3) screens, one (1) material splitter, one (1) feeder, forty (40) conveyors, and three (3) surge bins. The proposed equipment is discussed in detail below.

Proposed Equipment:

Unit ID	Equipment Description	Equipment ID	Capacity (TPH)	Emission Control System
01 Stone Crushing	Crusher 1	CR1	1400	Wet Suppression (WS)
	Crusher 2	CR2	1200	WS
	Crusher 3	CR3	1100	WS
02 Stone Conveying	Conveyor 1	C1	1300	WS
	Conveyor 2	C2	1300	Water Carry Over (WCO)
	Conveyor 3	C3	1300	WCO
	Conveyor 4	C4	1300	WS
	Conveyor 5	C5	1650	WCO
	Conveyor 6	C6	1050	WS
	Conveyor 7	C7	1050	WS
	Conveyor 8	C8	1050	WCO
	Conveyor 9	C9	1050	WCO

	Conveyor 10	C10	1050	WCO
	Conveyor 11	C11	1200	WCO
	Conveyor 12	C12	1200	WCO
	Conveyor 13	C13	1200	WS
	Conveyor 14	C14	1200	WS
	Conveyor 15	C15	1050	WS
	Conveyor 16	C16	1100	WCO
	Conveyor 17	C17	1100	WCO
	Conveyor 18	C18	1100	WS
	Conveyor 19	C19	1100	WS
	Conveyor 20	C20	1050	WS
	Conveyor 21	C21	1050	WCO
	Conveyor 22	C22	1050	WS
	Conveyor 23	C23	1050	WCO
	Conveyor 24	C24	1050	WS
	Conveyor 25	C25	1050	WCO
	Conveyor 26	C26	1050	WS
	Conveyor 27	C27	1050	WCO
	Conveyor 28	C28	1450	WCO
	Conveyor 29	C29	1450	WCO
	Conveyor 36	C36	1050	WP
	Conveyor 37	C37	1050	WP
	Conveyor 40	C40	950	WCO
	Surge Bin 1	B1	1200	WCO
	Surge Bin 2	B2	1100	WCO
	Surge Bin 3	B3	950	WCO
03 Stone Screening	Grizzly Feeder 1	GR1	1300	WS
	Screen 1	S1	1650	WS
	Screen 2	S2	1600	WCO
	Feeder 1	F1	1300	WS
04 Stone Washing	Screen 3	S3	1450	Wash Plant (WP)
	Material Splitter	MS1	1450	WP
	Conveyor 30	C30	1450	WP
	Conveyor 31	C31	1450	WP
	Conveyor 32	C32	1450	WP

	Conveyor 33	C33	1450	WP
	Conveyor 34	C34	1450	WP
	Conveyor 35	C35	1450	WP
	Conveyor 38	C38	1450	WP
	Conveyor 39	C39	1050	WP

The proposed total emissions for the quarry operations are as follows:

Pollutant	Proposed Potential Uncontrolled		Proposed Potential Controlled	
	(PPH)	(TPY)	(PPH)	(TPY)
TSP	253.62	1110.87	20.05	87.80
PM ₁₀	92.43	404.85	7.20	31.56
PM _{2.5}	16.99	74.41	1.12	4.89

In addition to the equipment, fugitive emissions will be generated by the stockpiles at the quarry. The following stockpiles are proposed:

Proposed Quarries:

Stockpile Description	Stockpile ID	Surface Area (Acres)
E. Base Stockpile	ST1	0.51
E. #57 Stockpile	ST2	0.68
E. #789 Stockpile	ST3	0.20
E. SCR Stockpile	ST4	0.20
E. W. SCR Sand Stockpile	ST5	0.20
Auxiliary Stockpile	ST6	2.83
N. Base Stockpile	ST7	0.51
N. #57 Stockpile	ST8	0.68
N. SCR Stockpile	ST9	0.20
N. W. SCR Stockpile	ST10	0.20
N. #789 Stockpile	ST11	0.20

The summary of fugitive emissions at the facility are as follows:

Pollutant	Proposed Potential Uncontrolled		Proposed Potential Controlled	
	(PPH)	(TPY)	(PPH)	(TPY)
TSP	4.56	19.96	1.14	4.99
PM ₁₀	2.28	9.98	0.57	2.49
PM _{2.5}	2.28	9.98	0.57	2.49

Emissions were calculated at the operating rates (tons per hour) provided for each piece of equipment based on the potential to emit (8,760 hours per year). Emission factors from AP-42 Table 11.19.2-2 were used to estimate emissions for the equipment to be installed; the operating rate was multiplied by the emission factor to obtain the hourly emission rate. Wet suppression, carry over moisture, and a wash process are used as controls for emission sources. Equipment that is part of the Wash Process has no uncontrolled or controlled emissions because soaking the material with water is an integral part of the process.

Total proposed emissions for the facility after construction are as follows:

FACILITY-WIDE CRITERIA POLLUTANT EMISSIONS				
Pollutant	Potential Uncontrolled (tpy)	Potential Controlled (tpy)	Potential Uncontrolled (lb/hr)	Potential Controlled (lb/hr)
PM	1,130.83	92.79	258.18	21.19
PM ₁₀	414.83	34.05	94.71	77.77
PM _{2.5}	84.38	7.39	19.27	1.69

Modeling:

Air dispersion modeling of criteria pollutant emissions has been performed for the Manning Quarry. The results of the air quality analysis demonstrate that emissions of criteria pollutants will achieve the air quality standards stated in Standard No. 2.

Construction Schedule:

Heidelberg intends to begin construction in early 2026 and be operational by the end of 2026. Once operational, the facility will operate up to 14 hours per day, 7 days per week for the purposes of permitting.

Summary:

Heidelberg Materials will be in compliance with applicable State and Federal air pollution control regulations and is requesting a Synthetic Minor Source Construction Permit for the addition of equipment related to the portable plant as documented. The Manning Quarry will accept federally enforceable administrative limits to operate as a Conditional Major Source.

Please contact Kaylee Jones at (864) 894-9203 if you have any further questions or concerns with regards to this matter.

Sincerely,

SynTerra



Andrea Kehn, P.E.
Project Engineer

Cc: Kaylee Jones, Heidelberg Construction Materials