State of Utah

SPENCER J. COX
Governor

DEIDRE HENDERSON
Lieutenant Governor

Department of
Environmental Quality

Tim Davis
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN162320001-25

June 26, 2025

Mike Schugg
Pisgah Stone Products, LLC
701 North 44th Street
Phoenix, AZ 85008
msbear@cox.net

Dear Mr. Schugg:

Re: Approval Order: New Approval Order for Wellsville Aggregate Processing Facility
Project Number: N162320001

The attached Approval Order (AO) is issued pursuant to the Notice of Intent (NOI) received on August 22, 2024. Pisgah Stone Products, LLC must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Lucia Mason**, who can be contacted at (385) 707-7669 or lbmason@utah.gov. Future correspondence on this AO should include the engineer's name as well as the DAQE number shown on the upper right-hand corner of this letter. No public comments were received on this action.

Sincerely,

Bryce C. Bird
Director

BCB:LM:jg

cc: Bear River Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN162320001-25
New Approval Order for Wellsville Aggregate Processing Facility

Prepared By
Lucia Mason, Engineer
(385) 707-7669
lbmason@utah.gov

Issued to
Pisgah Stone Products, LLC - Wellsville Stone Quarry

Issued On
June 26, 2025

Issued By

Bryce C. Bird
Director
Division of Air Quality

TABLE OF CONTENTS

GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name
Pisgah Stone Products, LLC

Source Name
Pisgah Stone Products, LLC - Wellsville Stone Quarry

Mailing Address
701 North 44th Street
Phoenix, AZ 85008

Physical Address
4834 West Mount Pisgah Road
Wellsville, UT 84339

Source Contact
Name: Mike Schugg
Phone: (480) 993-8813
Email: msbear@cox.net

UTM Coordinates
422,751 m Easting
4,600,525 m Northing
Datum NAD83
UTM Zone 12

SIC code 1422 (Limestone, Crushed & Broken)

SOURCE INFORMATION

General Description
Pisgah Stone Products, LLC (Pisgah Stone) has requested an AO for a rock crushing and screening facility in Cache County. Material is mined on-site and transported to the plant by front-end loaders and conveyed to a stockpile. A front-end loader transfers rock from the stockpile to the production line, where it is run through a series of hoppers, crushers, screens, conveyor belts, and storage piles. Three (3) 779 hp diesel-fired generator engines are onsite; two (2) power the facility while the third serves as backup. The plant will process up to 800,000 tons of aggregate material annually.

NSR Classification
New Minor Source

Source Classification
Located in Attainment Area
Cache County
Airs Source Size: B

Applicable Federal Standards
NSPS (Part 60), A: General Provisions
NSPS (Part 60), OOO: Standards of Performance for Nonmetallic Mineral Processing Plants
NSPS (Part 60), IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
MACT (Part 63), A: General Provisions
MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for

Stationary Reciprocating Internal Combustion Engines
Title V (Part 70) Area Source

Project Description
Pisgah Stone has requested a new AO for an aggregate pit at the Wellsville Stone Quarry located in Cache County. The aggregate pit will consist of the following emission units: four (4) crushers, five (5) screens, various conveyors, and three (3) 779 hp diesel-fired generator engines. Several fugitive emission sources are present at the facility as well, including storage piles, disturbed ground, haul roads, and material transfer points.

SUMMARY OF EMISSIONS

The emissions listed below are an estimate of the total potential emissions from the source. Some rounding of emissions is possible.

Criteria Pollutant	Change (TPY)	Total (TPY)
Carbon Monoxide		9.36
Nitrogen Oxides		9.36
Particulate Matter - PM_{10}		43.64
Particulate Matter - $PM_{2.5}$		7.46
Sulfur Dioxide		0.02
Volatile Organic Compounds		0.50

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Acetaldehyde (CAS #75070)		1
Benzene (Including Benzene From Gasoline) (CAS #71432)		18
Formaldehyde (CAS #50000)		2
Generic HAPs (CAS #GHAPS)		1
Naphthalene (CAS #91203)		3
Phenanthrene (CAS #85018)		1
Toluene (CAS #108883)		6
Xylenes (Isomers And Mixture) (CAS #1330207)		4
	Change (TPY)	**Total (TPY)**
Total HAPs		0.02

SECTION I: GENERAL PROVISIONS

I.1	All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
I.2	The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
I.3	Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]

I.4	All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Director or Director's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401-8]
I.5	At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
I.6	The owner/operator shall comply with UAC R307-107. General Requirements: Breakdowns. [R307-107]
I.7	The owner/operator shall comply with UAC R307-150 Series. Emission Inventories. [R307-150]
I.8	The owner/operator shall submit documentation of the status of construction or modification to the Director within 18 months from the date of this AO. This AO may become invalid if construction is not commenced within 18 months from the date of this AO or if construction is discontinued for 18 months or more. To ensure proper credit when notifying the Director, send the documentation to the Director, attn.: NSR Section. [R307-401-18]

SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	**Wellsville Stone Quarry**
II.A.2	**Four (4) Crushers** Capacity: 500 tons per hour (tph) each NSPS Applicability: 40 CFR 60 Subpart OOO
II.A.3	**Five (5) Screens** Capacity: 500 tph each NSPS Applicability: 40 CFR 60 Subpart OOO
II.A.4	**Various Conveyors** NSPS Applicability: 40 CFR 60 Subpart OOO
II.A.5	**Three (3) Generator Engines** One (1) serves as backup for the other two Fuel: diesel Rating: 779 Hp each EPA Rating: Tier 4 Final Manufacture year: 2023 NSPS Applicability: 40 CFR 60 Subpart IIII MACT Applicability: 40 CFR 63 Subpart ZZZZ

II.A.6	**Miscellaneous Aggregate Processing Equipment** *- Listed for informational purposes only -* Hoppers Loaders Haul Trucks

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	**Site-wide Requirements**
II.B.1.a	The owner/operator shall not produce more than 800,000 tons of aggregate per rolling 12-month period. [R307-401-8]
II.B.1.a.1	To determine compliance with the above production, limit the owner/operator shall: A. Determine production by scale house records or vendor receipts B. Record production on a daily basis C. Use the production data to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months D. Keep production records for all periods the plant is in operation. [R307-401-8]
II.B.1.b	The owner/operator shall only operate between 6:00 AM and 6:00 PM each day. [R307-401-8, R307-410-4]
II.B.1.b.1	To determine compliance with the above operational limits, the owner/operator shall maintain the following records: A. The time operations begin each day B. The time operations end each day. [R307-401-8]
II.B.1.c	Unless otherwise specified in this AO, the owner/operator shall not allow visible emissions from any source to exceed 20% opacity. [R307-309-5, R307-401-8]
II.B.1.c.1	Unless otherwise specified in this AO, opacity observations of visible emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-201-3]

II.B.2	**Aggregate Processing Equipment Requirements**
II.B.2.a	The owner/operator shall not allow visible emissions from the emission points below exceed the following values: A. All Crushers - 12% B. All Screens - 7% C. All Conveyor Transfer Points - 7% D. All Conveyor Drop Points - 20% [40 CFR 60 Subpart OOO, R307-309-4, R307-312-4, R307-401-8]
II.B.2.b	The owner/operator shall install water sprays on all crushers, screens, conveyor transfer points, and conveyor drop points. Sprays shall operate as required to ensure the opacity limits in the AO are not exceeded. [R307-401-8]
II.B.2.c	The owner/operator shall perform monthly inspections to check that water is flowing to the discharge spray nozzles associated with each crusher, screen, and conveyor. If the owner/operator finds that water is not flowing properly during an inspection, the owner/operator shall initiate corrective action within 24 hours and complete corrective action as expediently as practical. [40 CFR 60 Subpart OOO, R307-401-8]
II.B.2.c.1	The owner/operator shall maintain records of water spray inspections in a logbook for all periods the plant is in operation. The records shall include the following items: A. The inspection date B. Any corrective actions taken C. Control mechanism used if sprays are not operating. [40 CFR 60 Subpart OOO, R307-401-8]
II.B.2.d	The owner/operator shall conduct an initial performance test for all crushers, screens, and conveyor transfer points on site within 60 days after achieving maximum production rate but not later than 180 days after initial startup. Performance tests shall meet the limitations specified in Table 3 of 40 CFR 60 (NSPS) Subpart OOO. Records of initial performance tests shall be kept and maintained onsite for the lifetime of the equipment. [40 CFR 60 Subpart A, R307-401-8]
II.B.2.d.1	Initial performance tests for fugitive emission limits shall be conducted according to 40 CFR 60.675(c). The owner/operator may use methods and procedures specified in 40 CFR 60.675(e) as an alternative. [40 CFR 60 Subpart OOO, R307-401-8]
II.B.2.d.2	The owner/operator shall submit written reports of the results of all performance tests conducted to demonstrate compliance with 40 CFR 60.672 to the Director, attn.: Compliance Section. The submission shall be postmarked no later than 180 days from the date of this AO or no later than 180 days from equipment start-up, whichever is later. [40 CFR 60 Subpart OOO, R307-401-8]
II.B.3	**Fugitive Dust Requirements**
II.B.3.a	The owner/operator shall not allow visible emissions from any fugitive dust source to exceed 20% opacity on site and 10% opacity at the property boundary. [R307-309-5]

II.B.3.a.1	Visible emission determinations shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Visible emissions shall be measured at the densest point of the plume but at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. [R307-309-5]
II.B.3.b	The owner/operator shall comply with an FDCP for control of all fugitive dust sources associated with the Wellsville Stone Quarry. [R307-309-6, R307-401-8]
II.B.3.c	The owner/operator shall not exceed the following haul road and loader route length limits: A. Total Paved and Unpaved Haul Roads Combined - 6,280 ft. B. Unpaved Haul Roads - 5,980 ft. C. Unpaved Loader Routes - 656 ft. [R307-401-8]
II.B.3.c.1	To determine compliance with the above length limits, the owner/operator shall measure and record the paved haul road, unpaved haul road, and unpaved loader route lengths at least once every twelve (12) months. The owner/operator shall determine lengths using GPS measurements or aerial photographs. The owner/operator shall include the date each length measurement was taken in their records. [R307-401-8]
II.B.3.d	The owner/operator shall not exceed the following disturbed area and storage piles acreage limits: A. Total Disturbed Area - 100 acres B. Total Storage Piles - 10 acres [R307-401-8]
II.B.3.d.1	To determine compliance with the above area limits, the owner/operator shall measure and record the total area of the storage piles and/or disturbed areas at least once every twelve (12) months. The owner/operator determines areas using GPS measurements or aerial photographs. The area of each storage pile and/or disturbed area shall be added together to obtain the total area of all the storage piles and disturbed areas on-site. Records of the total acres of the storage piles and/or disturbed areas shall contain the following: A. Date of measurements B. Acreage of each storage pile and each disturbed area on-site C. Total acreage of all storage piles combined D. Total acreage of all disturbed areas combined. [R307-401-8]
II.B.3.e	The owner/operator shall sweep and flush all paved haul roads with water to maintain opacity limits listed in this AO. If the temperature is below freezing, the owner/operator shall continue to sweep the paved roads but may stop flushing the pavement with water until the temperature returns to above freezing. If the haul roads are covered with snow or ice, the owner/operator may stop sweeping the paved haul roads until the paved roads are cleared of snow and ice. [R307-401-8]

II.B.3.e.1	The owner/operator shall keep records of sweeping and water application to paved haul roads for all periods when the plant is in operation. Records shall include the following items regarding paved haul roads: A. Date and time treatments were made B. Number of treatments made and quantity of water applied C. Rainfall amount received, if any D. The temperature, if the temperature is below freezing E. Road conditions, if the paved haul roads are covered with snow or ice. [R307-401-8]
II.B.3.f	The owner/operator shall apply chemical treatment and water to all unpaved haul roads and operational areas to maintain the opacity limits listed in this AO at all times unless the temperature is below freezing. If the temperature is below freezing, the owner/operator may stop applying water to unpaved haul roads and operational areas. [R307-401-8]
II.B.3.f.1	The owner/operator shall keep records of chemical treatment and water application to unpaved haul roads for all periods the plant is in operation. Records shall include the following items: A. Date and time treatments were made B. Number of treatments made and quantity of water and chemicals applied C. Rainfall amount received, if any D. The temperature, if the temperature is below freezing. [R307-401-8]
II.B.3.g	The owner/operator shall control particulate emissions from storage piles, disturbed areas, and other fugitive dust sources using either water sprays, water trucks, and/or water cannons. The water sprays, water trucks, and/or water cannons shall operate as required to comply with the opacity limits in this AO unless the temperature is below freezing. If the temperature is below freezing, the owner/operator may stop applying water to the storage piles, disturbed area, and other fugitive dust sources until the temperature returns to above freezing. [R307-401-8]
II.B.3.g.1	The owner/operator shall keep records of water application to the storage piles, disturbed area, and other fugitive dust sources for all periods when the plant is in operation. The records shall include the following items: A. The date, time, and location of applications B. The volume of water applies C. Amount of rainfall received, if any D. The temperature, if the temperature is below freezing [R307-401-8]
II.B.3.h	The owner/operator shall comply with all applicable requirements of R307-309 for Fugitive Emission and Fugitive Dust sources on-site. [R307-309]

II.B.4	**Stationary Diesel-fired Generator Engine Requirements**
II.B.4.a	The owner/operator shall install diesel-fired engines that are certified to meet Tier 4 emission rates as listed below: NMHC: 0.14 g/hp-hr NO_x: 0.50 g/hp-hr PM: 0.02 g/hp-hr CO: 2.61 g/hp-hr [40 CFR 60 Subpart IIII, R307-401-8]
II.B.4.b	The owner/operator shall keep a record of the manufacturer's certification of the VOC, NO_x, PM, and CO emission rates for each of the diesel-fired generator engines. The records shall be kept for the life of the equipment. [R307-401-8]
II.B.4.b.1	The owner/operator shall not allow visible emissions from the diesel-fired generator engines to exceed 20% opacity. [R307-201-3, R307-401-8]
II.B.4.c	The owner/operator shall operate the diesel-fired generator engines for no more than a combined total of 4,176 hours per rolling 12-month period. The owner/operator shall operate no more than two (2) diesel-fired generator engines simultaneously. [R307-401-8]
II.B.4.c.1	The owner/operator shall install a non-resettable hour meter for each of the diesel-fired generator engines. [R307-401-8]
II.B.4.c.2	To determine compliance with the above engine operational limits, the owner/operator shall keep the records listed below for each of the diesel-fired generator engines in a log and calculate a new 12-month total by the 20th day of each month using data from the previous 12 months. A. The date of engine operations B. The hours showing on the hour meter when the engine begins operation C. The hours showing on the hour meter when the engine ceases operation D. Daily engine operating hours, defined as the difference between B and C E. Documentation of which engine(s) is/are not in use at any given time. [R307-401-8]
II.B.4.d	The owner/operator shall only combust diesel fuel that meets the definition of ultra-low sulfur diesel (ULSD), which has a sulfur content of 15 ppm or less. [40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ]
II.B.4.d.1	The sulfur content shall be determined by ASTM Method D2880-71, D4294-89, or an approved equivalent. Certification of diesel fuel shall be either by the owner/operator's own testing or by test reports from the diesel fuel marketer. [R307-401-8]
II.B.4.e	The owner/operator shall conduct all operation and maintenance of the diesel-fired generator engines according to the manufacturer's recommendations. [R307-401-8]

PERMIT HISTORY

This Approval Order shall supersede (if a modification) or will be based on the following documents:

Is Derived From	NOI dated August 22, 2024
Incorporates	Additional Information dated September 10, 2024
Incorporates	Additional Information dated October 1, 2024
Incorporates	Additional Information dated December 12, 2024
Incorporates	Additional Information dated February 10, 2025
Incorporates	Additional Information dated February 18, 2025
Incorporates	Additional Information dated February 27, 2025

ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by Environmental Protection Agency to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent - Title 40 of the Code of Federal Regulations Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ/UDAQ	Division of Air Quality
DAQE	This is a document tracking code for internal Division of Air Quality use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - Title 40 of the Code of Federal Regulations 52.21 (b)(49)(i)
GWP	Global Warming Potential - Title 40 of the Code of Federal Regulations Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/YR	Pounds per year
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO_x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM_{10}	Particulate matter less than 10 microns in size
$PM_{2.5}$	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO_2	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
VOC	Volatile organic compounds