Mail To: New Mexico Environment Department Air Quality Bureau Permit Program Manager 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505 Phone (505) 476-4300 Fax (505) 476-4375 www.env.nm.gov/air-quality/		For Department use only:

General Construction Permit (GCP-3)

Multi-Form for Hot Mix Asphalt Plants

(Locating outside of Bernalillo County and Tribal Communities)

Use this form for any combination of the following permitting activities: **Initial registration** of a facility for a GCP-3 permit, GCP-3 facility **relocations**, GCP-3 **substitution of equipment** notification, and reporting of **additional equipment** for GCP-3 facilities.

Acknowledgements (Mark all that apply):

☐ **I am submitting this form for an initial GCP-3 registration.**

☒ **I am submitting this form for relocation.** A complete form is required for all relocations including the Equipment List.

☒ **I am submitting this form for equipment substitutions, removals, or additions.** Sections I, VI, VII, VIII and IX.1 are required in addition to the certification form on page 10. Applicable provisions of the GCP-3 may require compliance tests for equipment installed following this notification. Include other sections if information is changing that should be reported in those sections.

☐ **I acknowledge that a pre-application meeting is available to me upon request.**

☐ **I have sent a copy of this application to the nearest Department Field Office (required for initial registrations only).**

☒ **Public notice was posted prior to submitting this form to NMED.**

☐ **I have published the public notice required by Condition II.B.1 of GCP-3 (required for initial registrations only).**

☐ **This facility qualifies to receive assistance from the Small Business Environmental Assistance program (SBEAP) and qualifies for 50% of the current application and permit fees.** To see if you qualify for SBEAP assistance and a fee reduction go to www.env.nm.gov/air-quality/small-biz-eap-2/.

☐ **This facility qualifies to receive assistance from the Small Business Environmental Assistance Program (SBEAP) but does not qualify for 50% of the current application and permit fees.**

☒ **I have enclosed a check for the required fee:**

Registration Fees	Initial Registration	Relocation	Small Business* Initial Registration	Small Business* Relocation
Prior to 1/1/2022	$4,320	$432	$2,160	$216
Beginning 1/1/2022	$4,550	$455	$2,275	$228

There is an annual fee in addition to the registration fee: www.env.nm.gov/air-quality/permit-fees-2/.

* For facilities qualifying as a "small business" under 20.2.75.7.F NMAC the reduced fee may be used if NMED has a Small Business Certification Form from your company on file: www.env.nm.gov/forms/.

Provide your Check Number: 037389 **and Amount:** $455.00.

I	Company Information		
1	a) Company name: Perovich Properties, Inc. dba Taos Gravel Products		b) Date appl. notarized: 3/18/2022
2	a) Facility name: Cedar Rapids Hot Plant	b) 4-digit SIC code: 2951	c) 6-digit NAICS code: **324121**
3	Company mailing address: PO Box 1620, El Prado, NM 87529		This Facility is: ☐ Stationary ☒ Portable
4	For facilities with permits (or NPR or NOI), provide your Permit #: GCP3-8925		AI # (if known): 39654

5	a) Contact person: Joel Perovich		b) Title: President
6	a) Phone No: 575-758-4395	b) Fax No: 575-737-9487	c) e-mail: claire@taosgravel.com
7	Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes If yes, what is the name and permit number (if known) of the other facility?		
8	a) If you have hired a consultant, provide name and contact info:		
9	a) Phone No:	b) Fax No:	c) e-mail:

II Applicability

1	Does your facility have Emissions Units subject to any New Source Performance Standard (NSPS) other than 40 CFR 60 Subpart I?	☒**No** ☐**Yes**
2	Is your facility listed under a NESHAP or MACT?	☒**No** ☐**Yes**
3	Will your facility process radioactive materials?	☒**No** ☐**Yes**
4	Will this facility be located less than three (3) miles from a Class I (Wilderness) area? See AQB Modeling website for a map of Class I areas at: http://www.env.nm.gov/aqb/modeling/class1areas.html	☒**No** ☐**Yes**
5	Will your facility use liquid fuel with a sulfur content greater than 0.5% by weight?	☒**No** ☐**Yes**
6	Will this facility use any fuels other than natural gas, liquefied petroleum gas (LPG)/propane, gasoline, and # 2 diesel fuel with a sulfur content greater than 0.05% by weight?	☒**No** ☐**Yes**
If you answered ***Yes*** to any of questions 1-6, your facility **does not** qualify for this general construction permit. You need to submit an application for a regular permit under 20 NMAC 2.72 *Construction Permits*.		
7	Will your facility meet the location requirements as described in Sections III.C. and III.E. of this general construction permit?	☐**No** ☒**Yes**
8	Is your facility's primary purpose to manufacture paving materials by heating and drying aggregate and mixing with asphalt cements per Condition I.A.1 of the general construction permit?	☐**No** ☒**Yes**
9	Is your facility's Maximum Production less than or equal to 600 Tons Per Hour? (Required by Condition III.A.4. of this General Construction Permit)	☐**No** ☒**Yes**
10	Does your facility include any combination of the Emissions Units listed in Section I.A.3. of the general construction permit, and no others?	☐**No** ☒**Yes**
11	Can your facility comply with all of the applicable state and federal regulations listed in Section III.B. of the general construction permit?	☐**No** ☒**Yes**
12	Will the perimeter of the Area of Operations of your facility be located more than one-quarter mile (1/4) from an existing recreation area, private residence, office building, school, or other occupied structure?	☐**No** ☒**Yes**
13	Will the minimum distance between any emission source of the permitted Facility and the perimeter of the Restricted Area (except where the haul road crosses the Restricted Area perimeter) be at least 10 meters (11 yards)?	☐**No** ☒**Yes**
14	Will your facility operate **no more** than 4,380 hours per year?	☐**No** ☒**Yes**
15	Will your facility operate during daylight hours only?	☐**No** ☒**Yes**
16	Will the haul road control measures meet or exceed the requirements as described in Section III.F. and Table III.F.1 of this general construction permit?	☐**No** ☒**Yes**
17	If you plan to co-locate with a concrete batch plant or a crushing facility, will your plant comply with the Production Limitations as described in Section III.E. of this general construction permit?	☐**No** ☒**Yes**
If you answered ***NO*** to any of questions 7-17, your facility **does not** qualify for this general construction permit. You need to submit an application for an individual permit under 20. 2.72 NMAC *Construction Permits*.		

III Current Facility Status

1	Has this facility previously been issued a general construction permit? ☒Yes ☐No	If yes, the registration No. is: GCP-3-8925
2	Has this facility already been constructed? ☒Yes ☐No	If yes, is it currently operating in New Mexico? ☒Yes ☐No
3	Does this facility currently have a construction permit (20.2.72 NMAC, Section 200.A or 200.B)? ☒Yes ☐No	If yes, the permit No., and whether it will remain active or not: 0145, will be inactive
4	Is this application in response to a Notice of Violation (NOV)? ☐Yes ☒No If so, provide current permit #:	If yes, NOV date: / NOV Tracking No.
5	This Facility is submitting this application as a Small Business and will operate under the small business product limitation in the GCP, Section II.D.2 – *Fees*. ☐Yes ☒No	
6	This Facility will operate as a Small Business under Condition II.D. I understand that additional reporting requirements are necessary prior to operating over the TPY limit in Condition II.D.2, and as required in Condition IV.C.1.b. ☐Yes ☐No	

IV Facility Location Information

Please use Montana's Graphical Locater to convert Lat/Long to UTM systems, found at: http://rcn.montana.edu/resources/converter.aspx

1	a) Section: 11	b) Range: 11E	c) Township: 26N	d) County: Taos	e) Elevation (ft): 7004
2	a) UTM Zone: ☐12 or ☒13	b) UTME (to nearest 0.01 km): 434.16		c) UTMN (to nearest 0.01 km): 4,040,05	
	d) Specify datum used: ☐ NAD 27	☒ NAD 83	☐ WGS 83		
AND	a) Latitude (decimal degrees): 36,30,12.55N	b) Longitude (decimal degrees): 105,44,6.77W			
3	Name and zip code of nearest New Mexico town and/or tribal community: Arroyo Hondo 87529				
4	Detailed Driving Instructions including direction and distance from nearest NM town and/or tribal community (attach a road map if necessary). If there is no street address, provide public road mileage marker: From the intersection of NM 522 and HWY 64, go west on 64 for approximately 8.65 miles to MP 241.8 and turn right through the double red gates to the haul road.				
5	The facility is 4.4 miles west-southwest of Arroyo Hondo.				
6	Direction and distance to the nearest occupied structure from the perimeter of the Area of Operations: 0.50 miles west				
7	Land Status of Facility (check one): ☒ Private ☐ Indian/Pueblo ☐ Government ☐ BLM ☐ Forest Service ☐ Military				
8	Name and county of the nearest Class I Area and its direction from the facility: Wheeler Peak Wilderness, Taos County, ENE				
9	Shortest distance from the facility to the boundary of the nearest Class I Area (to the nearest 1 km): 16 km				

V Proposed Operating Schedule

1	Facility **maximum** operating ($\frac{\text{hours}}{\text{day}}$): 12	($\frac{\text{days}}{\text{week}}$): 7	($\frac{\text{weeks}}{\text{year}}$): 52	($\frac{\text{hours}}{\text{year}}$): OR ☒ Daylight hours only		
2	Facility's maximum daily operating schedule? Start: 7:00	☒AM ☐PM	End: 6:30	☐AM ☒PM		
3	Month and year of anticipated startup of new or modified facility: May 2022					
4	Month and year of anticipated completion date at this proposed site: unknown. At least two years					
5	Will this facility operate at this site for more than one year? ☒Yes ☐No	If yes, give number of years, months, permanent etc. 2				

VI Other Facility Information

1	Maximum proposed production	300	tons/hr	3	Total miles of haul road (one way)	0.31	miles
2	Area of storage pile & operations	5	acres	4	Estimated Number of Haul truck trips per day (round trip)	190	trips/ day

5 a) **Restricted Area**: Provide a written description of the method(s) to be used to restrict public access to the restricted area. Method(s) used to delineate the Restricted Area: barbed wire fence

"**Restricted Area**" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.

6 Describe the control measures that will be used on haul roads to meet the fugitive emission requirements described in Section III.F. of this General Construction Permit: water plus base course within fenced site (0.31 miles), paved road to Hwy 64 (1.66 miles). Trucks per day includes asphalt trucks, delivery trucks and water trucks.
The GCP-2 permit Table III.F.1 (p. 11) Fugitive Emissions Control Requirements for Haul Road for this facility layout are:
☐ Water ☒ Water plus base course application
☐ Surfactant application according to the manufacturer's instructions ☒ Paved and sweeping

7	☒ **During Malfunctions, Start-up, Shutdown, and Scheduled Maintenances and weather exceedances the plant will shut down until it can operate without exceedances.** Either check the option above or provide a preliminary operational plan(s) defining the measures to mitigate source emissions during: 1) Facility malfunctions, start up, shutdown, scheduled maintenance as defined in 20.2.7 NMAC **AND** 2) weather conditions that would cause an exceedance of the visible emission requirement in Section III.A.6. of the permit.
8	Type of material to be processed: aggregate, asphalt cement, and evotherm
9	**Calculation of maximum asphalt production allowed under the GCP-3 permit to demonstrate compliance with the 95 tons per year annual CO emission limits:** **New and existing facilities** must provide the required information in VI.9.1 and VI.9.2 below: 1) The total available horsepower of all internal combustion (IC) engines requested in this application at this facility is: na horsepower. 2) Using the horsepower reported above and the **Carbon Monoxide Emission Calculation Tool** found at the end of this application, this facility's weekly rolling 52-week total **Asphalt Production Limit** is: **na** tons per year (TPY). Weekly rolling 52-week total asphalt production records will be used to demonstrate compliance with the 95 TPY CO limit. **Facilities changing equipment generating combustion emissions** as part of this submission are required to fill out the rest of this section: 1) **Prior** to any equipment change(s) requested in this application, the total available horsepower of all internal combustion (IC) engines at this facility is: **950** horsepower. 2) Including all requested equipment changes included in this application, the total available horsepower of all internal combustion (IC) engines at this facility will be: **855** horsepower. 3) Using the horsepower reported above and the **Carbon Monoxide Emission Calculation Tool** found at the end of this application, this facility's weekly rolling 52-week total **Asphalt Production Limit** is: **1,269,119** tons per year (TPY). Weekly rolling 52-week total asphalt production records will be used to demonstrate compliance with the 95 TPY CO limit.

VII Process Equipment Information (use additional sheets if necessary)

List all equipment and emissions sources at the facility, not only what is being substituted, added or removed

Unit Number	Component Description (or unit's function)[1]	Manufacturer	Manufacture Date.	Model Number	Equipment Size, Capacity[2] or Maximum Process Rate (for generator sets, report the rated horsepower)	Manufacturers Emission Factors for Regulated Air Pollutants (for engines or generators)[3]	Date of Most Recent Compliance Test in New Mexico (or "None")
1	Aggregate Feed Bin	Shop made	Unknown		300 tph		
2	Feed Conveyor	Shop made	Unknown		300 tph		
3	Screen 3' x 8'	CedarRapids	Unknown		300 tph		
4	Feed Conveyor	Shop made	Unknown		300 tph		
5	Pug Mill	Shop made	Unknown		300 tph		
6	Conveyor	Shop made	Unknown		300 tph		
7	Cedarrapids Asphalt Drum	Cedar Rapids	Unknown	8835 TMM	300 tph		2003
8	Asphalt Conveyor	Cedar Rapids	Unknown	P1200	300 tph		
9	Asphalt Silo	Cedar Rapids	Unknown	P120S	120 tons		
10	Additive Tank (Evotherm)	CEI	Unknown		3000 gallons		
11	Diesel Fired 545 KW Generator	Caterpillar	1997	3412	545 KW (755 HP)	AP-42 Emissions Factors: NOx 0.024 CO 5.5 E-03 VOC 7.05 E-04 SO2 33.8 gal/hr 0.05% Sulfur PM-10 7.0 E-04	TBD
12	Diesel Fired 49 KW Generator	MultiQuip Komatsu engine	Unknown	DCA-85SSK	49 KW (100 HP)	AP-42 Emissions Factors: NOx 0.031 CO 6.68 E-03 VOC 2.47 E-3 SO2 5.1 gal/hr, 0.05% Sulfur PM-10 2.20 E-03	N/A
13	Cedarrapids Bag House	Cedar Rapids	Unknown	7920 P	47,000 acfm		2003
14	Asphalt Heater	CEI	Unknown	515A	14 gallons		

[1] Prior to adding any combustion equipment, refer to the Carbon Monoxide Emission Tool attached to this document to ensure CO emissions are below the 95 tons per year limit in the GCP-5. On a weekly basis update production records to ensure the 95 tons per limit was not exceeded for the previous 52 weeks.

[2] To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

[3] Include a copy of the manufacturers data sheets specifying the emission factors of the unit. If no manufacturers data are available, please use EPA's AP-42 emission factors for engines or generators.

VIII Storage Tank Information (Note: this data will be used to determine 40 CFR 60 Subpart Kb applicability) (Use additional sheets if necessary)									
Tank No.	**Materials Stored**	**Date Installed (MM/DD/YY)**	**Capacity (bbl)**	**Capacity (M^3)**	**Diameter (M)**	**Height (M)**	**True Vapor Pressure (kPa)**	**Annual Through-puts (gal)**	**Annual Turnovers**
15	Hot Asphalt Tank #1	2003	595	95	3.35	11.0	<1.38		
16	Hot Asphalt Tank #2	2003	476	76	2.9	11.6	<1.38		
17	Burner Fuel Oil Tank	2003	286	45	2.7	7.6	<1.38	2,000,000	167
18	Fuel Oil (Diesel) Day Tank	2003	23.6	3.8			<1.38	170,382	172

IX Required Attachments

The following Attachments are required. Please label each document and verify you have provided the requested information by checking the checkboxes below. A complete application shall include:

Attachment # 1 Process Flow Sheet: For **initial** registration applications and for all **substitutions**, removals, and **additions** of equipment applications; include a process flow sheet and/or block diagram indicating:

- ☒ All regulated equipment (Numbering or naming system should cross reference with Attachment #2)
- ☒ All emission points
- ☒ Types of control (if any) applied to those points.

Attachment # 2 Facility Layout Map: Provide a satellite photo or commercial scale map) showing the proposed **layout** of the Facility and the surrounding area including at least 0.25-mile (but not greater than 0.5 mile) distance from the Restricted Area in all directions. The map shall also include (show) the following: NOTE: SEE THUMB DRIVE WITH .KMZ FILES

- ☒ Include the label "Facility Layout Map" and the name of the facility
- ☒ A graphical scale
- ☒ An indicator showing which direction is north
- ☒ The UTM coordinates (or Longitudinal coordinate system on both axis)
- ☒ All emissions units, structures, tanks
- ☒ The access haul roads from the Area of Operations to the perimeter of the Property Boundary. Label the length.
- ☒ Any relevant topographic features of the area
- ☐ Any co-located particulate sources
- ☒ Facility Property Boundary
- ☒ The perimeter of the Restricted Area (fence line). For the complete definition, refer to the 'Definitions' at the end of the GCP permit). If more than one type of barrier is used, identify the types and locations of each barrier that will be used to restrict access from the public.
- ☒ The perimeter of the Area of Operations (see 'Definitions' at the end of the GCP permit).
- ☒ Location of state parks, recreation areas, school yards, residences, businesses, schools, or other occupied structures within ¼ mile of the boundary of the area of operations.
- ☒ If it will fit on this map, identify the Property Boundary owned, leased, or under direct control of the applicant and/or owner or operator (refer to the Definitions at the end of the GCP permit). If it will not fit on this map, show Property Boundary on the Facility Location Map.
- ☒ Initial location of the primary crusher (or, if no crusher, primary screen,) in the Area of Operations

Attachment # 3 Facility Location Map: Provide a satellite photo at least 7 miles on each side or commercial scale map such as a 7.5-minute United States Geological Survey (USGS) topographic quadrangle, with the facility shown at or near the center showing the proposed **location** of the Facility. The map shall also include the following:

☒ Include the label "Facility Location Map" and the name of the facility.
☒ A minimum radius around the plant of 5 km (3.1 miles), showing any Class I area(s)
☒ A graphical scale
☒ An indicator showing which direction is north
☒ The UTM coordinates (or Longitudinal coordinate system on both axis)
☒ Any relevant topographic features of the area
☒ Unless indicated on the Facility Layout Map, show and label the nearest occupied structure, indicating and labeling the shortest distance from it to the perimeter of the Area of Operations, unless the distance is greater than 3.1 miles. If greater than 3.1 miles, so indicate on the map.

Attachment # 4 Public Notice: Documentation that **public notice** has been initiated

1) ☒ Include the General Posting of Notice-Certification (find the Posting Certification in Part X of this registration form), including location of posted notice, along with the posted sample; date of posting, and name of person posting the notice. **This posting is required for both initial applications and relocation applications.** Additionally, provide a verbal description the posting location. The posting at the facility **must be readable by the public from the nearest public road without trespassing on private property**. Do not post it behind a locked gate or on the haul road inside private property.

A newspaper ad is not required for relocation applications

2a) ☐ For initial GCP applications, include an original or copy of the actual newspaper advertisement. The original or copy of the advertisement must include the header showing the date and newspaper or publication title.

OR

2b) ☐ For initial GCP applications, include an affidavit from the newspaper or publication stating that the advertisements were published. The affidavit must include the date of the advertisements' publication, and a legible photocopy of the entire ad.

Attachment #5 Certification:

☒ Certification by the Facility's owner or operator, or authorized representative before a notary public that all the information included in the registration form is true and complete to the best of his or her knowledge (find the Certification in Part XI of this registration form).

X Posting Certification

Posting Certification

General Posting of Notices

General Construction Permits (GCPs)

I, Joel Perovich, the undersigned, certify that on March 11, 2022 (DATE), I posted a true and correct copy of the attached Public Notice in a publicly accessible and conspicuous place, visible from the nearest public road, at the entrance of the property on which the facility is, or is proposed to be, located.

Signed this 17 day of March, 2022,

Signature

3-17-22
Date

Joel Perovich President

Printed Name Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

XI Certification

Company Name: Perovich Properties, Inc. dba Taos Gavel Products

I, Joel Perovich, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 18 day of March, 20 22, upon my oath or affirmation, before a notary of the State of New Mexico.

Signature 3-18-22 **Date**

Joel Perovich **Printed Name** President **Title**

Scribed and sworn before me on this 18 day of March, 20 22.

My authorization as a notary of the State of New Mexico expires on the 18 day of March, 20 24.

Wilma Martinez 03/18/2022
Notary's Signature **Date**

WILMA MARTINEZ
Notary's Printed Name

STATE OF NEW MEXICO
NOTARY PUBLIC
WILMA MARTINEZ
COMMISSION NUMBER 1099214
EXPIRATION DATE 03-18-2024

NOTICE

Perovich Properties, Inc. dba Taos Gravel Products announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a General Construction Permit, **GCP-3-8925 (Hot Mix Asphalt Plant)**. The name of this facility is **Cedarrapids Hot Plant**. The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is March 14, 2022. This notice is a requirement according to New Mexico air quality regulations.

The exact location of the facility is/will be **UTM Zone 13, UTM Easting 434160, UTM Northing 4040046.** The approximate location of this site is **9** miles **northwest** of Taos in Taos County.

Air emissions of any regulated air contaminant will be less than or equal to **[do not change TPY provided]**:

	Tons per year (TPY)
1. Total Suspended Particulates	95
2. Nitrogen Oxides (NO_x)	95
3. Carbon Monoxide (CO)	95
4. Volatile Organic Compounds (VOC)	95
5. Sulfur Dioxide (SO_2)	50
6. Any one (1) Hazardous Air Pollutant (HAP)	8
7. Sum of all Hazardous Air Pollutants (HAPs)	23

The standard operating schedule of this facility will be **during daylight hours only.**

The owner and/or operator of the Plant is:
Perovich Properties, Inc
Dba Taos Gravel Products
PO Box 1620
El Prado, NM 87529

If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

Permits Programs Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
(505) 476-4300

Other comments and questions may be submitted verbally.

Revised: October 22, 2020

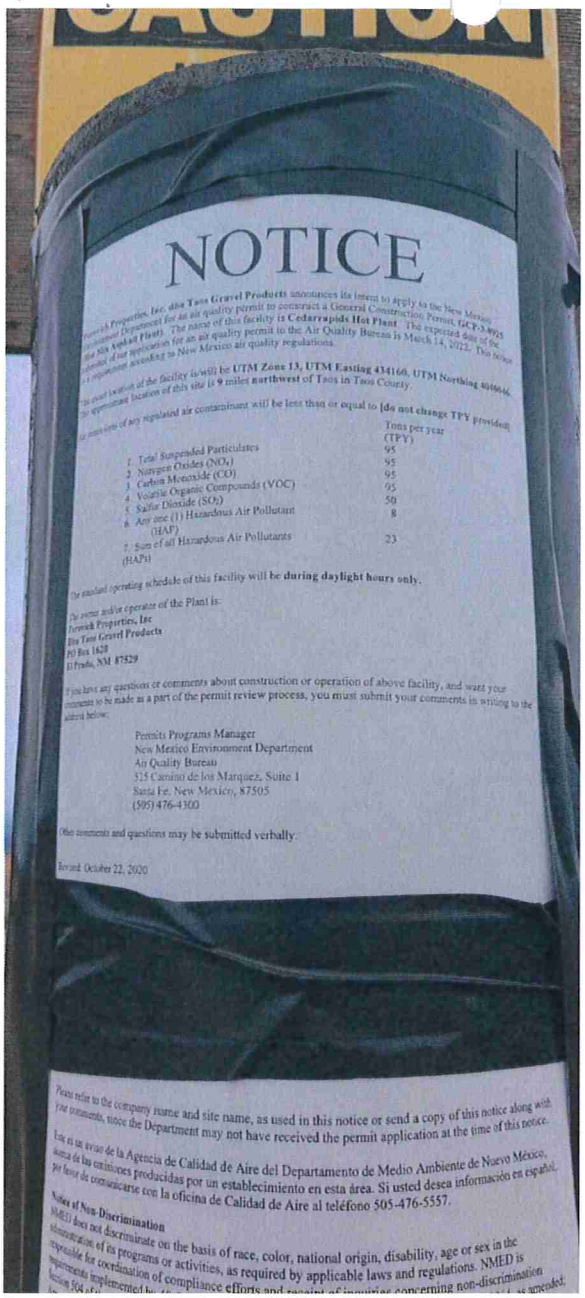
Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.

Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

Notice of Non-Discrimination

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.


POSTED
NO TRESPASSING
KEEP OUT
CAUTION
HARD HATS
REQUIRED
NOTICE



CAUTION

NOTICE

Fernick Properties, Inc. dba **Taos Gravel Products** announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a General Construction Permit, **GCP-3-9925** (the Mix Asphalt Plant). The name of this facility is **Cedarrapids Hot Plant**. The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is March 14, 2022. This notice is a requirement according to New Mexico air quality regulations.

The exact location of the facility is/will be **UTM Zone 13, UTM Easting 434160, UTM Northing 4036646.** The approximate location of this site is **9 miles northwest** of Taos in Taos County.

The estimates of any regulated air contaminant will be less than or equal to **[do not change TPY provided]**

	Tons per year (TPY)
1. Total Suspended Particulates	95
2. Nitrogen Oxides (NO_x)	95
3. Carbon Monoxide (CO)	95
4. Volatile Organic Compounds (VOC)	95
5. Sulfur Dioxide (SO_2)	50
6. Any one (1) Hazardous Air Pollutant (HAP)	8
7. Sum of all Hazardous Air Pollutants (HAPs)	23

The standard operating schedule of this facility will be **during daylight hours only.**

The owner and/or operator of the Plant is:
Fernick Properties, Inc
Dba Taos Gravel Products
PO Box 1620
El Prado, NM 87529

If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

Permits Programs Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
(505) 476-4300

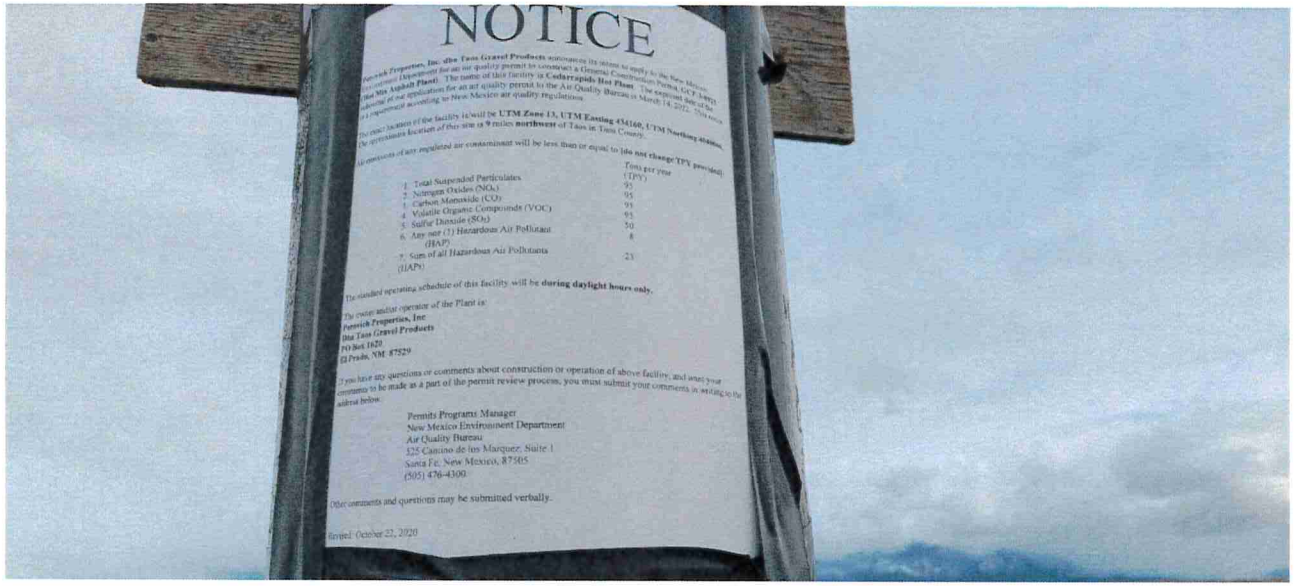
Oho comments and questions may be submitted verbally.

Issued: October 22, 2020

Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.

Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5557.

Notice of Non-Discrimination
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by [illegible] as amended;



NOTICE

Pennick Properties, Inc. dba Taos Gravel Products announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a General Construction Permit, GCP-1 entry. The Mix Asphalt Plant1. The name of this facility is Cedarrapids Hot Plant. The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is March 14, 2022. This notice is required according to New Mexico air quality regulations.

The exact location of the facility is/will be UTM Zone 13, UTM Easting 454160, UTM Northing 4046m. The approximate location of this site is 9 miles northwest of Taos in Taos County.

The emissions of any regulated air contaminant will be less than or equal to (do not change/TPY provided):

	Tons per year (TPY)
1. Total Suspended Particulates	95
2. Nitrogen Oxides (NO_x)	95
3. Carbon Monoxide (CO)	95
4. Volatile Organic Compounds (VOC)	95
5. Sulfur Dioxide (SO_2)	50
6. Any one (1) Hazardous Air Pollutant (HAP)	8
7. Sum of all Hazardous Air Pollutants (HAPs)	25

The standard operating schedule of this facility will be during daylight hours only.

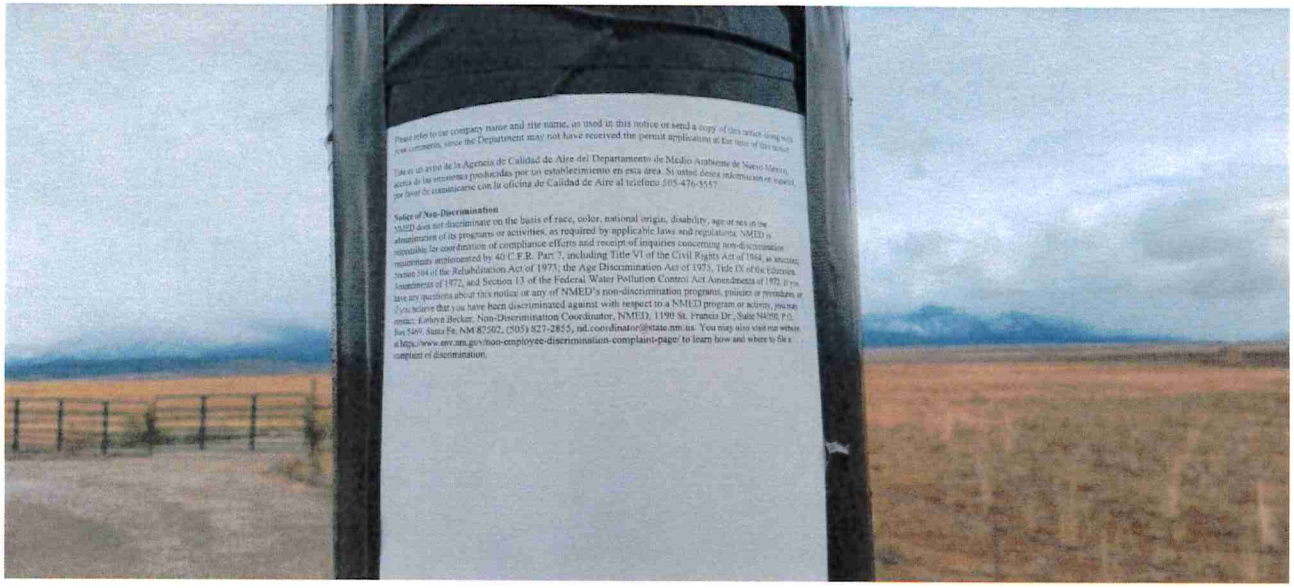
The owner and/or operator of the Plant is:
Pennick Properties, Inc
Dba Taos Gravel Products
PO Box 1620
El Prado, NM 87529

If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:

Permits Program Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
(505) 476-4300

Other comments and questions may be submitted verbally.

Revised: October 22, 2020



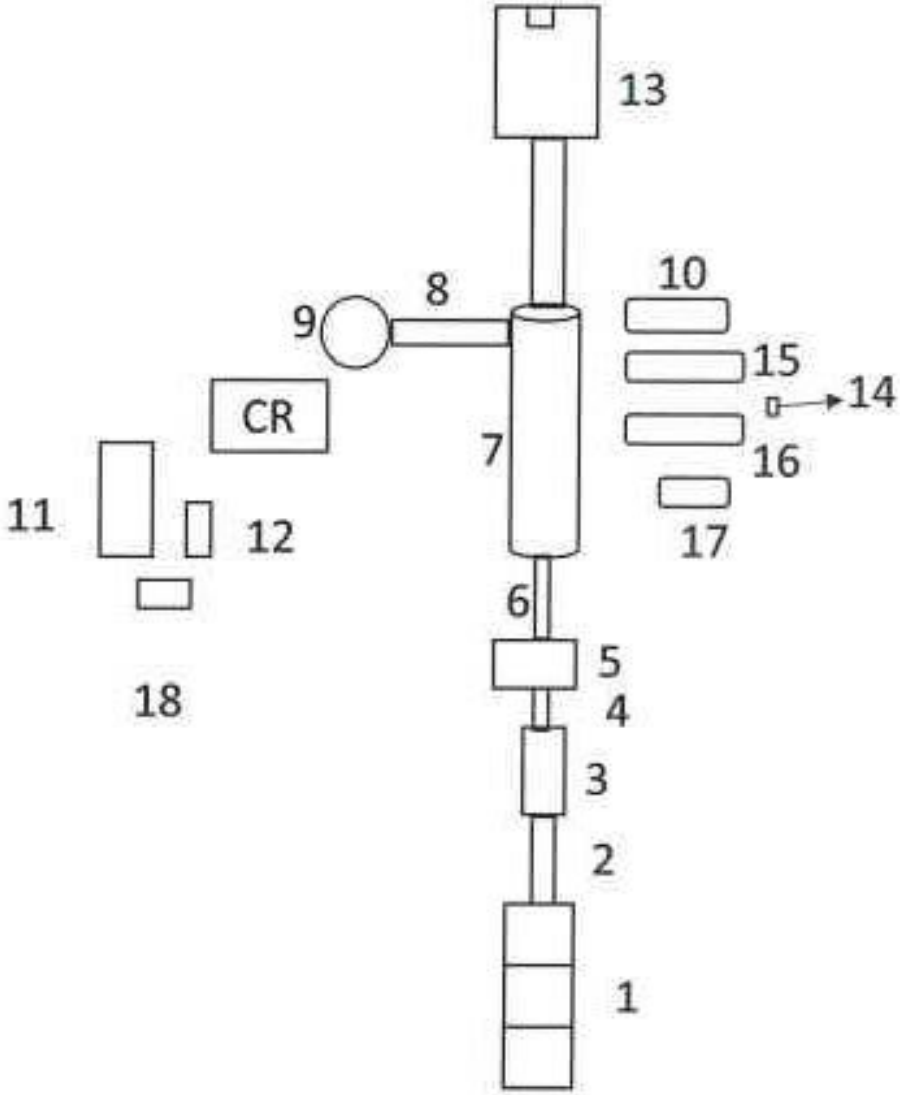
Please refer to the company name and site name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.

Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-3557.

Notice of Non-Discrimination

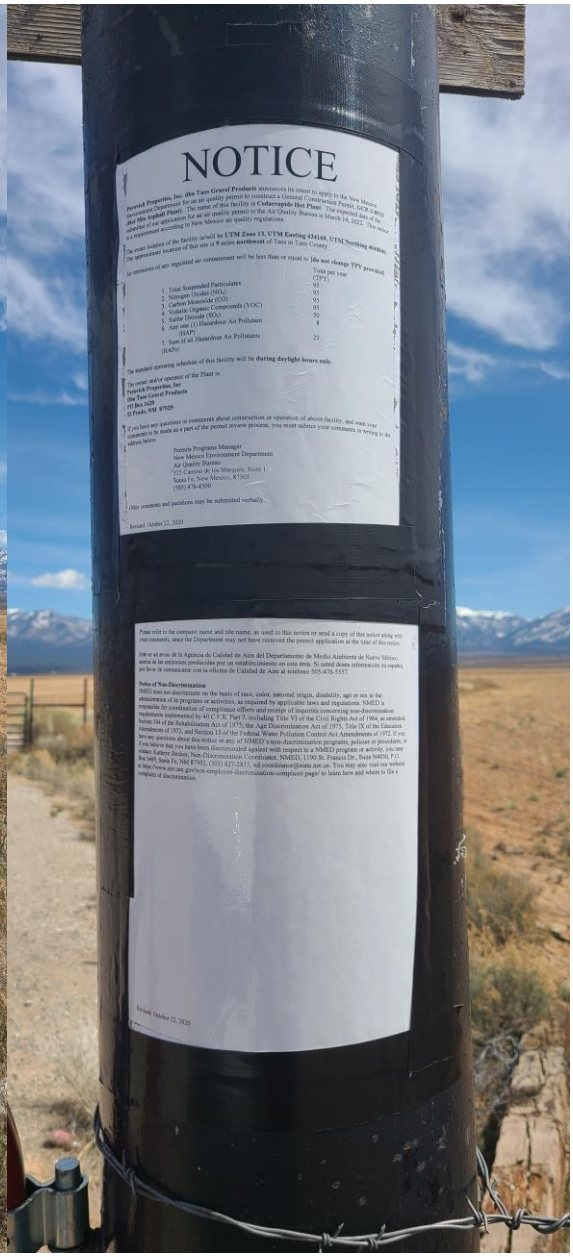
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kotsova Becker, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.

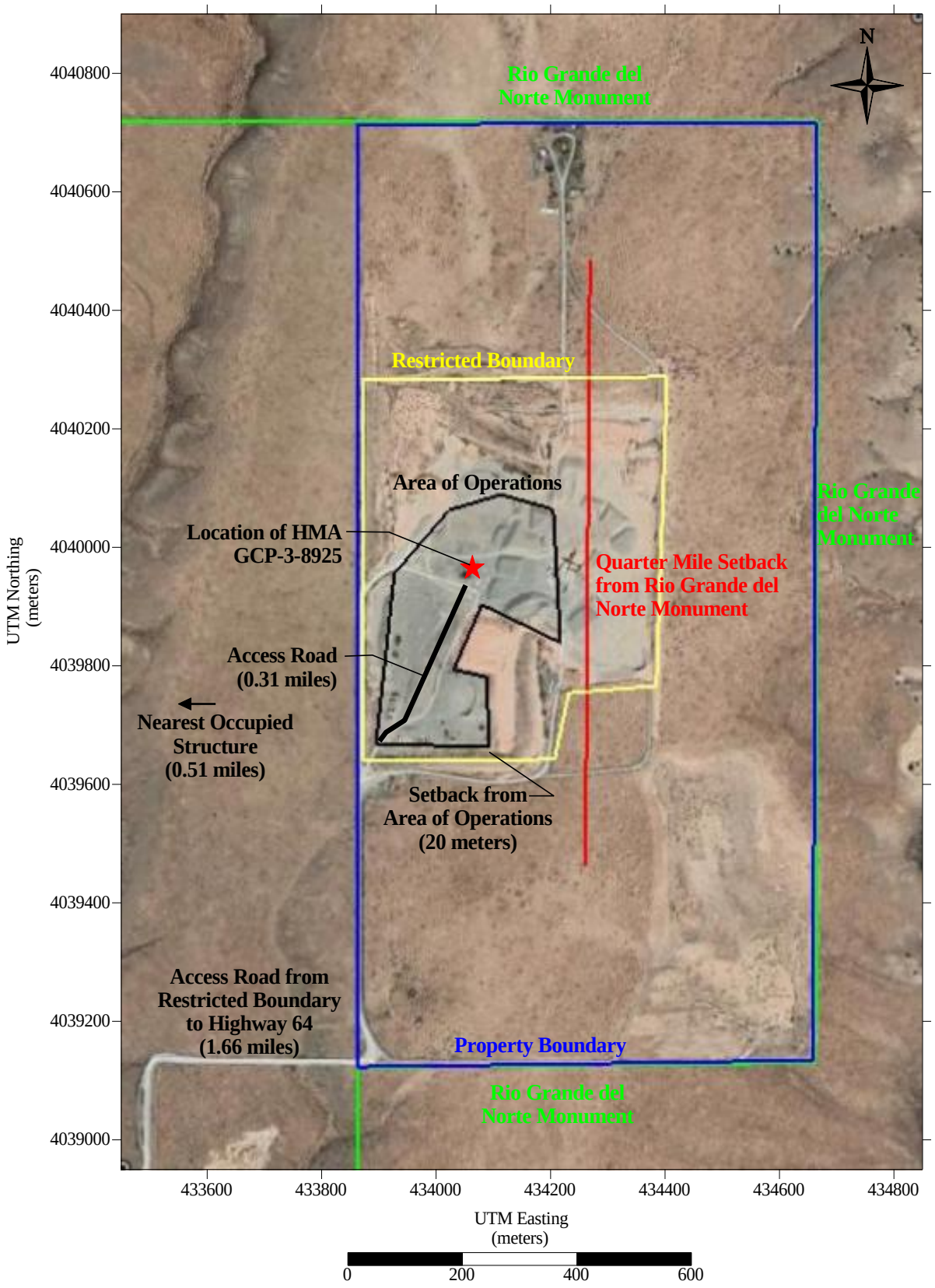
1 Aggregate feed bin
2 Feed Conveyor
3. Screen 3x8
4. Feed Conveyor
5. Pug Mill
6. Conveyor
7. Cedarapids Asphalt Drum
8. Asphalt Conveyor
9. Asphalt Silo
10. Evotherm tank 3000 gal
11. Diesel Generator 755 HP
12. Diesel Generator 100 HP
13. Cedarapids Baghouse
14. Asphalt Heater
15. Hot Asphalt Cement Tank
16. Hot Asphalt Cement Tank
17. Burner Fuel Oil Tank
18. Fuel Oil Day Tank



Attachment 1 – Process Flow Diagram


AUTHORIZED PERSONNEL ONLY
POSTED NO TRESPASSING KEEP OUT
CAUTION HARD HATS REQUIRED
NOTICE


NOTICE
Fenwick Properties, Inc. dba Taos Gravel Products announces its intent to apply to the New Mexico Environment Department for an air quality permit to construct a Gateway Construction Permit, GCP-3 for the Mix Asphalt Plant#1. The name of this facility is Ceberapids Hot Plant. The expected date of the submittal of our application for an air quality permit to the Air Quality Bureau is March 14, 2022. This notice is a requirement according to New Mexico air quality regulations.
The exact location of the facility is/will be UTM Zone 13, UTM Easting 434160, UTM Northing 4046xx. The approximate location of this site is 9 miles northwest of Taos in Taos County.
Air emissions of any regulated air contaminant will be less than or equal to (do not change TPY provided):
1. Total Suspended Particulates — Tons per year (TPY): 95
2. Nitrogen Oxides (NOx): 95
3. Carbon Monoxide (CO): 95
4. Volatile Organic Compounds (VOC): 95
5. Sulfur Dioxide (SOx): 95
6. Any one (1) Hazardous Air Pollutant (HAP): 8
7. Sum of all Hazardous Air Pollutants (HAPs): 23
The standard operating schedule of this facility will be during daylight hours only.
The owner and/or operator of the Plant is:
Fenwick Properties, Inc
dba Taos Gravel Products
PO Box 1020
El Prado, NM 87529
If you have any questions or comments about construction or operation of above facility, and want your comments to be made as a part of the permit review process, you must submit your comments in writing to the address below:
Permits Programs Manager
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico, 87505
(505) 476-4300
Other comments and questions may be submitted verbally.
Revised: October 22, 2020
Please refer to the company name and site name, as listed in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice.
Este es un aviso de la Agencia de Calidad de Aire del Departamento de Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor de comunicarse con la oficina de Calidad de Aire al teléfono 505-476-5537.
Notice of Non-Discrimination
NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kathryn Bridge, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. You may also visit our website at https://www.env.nm.gov/non-employee-discrimination-complaint-page/ to learn how and where to file a complaint of discrimination.
Revised: October 22, 2020



Facility Layout Map

Taos Sand and Gravel, Inc. - NSR Asphalt Mixing Plant Emission Summary
300 TPH

Mix Ratios

Aggregate	94.00%		tons/hr	1192971.86	tons/yr
RAP	0.00%		tons/hr	0	tons/yr
Mineral Filler	0.00%		tons/hr	0	tons/yr
Asphalt Cement	6.00%		tons/hr	76147.14	tons/yr
Aggregate Total			tons/hr	1192971.86	tons/yr
	Total		tons/hr	1269119	tons/yr

1.5 burner fuel oil gallons/ton
1903678.5 burner fuel oil gal/yr

Aggregate Handling Storage Piles

AP-42 Section 13.2.4 "Aggregate Handling"
Ver 11/2006

E(PM) = 0.00660 lbs/ton
E(PM10) = 0.00312 lbs/ton
E(PM2.5) = 0.00047 lbs/ton

E(PM) = 0.00472 lbs/ton
E(PM10) = 0.00223 lbs/ton
E(PM2.5) = 0.00034 lbs/ton
1192971.9 tpy

AP-42 13.2.4 (11/06) E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton
Max tph 1192971.9 tpy
k(pm) 0.74
k(pm10) 0.35
k(pm2.5) 0.053
U Maximum 11 MPH NMED default
U Annual 8.5 MPH 1996-2006 Albuquerque Ave MPH
M 2 %

	tons/yr	
E(pm) Controlled	2.82	Annual Emissions are Controlled by Limiting Annual Production
E(pm10) Controlled	1.33	Annual Emissions are Controlled by Limiting Annual Production
E(pm2.5) Controlled	0.20	Annual Emissions are Controlled by Limiting Annual Production

Aggregate Feed Bin Loading (Cold)

AP-42 Section 13.2.4 "Aggregate Handling"
Ver 11/2006

E(PM) = 0.00660 lbs/ton
E(PM10) = 0.00312 lbs/ton
E(PM2.5) = 0.00047 lbs/ton

E(PM) = 0.00472 lbs/ton
E(PM10) = 0.00223 lbs/ton
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AP-42 13.2.4 (11/06) E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton
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k(pm) 0.74
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U Maximum 11 MPH NMED default
U Annual 8.5 MPH 1996-2006 Albuquerque Ave MPH
M 2 %

	tons/yr	
E(pm) Controlled	2.82	Annual Emissions are Controlled by Limiting Annual Production
E(pm10) Controlled	1.33	Annual Emissions are Controlled by Limiting Annual Production
E(pm2.5) Controlled	0.20	Annual Emissions are Controlled by Limiting Annual Production

Aggregate Feed Bin Unloading

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"
Ver 8/2004

E(PM) = 0.00014 lbs/hr
E(PM10) = 0.000046 lbs/ton
E(PM2.5) = 0.000013 lbs/ton

Throughput 1192971.9 tpy

	tons/yr
E(pm) Controlled	0.084
E(pm10) Controlled	0.027
E(pm2.5) Controlled	0.008

Scalping Screen

AP-42 Table 11.19.2-2 "Screening Controlled"
Ver 8/2004

E(PM) = 0.00220 lbs/hr
E(PM10) = 0.00074 lbs/ton
E(PM2.5) = 0.00005 lbs/ton

Throughput 1192971.9 tpy

	tons/yr
E(pm) Controlled	1.312
E(pm10) Controlled	0.441
E(pm2.5) Controlled	0.030

Taos Sand and Gravel, Inc. - NSR Asphalt Mixing Plant Emission Summary
300 TPH

Scalping Screen Unloading

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(PM) =	0.00014	lbs/hr
Ver 8/2004	E(PM10) =	0.000046	lbs/ton
	E(PM2.5) =	0.000013	lbs/ton
Throughput		1192971.9	tpy
		tons/yr	
E(pm) Controlled		0.084	
E(pm10) Controlled		0.027	
E(pm2.5) Controlled		0.008	

Pug Mill

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(PM) =	0.00014	lbs/hr
Ver 8/2004	E(PM10) =	0.000046	lbs/ton
	E(PM2.5) =	0.000013	lbs/ton
Throughput		1192971.9	tpy
		tons/yr	
E(pm) Controlled		0.084	
E(pm10) Controlled		0.027	
E(pm2.5) Controlled		0.008	

Pug Mill Unloading to Scale Conveyor

AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"	E(PM) =	0.00014	lbs/hr
Ver 8/2004	E(PM10) =	0.000046	lbs/ton
	E(PM2.5) =	0.000013	lbs/ton
Throughput		1192971.9	tpy
		tons/yr	
E(pm) Controlled		0.084	
E(pm10) Controlled		0.027	
E(pm2.5) Controlled		0.008	

Aspahlt Cement Storage Tank
TANKS 4.0.9d

Tank capacity	45000	gallons	2 Tanks total
Tons Per Hour	0	tons	
Tons Per Year	76147.14	tons	
Density	9.22	lbs/gallon	
Gallons Per Hour	0.0	gal/hr	
Gallons Per Year	16517817.8	gal/yr	
Tank Temperature	350	degrees f	
Turnovers	367.0626175	per year	2 Tanks total
Working Loss TOC	250	lbs/yr	
Breathing Loss TOC	0	lbs/yr	
Total TOC	250	lbs/yr	
Total TOC	0.029	lbs/hr	
Total TOC	0.125	tpy	
Total Asphalt Fumes	0.00037	lbs/hr	1.3% of VOC
Total Asphalt Fumes	0.00163	tpy	1.3% of VOC
Mix Temperature	300	degrees f	

Taos Sand and Gravel, Inc. - NSR Asphalt Mixing Plant Emission Summary
300 TPH

Drum Mixer Emissions

Uncontrolled emissions based on AP-42 Section 11.1 "Hot Mix Asphalt Plants" Table 11.1-3, -4, -7, -8, -14

E(PM) =	28.000	lbs/ton	Uncontrolled Drum Mixer	
E(PM10) =	6.500	lbs/ton	Uncontrolled Drum Mixer	
E(PM2.5) =	1.565	lbs/ton	Uncontrolled Drum Mixer	Table 11.1-4 plus condensable
E(NOx) =	0.055	lbs/ton	Uncontrolled Drum Mixer	
E(CO) =	0.130	lbs/ton	Uncontrolled Drum Mixer	
E(SO2) =	0.058	lbs/ton	Uncontrolled Drum Mixer	
E(VOC) =	0.032	lbs/ton	Uncontrolled Drum Mixer	
E(CO2) =	10.210	kg/gal	Uncontrolled Drum Mixer	
E(Asphalt Fumes) =	0.012	lbs/ton	Uncontrolled Drum Mixer	Table 11.1-3 Organic Condensable
E(CO) Silo Filling =	0.000630021	lbs/ton	Uncontrolled Drum Unloading CO	
E(TOC) Silo Filling =	0.006506775	lbs/ton	Uncontrolled Drum Unloading TOC	
E(Asphalt Fumes) Silo Filling =	0.000100700	lbs/ton	Uncontrolled Drum Unloading PM	
E(PM) Silo Filling =	0.000467558	lbs/ton	Uncontrolled Drum Unloading PM	
E(PM10) Silo Filling =	0.000467558	lbs/ton	Uncontrolled Drum Unloading PM	
E(PM2.5) Silo Filling =	0.000467558	lbs/ton	Uncontrolled Drum Unloading PM	
E(CO) Plant Unloading =	0.000720393	lbs/ton	Uncontrolled Silo Loading CO	
E(TOC) Plant Unloading =	0.002220566	lbs/ton	Uncontrolled Silo Loading TOC	
E(Asphalt Fumes) Plant Unloading =	0.000046477	lbs/ton	Uncontrolled Silo Loading PM Organic	
E(PM) Plant Unloading =	0.000363035	lbs/ton	Uncontrolled Silo Loading PM	
E(PM10) Plant Unloading =	0.000363035	lbs/ton	Uncontrolled Silo Loading PM	
E(PM2.5) Plant Unloading =	0.000363035	lbs/ton	Uncontrolled Silo Loading PM	
E(CO) Yard =	0.000352000	lbs/ton	Uncontrolled Yard CO	
E(TOC) Yard =	0.001100000	lbs/ton	Uncontrolled Yard TOC	

PM	lbs/hr	tons/yr	
PM10	lbs/hr	tons/yr	
PM2.5	lbs/hr	tons/yr	
NOx	lbs/hr	tons/yr	
CO	lbs/hr	tons/yr	
CO2	lbs/hr	tons/yr	
SO2	lbs/hr	tons/yr	
VOC	lbs/hr	tons/yr	
Asphalt Fumes	lbs/hr	tons/yr	
CO Silo Filling	lbs/hr	tons/yr	
TOC Silo Filling	lbs/hr	tons/yr	
Asphalt Fumes Silo Filling	lbs/hr	tons/yr	
PM Silo Filling	lbs/hr	tons/yr	
PM10 Silo Filling	lbs/hr	tons/yr	
PM2.5 Silo Filling	lbs/hr	tons/yr	
CO Plant Unloading	lbs/hr	tons/yr	
TOC Plant Unloading	lbs/hr	tons/yr	
Asphalt Fumes Plant Unloading	lbs/hr	tons/yr	
PM Plant Unloading	lbs/hr	tons/yr	
PM10 Plant Unloading	lbs/hr	tons/yr	
PM2.5 Plant Unloading	lbs/hr	tons/yr	
CO Yard	lbs/hr	tons/yr	
TOC Yard	lbs/hr	tons/yr	
Asphalt Fumes Yard	lbs/hr	tons/yr	1.5% of TOC

Controlled emissions based on AP-42 Section 11.1 "Hot Mix Asphalt Plants" Table 11.1-3, -7, -8, -14

E(PM) =	0.033	lbs/ton	Controlled Drum Mixer	99.88 % Control Efficiency	AP-42 Section 11.1
E(PM10) =	0.023	lbs/ton	Controlled Drum Mixer		
E(PM2.5) =	0.023	lbs/ton	Controlled Drum Mixer		
E(NOx) =	0.055	lbs/ton	Controlled Drum Mixer		
E(CO) =	0.130	lbs/ton	Controlled Drum Mixer		
E(CO2) =	10.210	kg/gal	Controlled Drum Mixer		
E(SO2) =	0.058	lbs/ton	Controlled Drum Mixer		
E(VOC) =	0.032	lbs/ton	Controlled Drum Mixer		
E(Asphalt Fumes) =	0.012	lbs/ton	Controlled Drum Mixer	Table 11.1-3 Organic Condensable	
E(CO) Silo Filling =	0.000630021	lbs/ton	Controlled Drum Unloading CO		
E(TOC) Silo Filling =	0.006506775	lbs/ton	Controlled Drum Unloading TOC		
E(Asphalt Fumes) Silo Filling =	0.000100700	lbs/ton	Controlled Drum Unloading TOC		
E(PM) Silo Filling =	0.000467558	lbs/ton	Controlled Drum Unloading PM		
E(PM10) Silo Filling =	0.000467558	lbs/ton	Controlled Drum Unloading PM		
E(PM2.5) Silo Filling =	0.000467558	lbs/ton	Controlled Drum Unloading PM		
E(CO) Plant Unloading =	0.000720393	lbs/ton	Controlled Silo Loading CO		
E(TOC) Plant Unloading =	0.002220566	lbs/ton	Controlled Silo Loading TOC		
E(Asphalt Fumes) Plant Unloading =	0.000046477	lbs/ton	Controlled Silo Loading PM Organic		
E(PM) Plant Unloading =	0.000363035	lbs/ton	Controlled Silo Unloading PM		
E(PM10) Plant Unloading =	0.000363035	lbs/ton	Controlled Silo Unloading PM		
E(PM2.5) Plant Unloading =	0.000363035	lbs/ton	Controlled Silo Unloading PM		
E(CO) Yard =	0.000352000	lbs/ton	Controlled Yard CO		
E(TOC) Yard =	0.001100000	lbs/ton	Controlled Yard TOC		

PM	lbs/hr	20.94	tons/yr	AP-42 11.1
PM10	lbs/hr	14.59	tons/yr	
PM2.5	lbs/hr	14.59	tons/yr	
NOx	lbs/hr	34.90	tons/yr	
CO	lbs/hr	82.49	tons/yr	
CO2	lbs/hr	19436.56	tons/yr	
SO2	lbs/hr	36.80	tons/yr	
VOC	lbs/hr	20.31	tons/yr	
Asphalt Fumes	lbs/hr	7.61	tons/yr	
CO Silo Filling	lbs/hr	0.40	tons/yr	
TOC Silo Filling	lbs/hr	4.13	tons/yr	
Asphalt Fumes Silo Filling	lbs/hr	0.064	tons/yr	
PM Silo Filling	lbs/hr	0.297	tons/yr	
PM10 Silo Filling	lbs/hr	0.297	tons/yr	
PM2.5 Silo Filling	lbs/hr	0.297	tons/yr	
CO Plant Unloading	lbs/hr	0.46	tons/yr	
TOC Plant Unloading	lbs/hr	1.41	tons/yr	
Asphalt Fumes Plant Unloading	lbs/hr	0.029	tons/yr	
PM Plant Unloading	lbs/hr	0.230	tons/yr	
PM10 Plant Unloading	lbs/hr	0.230	tons/yr	
PM2.5 Plant Unloading	lbs/hr	0.230	tons/yr	
CO Yard	lbs/hr	0.223	tons/yr	
TOC Yard	lbs/hr	0.70	tons/yr	
Asphalt Fumes Yard	lbs/hr	0.0105	tons/yr	1.5% of TOC

Taos Sand and Gravel, Inc. - NSR Asphalt Mixing Plant Emission Summary
300 TPH

Haul Road Traffic Unpaved *Haul road traffic includes asphalt trucks, all material deliveries, and water trucks*
AP-42 13.2 Unpaved Road (12/03)
Equation:
E = k(s/12)^a*(W/3)^b*[(365-p)/365] *Annual emissions only include p factor*

k PM	4.9		
k PM10	1.5		
k PM25	0.15		
a PM	0.7		
a PM10	0.9		
a PM25	0.9		
b PM	0.45		
b PM10	0.45		
b PM25	0.45		
% Silt Content = s	4.8	%	Sand and Gravel (AP-42 13.2.2-1)
p = days with precipitation over 0.01 inches	70		

Vehicle control	80.0	%	water and base course				
Truck VMT Unpaved	500.0	meter/vehicle	25	tons/load	0	tons/hr	0.62150404 miles/vehicle
Total	190.0	truck/day					
Total	69350.0	truck/day					

	Miles/yr Controlled		
Truck VMT Unpaved	43101	VMT/yr	
Truck weight	27.5	tons	

		PM Control		
Max. Truck Emissions Unpaved	lbs/hr	24.359	tons/yr	
		PM10 Control		
Max. Truck Emissions Unpaved	lbs/hr	6.2081	tons/yr	
		PM2.5 Control		
Max. Truck Emissions Unpaved	lbs/hr	0.62081	tons/yr	

Haul Road Traffic Paved *Haul road traffic includes asphalt trucks, all material deliveries, and water trucks*
AP-42 13.2 Unpaved Road (12/03)
Equation:
E = k(s/12)^a*(W/3)^b*[(365-p)/365] *Annual emissions only include p factor*

k PM	4.9		
k PM10	1.5		
k PM25	0.15		
a PM	0.7		
a PM10	0.9		
a PM25	0.9		
b PM	0.45		
b PM10	0.45		
b PM25	0.45		
% Silt Content = s	4.8	%	Sand and Gravel (AP-42 13.2.2-1)
p = days with precipitation over 0.01 inches	70		

Vehicle control	95.0	%	paved and sweep				
Truck VMT Paved	2672.0	meter/vehicle	25	tons/load	0	tons/hr	3.321317589 miles/vehicle
Total	190.0	truck/day					
Total	69350.0	truck/day					

	Miles/yr Controlled		
Truck VMT Paved	230333	VMT/yr	
Truck weight	27.5	tons	

		PM Control		
Max. Asphalt Truck Emissions Paved	lbs/hr	32.543	tons/yr	
		PM10 Control		
Max. Asphalt Truck Emissions Paved	lbs/hr	8.294	tons/yr	
		PM2.5 Control		
Max. Asphalt Truck Emissions Paved	lbs/hr	0.829	tons/yr	

Taos Sand and Gravel, Inc. - NSR Asphalt Mixing Plant Emission Summary
Engine Emissions

AP-42 3.4 Emission Factor HP>600

Manufacturer Data	NOx, CO, VOC, and PM Emissions				
Engine Size	545	kW	horsepower	755	
	38.8	gal/hr	%sulfur	0.05	%
Controlled Hours	4380				
Emission Factors					
NOx	0.02400	lbs/hp-hr			
CO	0.00550	lbs/hp-hr	SO2 emissions based on fuel usage		
VOC	0.000705	lbs/hp-hr	gal/hr times 7.0 lbs/gal times fuel %		
SO2	0.272	lbs/hr	sulfur content times a factor of 2.		
PM	0.00070	lbs/hp-hr			
CO2	10.2	kg/gal			
Calculated Controlled Emissions					
NOx	18.12	lbs/hr	39.68	tons/yr	
CO	4.15	lbs/hr	9.09	tons/yr	
VOC	0.53	lbs/hr	1.17	tons/yr	
SO2	0.27	lbs/hr	0.60	tons/yr	
PM	0.53	lbs/hr	1.16	tons/yr	
CO2	396.4	kg/hr	1736.406	mtpy	

AP-42 3.3 Emission Factor HP<600

AP-42 3.3	NOx, CO, VOC, and PM Emissions				
Engine Size	49	kW	horsepower	100	
	5.1	gal/hr	%sulfur	0.05	%
Controlled Hours	4380				
Emission Factors					
NOx	0.03100	lbs/hp	SO2 emissions based on fuel		
CO	0.00668	lbs/hp	usage gal/hr times 7.0 lbs/gal		
VOC	0.00247	lbs/hp	times fuel % sulfur content times		
SO2	0.03600	lbs/hr	a factor of 2.		
PM	0.00220	lbs/hp			
CO2	10.2	kg/gal			
Calculated Controlled Emissions					
NOx	3.10	lbs/hr	6.79	tons/yr	
CO	0.67	lbs/hr	1.46	tons/yr	
VOC	0.25	lbs/hr	0.54	tons/yr	
SO2	0.036	lbs/hr	0.079	tons/yr	
PM	0.22	lbs/hr	0.482	tons/yr	
CO2	51.8	kg/hr	226.748	mtpy	

Taos Sand and Gravel, Inc. - NSR Asphalt Mixing Plant Emission Summary
Asphalt Heater Emissions

Asphalt Heater
AP-42 1.3 (9/98)

Heater Size

	3.8	MMBTU/hr	Heat Rate	128000	BTU/gal
	14.0	gal/hr	%sulfur	0.05	

Controlled Hours 8760

Emission Factors

NOx	20.00	lbs/1000 gal	
CO	5.00	lbs/1000 gal	
VOC	0.34	lbs/1000 gal	
SO2	142S	lbs/1000 gal	S = % sulfur
PM	2.00	lbs/1000 gal	
CO2	10.2	kg/gal	

Calculated Controlled Emissions

NOx	0.280	lbs/hr	1.226	tpy
CO	0.070	lbs/hr	0.307	tpy
VOC	0.0048	lbs/hr	0.021	tpy
SOx	0.099	lbs/hr	0.435	tpy
PM	0.028	lbs/hr	0.123	tpy

Taos Sand and Gravel, Inc. - NSR Asphalt Mixing Plant Emission Summary
Total Controlled Emissions

Controlled Emission Totals																			
		NOx		CO		SO2		VOC		PM		PM10		PM2.5		Asphalt Fumes		CO2	
		lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	mtons/yr
Raw	Cold Aggregate Storage Pile										2.82		1.33		0.20				
1	Feed Bin Loading										2.82		1.33		0.20				
2	Feed Bin Unloading										0.084		0.027		0.008				
3	Scalping Screen										1.31		0.44		0.030				
4	Scalping Screen Unloading										0.084		0.027		0.008				
5	Pug Mill Load										0.084		0.027		0.008				
6	Pug Mill Unoading to Conveyor Transfer										0.084		0.027		0.008				
7,13	Drum Dryer/Baghouse		34.90		82.49		36.80		20.31		20.94		14.59		14.59		7.61		19436.6
8	Drum Mixer Unloading				0.40				4.13		0.30		0.30		0.30		0.06		
9	Asphalt Silo Unloading				0.46				1.41		0.23		0.23		0.23		0.029		
11	Main Plant Generator		39.68		9.09		0.60		1.17		1.16		1.16		1.16				1736.4
12	Standby Generator		6.79		1.46		0.079		0.54		0.48		0.48		0.48				226.7
14	Asphalt Heater Diesel		1.23		0.31		0.44		0.021		0.12		0.12		0.12				1252.2
15,16	Asphalt Cement Storage Tank								0.13								0.0016		
Road	Haul Road Traffic										56.90		14.50		1.45				
Yard	Yard				0.22				0.70								0.010		
	Total		**82.6**		**94.4**		**37.9**		**28.4**		**87.4**		**34.6**		**18.8**		**7.7**		**22652**