



State of Utah

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Environmental Quality

Tim Davis  
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DIVISION OF AIR QUALITY  
Bryce C. Bird  
*Director*

DAQE-AN142140002-26

March 25, 2026

Lance Studebaker  
Wasatch Minerals, LLC  
PO Box 284  
Lehi, UT 84043  
lance@wasatchminerals.com

Dear Mr. Studebaker:

Re: Approval Order: Administrative Amendment to Approval Order DAQE-AN0142140001-10 for a 10-Year Review and Permit Updates  
Project Number: N142140002

The attached Approval Order (AO) is issued pursuant to the Division of Air Quality conducting a 10-year administrative review of this source and its respective AO. Wasatch Minerals, LLC must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Christine Bodell**, who can be contacted at (385) 290-2690 or cbodell@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.

Sincerely,

Bryce C. Bird  
Director

BCB:CB:jg

cc: Utah County Health Department

**STATE OF UTAH**  
**Department of Environmental Quality**  
**Division of Air Quality**

**APPROVAL ORDER**  
**DAQE-AN142140002-26**  
**Administrative Amendment to Approval Order**  
**DAQE-AN0142140001-10 for a 10-Year Review**  
**and Permit Updates**

**Prepared By**  
**Christine Bodell, Engineer**  
**(385) 290-2690**  
**cbodell@utah.gov**

**Issued to**  
**Wasatch Minerals, LLC - Slate Processing Plant**

**Issued On**  
**March 25, 2026**

**Issued By**

A handwritten signature in black ink, appearing to read "Bryce C. Bird".

**Bryce C. Bird**  
**Director**  
**Division of Air Quality**

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## GENERAL INFORMATION

### CONTACT/LOCATION INFORMATION

**Owner Name**

Wasatch Minerals, LLC

**Source Name**

Wasatch Minerals, LLC - Slate Processing Plant

**Mailing Address**

PO Box 284  
Lehi, UT 84043

**Physical Address**

2450 North 1200 West  
Lehi, UT 84043

**Source Contact**

Name: Lance Studebaker  
Phone: (801) 372-4793  
Email: lance@wasatchminerals.com

**UTM Coordinates**

426,300 m Easting  
4,474,630 m Northing  
Datum NAD83  
UTM Zone 12

**SIC code** 1499 (Miscellaneous Nonmetallic Minerals, Except Fuels)

### SOURCE INFORMATION

**General Description**

Wasatch Minerals, LLC operates a slate processing plant in Lehi, Utah County. The process begins with locally quarried slate being trucked in, stockpiled, and placed into a primary jaw crusher via a front-end loader. A conveyor then moves the crushed product to a three-sided building for stockpiling.

A front-end loader then transports the slate to a secondary impact crusher located in a separate building. The crushed material is pneumatically transported to a sizing cyclone, which redirects larger pieces back to the secondary crusher. Fines are moved to the finished product silo, which is equipped with Baghouse #1. Finally, the material is pneumatically conveyed to the bagging station silo inside the building, where emissions are controlled by Baghouse #2.

**NSR Classification**

10-Year Review

**Source Classification**

Located in Provo UT PM<sub>2.5</sub> Maintenance Area, Southern Wasatch Front O3 NAA  
Utah 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  
Title V (Part 70) Area Source

Project Description

This administrative amendment is to AO DAQE-AN0142140001-10, dated January 25, 2010. The DAQ is conducting a 10-year review to update permit conditions, format, and rule applicability. There are no changes to the operations taking place at the Slate Processing Plant.

**SUMMARY OF EMISSIONS**

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

<b>Criteria Pollutant</b>	<b>Change (TPY)</b>	<b>Total (TPY)</b>
Particulate Matter - PM <sub>10</sub>	0	0.38
Particulate Matter - PM <sub>2.5</sub>	0	0.38

**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]

## SECTION II: PERMITTED EQUIPMENT

### II.A THE APPROVED EQUIPMENT

II.A.1	<b>Wasatch Minerals</b> Slate Processing Plant
II.A.2	<b>Crushers</b> One (1) Jaw Crusher One (1) Impact Crusher  Ratings: 600 tons/hr each Manufactured Dates: Prior to 2008
II.A.3	<b>Hoppers</b> One (1) Jaw Crusher Hopper One (1) Impact Crusher Hopper
II.A.4	<b>Finished Products Silo</b> Control: Baghouse #1
II.A.5	<b>Baghouse #1</b> Controls: Finished Products Silo
II.A.6	<b>Bagging Station Silo</b> Control: Baghouse #2
II.A.7	<b>Baghouse #2</b> Controls Bagging Station Silo
II.A.8	<b>Cyclone</b> Used for Material Sizing, Not Emissions Control  For Information Purposes Only
II.A.9	<b>Miscellaneous Conveyors</b> For Transporting Material

## SECTION II: SPECIAL PROVISIONS

### II.B REQUIREMENTS AND LIMITATIONS

II.B.1	<b>Site-Wide Requirements</b>
II.B.1.a	The owner/operator shall not produce more than 20,000 tons of processed slate per rolling 12-month period. [R307-401-8]

II.B.1.a.1	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> <li>A. Determine production by an operation log</li> <li>B. Record production on a daily basis</li> <li>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</li> <li>D. Keep the production records for all periods the plant is in operation.</li> </ul> <p>[R307-401-8]</p>
II.B.1.b	<p>Unless otherwise specified in this AO, the owner/operator shall not allow visible emissions to exceed the following values at the following emission points:</p> <ul style="list-style-type: none"> <li>A. All crushers - 12% opacity</li> <li>B. All conveyor transfer points - 7% opacity</li> <li>C. All conveyor drop points - 20% opacity</li> <li>D. All other points - 20% opacity.</li> </ul> <p>[40 CFR 60 Subpart OOO, R307-312-4, R307-401-8]</p>
II.B.1.b.1	<p>Unless otherwise specified in this AO, opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. [R307-401-8]</p>
II.B.2	<p><b>Baghouse Requirements</b></p>
II.B.2.a	<p>The owner/operator shall use Baghouse #1 to control particulate emissions from the finished product silo and shall use Baghouse #2 to control particulate emissions from the bagging station. All exhaust air from the finished product silo and the bagging station shall be routed through their respective baghouses before being vented to the atmosphere. [R307-401-8]</p>
II.B.2.b	<p>The owner/operator shall not allow visible emissions from each baghouse to exceed 10% opacity. [R307-401-8]</p>
II.B.2.c	<p>The owner/operator shall install a manometer or magnehelic pressure gauge to measure the static pressure differential across each baghouse. [R307-401-8]</p>
II.B.2.c.1	<p>Each pressure gauge shall be located such that an inspector/operator can safely read the indicator at any time. [R307-401-8]</p>
II.B.2.c.2	<p>Each pressure gauge shall measure the static pressure differential in 1-inch water column increments or less. [R307-401-8]</p>
II.B.2.d	<p>During operation of each baghouse, the owner/operator shall maintain the static pressure differential across each baghouse between 3.0 and 6.0 inches of water column. [R307-401-8]</p>
II.B.2.d.1	<p>The owner/operator shall record the static pressure differential at least once per operating day while the baghouse is operating. [R307-401-8]</p>
II.B.2.e	<p>At least once every 12 months, the owner/operator shall calibrate each pressure gauge in accordance with the manufacturer's instructions or replace the pressure gauge. [R307-401-8]</p>

<b>II.B.3</b>	<b>Fugitive Dust Requirements</b>
II.B.3.a	The owner/operator shall comply with the applicable requirements of UAC Rule R307-309 for Fugitive Emission and Fugitive Dust sources on site. This shall include the requirement to submit a Fugitive Dust Control Plan (FDCP) under UAC Rule R307-309-6. [R307-309-6]
II.B.3.b	The owner/operator shall not allow visible emissions from haul roads and fugitive dust sources on site to exceed 20% opacity on site and 10% opacity at the property boundary. [R307-309-5]
II.B.3.b.1	Opacity observations of fugitive dust from intermittent sources shall be conducted according to 40 CFR 60, Appendix A, Method 9; however, the requirement for observations to be made at 15-second intervals over a six-minute period shall not apply. The number of observations and the time period shall be determined by the length of the intermittent source. For fugitive dust generated by mobile sources, visible emissions shall be measured at the densest point of the plume but at a point not less than one-half vehicle length behind the vehicle and not less than one-half the height of the vehicle. [R307-309-5, R307-401-8]
<b>II.B.4</b>	<b>Crusher and Conveyor Requirements</b>
II.B.4.a	The owner/operator shall perform monthly periodic inspections to check that water is flowing to water sprays associated with each crusher and conveyor that commenced construction, modification, or reconstruction on or after April 22, 2008. If the owner/operator finds that water is not flowing properly during an inspection of the water sprays, the owner/operator shall initiate corrective action within 24 hours and complete corrective action as expeditiously as practical. [40 CFR 60 Subpart OOO]
II.B.4.a.1	Records of the water spray inspections shall be maintained in a logbook for all periods when the plant is in operation. The records shall include the following items: <ul style="list-style-type: none"> <li>A. Date the inspections were made</li> <li>B. Any corrective actions taken</li> <li>C. Control mechanism used if sprays are not operating.</li> </ul> [40 CFR 60 Subpart OOO]
II.B.4.b	The owner/operator shall conduct an initial performance test for each new crusher and conveyor transfer point on site. Performance tests shall demonstrate compliance with the limitations specified in Table 3 to Subpart OOO. [40 CFR 60 Subpart OOO]
II.B.4.b.1	Initial performance tests for fugitive emissions limits shall be conducted according to 40 CFR 60.675(c). The owner or operator may use methods and procedures specified in 40 CFR 60.675(e) as alternatives to the reference methods and procedures specified in 40 CFR 60.675(c). [40 CFR 60 Subpart OOO]
II.B.4.b.2	The owner/operator shall keep and maintain records of the initial performance test for each crusher and conveyor for the life of the equipment. [40 CFR 60 Subpart OOO]

## PERMIT HISTORY

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

Supersedes

AO DAQE-AN0142140001-10 dated January 25, 2010

## 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 <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> e	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 <sub>x</sub>	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM <sub>10</sub>	Particulate matter less than 10 microns in size
PM <sub>2.5</sub>	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 <sub>2</sub>	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