



BACKGROUND MONITORING DATA ( $\mu\text{g}/\text{m}^3$ )									
Pollutant	Site Name	County	Year	1-Hr	3-Hr	8-Hr	24-Hr	3-Mo	Annual
PM <sub>10</sub>	Greenville ESC	Greenville	17-19				30		
PM <sub>2.5</sub>	T.K. Gregg	Spartanburg	17-19				15.4		7.7

PM<sub>10</sub> 24-hr is the fourth-high over 3-year period.  
The concentration listed for all other pollutants and averaging periods is the 3-year design value.

STANDARD NO. 2 - AMBIENT AIR QUALITY STANDARDS EMISSION RATES (LB/HR)						
Emission Point ID	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	Lead
CR101	0.22	0.04	--	--	--	--
CR102	0.30	0.06	--	--	--	--
CR103	0.15	0.03	--	--	--	--
C101 through C144 <sup>(1)</sup>	0.63	0.17	--	--	--	--
SCR101	0.41	0.03	--	--	--	--
SCR102	0.16	0.01	--	--	--	--
SCR103	0.16	0.01	--	--	--	--
SCR104	0.28	0.02	--	--	--	--
STP1	0.0017	0.0002	--	--	--	--
STP2	0.0017	0.0002	--	--	--	--
STP3	0.0099	0.0014	--	--	--	--
STP4	0.0017	0.0002	--	--	--	--
STP5	0.0113	0.0016	--	--	--	--
STP6	0.0113	0.0016	--	--	--	--
STP7	0.0028	0.0004	--	--	--	--
STP8	0.0101	0.0015	--	--	--	--
VGF101	0.0079	7.94E-04				
FACILITY TOTAL	2.3684	0.3744	--	--	--	--

1) All of the conveyors have been included together because they have similar emission rates

EMISSION POINT DESCRIPTIVE INFORMATION				
Emission Point ID	Source Identification & Description	Date Installed (Modified)	Status	Other
CR101	Primary Jaw Crusher	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
CR102	Secondary Cone Crusher	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
CR103	Tertiary Cone Crusher	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
C101 through C144	Conveyors	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
Haul Roads	Haul Roads	2024	Exempt Std 2, 7: Maintained using wet suppression to minimize fugitive dust emissions <sup>(1)</sup> Categorically exempt source	
SCR101	Horizontal Screen	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
SCR102	Horizontal Screen	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
SCR103	Horizontal Screen	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
SCR104	Horizontal Screen	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
SP101	60 HP Slurry Pump	2024	Exempt Std 2, 7, 8: ICE considered portable, "non-road" engine <sup>(1)</sup>	
STP1	Aggregate Stockpile	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
STP2	Aggregate Stockpile	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
STP3	Aggregate Stockpile	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
STP4	Aggregate Stockpile	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
STP5	Aggregate Stockpile	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
STP6	Aggregate Stockpile	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
STP7	Aggregate Stockpile	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
STP8	Aggregate Stockpile	2024	Exempt Std 2, 7: PM <sub>10</sub> , PM <sub>2.5</sub> < 1.14 lb/hr <sup>(1)</sup>	
VGF101	Vibrating Grizzly Feeder	2024	Categorically exempt source	
WP101	100 HP Fresh Water Supply Pump	2024	Exempt Std 2, 7, 8: ICE considered portable, "non-road" engine <sup>(1)</sup>	
1) Qualifies to be exempted from modeling, but facility chose to model to demonstrate compliance				

**AREA SOURCE PARAMETERS**

Emission Point ID	Date Last Modeled	Location (UTM)		Release Height AGL (ft)	Easterly Length X (ft)	Northerly Length Y (ft)	Angle From North (°)	Initial Vertical Dimension $\sigma_z$ (ft)	Distance To Property Line (ft)
		East (m)	North (m)						
CR101	11/20/23	430255	3865999	9.8	16.0	8.7	0	0	See AERMOD Files
CR102	11/20/23	430261	3866133	9.8	10.0	20.0	0	0	See AERMOD Files
CR103	11/20/23	430265	3866130	9.8	10.0	20.0	0	0	See AERMOD Files
C101	11/20/23	430173	3865875	9.8	2.5	80.1	0	0	See AERMOD Files
C102	11/20/23	430185	3865890	6.6	2.5	80.1	0	0	See AERMOD Files
C103	11/20/23	430176	3865903	6.6	3.0	125.0	0	0	See AERMOD Files
C104	11/20/23	430155	3865909	6.6	3.0	80.0	0	0	See AERMOD Files
C105	11/20/23	430150	3865903	6.6	3.5	60.0	0	0	See AERMOD Files
C106	11/20/23	430157	3865914	6.6	3.5	60.0	0	0	See AERMOD Files
C107	11/20/23	430144	3865910	6.6	3.5	75.0	0	0	See AERMOD Files
C108	11/20/23	430153	3865921	6.6	3.5	75.0	0	0	See AERMOD Files

**AREA SOURCE PARAMETERS**

Emission Point ID	Date Last Modeled	Location (UTM)		Release Height AGL (ft)	Easterly Length X (ft)	Northerly Length Y (ft)	Angle From North (°)	Initial Vertical Dimension $\sigma_z$ (ft)	Distance To Property Line (ft)
		East (m)	North (m)						
C109	11/20/23	430144	3865948	6.6	3.5	120.0	0	0	See AERMOD Files
C110	11/20/23	430154	3865980	6.6	3.5	100.0	0	0	See AERMOD Files
C111	11/20/23	430167	3865978	6.6	3.5	40.0	0	0	See AERMOD Files
C112	11/20/23	430174	3865973	6.6	3.5	120.0	0	0	See AERMOD Files
C113	11/20/23	430173	3865952	6.6	3.5	60.0	0	0	See AERMOD Files
C114	11/20/23	430177	3865949	6.6	3.5	100.0	0	0	See AERMOD Files
C115	11/20/23	430168	3865946	6.6	3.5	60.0	0	0	See AERMOD Files
C116	11/20/23	430174	3865944	6.6	3.5	100.0	0	0	See AERMOD Files
C117	11/20/23	430170	3865933	6.6	3.5	60.0	0	0	See AERMOD Files
C118	11/20/23	430158	3865941	6.6	3.5	100.0	0	0	See AERMOD Files
C119	11/20/23	430150	3865955	6.6	3.5	75.0	0	0	See AERMOD Files

**AREA SOURCE PARAMETERS**

Emission Point ID	Date Last Modeled	Location (UTM)		Release Height AGL (ft)	Easterly Length X (ft)	Northerly Length Y (ft)	Angle From North (°)	Initial Vertical Dimension $\sigma_z$ (ft)	Distance To Property Line (ft)
		East (m)	North (m)						
C120	11/20/23	430153	3865971	6.6	3.5	75.0	0	0	See AERMOD Files
C121	11/20/23	430153	3865927	6.6	3.5	75.0	0	0	See AERMOD Files
C122	11/20/23	430161	3865925	6.6	3.5	75.0	0	0	See AERMOD Files
C123	11/20/23	430168	3865910	6.6	3.5	75.0	0	0	See AERMOD Files
C124	11/20/23	430173	3865910	6.6	3.5	75.0	0	0	See AERMOD Files
C125	11/20/23	430194	3865909	6.6	3.5	75.0	0	0	See AERMOD Files
C126	11/20/23	430207	3865899	6.6	3.5	75.0	0	0	See AERMOD Files
C127	11/20/23	430179	3865943	6.6	3.5	75.0	0	0	See AERMOD Files
C128	11/20/23	430179	3865935	6.6	3.5	75.0	0	0	See AERMOD Files
C129	11/20/23	430191	3865940	6.6	2.5	80.1	0	0	See AERMOD Files
C130	11/20/23	430178	3865927	6.6	2.5	80.1	0	0	See AERMOD Files

**AREA SOURCE PARAMETERS**

Emission Point ID	Date Last Modeled	Location (UTM)		Release Height AGL (ft)	Easterly Length X (ft)	Northerly Length Y (ft)	Angle From North (°)	Initial Vertical Dimension $\sigma_z$ (ft)	Distance To Property Line (ft)
		East (m)	North (m)						
C131	11/20/23	430205	3865950	6.6	3.0	125.0	0	0	See AERMOD Files
C132	11/20/23	430229	3865979	6.6	3.0	80.0	0	0	See AERMOD Files
C133	11/20/23	430251	3866009	6.6	3.5	60.0	0	0	See AERMOD Files
C134	11/20/23	430261	3866021	6.6	3.5	60.0	0	0	See AERMOD Files
C135	11/20/23	430235	3866002	6.6	3.5	75.0	0	0	See AERMOD Files
C136	11/20/23	430223	3866006	6.6	3.5	75.0	0	0	See AERMOD Files
C137	11/20/23	430247	3865979	6.6	3.5	120.0	0	0	See AERMOD Files
C138	11/20/23	430259	3865970	6.6	3.5	100.0	0	0	See AERMOD Files
C139	11/20/23	430239	3866001	6.6	3.5	40.0	0	0	See AERMOD Files
C140	11/20/23	430234	3866009	6.6	3.5	120.0	0	0	See AERMOD Files
C141	11/20/23	430224	3865959	6.6	3.5	60.0	0	0	See AERMOD Files

**AREA SOURCE PARAMETERS**

Emission Point ID	Date Last Modeled	Location (UTM)		Release Height AGL (ft)	Easterly Length X (ft)	Northerly Length Y (ft)	Angle From North (°)	Initial Vertical Dimension $\sigma_z$ (ft)	Distance To Property Line (ft)
		East (m)	North (m)						
C142	11/20/23	430177	3865880	6.6	3.5	100.0	0	0	See AERMOD Files
C143	11/20/23	430177	3865879	6.6	3.5	60.0	0	0	See AERMOD Files
C144	11/20/23	430178	3865879	6.6	3.5	100.0	0	0	See AERMOD Files
SCR101	11/20/23	430262	3866060	6.6	8.0	20.0	0	0	See AERMOD Files
SCR102	11/20/23	430260	3866092	6.6	8.0	20.0	0	0	See AERMOD Files
SCR103	11/20/23	430265	3866081	6.6	8.0	20.0	0	0	See AERMOD Files
SCR104	11/20/23	430325	3866123	6.6	8.0	20.0	0	0	See AERMOD Files
STP1	11/20/23	430229	3866057	25.0	60.0	60.0	0	0	See AERMOD Files
STP2	11/20/23	430234	3866036	25.0	60.0	60.0	0	0	See AERMOD Files
STP3	11/20/23	430309	3866075	25.0	60.0	60.0	0	0	See AERMOD Files
STP4	11/20/23	430288	3866155	25.0	60.0	60.0	0	0	See AERMOD Files

**AREA SOURCE PARAMETERS**

Emission Point ID	Date Last Modeled	Location (UTM)		Release Height AGL (ft)	Easterly Length X (ft)	Northerly Length Y (ft)	Angle From North (°)	Initial Vertical Dimension $\sigma_z$ (ft)	Distance To Property Line (ft)
		East (m)	North (m)						
STP5	11/20/23	430359	3866164	25.0	60.0	60.0	0	0	See AERMOD Files
STP6	11/20/23	430360	3866084	25.0	60.0	60.0	0	0	See AERMOD Files
STP7	11/20/23	430322	386632	25.0	60.0	60.0	0	0	See AERMOD Files
STP8	11/20/23	430198	3866003	25.0	60.0	60.0	0	0	See AERMOD Files
VGf101	11/20/23	430255	3865999	9.8	4.3	24.0	0	0	See AERMOD Files

**AERMOD/AERMAP SPECIFICATIONS TABLE**

<b>MET DATA</b>	GSP-GSO 2015-2019 [Surface = Greenville-Spartanburg, SC (972 ft MSL); Upper Air = Greensboro, NC]									
	ADJ_U*	<input checked="" type="checkbox"/>	(Y/N)							
<b>NED TERRAIN FILES</b>	Spartanburg, SC									
<b>PROJECTION DATUM</b>	NAD27	<input type="checkbox"/>	NAD83	<input checked="" type="checkbox"/>	WGS-84	<input type="checkbox"/>	NWS-84	<input type="checkbox"/>		
<b>RURAL or URBAN?</b>	Rural	<input checked="" type="checkbox"/>	Urban	<input type="checkbox"/>						
<b>ELEVATIONS EXTRACTED</b>	Buildings	<input checked="" type="checkbox"/>	Sources	<input checked="" type="checkbox"/>	Tanks	<input type="checkbox"/>	Receptors	<input checked="" type="checkbox"/>		

**HISTORY**

Date	By	Reason	Description
11/20/23	AJF	C/P	The facility has submitted the application to obtain a construction permit for a proposed aggregate mine and processing facility. AERMOD PM <sub>10</sub> and PM <sub>2.5</sub> modeling submitted for facility construction. This is the first modeling summary for this facility.

DRAFT