NSR MINOR SOURCE PERMIT APPLICATION FOR ROPER CONSTRUCTION, INC. ALTO CBP

Alto, New Mexico

PREPARED FOR

ROPER CONSTRUCTION, INC.

Dated June 14, 2021

Prepared by

Montrose Air Quality Services, LLC

MONTROSE
ENVIRONMENTAL

Mail Application To:		For Department use only:
New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505 Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb		AIRS No.:

Universal Air Quality Permit Application

Use this application for NOI, NSR, or Title V sources.

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well. See Section 1-I for submittal instructions for other permits.

This application is submitted as (check all that apply)**:** ☐ Request for a No Permit Required Determination (no fee)
☐ **Updating** an application currently under NMED review. Include this page and all pages that are being updated (no fee required).
Construction Status: **X** Not Constructed ☐ Existing Permitted (or NOI) Facility ☐ Existing Non-permitted (or NOI) Facility
Minor Source: ☐ a NOI 20.2.73 NMAC **X** 20.2.72 NMAC application or revision ☐ 20.2.72.300 NMAC Streamline application
Title V Source: ☐ Title V (new) ☐ Title V renewal ☐ TV minor mod. ☐ TV significant mod. TV Acid Rain: ☐ New ☐ Renewal
PSD Major Source: ☐ PSD major source (new) ☐ minor modification to a PSD source ☐ a PSD major modification

Acknowledgements:
X I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.
X $500 NSR application Filing Fee enclosed OR ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).
X Check No.: 8335 in the amount of $500
X I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.
X I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/.
☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full $500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: www.env.nm.gov/air-quality/small-biz-eap-2/.)

Citation: Please provide the **low level citation** under which this application is being submitted: **20.2.72.200.A(1) NMAC**
(e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is 20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)

Section 1 – Facility Information

Section 1-A: Company Information

		AI # if known (see 1st 3 to 5 #s of permit IDEA ID No.):	Updating Permit/NOI #:
1	Facility Name: Alto Concrete Batch Plant	Plant primary SIC Code (4 digits): 3273	
		Plant NAIC code (6 digits): 327320	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): The approximate location of this site is 0.35 miles east of the intersection of Highways 48 and 220 north of Ruidoso, NM in Lincoln County.		
2	Plant Operator Company Name: Roper Construction, Inc	Phone/Fax: (575) 973-0440/	
a	Plant Operator Address: 6610 US HWY 380, Carrizozo, NM 88301		

b	Plant Operator's New Mexico Corporate ID or Tax ID: EIN 20-3734510 NM CRS 03-058563-005	
3	Plant Owner(s) name(s): Ryan Roper	Phone/Fax: (575) 973-0440/
a	Plant Owner(s) Mailing Address(s): P.O. Box 969, Alto, NM 88312	
4	Bill To (Company): Roper Construction, Inc	Phone/Fax: (575) 973-0440/
a	Mailing Address: P.O. Box 969, Alto, NM 88312	E-mail: ryan@roper-nm.com
5	☐ Preparer: **X** Consultant: Paul Wade, Montrose Air Quality Services, LLC	Phone/Fax: (505) 830-9680/(505) 830-9678
a	Mailing Address: 3500G Comanche Rd NE, Albuquerque, NM 87107	E-mail: pwade@montrose-env.com
6	Plant Operator Contact: Ryan Roper	Phone/Fax: (575) 973-0440/
a	Address: 6610 US HWY 380, Carrizozo, NM 88301	E-mail: ryan@roper-nm.com
7	Air Permit Contact: Ryan Roper	Title: President
a	E-mail: ryan@roper-nm.com	Phone/Fax: (575) 973-0440/
b	Mailing Address: P.O. Box 969, Alto, NM 88312	
c	The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau.	

Section 1-B: Current Facility Status

1.a	Has this facility already been constructed? ☐ Yes **X** No	1.b If yes to question 1.a, is it currently operating in New Mexico? ☐ Yes ☐ No **X** N/A
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? ☐ Yes ☐ No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? ☐ Yes ☐ No
3	Is the facility currently shut down? ☐ Yes ☐ No **X** N/A	If yes, give month and year of shut down (MM/YY):
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? ☐ Yes **X** No	
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? ☐Yes ☐No **X**N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? ☐ Yes **X** No	If yes, the permit No. is: P-
7	Has this facility been issued a No Permit Required (NPR)? ☐ Yes **X** No	If yes, the NPR No. is:
8	Has this facility been issued a Notice of Intent (NOI)? ☐ Yes **X** No	If yes, the NOI No. is:
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☐ Yes **X** No	If yes, the permit No. is:
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes **X** No	If yes, the register No. is:

Section 1-C: Facility Input Capacity & Production Rate

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly:	Daily:	Annually:
b	Proposed	Hourly: 468.9 tons/hour	Daily: 7033.5 tons/hour	Annually: 1,875,500 tons/hour
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly:	Daily:	Annually:
b	Proposed	Hourly: 125 cubic yards/hour	Daily: 1875 cubic yards/day	Annually: 500,000 cubic yards/yr

Section 1-D: Facility Location Information

1	Section: 27	Range: 13E	Township: 10S	County: Lincoln	Elevation (ft): 7240
2	UTM Zone: ☐ 12 or **X** 13			Datum: ☐ NAD 27 **X** NAD 83 ☐ WGS 84	
a	UTM E (in meters, to nearest 10 meters): 438,240			UTM N (in meters, to nearest 10 meters): 3,697,950	
b	**AND** Latitude (deg., min., sec.): 33°, 25', 08.8511" N			Longitude (deg., min., sec.): 105°, 39', 51.6108" W	
3	Name and zip code of nearest New Mexico town: Ruidoso, 88345				
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From of the intersection of Highways 48 and 70 in Ruidoso travel north on Highway 48 for 10.2 miles and turn east on Highway 220. Travel east for 0.38 miles to the site on the north side of Highway 220.				
5	The facility is 8.2 miles north of Ruidoso.				
6	Status of land at facility (check one): **X** Private ☐ Indian/Pueblo ☐ Federal BLM ☐ Federal Forest Service ☐ Other (specify)				
7	List all municipalities, Indian tribes, and counties within a ten (10) mile radius (20.2.72.203.B.2 NMAC) of the property on which the facility is proposed to be constructed or operated: Lincoln County, Ruidoso, Ruidoso Downs, Capitan				
8	**20.2.72** NMAC applications **only**: Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see www.env.nm.gov/aqb/modeling/class1areas.html)? **X** Yes ☐ No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: White Mountain Wilderness Area - 1.9 kilometers				
9	Name nearest Class I area: White Mountain Wilderness Area				
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 1.91 km				
11	Distance (meters) from the perimeter of the Area of Operations (AO is defined as the plant site inclusive of all disturbed lands, including mining overburden removal areas) to nearest residence, school or occupied structure:				
12	Method(s) used to delineate the Restricted Area: Fencing and signage "**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.				
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? ☐ Yes **X** No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.				
14	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?				

Section 1-E: Proposed Operating Schedule (The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.)

1	Facility **maximum** operating (hours/day): 18	(days/week): 7	(weeks/year): 52	(hours/year): 4509	
2	Facility's maximum daily operating schedule (if less than 24 hours/day)? Start: 3:00	XAM ☐PM	End: 9:00	☐AM XPM	
3	Month and year of anticipated start of construction: Upon Permit Issuance				
4	Month and year of anticipated construction completion: 2 months				
5	Month and year of anticipated startup of new or modified facility: 2 months				
6	Will this facility operate at this site for more than one year? **X** Yes ☐ No				

Section 1-F: Other Facility Information

1	Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? ☐ Yes **X** No If yes, specify:

a	If yes, NOV date or description of issue:			NOV Tracking No:
b	Is this application in response to any issue listed in 1-F, 1 or 1a above? ☐ Yes **X** No If Yes, provide the 1c & 1d info below:			
c	Document Title:	Date:	Requirement # (or page # and paragraph #):	
d	Provide the required text to be inserted in this permit:			
2	Is air quality dispersion modeling or modeling waiver being submitted with this application? **X** Yes ☐ No			
3	Does this facility require an "Air Toxics" permit under 20.2.72.400 NMAC & 20.2.72.502, Tables A and/or B? ☐ Yes **X** No			
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? **X** Yes ☐ No			
a	If Yes, what type of source? ☐ **Major** (☐ ≥10 tpy of any single HAP **OR** ☐ ≥25 tpy of any combination of HAPS) **OR** **X Minor** (**X** <10 tpy of any single HAP **AND** ☐ <25 tpy of any combination of HAPS)			
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? ☐ Yes **X** No			
a	If yes, include the name of company providing commercial electric power to the facility: ___________________________ Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.			

Section 1-G: Streamline Application **(This section applies to 20.2.72.300 NMAC Streamline applications only)**

1	☐ I have filled out Section 18, "Addendum for Streamline Applications." **X** N/A (This is not a Streamline application.)

Section 1-H: Current Title V Information - Required for all applications from TV Sources

(Title V-source required information for all applications submitted pursuant to 20.2.72 NMAC (Minor Construction Permits), or 20.2.74/20.2.79 NMAC (Major PSD/NNSR applications), and/or 20.2.70 NMAC (Title V))

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC):		Phone:
a	R.O. Title:	R.O. e-mail:	
b	R. O. Address:		
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC):		Phone:
a	A. R.O. Title:	A. R.O. e-mail:	
b	A. R. O. Address:		
3	Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship):		
4	Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.):		
a	Address of Parent Company:		
5	Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.):		
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations:		
7	Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers:		

Section 1-I – Submittal Requirements

Each 20.2.73 NMAC (**NOI**), a 20.2.70 NMAC (**Title V**), a 20.2.72 NMAC (**NSR** minor source), or 20.2.74 NMAC (**PSD**) application package shall consist of the following:

Hard Copy Submittal Requirements:

1) One hard copy **original signed and notarized application package printed double sided 'head-to-toe' 2-hole punched** as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be head-to-head. Please use **numbered tab separators** in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. Please include a copy of the check on a separate page.

2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This copy should be printed in book form, 3-hole punched, and **must be double sided**. Note that this is in addition to the head-to-to 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.

3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, **two** CD copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a single CD submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB's secure file transfer service.

Electronic files sent by (check one):

☐ CD/DVD attached to paper application

☐ secure electronic transfer. Air Permit Contact Name____________________________

Email______________________________

Phone number _______________________

a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**

4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.

5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling ***summary report only*** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.

6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
   a. one additional CD copy for US EPA,
   b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
   c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

   If the application is submitted electronically through the secure file transfer service, these extra CDs do not need to be submitted.

Electronic Submittal Requirements [in addition to the required hard copy(ies)]:

1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.

2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible

format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc,), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.

3) It is preferred that this application form be submitted as 4 electronic files (3 MSWord docs: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and 1 Excel file of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.

4) The electronic file names shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Universal Application shall be in the format: "A-3423-FacilityName". The "A" distinguishes the file as an application submittal, as opposed to other documents the Department itself puts into the database. Thus, all electronic application submittals should begin with "A-". Modifications to existing facilities should use the core permit number (i.e. '3423') the Department assigned to the facility as the next 4 digits. Use 'XXXX' for new facility applications. The format of any separate electronic submittals (additional submittals such as non-Word attachments, re-submittals, application updates) and Section document shall be in the format: "A-3423-9-description", where "9" stands for the section # (in this case Section 9-Public Notice). Please refrain, as much as possible, from submitting any scanned documents as this file format is extremely large, which uses up too much storage capacity in our database. Please take the time to fill out the header information throughout all submittals as this will identify any loose pages, including the Application Date (date submitted) & Revision number (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. Do not use special symbols (#, @, etc.) in file names. The footer information should not be modified by the applicant.

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Table 2-A: Regulated Emission Sources

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufact-urer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classi-fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
1	Haul Road	N/A	N/A	N/A	N/A	20.3 truck/hr	NA TBD	NA NA	3-05-011-99	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
2	Feeder Hopper	JEL Manufacturing	TBD	TBD	300 cu.ft	187.5 tph	TBD TBD	NA NA	3-05-011-15	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
3	Feeder Hopper Conveyor	JEL Manufacturing	TBD	TBD	340 tph	187.5 tph	TBD TBD	3b NA	3-05-011-14	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
4	Overhead Aggregate Bins (4)	JEL Manufacturing	TBD	TBD	120 tons	187.5 tph	TBD TBD	4b NA	3-05-011-06	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
5	Aggregate Weigh Batcher	JEL Manufacturing	TBD	TBD	12 yds	187.5 tph	TBD TBD	5b NA	3-05-011-08	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
6	Aggregate Weigh Conveyor	JEL Manufacturing	TBD	TBD	550 tph	187.5 tph	TBD TBD	6b NA	3-05-011-08	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
7	Truck Loading with Baghouse	JEL Manufacturing	TBD	TBD	12 yds/batch	125 cuyd/hr	TBD TBD	7b NA	3-05-011-10	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
8	Cement/Fly Ash Weigh Batcher	JEL Manufacturing	TBD	TBD	12 yds/batch	38.8 tph	TBD TBD	7b NA	3-05-011-99	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
9	Cement Split Silo	JEL Manufacturing	TBD	TBD	1,000 BBL	30.6 tph	TBD TBD	9b NA	3-05-011-07	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
10	Fly Ash Split Silo	JEL Manufacturing	TBD	TBD		8.25 tph	TBD TBD	10b NA	3-05-011-17	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
11	Aggregate/Sand Storage Piles	N/A	N/A	N/A	1 Acre	187.5 tph	TBD TBD	NA NA	3-05-011-99	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
12	Concrete Batch Plant Heaters (3 total)	Navien	TBD	TBD	199,999 Btu/hr (each) x3	0.6 mmBtu/hr	TBD TBD	NA NA	1-01-006-02	☐ Existing (unchanged) ☐ To be Removed x New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.
[2] Specify dates required to determine regulatory applicability.
[3] 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.
[4] "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

Table 2-B: Insignificant Activities[1] (20.2.70 NMAC) OR Exempted Equipment (20.2.72 NMAC)

All 20.2.70 NMAC (Title V) applications must list all Insignificant Activities in this table. All 20.2.72 NMAC applications must list Exempted Equipment in this table. If equipment listed on this table is exempt under 20.2.72.202.B.5, include emissions calculations and emissions totals for 202.B.5 "similar functions" units, operations, and activities in Section 6, Calculations. Equipment and activities exempted under 20.2.72.202 NMAC may not necessarily be Insignificant under 20.2.70 NMAC (and vice versa). Unit & stack numbering must be consistent throughout the application package. Per Exemptions Policy 02-012.00 (see http://www.env.nm.gov/aqb/permit/aqb_pol.html), 20.2.72.202.B NMAC Exemptions do not apply, but 20.2.72.202.A NMAC exemptions do apply to NOI facilities under 20.2.73 NMAC. List 20.2.72.301.D.4 NMAC Auxiliary Equipment for Streamline applications in Table 2-A. The List of Insignificant Activities (for TV) can be found online at https://www.env.nm.gov/wp-content/uploads/sites/2/2017/10/InsignificantListTitleV.pdf. TV sources may elect to enter both TV Insignificant Activities and Part 72 Exemptions on this form.

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
T1	Diesel Storage Tank	TBD	TBD	1000	20.2.72.202.B.2.a	TBD	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			TBD	gallons	NA	TBD	
T2	Diesel Storage Tank	TBD	TBD	1000	20.2.72.202.B.2.a	TBD	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			TBD	gallons	NA	TBD	
T3	Diesel Storage Tank	TBD	TBD	1000	20.2.72.202.B.2.a	TBD	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			TBD	gallons	NA	TBD	
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
							☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

[1] Insignificant activities exempted due to size or production rate are defined in 20.2.70.300.D.6, 20.2.70.7.Q NMAC, and the NMED/AQB List of Insignificant Activities, dated September 15, 2008. Emissions from these insignificant activities do not need to be reported, unless specifically requested.

[2] Specify date(s) required to determine regulatory applicability.

Table 2-C: Emissions Control Equipment

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP's maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s)[1]	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
3b	Additional Moisture Content	TBD	PM10, PM2.5	3	95.82	AP-42 11.19.2
4b	Additional Moisture Content	TBD	PM10, PM2.5	4	95.82	AP-42 11.19.2
5b	Additional Moisture Content	TBD	PM10, PM2.5	5	95.82	AP-42 11.19.2
6b	Additional Moisture Content	TBD	PM10, PM2.5	6	95.82	AP-42 11.19.2
7b	Baghouse - REX Model #200DCS	TBD	PM10, PM2.5	7, 8	99.9	Based on baghouse exit control efficiency
9b	Baghouse - WAM SiloTop Zero	TBD	PM10, PM2.5	9	99.9	Based on baghouse exit control efficiency
10b	Baghouse - WAM SiloTop Zero	TBD	PM10, PM2.5	10	99.9	Based on baghouse exit control efficiency

[1] List each control device on a separate line. For each control device, list all emission units controlled by the control device.

Table 2-D: Maximum Emissions (under normal operating conditions)

☐ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1									1.38	5.78	0.28	1.16	0.068	0.28				
2									0.83	3.66	0.39	1.73	0.060	0.26				
3									0.56	2.46	0.21	0.90	0.031	0.14				
4									0.56	2.46	0.21	0.90	0.031	0.14				
5,6									0.56	2.46	0.21	0.90	0.031	0.14				
7									43.4	190.1	12.0	52.7	2.16	9.48				
8									22.2	97.2	6.05	26.5	1.20	5.25				
9									22.3	97.7	14.4	62.9	2.84	12.5				
10									25.9	113.5	25.9	113.5	9.08	39.7				
11									1.09	4.78	0.52	2.26	0.078	0.34				
12	0.063	0.28	0.053	0.23	0.0070	0.031	0.00068	0.0030	0.0048	0.021	0.0048	0.021	0.0048	0.021				
Totals	**0.063**	**0.28**	**0.053**	**0.23**	**0.00068**	**0.003**	**0.007**	**0.031**	**119**	**520**	**60**	**263**	**15.6**	**68**				

[1]**Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but PM is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E^{-4}).

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
1									1.38	2.64	0.28	0.53	0.068	0.13				
2									0.83	1.16	0.39	0.55	0.060	0.083				
3									0.026	0.053	0.0086	0.017	0.0024	0.0049				
4									0.026	0.053	0.0086	0.017	0.0024	0.0049				
5,6									0.026	0.053	0.0086	0.017	0.0024	0.0049				
7,8									0.066	0.13	0.018	0.036	0.0032	0.0060				
9									0.022	0.045	0.014	0.029	0.0033	0.0057				
10									0.026	0.052	0.0091	0.018	0.0021	0.0036				
11									1.09	1.51	0.52	0.72	0.078	0.11				
12	0.063	0.28	0.053	0.23	0.0070	0.031	0.00068	0.0030	0.0048	0.021	0.0048	0.021	0.0048	0.021				
Totals	**0.063**	**0.28**	**0.053**	**0.23**	**0.00070**	**0.031**	**0.00068**	**0.0030**	**3.50**	**5.72**	**1.26**	**1.95**	**0.23**	**0.37**				

[1] **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Table 2-F: Additional Emissions during Startup, Shutdown, and Routine Maintenance (SSM)

☐ This table is intentionally left blank since all emissions at this facility due to routine or predictable startup, shutdown, or scehduled maintenance are no higher than those listed in Table 2-E and a malfunction emission limit is not already permitted or requested. If you are required to report GHG emissions as described in Section 6a, include any GHG emissions during Startup, Shutdown, and/or Scheduled Maintenance (SSM) in Table 2-P. Provide an explanations of SSM emissions in Section 6 and 6a.

All applications for facilities that have emissions during routine our predictable startup, shutdown or scheduled maintenance (SSM)[1], including NOI applications, must include in this table the Maximum Emissions during routine or predictable startup, shutdown and scheduled maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). In Section 6 and 6a, provide emissions calculations for all SSM emissions reported in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (https://www.env.nm.gov/aqb/permit/aqb_pol.html) for more detailed instructions. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM[2]		PM10[2]		PM2.5[2]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Totals																		

[1] **For instance**, if the short term steady-state Table 2-E emissions are 5 lb/hr and the SSM rate is 12 lb/hr, enter 7 lb/hr in this table. If the annual steady-state Table 2-E emissions are 21.9 TPY, and the number of scheduled SSM events result in annual emissions of 31.9 TPY, enter 10.0 TPY in the table below.

[2] **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

Table 2-G: Stack Exit and Fugitive Emission Rates for Special Stacks

X I have elected to leave this table blank because this facility does not have any stacks/vents that split emissions from a single source or combine emissions from more than one source listed in table 2-A. Additionally, the emission rates of all stacks match the Requested allowable emission rates stated in Table 2-E.

Use this table to list stack emissions (requested allowable) from split and combined stacks. List Toxic Air Pollutants (TAPs) and Hazardous Air Pollutants (HAPs) in Table 2-I. List all fugitives that are associated with the normal, routine, and non-emergency operation of the facility. Unit and stack numbering must correspond throughout the application package. Refer to Table 2-E for instructions on use of the "-" symbol and on significant figures.

Stack No.	Serving Unit Number(s) from Table 2-A	NOx		CO		VOC		SOx		PM		PM10		PM2.5		☐ H_2S or ☐ Lead	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Totals:																	

Table 2-H: Stack Exit Conditions

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions. If the facility has multiple operating scenarios, complete a separate Table 2-H for each scenario and, for each, type scenario name here:

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H-Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
1	7,8	H	No	20.0	Ambient	75.0	NA	NA	66.3	1.20
2	9	H	No	71.0	Ambient	4.58	NA	NA	36.5	0.40
3	10	H	No	71.0	Ambient	4.58	NA	NA	36.5	0.40
4	12	V	Yes	14.0	90	16.61	NA	NA	9.4	1.50

Table 2-J: Fuel

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

Unit No.	Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, …)	Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Specify Units				
			Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
12	Natural gas	Natural gas	945 Btu/scf	634.9 scf/hr	5,561,724 scf/yr	0.75 gtain/100scf	neg

Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A “-” symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

Stack No.	Unit No.(s)	Total HAPs		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP		Provide Pollutant Name Here ☐ HAP or ☐ TAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
	12	0.0012	0.0052																
Totals:		0.0012	0.0052																

Table 2-L: Tank Data

Include appropriate tank-flashing modeling input data. Use an addendum to this table for unlisted data categories. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary. See reference Table 2-L2. Note: 1.00 bbl = 10.159 M3 = 42.0 gal

Tank No.	Date Installed	Materials Stored	Seal Type (refer to Table 2-LR below)	Roof Type (refer to Table 2-LR below)	Capacity		Diameter (M)	Vapor Space (M)	Color (from Table VI-C)		Paint Condition (from Table VI-C)	Annual Throughput (gal/yr)	Turn-overs (per year)
					(bbl)	(M^3)			Roof	Shell			
F1	TBD	Diesel	NA	FX	24	242	1.16	0.2	AS	AS	Good	100,000	100.00
F2	TBD	Diesel	NA	FX	24	242	1.16	0.2	AS	AS	Good	100,000	100.00
F3	TBD	Diesel	NA	FX	24	242	1.16	0.2	AS	AS	Good	100,000	100.00

Table 2-K: Liquid Data for Tanks Listed in Table 2-L

For each tank, list the liquid(s) to be stored in each tank. If it is expected that a tank may store a variety of hydrocarbon liquids, enter "mixed hydrocarbons" in the Composition column for that tank and enter the corresponding data of the most volatile liquid to be stored in the tank. If tank is to be used for storage of different materials, list all the materials in the "All Calculations" attachment, run the newest version of TANKS on each, and use the material with the highest emission rate to determine maximum uncontrolled and requested allowable emissions rate. The permit will specify the most volatile category of liquids that may be stored in each tank. Include appropriate tank-flashing modeling input data. Use additional sheets if necessary. Unit and stack numbering must correspond throughout the application package.

Tank No.	SCC Code	Material Name	Composition	Liquid Density (lb/gal)	Vapor Molecular Weight (lb/lb*mol)	Average Storage Conditions		Max Storage Conditions	
						Temperature (°F)	True Vapor Pressure (psia)	Temperature (°F)	True Vapor Pressure (psia)
T1	3-05-011-99	Diesel	Mixed hydrocarbons	7.05	130	58.54	0.0062	65.66	0.0079
T2	3-05-011-99	Diesel	Mixed hydrocarbons	7.05	130	58.54	0.0062	65.66	0.0079
T3	3-05-011-99	Diesel	Mixed hydrocarbons	7.05	130	58.54	0.0062	65.66	0.0079

Table 2-L2: Liquid Storage Tank Data Codes Reference Table

Roof Type	Seal Type, Welded Tank Seal Type		Seal Type, Riveted Tank Seal Type		Roof, Shell Color	Paint Condition
FX: Fixed Roof	**Mechanical Shoe Seal**	**Liquid-mounted resilient seal**	**Vapor-mounted resilient seal**	**Seal Type**	**WH**: White	Good
IF: Internal Floating Roof	**A**: Primary only	**A**: Primary only	**A**: Primary only	**A**: Mechanical shoe, primary only	**AS**: Aluminum (specular)	Poor
EF: External Floating Roof	**B**: Shoe-mounted secondary	**B**: Weather shield	**B**: Weather shield	**B**: Shoe-mounted secondary	**AD**: Aluminum (diffuse)	
P: Pressure	**C**: Rim-mounted secondary	**C**: Rim-mounted secondary	**C**: Rim-mounted secondary	**C**: Rim-mounted secondary	**LG**: Light Gray	
					MG: Medium Gray	
					BL: Black	
					OT: Other (specify)	

Note: 1.00 bbl = 0.159 M^3 = 42.0 gal

Table 2-M: Materials Processed and Produced (Use additional sheets as necessary.)

Material Processed				Material Produced			
Description	**Chemical Composition**	**Phase (Gas, Liquid, or Solid)**	**Quantity (specify units)**	**Description**	**Chemical Composition**	**Phase**	**Quantity (specify units)**
Aggregate	Aggregate	Solid	118.8 tph	Concrete	Concrete	Solid	125 cuyd/hr
Sand	Sand	Solid	68.8 tph				
Cement	Cement	Solid	30.6 tph				
Fly Ash	Fly Ash	Solid	8.3 tph				
Water	Water	Liquid	3900 gallons				

Table 2-N: CEM Equipment

Enter Continuous Emissions Measurement (CEM) Data in this table. If CEM data will be used as part of a federally enforceable permit condition, or used to satisfy the requirements of a state or federal regulation, include a copy of the CEM's manufacturer specification sheet in the Information Used to Determine Emissions attachment. Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

Stack No.	Pollutant(s)	Manufacturer	Model No.	Serial No.	Sample Frequency	Averaging Time	Range	Sensitivity	Accuracy
NA									

Table 2-O: Parametric Emissions Measurement Equipment

Unit and stack numbering must correspond throughout the application package. Use additional sheets if necessary.

Unit No.	Parameter/Pollutant Measured	Location of Measurement	Unit of Measure	Acceptable Range	Frequency of Maintenance	Nature of Maintenance	Method of Recording	Averaging Time
NA								

Table 2-P: Greenhouse Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box X By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

		CO_2 ton/yr	N_2O ton/yr	CH_4 ton/yr	SF_6 ton/yr	PFC/HFC ton/yr[2]									Total GHG Mass Basis ton/yr[4]	Total CO_2e ton/yr[5]
Unit No.	**GWPs [1]**	**1**	**298**	**25**	**22,800**	**footnote 3**										
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
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	mass GHG															
	CO_2e															
	mass GHG															
	CO2e															
Total	**mass GHG**															
	CO_2e															

[1] **GWP** (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

[2] For **HFCs** or **PFCs** describe the specific HFC or PFC compound and use a separate column for each individual compound.

[3] For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

[4] Green house gas emissions on a **mass basis** is the ton per year green house gas emission before adjustment with its GWP.

[5] **CO_2e** means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

Section 3

Application Summary

The **<u>Application</u> <u>Summary</u>** shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The **<u>Process</u> <u>Summary</u>** shall include a brief description of the facility and its processes.

<u>Startup,</u> <u>Shutdown,</u> <u>and</u> <u>Maintenance</u> <u>(SSM)</u> routine or predictable emissions: Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions.

Roper Construction, Inc. (Roper) is applying for a new 20.2.72 NMAC air quality permit for a 125 cubic yard per hour concrete batch plant (CBP) to be operated within the county of Lincoln, state of New Mexico. The facility will be identified as Alto CBP. Regulation governing this permit application is 20.2.72.200.A(1) NMAC.

Roper Construction's Alto CBP will be located off Highway 220, near Alto, north of Ruidoso in Lincoln County, New Mexico. The exact location of the facility will be UTM Zone 13, UTM Easting 438,235, UTM Northing 3,697,950, NAD 83. The approximate location of this site is 0.35 miles east of the intersection of Highways 48 and 220 north of Ruidoso, NM in Lincoln County.

The 125 cubic yard per hour concrete batch plant (CBP) will include a feed hopper with conveyor, 4-bin cold aggregate bin, aggregate weigh batcher with conveyor, cement/fly ash split silo with baghouse for each side, cement/fly ash weigh batcher with baghouse, concrete mixer truck loading area with baghouse, and natural gas hot water heaters (3 – 199,999 Btu). The plant will be powered by commercial line power. Processed concrete will be transported from the CBP to off-site sales. Haul roads will be paved and maintained to reduce particulate emissions from truck traffic. The CBP will limit hourly processing rate to 125 cubic yards/hour and 500,000 cubic yards per year. The hours of operation are presented below in Table 3-1. Daily throughput per month is presented in Table 3-2. Hot water heater will be permitted to operate 8760 hours per year.

TABLE 3-1: CBP Plant Hours of Operation (MST)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	1	1	1	1	0	0	0	0
4:00 AM	0	0	0	1	1	1	1	1	1	0	0	0
5:00 AM	0	0	1	1	1	1	1	1	1	1	0	0
6:00 AM	0	0	1	1	1	1	1	1	1	1	0	0
7:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
8:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
9:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
10:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
11:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
12:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
1:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
2:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
3:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
4:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
5:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
6:00 PM	0	0	1	1	1	1	1	1	1	1	0	0
7:00 PM	0	0	0	1	1	1	1	1	1	0	0	0
8:00 PM	0	0	0	1	1	1	1	1	1	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	11	11	14	17	18	18	18	18	17	14	11	11

TABLE 3-2: CBP Daily Throughput per Month

Months	**Cubic Yards Per Day**
November through February	1125
March and October	1500
April and September	1750
May through August	1875

Operations will follow the guidelines issued by the department “Air Quality Permitting Guidelines for Night Operations of Crushing and Screening Plants, Hot Mix Asphalt Plants, and Concrete Batch Plants” (Ver.08/14/06). Nighttime conditions acceptable to Roper Construction, Inc. include:

Construction and Operation
The permittee shall install data logger(s) capable of continuously recording differential pressure measured by magnahelic gauges or equivalent differential pressure gauges installed on the Truck Loading Baghouse (Unit 7b). The permittee shall install differential pressure gauges for each silo baghouse (Units 9b and 10b).

Monitoring
The permittee shall, during nighttime loading of the Cement/Fly Ash Split Silo (Units 9 and 10), monitor the differential pressure across either the Cement or Fly Ash Silo Baghouse (Units 9b and 10b) by the use of a differential pressure gauge to ensure it is within the manufacturers or facility determined specified operating range. One reading shall be taken during the silo loading operation.

The permittee shall, during nighttime operation of the plant continuously monitor and record the differential pressure across the Drum Dryer/Mixer Baghouse (Unit 18) by the use of a differential pressure gauge with a data recording system to ensure it is within the manufacturers or facility determined specified operating range.

Recordkeeping
During night operation, the permittee shall record, by the use of a data logger, a continuous record of the differential pressure across Truck Loading Baghouse (Unit 7b).

During silo loading of the Cement/Fly Ash Split Silo (Units 9, 10), the operating baghouse (Units 9b or 10b) differential pressure shall be recorded once.

Routine or predictable emissions during Startup, Shutdown, and Maintenance (SSM)

No SSM emissions are predicted for this permit application. All control systems will be operational prior to the start or shutdown of concrete production. Maintenance will be performed during period with no production.

Section 4

Process Flow Sheet

A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

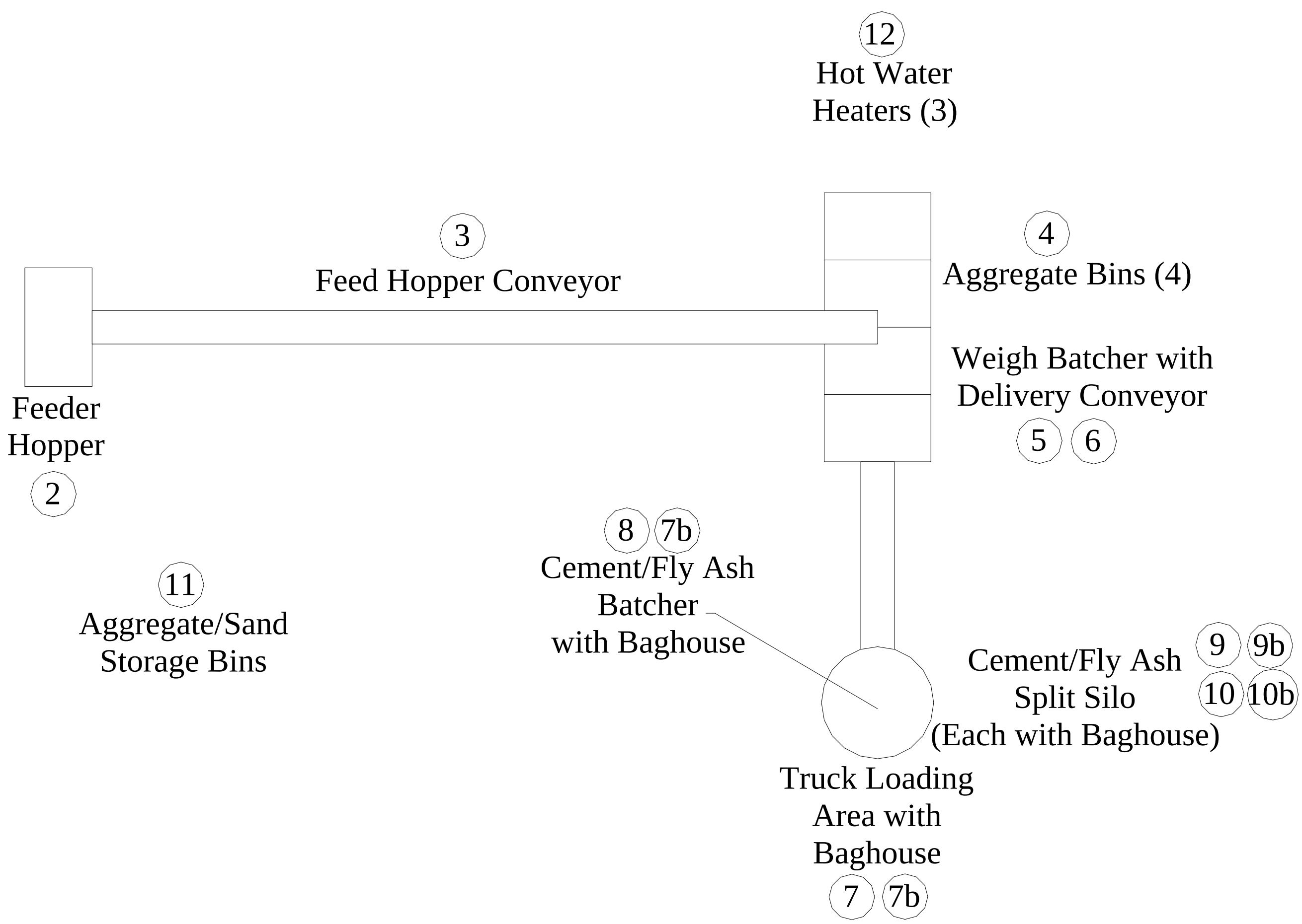

Figure 4-1: Alto CBP Process Flow Diagram

Section 5

Plot Plan Drawn To Scale

A **plot plan drawn to scale** showing emissions points, roads, structures, tanks, and fences of property owned, leased, or under direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. The unit numbering system should be consistent throughout this application.

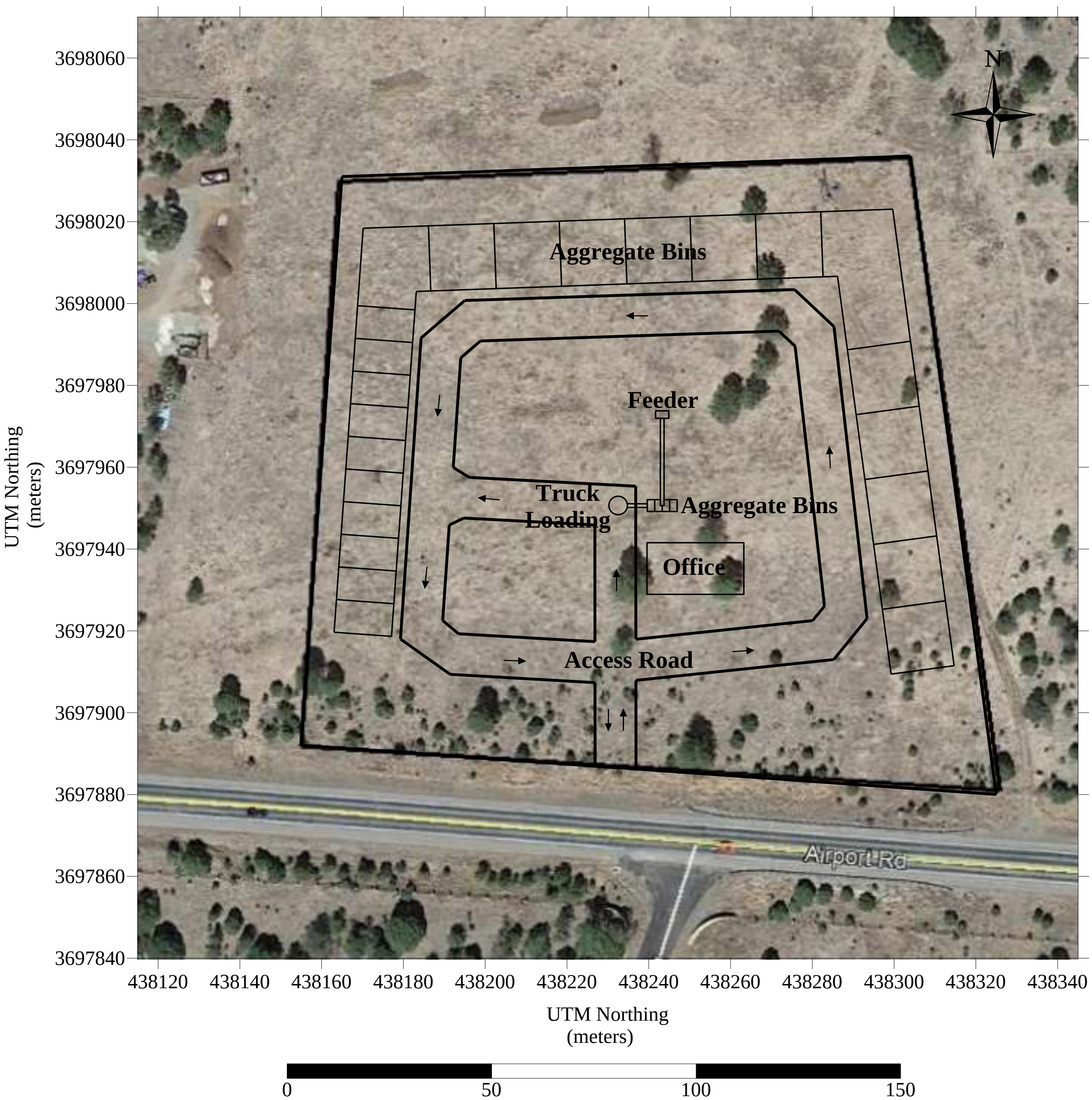

Figure 5-1: Alto CBP Site Plot Plan

Section 6

All Calculations

Show all calculations used to determine both the hourly and annual controlled and uncontrolled emission rates. All calculations shall be performed keeping a minimum of three significant figures. Document the source of each emission factor used (if an emission rate is carried forward and not revised, then a statement to that effect is required). If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units to which the calculations apply. All formulas and calculations used to calculate emissions must be submitted. The "Calculations" tab in the UA2 has been provided to allow calculations to be linked to the emissions tables. Add additional "Calc" tabs as needed. If the UA2 or other spread sheets are used, all calculation spread sheet(s) shall be submitted electronically in Microsoft Excel compatible format so that formulas and input values can be checked. Format all spread sheets and calculations such that the reviewer can follow the logic and verify the input values. Define all variables. If calculation spread sheets are not used, provide the original formulas with defined variables. Additionally, provide subsequent formulas showing the input values for each variable in the formula. All calculations, including those calculations are imbedded in the Calc tab of the UA2 portion of the application, the printed Calc tab(s), should be submitted under this section.

Tank Flashing Calculations: The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., NOI, permit, or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation.

SSM Calculations: It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rational for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowable Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

Glycol Dehydrator Calculations: The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

Road Calculations: Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

Significant Figures:
A. All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.
B. At least 5 significant figures shall be retained in all intermediate calculations.
C. In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

- **(1)** If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;
- **(2)** If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; **and**
- **(3)** If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.
- **(4)** The final result of the calculation shall be expressed in the units of the standard.

Control Devices: In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

Uncontrolled Particulate Emission Rates

Estimates for Uncontrolled Material Handling ($PM_{2.5}$, PM_{10} and PM)

Typical composition of one cubic yard of concrete produced at the Alto Concrete Batch Plant (CBP) will be:

Concrete Design Mix for One Cubic Yard

Materials	Weight Per Cubic Yard (in lbs)	Weights Per 150 Cubic Yards (in ton)
Cement	489	30.6
Fly Ash	132	8.3
Water	260	16.3
Coarse Aggregate(gravel)	1900	118.8
Fine Aggregate (sand)	1100	68.8
Total	3881	242.6

Hourly raw material throughputs used in material handling emission equations are based on the tons per hour throughput.

Aggregate/Sand = 187.5 tons/hour
Cement = 30.6 tons/hour
Fly Ash = 8.3 tons/hour

To estimate material handling uncontrolled particulate emission rates for aggregate handling operations (loading storage piles, loading feeder, loading the 4-bin aggregate feeder), an emission equation was obtained from EPA's Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition, Section 13.2.4 (1/1995), where the k is a constant (PM = 0.74, PM10 = 0.35, PM2.5 = 0.053). Input wind speed for maximum hourly emission rates is the NMED Default of 11 mph and input windspeed for the annual emission rates is the Ruidoso 1996 – 2006 wind speed of 8.3 mph. The moisture content for the aggregate of 1.77% and sand of 4.17% (AP-42 Section 11.12, Table 11.12-2, Footnote b). The weighted average moisture content for sand and aggregate is 2.65% ((1.77 * 213.75 + 4.17 * 123.75)/337.5). To estimate pre-control particulate emissions rates for aggregate handling transfer points (unloading of the feeder, loading and unloading the aggregate bin/weigh batcher), emission factors were obtained from AP-42 Section 11.19.2, Table 11.19.2-2, "Uncontrolled Conveyor Transfer Point". Uncontrolled PM2.5 emission rate is based on the PM2.5/PM10 k factor of 0.053/0.35 found in AP-42 Section 13.2.4 and PM10 emission factor of 0.00110 lbs/ton.

To estimate uncontrolled particulate emission rates for silo loading, cement/fly ash batcher loading operations, and concrete mixer truck loading, emission equations were obtained from EPA's Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition, Section 11.12 (06/06), Table 11.12-2. $PM_{2.5}$ emission factors for concrete mixer truck loading emissions were determined using the ratio of uncontrolled truck loading ratio Table 11.12-3 PM10 * PM2.5/PM10 (0.05/0.278). $PM_{2.5}$ emission factors for cement/fly ash batcher loading emissions were determined using the ratio of uncontrolled mixer loading ratio Table 11.12-4 PM10 * PM2.5/PM10 (0.38/1.92). $PM_{2.5}$ emission factors for cement silo emissions loading were determined using the ratio of uncontrolled mixer loading ratio Table 11.12-4 PM10 * PM2.5/PM10 (0.38/1.92). $PM_{2.5}$ emission factors for fly ash silo emissions loading were determined using the ratio of uncontrolled mixer loading ratio Table 11.12-4 PM10 * PM2.5/PM10 (0.38/1.92).

Maximum rated material throughput is 150 cubic yards per hour. Annual uncontrolled emissions in tons per year (tpy) were calculated assuming operation for 8760 hours per year.

EPA's AP-42, Section 13.2-4 (01/95)

Aggregate Handling Emission Equation – Hourly Emissions

E (lbs/ton) = $k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$

E_{PM} (lbs/ton) = $0.74 \times 0.0032 \times (11/5)^{1.3} / (1.77/2)^{1.4}$

E_{PM10} (lbs/ton) = $0.35 \times 0.0032 \times (11/5)^{1.3} / (1.77/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = $0.053 \times 0.0032 \times (11/5)^{1.3} / (1.77/2)^{1.4}$

E_{PM} = 0.00783 lbs/ton; E_{PM10} = 0.00370 lbs/ton; $E_{PM2.5}$ = 0.00056 lbs/ton

Sand Handling Emission Equation – Hourly Emissions

E (lbs/ton) = $k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$

E_{PM} (lbs/ton) = $0.74 \times 0.0032 \times (11/5)^{1.3} / (4.17/2)^{1.4}$

E_{PM10} (lbs/ton) = $0.35 \times 0.0032 \times (11/5)^{1.3} / (4.17/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = $0.053 \times 0.0032 \times (11/5)^{1.3} / (4.17/2)^{1.4}$

E_{PM} = 0.00236 lbs/ton; E_{PM10} = 0.00112 lbs/ton; $E_{PM2.5}$ = 0.00017 lbs/ton

Aggregate/Sand Handling Emission Equation – Hourly Emissions

E (lbs/ton) = $k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$

E_{PM} (lbs/ton) = $0.74 \times 0.0032 \times (11/5)^{1.3} / (2.65/2)^{1.4}$

E_{PM10} (lbs/ton) = $0.35 \times 0.0032 \times (11/5)^{1.3} / (2.65/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = $0.053 \times 0.0032 \times (11/5)^{1.3} / (2.65/2)^{1.4}$

E_{PM} = 0.00445 lbs/ton; E_{PM10} = 0.00211 lbs/ton; $E_{PM2.5}$ = 0.00032 lbs/ton

Aggregate Handling Emission Equation – Annual Emissions

E (lbs/ton) = $k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$

E_{PM} (lbs/ton) = $0.74 \times 0.0032 \times (8.3/5)^{1.3} / (1.77/2)^{1.4}$

E_{PM10} (lbs/ton) = $0.35 \times 0.0032 \times (8.3/5)^{1.3} / (1.77/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = $0.053 \times 0.0032 \times (8.3/5)^{1.3} / (1.77/2)^{1.4}$

E_{PM} = 0.00543 lbs/ton; E_{PM10} = 0.00257 lbs/ton; $E_{PM2.5}$ = 0.00039 lbs/ton

<u>**Sand Handling Emission Equation – Annual Emissions**</u>

E (lbs/ton) = k x 0.0032 x $(U/5)^{1.3}$ / $(M/2)^{1.4}$

E_{PM} (lbs/ton) = 0.74 x 0.0032 x $(8.3/5)^{1.3}$ / $(4.17/2)^{1.4}$

E_{PM10} (lbs/ton) = 0.35 x 0.0032 x $(8.3/5)^{1.3}$ / $(4.17/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = 0.053 x 0.0032 x $(8.3/5)^{1.3}$ / $(4.17/2)^{1.4}$

E_{PM} = 0.00164 lbs/ton; E_{PM10} = 0.00077 lbs/ton; $E_{PM2.5}$ = 0.00012 lbs/ton

<u>**Aggregate/Sand Handling Emission Equation – Annual Emissions**</u>

E (lbs/ton) = k x 0.0032 x $(U/5)^{1.3}$ / $(M/2)^{1.4}$

E_{PM} (lbs/ton) = 0.74 x 0.0032 x $(8.3/5)^{1.3}$ / $(2.65/2)^{1.4}$

E_{PM10} (lbs/ton) = 0.35 x 0.0032 x $(8.3/5)^{1.3}$ / $(2.65/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = 0.053 x 0.0032 x $(8.3/5)^{1.3}$ / $(2.65/2)^{1.4}$

E_{PM} = 0.00309 lbs/ton; E_{PM10} = 0.00146 lbs/ton; $E_{PM2.5}$ = 0.00022 lbs/ton

EPA's AP-42, Section 11.19.2 (08/04), Table 11.19.2-2

<u>Conveyor Transfer Point Uncontrolled</u>

E_{PM} (lbs/ton) = 0.003 lbs/ton; E_{PM10} (lbs/ton) = 0.0011 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.000167 lbs/ton

EPA's AP-42, Section 11.12 (06/06), Table 11.12-2

<u>Cement Silo Loading Emission Factor</u>

E_{PM} (lbs/ton) = 0.73 lbs/ton; E_{PM10} (lbs/ton) = 0.47 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.0930 lbs/ton

<u>Fly Ash Silo Loading Emission Factor</u>

E_{PM} (lbs/ton) = 3.14 lbs/ton; E_{PM10} (lbs/ton) = 1.10 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.2177 lbs/ton

<u>Cement/Fly Ash Batcher Loading Emission Factor</u>

E_{PM} (lbs/ton) = 0.572 lbs/ton; E_{PM10} (lbs/ton) = 0.156 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.0309 lbs/ton

<u>Concrete Truck Loading Emission Factor</u>

E_{PM} (lbs/ton) = 1.118 lbs/ton; E_{PM10} (lbs/ton) = 0.31 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.0558 lbs/ton

<u>**Uncontrolled Emission Factors:**</u>

Process Unit	PM Emission Factor (lbs/ton)	PM10 Emission Factor (lbs/ton)	PM2.5 Emission Factor (lbs/ton)
Aggregate Material Handling - Hourly	0.00783	0.00370	0. 00056
Sand Material Handling - Hourly	0.00236	0.00112	0. 00017
Aggregate/Sand Material Handling - Hourly	0.00445	0.00211	0.00032
Aggregate Material Handling - Annually	0.00543	0.00257	0. 00039
Sand Material Handling - Annually	0.00164	0.00077	0. 00012
Aggregate/Sand Material Handling - Annually	0.00309	0.00146	0.00022
Aggregate Transfer Points	0.0030	0.0011	0.000167
Cement Silo	0.73	0.47	0.0930

Process Unit	PM Emission Factor (lbs/ton)	PM10 Emission Factor (lbs/ton)	PM2.5 Emission Factor (lbs/ton)
Fly Ash Silo	3.14	1.10	0.2177
Cement/Fly Ash Batcher	0.572	0.156	0.0309
Truck Loading	1.118	0.31	0.0558

The following equations were used to calculate the hourly emission rate for each process unit:

Emission Rate (lbs/hour) = Process Rate (tons/hour) * Emission Factor (lbs/ton)

The following equations was used to calculate the annual emission rate for each process unit:

$$\text{Emission Rate (tons/year)} = \frac{\text{Emission Rate (lbs/hour)} * \text{Operating Hour (hrs/year)}}{\text{2000 lbs/ton}}$$

Table 6-1: Pre-Controlled Material Handling Particulate Emissions (PER)

Process Unit #	Process Unit Description	Process Rate	PM Emission Rate (lbs/hr)	PM Emission Rate (tons/yr)	PM_{10} Emission Rate (lbs/hr)	PM_{10} Emission Rate (tons/yr)	$PM_{2.5}$ Emission Rate (lbs/hr)	$PM_{2.5}$ Emission Rate (tons/yr)
2	Aggregate/Sand Feeder Loading	187.5 tph	0.83	3.66	0.39	1.73	0.060	0.26
3	Feed Hopper Conveyor	187.5 tph	0.56	2.46	0.21	0.90	0.031	0.14
4	4-Bin Aggregate Bin	187.5 tph	0.56	2.46	0.21	0.90	0.031	0.14
5,6	Aggregate Weigh Batcher and Conveyor	187.5 tph	0.56	2.46	0.21	0.90	0.031	0.14
7	Truck Loading	150 cuyd/hr	43.4	190.1	12.0	52.7	2.16	9.48
8	Cement/Fly Ash Batcher	150 cuyd/hr	22.2	97.2	6.05	26.5	1.20	5.25
9	Cement Split Silo	150 cuyd/hr	22.3	97.7	14.4	62.9	2.84	12.5
10	Fly Ash Split Silo	150 cuyd/hr	25.9	113.5	25.9	113.5	9.08	39.7
11	Aggregate/Sand Storage Piles	187.5 tph	1.09	4.78	0.52	2.26	0.078	0.34
		TOTALS	**117.4**	**514.3**	**59.9**	**262.3**	**15.5**	**67.9**

Haul truck travel emissions were estimated using AP-42, Section 13.2.1 (ver.01/11) “Paved Roads” emission equation. Haul trucks will be used to deliver cement, fly ash, aggregate material, sand material, and transport concrete product.

AP-42 13.1 Paved Road (01/11)

Equation:

E = k(sL)^0.91*(W)^1.02*[1-P/4N] *Annual emissions only include p factor*

k PM	0.011					
k PM10	0.0022					
k PM25	0.00054					
sL	0.6	road surface silt loading (g/m2) Table 13.2.1-2, <500				
P = days with precipitation over 0.01 inches	60	AP-42 Figure 13.2.2-1				
N = number of days in averaging period	365					
Fly Ash Truck VMT	429	meter/RT	23	tons/load	8.3	tons/hr
Cement Truck VMT	429	meter/RT	23	tons/load	30.6	tons/hr
Aggregate/Sand Truck VMT	785	meter/RT	23	tons/load	187.5	tons/hr
Concrete Truck VMT	429	meter/RT	12	cuyd/load	125	cuyd/hr
Max. Fly Ash Truck/hr	0.4	truck/hr	3142.2	trucks/yr		
Max. Cement Truck/hr	1.3	truck/hr	11640.3	trucks/yr		
Max. Aggregate/Sand Truck/hr	8.2	truck/hr	71413.0	trucks/yr		
Max Concrete Trucks/hr	10.4	truck/hr	91250.0	trucks/yr		
	20.3	truck/hr	177445.5	trucks/yr		
Vehicle Miles Traveled	7.1999	VMT/hr				
	63071.5	VMT/yr				
Fly Ash, Cement, Aggregate, Sand Truck weight	26.5	tons	15-ton truck tare			
Concrete Truck weight	25	tons				

		PM Uncontrolled		
Max. Truck Emissions Paved Road	1.3765	lbs/hr	5.7814	tons/yr
		PM10 Uncontrolled		
	0.2753	lbs/hr	1.1563	tons/yr
		PM2.5 Uncontrolled		
	0.0676	lbs/hr	0.2838	tons/yr

Estimates for Controlled Material Handling Air Pollutants ($PM_{2.5}$, PM_{10}, and PM) (PTE)

No controls will be included for Units 1, 2, or 11 with the exception on limiting annual throughput. Fugitive dust emissions from material handling sources (Units 3, 4, 5, 6) will be controlled by adding water sprays at the exit of the aggregate/sand feed hopper (EPA AP-42 control efficiency of 95.82%).

To estimate material handling control particulate emission rates for aggregate handling operations (loading storage piles, and loading feed hopper), an emission equation was obtained from EPA's Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition, Section 13.2.4 (1/1995), where the k is a constant (PM = 0.74, PM10 = 0.35, PM2.5 = 0.053). Input wind speed for maximum hourly emission rates is the NMED Default of 11 mph and input windspeed for the annual emission rates is the Ruidoso 1996 – 2006 wind speed of 8.3 mph. The moisture content for the aggregate of 1.77% and sand of 4.17% (AP-42 Section 11.12, Table 11.12-2, Footnote b). The weighted average moisture content for sand and aggregate is 2.65% ((1.77 * 213.75 + 4.17 * 123.75)/337.5). To estimate particulate emissions rates for aggregate handling transfer points (unloading of the feeder, loading and unloading the aggregate bin/weigh batcher), emission factors were obtained from AP-42 Section 11.19.2, Table 11.19.2-2, "Conveyor Transfer Point Controlled". Additional reductions for annual emissions are found in limiting annual production.

To estimate control particulate emission rates for silo loading, cement/fly ash batcher loading operations, and concrete mixer truck loading, emission equations were obtained from EPA's Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition, Section 11.12 (06/06), Table 11.12-2 and multiplied by the percent control efficiency of the dust collector baghouse. The dust collector baghouses will control dust to a 99.9 percent efficiency. $PM_{2.5}$ emission factors for concrete mixer truck loading emissions were determined using the ratio of controlled truck loading ratio Table 11.12-3 PM10 * PM2.5/PM10 (0.48/0.32). $PM_{2.5}$ emission factors for cement/fly ash batcher loading emissions were determined using the ratio of controlled mixer loading ratio Table 11.12-4 PM10 * PM2.5/PM10 (0.03/0.13). $PM_{2.5}$ emission factors for cement silo emissions loading were determined using the ratio of controlled mixer loading ratio Table 11.12-4 PM10 * PM2.5/PM10 (0.03/0.13). $PM_{2.5}$ emission factors for fly ash silo emissions loading were determined using the ratio of controlled mixer loading ratio Table 11.12-4 PM10 * PM2.5/PM10 (0.03/0.13).

Maximum rated material throughput is 125 cubic yards per hour. Annual emissions in tons per year (tpy) were calculated assuming operation of 500,000 cubic yards per year.

Aggregate Handling Emission Equation – Hourly Emissions

E (lbs/ton) = $k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$

E_{PM} (lbs/ton) = $0.74 \times 0.0032 \times (11/5)^{1.3} / (1.77/2)^{1.4}$

E_{PM10} (lbs/ton) = $0.35 \times 0.0032 \times (11/5)^{1.3} / (1.77/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = $0.053 \times 0.0032 \times (11/5)^{1.3} / (1.77/2)^{1.4}$

E_{PM} = 0.00783 lbs/ton; E_{PM10} = 0.00370 lbs/ton; $E_{PM2.5}$ = 0.00056 lbs/ton

Sand Handling Emission Equation – Hourly Emissions

E (lbs/ton) = $k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4}$

E_{PM} (lbs/ton) = $0.74 \times 0.0032 \times (11/5)^{1.3} / (4.17/2)^{1.4}$

E_{PM10} (lbs/ton) = $0.35 \times 0.0032 \times (11/5)^{1.3} / (4.17/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = $0.053 \times 0.0032 \times (11/5)^{1.3} / (4.17/2)^{1.4}$

E_{PM} = 0.00236 lbs/ton; E_{PM10} = 0.00112 lbs/ton; $E_{PM2.5}$ = 0.00017 lbs/ton

Aggregate/Sand Handling Emission Equation – Hourly Emissions
E (lbs/ton) = k x 0.0032 x $(U/5)^{1.3}$ / $(M/2)^{1.4}$
E_{PM} (lbs/ton) = 0.74 x 0.0032 x $(11/5)^{1.3}$ / $(2.65/2)^{1.4}$
E_{PM10} (lbs/ton) = 0.35 x 0.0032 x $(11/5)^{1.3}$ / $(2.65/2)^{1.4}$
$E_{PM2.5}$ (lbs/ton) = 0.053 x 0.0032 x $(11/5)^{1.3}$ / $(2.65/2)^{1.4}$
E_{PM} = 0.00445 lbs/ton; E_{PM10} = 0.00211 lbs/ton; $E_{PM2.5}$ = 0.00032 lbs/ton

Aggregate Handling Emission Equation – Annual Emissions
E (lbs/ton) = k x 0.0032 x $(U/5)^{1.3}$ / $(M/2)^{1.4}$
E_{PM} (lbs/ton) = 0.74 x 0.0032 x $(8.3/5)^{1.3}$ / $(1.77/2)^{1.4}$
E_{PM10} (lbs/ton) = 0.35 x 0.0032 x $(8.3/5)^{1.3}$ / $(1.77/2)^{1.4}$
$E_{PM2.5}$ (lbs/ton) = 0.053 x 0.0032 x $(8.3/5)^{1.3}$ / $(1.77/2)^{1.4}$
E_{PM} = 0.00543 lbs/ton; E_{PM10} = 0.00257 lbs/ton; $E_{PM2.5}$ = 0.00039 lbs/ton

Sand Handling Emission Equation – Annual Emissions
E (lbs/ton) = k x 0.0032 x $(U/5)^{1.3}$ / $(M/2)^{1.4}$
E_{PM} (lbs/ton) = 0.74 x 0.0032 x $(8.3/5)^{1.3}$ / $(4.17/2)^{1.4}$
E_{PM10} (lbs/ton) = 0.35 x 0.0032 x $(8.3/5)^{1.3}$ / $(4.17/2)^{1.4}$
$E_{PM2.5}$ (lbs/ton) = 0.053 x 0.0032 x $(8.3/5)^{1.3}$ / $(4.17/2)^{1.4}$
E_{PM} = 0.00164 lbs/ton; E_{PM10} = 0.00077 lbs/ton; $E_{PM2.5}$ = 0.00012 lbs/ton

Aggregate/Sand Handling Emission Equation – Annual Emissions
E (lbs/ton) = k x 0.0032 x $(U/5)^{1.3}$ / $(M/2)^{1.4}$
E_{PM} (lbs/ton) = 0.74 x 0.0032 x $(8.3/5)^{1.3}$ / $(2.65/2)^{1.4}$
E_{PM10} (lbs/ton) = 0.35 x 0.0032 x $(8.3/5)^{1.3}$ / $(2.65/2)^{1.4}$
$E_{PM2.5}$ (lbs/ton) = 0.053 x 0.0032 x $(8.3/5)^{1.3}$ / $(2.65/2)^{1.4}$
E_{PM} = 0.00309 lbs/ton; E_{PM10} = 0.00146 lbs/ton; $E_{PM2.5}$ = 0.00022 lbs/ton

EPA's AP-42, Section 11.19.2 (08/04), Table 11.19.2-2

Conveyor Transfer Point Controlled
E_{PM} (lbs/ton) = 0.00014 lbs/ton; E_{PM10} (lbs/ton) = 0.000046 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.000013 lbs/ton

EPA's AP-42, Section 11.12 (06/06), Table 11.12-2

Cement Silo Loading Emission Factor
E_{PM} (lbs/ton) = 0.00073 lbs/ton; E_{PM10} (lbs/ton) = 0.00047 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.000108 lbs/ton
Fly Ash Silo Loading Emission Factor
E_{PM} (lbs/ton) = 0.00314 lbs/ton; E_{PM10} (lbs/ton) = 0.00110 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.0002177 lbs/ton
Cement/Fly Ash Batcher Loading Emission Factor
E_{PM} (lbs/ton) = 0.000572 lbs/ton; E_{PM10} (lbs/ton) = 0.000156 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.0000309 lbs/ton
Concrete Truck Loading Emission Factor
E_{PM} (lbs/ton) = 0.001118 lbs/ton; E_{PM10} (lbs/ton) = 0.00031 lbs/ton; $E_{PM2.5}$ (lbs/ton) = 0.0000558 lbs/ton

Controlled Emission Factors: Emission Factors:

Process Unit	PM Emission Factor (lbs/ton)	PM10 Emission Factor (lbs/ton)	PM2.5 Emission Factor (lbs/ton)
Aggregate Material Handling - Hourly	0.00783	0.00370	0. 00056
Sand Material Handling - Hourly	0.00236	0.00112	0. 00017
Aggregate/Sand Material Handling - Hourly	0.00445	0.00211	0.00032
Aggregate Material Handling - Annually	0.00543	0.00257	0. 00039
Sand Material Handling - Annually	0.00164	0.00077	0. 00012
Aggregate/Sand Material Handling - Annually	0.00309	0.00146	0.00022
Aggregate Transfer Points	0.00014	0.000046	0.000013
Cement Silo	0.00073	0.00047	0.0000930
Fly Ash Silo	0.00314	0.00110	0.0002177
Cement/Fly Ash Batcher	0.000572	0.000156	0.0000309
Truck Loading	0.001118	0.00031	0.0000558

The following equation was used to calculate the hourly emission rate for each material handling emission unit:

Emission Rate (lbs/hour) = Process Rate (tons/hour) * Controlled Emission Factor (lbs/ton)

The following equation was used to calculate the hourly emission rate for each process unit:

$$\text{Emission Rate (tons/year)} = \frac{\text{Controlled Emission Factor (lbs/ton)} * \text{Process Rate (tons/year)}}{\text{2000 lbs/ton}}$$

Table 6-2: Controlled Material Handling Particulate Emission Rates

Process Unit #	Process Unit Description	Process Rate	PM Emission Rate (lbs/hr)	PM Emission Rate (tons/yr)	PM_{10} Emission Rate (lbs/hr)	PM_{10} Emission Rate (tons/yr)	$PM_{2.5}$ Emission Rate (lbs/hr)	$PM_{2.5}$ Emission Rate (tons/yr)
2	Aggregate/Sand Feeder Loading	187.5 tph, 750,000 tpy	0.83	1.16	0.39	0.55	0.060	0.083
3	Feed Hopper Conveyor	187.5 tph, 750,000 tpy	0.026	0.053	0.0086	0.017	0.0024	0.0049
4	4-Bin Aggregate Bin	187.5 tph, 750,000 tpy	0.026	0.053	0.0086	0.017	0.0024	0.0049
5,6	Aggregate Weigh Batcher and Conveyor	187.5 tph, 750,000 tpy	0.026	0.053	0.0086	0.017	0.0024	0.0049
7,8	Truck Loading / Cement/Fly Ash Batcher Baghouse	150 cuyd/hr, 500,000 cuyd/yr	0.066	0.13	0.018	0.036	0.0032	0.0060
9	Cement Split Silo Baghouse	150 cuyd/hr, 500,000 cuyd/yr	0.022	0.045	0.014	0.029	0.0033	0.0057
10	Fly Ash Split Silo Baghouse	150 cuyd/hr, 500,000 cuyd/yr	0.026	0.052	0.0091	0.018	0.0021	0.0036
11	Aggregate/Sand Storage Piles	187.5 tph, 750,000 tpy	1.09	1.51	0.52	0.72	0.078	0.11
		TOTALS	**2.12**	**3.06**	**0.98**	**1.40**	**0.15**	**0.22**

Haul truck travel emissions were estimated using AP-42, Section 13.2.1 (ver.01/11) “Paved Roads” emission equation. Haul trucks will be used to deliver cement, fly ash, aggregate material, sand material, and transport concrete product. Annual emission rates are reduced by limiting the annual production.

AP-42 13.1 Paved Road (01/11)

Equation:

E = k(sL)^0.91*(W)^1.02*[1-P/4N] *Annual emissions only include p factor*

k PM	0.011					
k PM10	0.0022					
k PM25	0.00054					
sL	0.6	road surface silt loading (g/m2) Table 13.2.1-2, <500				
P = days with precipitation over 0.01 inches	60	AP-42 Figure 13.2.2-1				
N = number of days in averaging period	365					
Fly Ash Truck VMT	429	meter/RT	23	tons/load	8.3	tons/hr
Cement Truck VMT	429	meter/RT	23	tons/load	30.6	tons/hr
Aggregate/Sand Truck VMT	785	meter/RT	23	tons/load	187.5	tons/hr
Concrete Truck VMT	429	meter/RT	12	cuyd/load	125	cuyd/hr
Max. Fly Ash Truck/hr	0.4	truck/hr	1434.8	trucks/yr		
Max. Cement Truck/hr	1.3	truck/hr	5315.2	trucks/yr		
Max. Aggregate/Sand Truck/hr	8.2	truck/hr	32608.7	trucks/yr		
Max Concrete Trucks/hr	10.4	truck/hr	41666.7	trucks/yr		
	20.3	truck/hr	81025.4	trucks/yr		
Vehicle Miles Traveled	7.1999	VMT/hr				
	28799.8	VMT/yr				
Fly Ash, Cement, Aggregate, Sand Truck weight	26.5	tons	15-ton truck tare			
Concrete Truck weight	25	tons				

	PM Uncontrolled			
Max. Truck Emissions Paved Road	1.3765	lbs/hr	2.6399	tons/yr
	PM10 Uncontrolled			
	0.2753	lbs/hr	0.5280	tons/yr
	PM2.5 Uncontrolled			
	0.0676	lbs/hr	0.1296	tons/yr

Estimates for Hot Water Boiler (NO_X, CO, SO_2, VOC and PM)

The hot water boiler keeps the water warm during cold periods. The facility will consist of three (3) instantaneous water heaters, each rated at 199,900 Btu/hr. The combined hot water boiler is approximately 0.6 MMBtu/hr. The hot water boiler will burn natural gas with total sulfur content less than 0.75 gr/100scf and will never burn coal, wood, or any grade of fuel oil. Emission factors for NO_X, CO, VOC, and PM were obtained from EPA's Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Fifth Edition, Section 1.4 (7/98), Table 1.4-1, -2. Based on a boiler Btu rating of 0.6 million and a natural gas lower heat value of 945 Btu/scf, the approximately amount of natural gas burned per hour will be 634.9 scf/hr. Uncontrolled annual emissions were based on 8760 hours per year. Controlled annual emissions were based on 8760 hours per year.

AP-42 Section 1.4 Emission Factors:

Pollutant	Emission Factor ($lbs/10^6$ scf)
Nitrogen Oxides	100
Carbon Monoxides	84
Particulate	7.6
Hydrocarbons	11

Emission Rate (lbs/hr) = Emission Factor ($lbs/10^6$ scf) * Boiler Rating (10^6 Btu/hr)

Mass Balance

Pollutant	Sulfur Content	Fuel Usage
Sulfur Dioxide	0.75 grains/100 scf	634.9 scf/hr

Emission Rate (lbs/hr) = grains/100 scf * Fuel Usage (100 scf/hr) / 7000 grains/lb *2 S/SO_2

The following equation was used to calculate the annual emission rate for each boiler pollutant:

$$\text{Emission Rate (tons/year)} = \frac{\text{Emission Rate (lbs/hour)} * \text{Operating Hour (hrs/year)}}{\text{2000 lbs/ton}}$$

Table 6-3: Uncontrolled Combustion Emission Rates

Emission Unit Number	Pollutant	Thermal Rating (BTU_{max})	Emission Rate (lbs/hr)	Emission Rate (tons/yr)
12	NO_X	600,000	0.063	0.28
	CO	600,000	0.053	0.23
	SO_2	600,000	0.00068	0.0030
	VOC	600,000	0.0070	0.031
	PM	600,000	0.0048	0.021

Table 6-4: Controlled Combustion Emission Rates

Emission Unit Number	Pollutant	Thermal Rating (BTU_{max})	Emission Rate (lbs/hr)	Emission Rate (tons/yr)
12	NO_X	600,000	0.063	0.28
	CO	600,000	0.053	0.23
	SO_2	600,000	0.00068	0.0030
	VOC	600,000	0.0070	0.031
	PM	600,000	0.0048	0.021

Table 6-5: PTE Emission Totals

ID #	Source Description	NOx		CO		SO2		VOC		PM		PM10		PM2.5	
		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
1	Haul Road									1.38	5.78	0.28	1.16	0.068	0.28
2	Feeder Hopper									0.83	3.66	0.39	1.73	0.060	0.26
3	Feed Hopper Conveyor									0.56	2.46	0.21	0.90	0.031	0.14
4	4-Bin Aggregate Bin									0.56	2.46	0.21	0.90	0.031	0.14
5,6	Aggregate Weigh Batcher and Conveyor									0.56	2.46	0.21	0.90	0.031	0.14
7	Truck Loading									43.4	190.1	12.0	52.7	2.16	9.48
8	Cement/Fly Ash Batcher									22.2	97.2	6.05	26.5	1.20	5.25
9	Cement Split Silo									22.3	97.7	14.4	62.9	2.84	12.5
10	Fly Ash Split Silo									25.9	113.5	25.9	113.5	9.08	39.7
11	Aggregate Storage Piles									1.09	4.78	0.52	2.26	0.078	0.34
12	Concrete Batch Plant Heater	0.063	0.28	0.053	0.23	0.00068	0.0030	0.0070	0.031	0.0048	0.021	0.0048	0.021	0.0048	0.021
	Total	**0.063**	**0.28**	**0.053**	**0.23**	**0.00068**	**0.0030**	**0.0070**	**0.031**	**119**	**520**	**60**	**263**	**15.6**	**68**

Table 6-6: PER Emission Totals

ID #	Source Description	NOx		CO		SO2		VOC		PM		PM10		PM2.5	
		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
1	Haul Road									1.38	2.64	0.28	0.53	0.068	0.13
2	Feeder Hopper									0.83	1.16	0.39	0.55	0.06	0.083
3	Feed Hopper Conveyor									0.026	0.053	0.0086	0.017	0.0024	0.0049
4	4-Bin Aggregate Bin									0.026	0.053	0.0086	0.017	0.0024	0.0049
5,6	Aggregate Weigh Batcher and Conveyor									0.026	0.053	0.0086	0.017	0.0024	0.0049
7,8	Truck Loading and Cement/Fly Ash Batcher									0.066	0.13	0.018	0.036	0.0032	0.0060
9	Cement Split Silo									0.022	0.045	0.014	0.029	0.0033	0.0057
10	Fly Ash Split Silo									0.026	0.052	0.0091	0.018	0.0021	0.0036
11	Aggregate Storage Piles									1.09	1.51	0.52	0.72	0.078	0.11
12	Concrete Batch Plant Heater	0.063	0.28	0.053	0.23	0.00068	0.0030	0.0070	0.031	0.0048	0.021	0.0048	0.021	0.0048	0.021
	Total	**0.063**	**0.28**	**0.053**	**0.23**	**0.00068**	**0.0030**	**0.0070**	**0.031**	**3.50**	**5.72**	**1.26**	**1.95**	**0.23**	**0.37**

Table 6-7: HAPs Emission Rates from the Hot Water Heater (Unit 12)

Btu Rating	0.6	mmBtu/hr	
Fuel Usage:	634.9	scf/hr	(based on 945 Btu/scf)
Btu x 10^-12/hr:	0.000634921	mmscf/hr	
Yearly Operating Hours:	8760	hours per year	

Type of Fuel:	Natural Gas
Emission Factors	AP-42 Section 1.4

Organic Compounds	**CAS#**		**Emission Factor (lbs/MM scf)**	**Emission Rate (lbs/hr)**	**Emission Rate (ton/yr)**
Benzene	71-43-2		2.10E-03	0.000001	0.000006
Formaldehyde	50-00-0		7.50E-02	0.000048	0.000209
Hexane	110-54-3		1.80E+00	0.001143	0.005006
Naphthalene	91-20-3		6.10E-04	0.000000	0.000002
Toluene	108-88-3		3.40E-03	0.000002	0.000009
		Total Organic Compounds	1.88+00	0.001194	0.005231

HAPS Metals		**Emission Factor (lbs/MM scf)**	**Emission Rate (lbs/hr)**	**Emission Rate (ton/yr)**
Arsenic		2.00E-04	0.000000	0.000001
Beryllium		1.20E-05	0.000000	0.000000
Cadmium		1.10E-03	0.000001	0.000003
Chromium		1.40E-03	0.000001	0.000004
Cobalt		8.40E-05	0.000000	0.000000
Lead		5.00E-04	0.000000	0.000001
Manganese		3.80E-04	0.000000	0.000001
Mercury		2.60E-04	0.000000	0.000001
Nickel		2.10E-03	0.000001	0.000006
Selenium		2.40E-05	0.000000	0.000000
	Total Metals HAPS	6.06E-03	0.000004	0.000017
	Total HAPS		**0.001198**	**0.005248**

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC) applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO_2), nitrous oxide (N_2O), methane (CH_4), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6).

Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO_2e emissions from your facility.
2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO_2e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
4. Report GHG mass and GHG CO_2e emissions in Table 2-P of this application. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).
5. All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO2e emissions for each unit in Table 2-P.
6. For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHGs as a second separate unit; 3) or check the following X By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

Sources for Calculating GHG Emissions:

- Manufacturer's Data
- AP-42 Compilation of Air Pollutant Emission Factors at http://www.epa.gov/ttn/chief/ap42/index.html
- EPA's Internet emission factor database WebFIRE at http://cfpub.epa.gov/webfire/
- 40 CFR 98 Mandatory Green House Gas Reporting except that tons should be reported in short tons rather than in metric tons for the purpose of PSD applicability.
- API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. August 2009 or most recent version.
- Sources listed on EPA's NSR Resources for Estimating GHG Emissions at http://www.epa.gov/nsr/clean-air-act-permitting-greenhouse-gases:

Global Warming Potentials (GWP):
Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO_2 over a specified time period.

"Greenhouse gas" for the purpose of air permit regulations is defined as the aggregate group of the following six gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. **(20.2.70.7 NMAC, 20.2.74.7 NMAC).** You may also find GHGs defined in 40 CFR 86.1818-12(a).

Metric to Short Ton Conversion:
Short tons for GHGs and other regulated pollutants are the standard unit of measure for PSD and title V permitting programs. 40 CFR 98 Mandatory Greenhouse Reporting requires metric tons.
1 metric ton = 1.10231 short tons (per Table A-2 to Subpart A of Part 98 – Units of Measure Conversions)

Section 7

Information Used To Determine Emissions

Information Used to Determine Emissions shall include the following:

- ☐ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.
- ☐ If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
- **X** If the most current copy of AP-42 is used, reference the section and date located at the bottom of the page. Include a copy of the page containing the emissions factors, and clearly mark the factors used in the calculations.
- ☐ If an older version of AP-42 is used, include a complete copy of the section.
- ☐ If an EPA document or other material is referenced, include a complete copy.
- ☐ Fuel specifications sheet.
- ☐ If computer models are used to estimate emissions, include an input summary (if available) and a detailed report, and a disk containing the input file(s) used to run the model. For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., permit or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.

A-XXXX-7-AP42S1-4	Hot Water Heater Combustion and HAPs Emission Factors
A-XXXX-7-AP42S11-12	Concrete Plant Emission Factors
A-XXXX-7-AP42S11-19-2	Transfer Point Emission Factors
A-XXXX-7-AP42S13-2-1	Paved Road Emission Factors
A-XXXX-7-AP42S13-2-4	Material Handling Emission Factors
A-XXXX-7-WindspeedsNewMexico	Ruidoso Wind Speed Annual Average 1996 to 2006
A-XXXX-7-AltoCBP.xls	Alto CBP Emissions Spreadsheet
A-XXXX-7-Baghouse.xls	Baghouse Fabric Filter – Pulse-Jet Control Efficiency

11.12 Concrete Batching

11.12.1 Process Description [1-5]

Concrete is composed essentially of water, cement, sand (fine aggregate) and coarse aggregate. Coarse aggregate may consist of gravel, crushed stone or iron blast furnace slag. Some specialty aggregate products could be either heavyweight aggregate (of barite, magnetite, limonite, ilmenite, iron or steel) or lightweight aggregate (with sintered clay, shale, slate, diatomaceous shale, perlite, vermiculite, slag pumice, cinders, or sintered fly ash). Supplementary cementitious materials, also called mineral admixtures or pozzolan minerals may be added to make the concrete mixtures more economical, reduce permeability, increase strength, or influence other concrete properties. Typical examples are natural pozzolans, fly ash, ground granulated blast-furnace slag, and silica fume, which can be used individually with portland or blended cement or in different combinations. Chemical admixtures are usually liquid ingredients that are added to concrete to entrain air, reduce the water required to reach a required slump, retard or accelerate the setting rate, to make the concrete more flowable or other more specialized functions.

Approximately 75 percent of the U.S. concrete manufactured is produced at plants that store, convey, measure and discharge these constituents into trucks for transport to a job site. At most of these plants, sand, aggregate, cement and water are all gravity fed from the weight hopper into the mixer trucks. The concrete is mixed on the way to the site where the concrete is to be poured. At some of these plants, the concrete may also be manufactured in a central mix drum and transferred to a transport truck. Most of the remaining concrete manufactured are products cast in a factory setting. Precast products range from concrete bricks and paving stones to bridge girders, structural components, and panels for cladding. Concrete masonry, another type of manufactured concrete, may be best known for its conventional 8 x 8 x 16-inch block. In a few cases concrete is dry batched or prepared at a building construction site. Figure 11.12-1 is a generalized process diagram for concrete batching.

The raw materials can be delivered to a plant by rail, truck or barge. The cement is transferred to elevated storage silos pneumatically or by bucket elevator. The sand and coarse aggregate are transferred to elevated bins by front end loader, clam shell crane, belt conveyor, or bucket elevator. From these elevated bins, the constituents are fed by gravity or screw conveyor to weigh hoppers, which combine the proper amounts of each material.

11.12.2 Emissions and Controls [6-8]

Particulate matter, consisting primarily of cement and pozzolan dust but including some aggregate and sand dust emissions, is the primary pollutant of concern. In addition, there are emissions of metals that are associated with this particulate matter. All but one of the emission points are fugitive in nature. The only point sources are the transfer of cement and pozzolan material to silos, and these are usually vented to a fabric filter or “sock”. Fugitive sources include the transfer of sand and aggregate, truck loading, mixer loading, vehicle traffic, and wind erosion from sand and aggregate storage piles. The amount of fugitive emissions generated during the transfer of sand and aggregate depends primarily on the surface moisture content of these materials. The extent of fugitive emission control varies widely from plant to plant. Particulate emission factors for concrete batching are give in Tables 11.12-1 and 11.12-2.

TABLE 11.12-2 (ENGLISH UNITS)
EMISSION FACTORS FOR CONCRETE BATCHING [a]

Source (SCC)	Uncontrolled				Controlled			
	Total PM	Emission Factor Rating	Total PM_{10}	Emission Factor Rating	Total PM	Emission Factor Rating	Total PM_{10}	Emission Factor Rating
Aggregate transfer [b] (3-05-011-04,-21,23)	0.0069	D	0.0033	D	ND		ND	
Sand transfer [b] (3-05-011-05,22,24)	0.0021	D	0.00099	D	ND		ND	
Cement unloading to elevated storage silo (pneumatic)[c] (3-05-011-07)	0.73	E	0.47	E	0.00099	D	0.00034	D
Cement supplement unloading to elevated storage silo (pneumatic)[d] (3-05-011-17)	3.14	E	1.10	E	0.0089	D	0.0049	E
Weigh hopper loading [e] (3-05-011-08)	0.0048	D	0.0028	D	ND		ND	
Mixer loading (central mix)[f] (3-05-011-09)	0.572 or Eqn. 11.12-1	B	0.156 or Eqn. 11.12-1	B	0.0184 or Eqn. 11.12-1	B	0.0055 or Eqn. 11.12-1	B
Truck loading (truck mix)[g] (3-05-011-10)	1.118	B	0.310	B	0.098 or Eqn. 11.12-1	B	0.0263 or Eqn. 11.12-1	B
Vehicle traffic (paved roads)	See AP-42 Section 13.2.1, Paved Roads							
Vehicle traffic (unpaved roads)	See AP-42 Section 13.2.2, Unpaved Roads							
Wind erosion from aggregate and sand storage piles	See AP-42 Section 13.2.5, Industrial Wind Erosion							

ND = No data

[a] All emission factors are in lb of pollutant per ton of material loaded unless noted otherwise. Loaded material includes course aggregate, sand, cement, cement supplement and the surface moisture associated with these materials. The average material composition of concrete batches presented in references 9 and 10 was 1865 lbs course aggregate, 1428 lbs sand, 491 lbs cement and 73 lbs cement supplement. Approximately 20 gallons of water was added to this solid material to produce 4024 lbs (one cubic yard) of concrete.

[b] Reference 9 and 10. Emission factors are based upon an equation from AP-42, section 13.2.4 Aggregate Handling And Storage Piles, equation 1 with k_{PM-10} =.35, k_{PM} = .74, U = 10mph, $M_{aggregate}$ =1.77%, and M_{sand} = 4.17%. These moisture contents of the materials ($M_{aggregate}$ and M_{sand}) are the averages of the values obtained from Reference 9 and Reference 10.

[c] The uncontrolled PM & PM-10 emission factors were developed from Reference 9. The controlled emission factor for PM was developed from References 9, 10, 11, and 12. The controlled emission factor for PM-10 was developed from References 9 and 10.

[d] The controlled PM emission factor was developed from Reference 10 and Reference 12, whereas the controlled PM-10 emission factor was developed from only Reference 10.

[e] Emission factors were developed by using the Aggregate and Sand Transfer Emission Factors in conjunction with the ratio of aggregate and sand used in an average $yard^3$ of concrete. The unit for these emission factors is lb of pollutant per ton of aggregate and sand.

[f] References 9, 10, and 14. The emission factor units are lb of pollutant per ton of cement and cement supplement. The general factor is the arithmetic mean of all test data.

[g] Reference 9, 10, and 14. The emission factor units are lb of pollutant per ton of cement and cement supplement. The general factor is the arithmetic mean of all test data.

The particulate matter emissions from truck mix and central mix loading operations are calculated in accordance with the values in Tables 11.12-1 or 11.12-2 or by Equation 11.12-1[14] when site specific data are available.

$$E = k\,(0.0032)\left[\frac{U^a}{M^b}\right] + c \qquad \text{Equation 11.12-1}$$

E	=	Emission factor in lbs./ton of cement and cement supplement
k	=	Particle size multiplier (dimensionless)
U	=	Wind speed at the material drop point, miles per hour (mph)
M	=	Minimum moisture (% by weight) of cement and cement supplement
a, b	=	Exponents
c	=	Constant

The parameters for Equation 11.12-1 are summarized in Tables 11.12-3 and 11.12-4.

Table 11.12-3. Equation Parameters for Truck Mix Operations

Condition	Parameter Category	k	a	b	c
Controlled[1]	Total PM	0.8	1.75	0.3	0.013
	PM_{10}	0.32	1.75	0.3	0.0052
	$PM_{10-2.5}$	0.288	1.75	0.3	0.00468
	$PM_{2.5}$	0.048	1.75	0.3	0.00078
Uncontrolled[1]	Total PM	0.995			
	PM_{10}	0.278			
	$PM_{10-2.5}$	0.228			
	$PM_{2.5}$	0.050			

Table 11.12-4. Equation Parameters for Central Mix Operations

Condition	Parameter Category	k	a	b	c
Controlled[1]	Total PM	0.19	0.95	0.9	0.0010
	PM_{10}	0.13	0.45	0.9	0.0010
	$PM_{10-2.5}$	0.12	0.45	0.9	0.0009
	$PM_{2.5}$	0.03	0.45	0.9	0.0002
Uncontrolled[1]	Total PM	5.90	0.6	1.3	0.120
	PM_{10}	1.92	0.4	1.3	0.040
	$PM_{10-2.5}$	1.71	0.4	1.3	0.036
	$PM_{2.5}$	0.38	0.4	1.3	0

1. Emission factors expressed in lbs/tons of cement and cement supplement

To convert from units of lbs/ton to units of kilograms per mega gram, the emissions calculated by Equation 11.12-1 should be divided by 2.0.

Particulate emission factors per yard of concrete for an average batch formulation at a typical facility are given in Tables 11.12-5 and 11.12-6. For truck mix loading and central mix loading, the

11.19.2 Crushed Stone Processing and Pulverized Mineral Processing

11.19.2.1 Process Description [24, 25]

Crushed Stone Processing

Major rock types processed by the crushed stone industry include limestone, granite, dolomite, traprock, sandstone, quartz, and quartzite. Minor types include calcareous marl, marble, shell, and slate. Major mineral types processed by the pulverized minerals industry, a subset of the crushed stone processing industry, include calcium carbonate, talc, and barite. Industry classifications vary considerably and, in many cases, do not reflect actual geological definitions.

Rock and crushed stone products generally are loosened by drilling and blasting and then are loaded by power shovel or front-end loader into large haul trucks that transport the material to the processing operations. Techniques used for extraction vary with the nature and location of the deposit. Processing operations may include crushing, screening, size classification, material handling and storage operations. All of these processes can be significant sources of PM and PM-10 emissions if uncontrolled.

Quarried stone normally is delivered to the processing plant by truck and is dumped into a bin. A feeder is used as illustrated in Figure 11.19.2-1. The feeder or screens separate large boulders from finer rocks that do not require primary crushing, thus reducing the load to the primary crusher. Jaw, impactor, or gyratory crushers are usually used for initial reduction. The crusher product, normally 7.5 to 30 centimeters (3 to 12 inches) in diameter, and the grizzly throughs (undersize material) are discharged onto a belt conveyor and usually are conveyed to a surge pile for temporary storage or are sold as coarse aggregates.

The stone from the surge pile is conveyed to a vibrating inclined screen called the scalping screen. This unit separates oversized rock from the smaller stone. The undersized material from the scalping screen is considered to be a product stream and is transported to a storage pile and sold as base material. The stone that is too large to pass through the top deck of the scalping screen is processed in the secondary crusher. Cone crushers are commonly used for secondary crushing (although impact crushers are sometimes used), which typically reduces material to about 2.5 to 10 centimeters (1 to 4 inches). The material (throughs) from the second level of the screen bypasses the secondary crusher because it is sufficiently small for the last crushing step. The output from the secondary crusher and the throughs from the secondary screen are transported by conveyor to the tertiary circuit, which includes a sizing screen and a tertiary crusher.

Tertiary crushing is usually performed using cone crushers or other types of impactor crushers. Oversize material from the top deck of the sizing screen is fed to the tertiary crusher. The tertiary crusher output, which is typically about 0.50 to 2.5 centimeters (3/16th to 1 inch), is returned to the sizing screen. Various product streams with different size gradations are separated in the screening operation. The products are conveyed or trucked directly to finished product bins, to open area stock piles, or to other processing systems such as washing, air separators, and screens and classifiers (for the production of manufactured sand).

Some stone crushing plants produce manufactured sand. This is a small-sized rock product with a maximum size of 0.50 centimeters (3/16 th inch). Crushed stone from the tertiary sizing screen is sized in a vibrating inclined screen (fines screen) with relatively small mesh sizes.

Table 11.19.2-2 (English Units). EMISSION FACTORS FOR CRUSHED STONE PROCESSING OPERATIONS (lb/Ton)[a]

Source [b]	Total Particulate Matter [r,s]	EMISSION FACTOR RATING	Total PM-10	EMISSION FACTOR RATING	Total PM-2.5	EMISSION FACTOR RATING
Primary Crushing (SCC 3-05-020-01)	ND		ND[n]		ND[n]	
Primary Crushing (controlled) (SCC 3-05-020-01)	ND		ND[n]		ND[n]	
Secondary Crushing (SCC 3-05-020-02)	ND		ND[n]		ND[n]	
Secondary Crushing (controlled) (SCC 3-05-020-02)	ND		ND[n]		ND[n]	
Tertiary Crushing (SCC 3-050030-03)	0.0054[d]	E	0.0024[o]	C	ND[n]	
Tertiary Crushing (controlled) (SCC 3-05-020-03)	0.0012[d]	E	0.00054[p]	C	0.00010[q]	E
Fines Crushing (SCC 3-05-020-05)	0.0390[e]	E	0.0150[e]	E	ND	
Fines Crushing (controlled) (SCC 3-05-020-05)	0.0030[f]	E	0.0012[f]	E	0.000070[q]	E
Screening (SCC 3-05-020-02, 03)	0.025[c]	E	0.0087[l]	C	ND	
Screening (controlled) (SCC 3-05-020-02, 03)	0.0022[d]	E	0.00074[m]	C	0.000050[q]	E
Fines Screening (SCC 3-05-020-21)	0.30[g]	E	0.072[g]	E	ND	
Fines Screening (controlled) (SCC 3-05-020-21)	0.0036[g]	E	0.0022[g]	E	ND	
Conveyor Transfer Point (SCC 3-05-020-06)	0.0030[h]	E	0.00110[h]	D	ND	
Conveyor Transfer Point (controlled) (SCC 3-05-020-06)	0.00014[i]	E	4.6×10^{-5}[i]	D	1.3×10^{-5}[q]	E
Wet Drilling - Unfragmented Stone (SCC 3-05-020-10)	ND		8.0×10^{-5}[j]	E	ND	
Truck Unloading -Fragmented Stone (SCC 3-05-020-31)	ND		1.6×10^{-5}[j]	E	ND	
Truck Unloading - Conveyor, crushed stone (SCC 3-05-020-32)	ND		0.00010[k]	E	ND	

a. Emission factors represent uncontrolled emissions unless noted. Emission factors in lb/Ton of material of throughput. SCC = Source Classification Code. ND = No data.

b. Controlled sources (with wet suppression) are those that are part of the processing plant that employs current wet suppression technology similar to the study group. The moisture content of the study group without wet suppression systems operating (uncontrolled) ranged from 0.21 to 1.3 percent, and the same facilities operating wet suppression systems (controlled) ranged from 0.55 to 2.88 percent. Due to carry over of the small amount of moisture required, it has been shown that each source, with the exception of crushers, does not need to employ direct water sprays. Although the moisture content was the only variable measured, other process features may have as much influence on emissions from a given source. Visual observations from each source under normal operating conditions are probably the best indicator of which emission factor is most appropriate. Plants that employ substandard control measures as indicated by visual observations should use the uncontrolled factor with an appropriate control efficiency that best reflects the effectiveness of the controls employed.

c. References 1, 3, 7, and 8

d. References 3, 7, and 8

e. Reference 4

f. References 4 and 15

g. Reference 4

h. References 5 and 6

i. References 5, 6, and 15

j. Reference 11

k. Reference 12

l. References 1, 3, 7, and 8

m. References 1, 3, 7, 8, and 15

n. No data available, but emission factors for PM-10 for tertiary crushers can be used as an upper limit for primary or secondary crushing

o. References 2, 3, 7, 8

p. References 2, 3, 7, 8, and 15

q. Reference 15

r. PM emission factors are presented based on PM-100 data in the Background Support Document for Section 11.19.2

s. Emission factors for PM-30 and PM-50 are available in Figures 11.19.2-3 through 11.19.2-6.

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13.2.1 Paved Roads

13.2.1.1 General

Particulate emissions occur whenever vehicles travel over a paved surface such as a road or parking lot. Particulate emissions from paved roads are due to direct emissions from vehicles in the form of exhaust, brake wear and tire wear emissions and resuspension of loose material on the road surface. In general terms, resuspended particulate emissions from paved roads originate from, and result in the depletion of, the loose material present on the surface (i.e., the surface loading). In turn, that surface loading is continuously replenished by other sources. At industrial sites, surface loading is replenished by spillage of material and trackout from unpaved roads and staging areas. Figure 13.2.1-1 illustrates several transfer processes occurring on public streets.

Various field studies have found that public streets and highways, as well as roadways at industrial facilities, can be major sources of the atmospheric particulate matter within an area.[1-9] Of particular interest in many parts of the United States are the increased levels of emissions from public paved roads when the equilibrium between deposition and removal processes is upset. This situation can occur for various reasons, including application of granular materials for snow and ice control, mud/dirt carryout from construction activities in the area, and deposition from wind and/or water erosion of surrounding unstabilized areas. In the absence of continuous addition of fresh material (through localized track out or application of antiskid material), paved road surface loading should reach an equilibrium value in which the amount of material resuspended matches the amount replenished. The equilibrium surface loading value depends upon numerous factors. It is believed that the most important factors are: mean speed of vehicles traveling the road; the average daily traffic (ADT); the number of lanes and ADT per lane; the fraction of heavy vehicles (buses and trucks); and the presence/absence of curbs, storm sewers and parking lanes.[10]

The particulate emission factors presented in a previous version of this section of AP-42, dated October 2002, implicitly included the emissions from vehicles in the form of exhaust, brake wear, and tire wear as well as resuspended road surface material. EPA included these sources in the emission factor equation for paved roads since the field testing data used to develop the equation included both the direct emissions from vehicles and emissions from resuspension of road dust.

This version of the paved road emission factor equation only estimates particulate emissions from resuspended road surface material[28]. The particulate emissions from vehicle exhaust, brake wear, and tire wear are now estimated separately using EPA's MOVES [29] model. This approach eliminates the possibility of double counting emissions. Double counting results when employing the previous version of the emission factor equation in this section and MOVES to estimate particulate emissions from vehicle traffic on paved roads. It also incorporates the decrease in exhaust emissions that has occurred since the paved road emission factor equation was developed. Earlier versions of the paved road emission factor equation includes estimates of emissions from exhaust, brake wear, and tire wear based on emission rates for vehicles in the 1980 calendar year fleet. The amount of PM released from vehicle exhaust has decreased since 1980 due to lower new vehicle emission standards and changes in fuel characteristics.

13.2.1.3 Predictive Emission Factor Equations[10,29]

The quantity of particulate emissions from resuspension of loose material on the road surface due to vehicle travel on a dry paved road may be estimated using the following empirical expression:

$$E = k\,(sL)^{0.91} \times (W)^{1.02} \qquad (1)$$

where:
- E = particulate emission factor (having units matching the units of k),
- k = particle size multiplier for particle size range and units of interest (see below),
- sL = road surface silt loading (grams per square meter) (g/m^2), and
- W = average weight (tons) of the vehicles traveling the road.

It is important to note that Equation 1 calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, Equation 1 is *not* intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

The particle size multiplier (k) above varies with aerodynamic size range as shown in Table 13.2.1-1. To determine particulate emissions for a specific particle size range, use the appropriate value of k shown in Table 13.2.1-1.

To obtain the total emissions factor, the emission factors for the exhaust, brake wear and tire wear obtained from either EPA's MOBILE6.2 [27] or MOVES2010 [29] model should be added to the emissions factor calculated from the empirical equation.

Table 13.2.1-1. PARTICLE SIZE MULTIPLIERS FOR PAVED ROAD EQUATION

Size range[a]	Particle Size Multiplier k[b]		
	g/VKT	g/VMT	lb/VMT
PM-2.5[c]	0.15	0.25	0.00054
PM-10	0.62	1.00	0.0022
PM-15	0.77	1.23	0.0027
PM-30[d]	3.23	5.24	0.011

[a] Refers to airborne particulate matter (PM-x) with an aerodynamic diameter equal to or less than x micrometers.

[b] Units shown are grams per vehicle kilometer traveled (g/VKT), grams per vehicle mile traveled (g/VMT), and pounds per vehicle mile traveled (lb/VMT). The multiplier k includes unit conversions to produce emission factors in the units shown for the indicated size range from the mixed units required in Equation 1.

[c] The k-factors for $PM_{2.5}$ were based on the average $PM_{2.5}$:PM_{10} ratio of test runs in Reference 30.

[d] PM-30 is sometimes termed "suspendable particulate" (SP) and is often used as a surrogate for TSP.

Equation 1 is based on a regression analysis of 83 tests for PM-10.[3, 5-6, 8, 27-29, 31-36] Sources tested include public paved roads, as well as controlled and uncontrolled industrial paved roads. The majority of tests involved freely flowing vehicles traveling at constant speed on relatively level roads. However, 22 tests of slow moving or "stop-and-go" traffic or vehicles under load were available for inclusion in the data base.[32-36] Engine exhaust, tire wear and break wear were subtracted from the emissions measured in the test programs prior to stepwise regression to determine Equation 1.[37, 39] The equations retain the quality rating of A (D for PM-2.5), if applied within the range of source conditions that were tested in developing the equation as follows:

Silt loading:	0.03 - 400 g/m^2 0.04 - 570 grains/square foot (ft^2)
Mean vehicle weight:	1.8 - 38 megagrams (Mg) 2.0 - 42 tons
Mean vehicle speed:	1 - 88 kilometers per hour (kph) 1 - 55 miles per hour (mph)

The upper and lower 95% confidence levels of equation 1 for PM_{10} is best described with equations using an exponents of 1.14 and 0.677 for silt loading and an exponents of 1.19 and 0.85 for weight. Users are cautioned that application of equation 1 outside of the range of variables and operating conditions specified above, e.g., application to roadways or road networks with speeds above 55 mph and average vehicle weights of 42 tons, will result in emission estimates with a higher level of uncertainty. In these situations, users are encouraged to consider an assessment of the impacts of the influence of extrapolation to the overall emissions and alternative methods that are equally or more plausible in light of local emissions data and/or ambient concentration or compositional data.

To retain the quality rating for the emission factor equation when it is applied to a specific paved road, it is necessary that reliable correction parameter values for the specific road in question be determined. With the exception of limited access roadways, which are difficult to sample, the collection and use of site-specific silt loading (sL) data for public paved road emission inventories are strongly recommended. The field and laboratory procedures for determining surface material silt content and surface dust loading are summarized in Appendices C.1 and C.2. In the event that site-specific values cannot be obtained, an appropriate value for a paved public road may be selected from the values in Table 13.2.1-2, but the quality rating of the equation should be reduced by 2 levels.

Equation 1 may be extrapolated to average uncontrolled conditions (but including natural mitigation) under the simplifying assumption that annual (or other long-term) average emissions are inversely proportional to the frequency of measurable (> 0.254 mm [0.01 inch]) precipitation by application of a precipitation correction term. The precipitation correction term can be applied on a daily or an hourly basis [26, 38].

For the daily basis, Equation 1 becomes:

$$E_{ext} = [\, k\,(sL)^{0.91} \times (W)^{1.02}\,]\,(1 - P/4N) \qquad (2)$$

where k, sL, W, and S are as defined in Equation 1 and

E_{ext} = annual or other long-term average emission factor in the same units as k,

P = number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period, and

N = number of days in the averaging period (e.g., 365 for annual, 91 for seasonal, 30 for monthly).

Note that the assumption leading to Equation 2 is based on analogy with the approach used to develop long-term average unpaved road emission factors in Section 13.2.2. However, Equation 2 above incorporates an additional factor of "4" in the denominator to account for the fact that paved roads dry more quickly than unpaved roads and that the precipitation may not occur over the complete 24-hour day.

For the hourly basis, equation 1 becomes:

$$E_{ext} = [\ k\ (sL)^{0.91} \times (W)^{1.02}\ ]\ (1 - 1.2P/N) \qquad (3)$$

where k, sL, W, and S are as defined in Equation 1 and

E_{ext} = annual or other long-term average emission factor in the same units as k,

P = number of hours with at least 0.254 mm (0.01 in) of precipitation during the averaging period, and

N = number of hours in the averaging period (e.g., 8760 for annual, 2124 for season 720 for monthly)

Note: In the hourly moisture correction term (1-1.2P/N) for equation 3, the 1.2 multiplier is applied to account for the residual mitigative effect of moisture. For most applications, this equation will produce satisfactory results. Users should select a time interval to include sufficient "dry" hours such that a reasonable emissions averaging period is evaluated. For the special case where this equation is used to calculate emissions on an hour by hour basis, such as would be done in some emissions modeling situations, the moisture correction term should be modified so that the moisture correction "credit" is applied to the first hours following cessation of precipitation. In this special case, it is suggested that this 20% "credit" be applied on a basis of one hour credit for each hour of precipitation up to a maximum of 12 hours.

Note that the assumption leading to Equation 3 is based on analogy with the approach used to develop long-term average unpaved road emission factors in Section 13.2.2.

Figure 13.2.1-2 presents the geographical distribution of "wet" days on an annual basis for the United States. Maps showing this information on a monthly basis are available in the *Climatic Atlas of the United States*[23] . Alternative sources include other Department of Commerce publications (such as local climatological data summaries). The National Climatic Data Center (NCDC) offers several products that provide hourly precipitation data. In particular, NCDC offers *Solar and Meteorological Surface Observation Network 1961-1990* (SAMSON) CD-ROM, which contains 30 years worth of hourly meteorological data for first-order National Weather Service locations. Whatever meteorological data are used, the source of that data and the averaging period should be clearly specified.

It is emphasized that the simple assumption underlying Equations 2 and 3 has not been verified in any rigorous manner. For that reason, the quality ratings for Equations 2 and 3 should be downgraded one letter from the rating that would be applied to Equation 1.

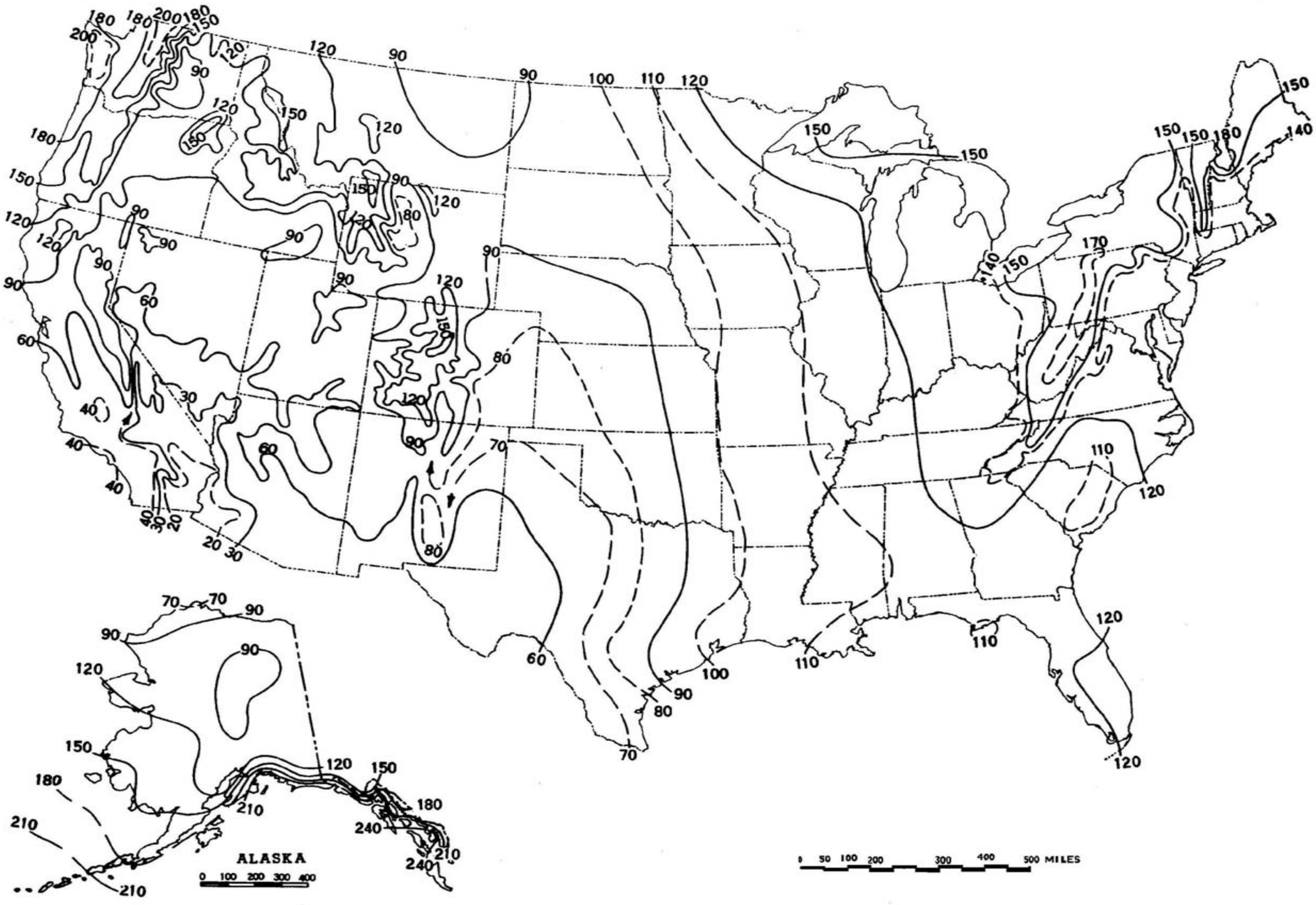

Figure 13.2.1-2. Mean number of days with 0.01 inch or more of precipitation in the United States.

Table 13.2.1-2 presents recommended default silt loadings for normal baseline conditions and for wintertime baseline conditions in areas that experience frozen precipitation with periodic application of antiskid material[24]. The winter baseline is represented as a multiple of the non-winter baseline, depending on the ADT value for the road in question. As shown, a multiplier of 4 is applied for low volume roads (< 500 ADT) to obtain a wintertime baseline silt loading of 4 X 0.6 = 2.4 g/m^2.

Table 13.2.1-2. Ubiquitous Silt Loading Default Values with Hot Spot Contributions from Anti-Skid Abrasives (g/m^2)

ADT Category	< 500	500-5,000	5,000-10,000	> 10,000
Ubiquitous Baseline g/m^2	0.6	0.2	0.06	0.03 0.015 limited access
Ubiquitous Winter Baseline Multiplier during months with frozen precipitation	X4	X3	X2	X1
Initial peak additive contribution from application of antiskid abrasive (g/m^2)	2	2	2	2
Days to return to baseline conditions (assume linear decay)	7	3	1	0.5

It is suggested that an additional (but temporary) silt loading contribution of 2 g/m^2 occurs with each application of antiskid abrasive for snow/ice control. This was determined based on a typical application rate of 500 lb per lane mile and an initial silt content of 1 % silt content. Ordinary rock salt and other chemical deicers add little to the silt loading, because most of the chemical dissolves during the snow/ice melting process.

To adjust the baseline silt loadings for mud/dirt trackout, the number of trackout points is required. It is recommended that in calculating PM_{10} emissions, six additional miles of road be added for each active trackout point from an active construction site, to the paved road mileage of the specified category within the county. In calculating $PM_{2.5}$ emissions, it is recommended that three additional miles of road be added for each trackout point from an active construction site.

It is suggested the number of trackout points for activities other than road and building construction areas be related to land use. For example, in rural farming areas, each mile of paved road would have a specified number of trackout points at intersections with unpaved roads. This value could be estimated from the unpaved road density (mi/sq. mi.).

The use of a default value from Table 13.2.1-2 should be expected to yield only an order-of-magnitude estimate of the emission factor. Public paved road silt loadings are dependent

13.2.4 Aggregate Handling And Storage Piles

13.2.4.1 General

Inherent in operations that use minerals in aggregate form is the maintenance of outdoor storage piles. Storage piles are usually left uncovered, partially because of the need for frequent material transfer into or out of storage.

Dust emissions occur at several points in the storage cycle, such as material loading onto the pile, disturbances by strong wind currents, and loadout from the pile. The movement of trucks and loading equipment in the storage pile area is also a substantial source of dust.

13.2.4.2 Emissions And Correction Parameters

The quantity of dust emissions from aggregate storage operations varies with the volume of aggregate passing through the storage cycle. Emissions also depend on 3 parameters of the condition of a particular storage pile: age of the pile, moisture content, and proportion of aggregate fines.

When freshly processed aggregate is loaded onto a storage pile, the potential for dust emissions is at a maximum. Fines are easily disaggregated and released to the atmosphere upon exposure to air currents, either from aggregate transfer itself or from high winds. As the aggregate pile weathers, however, potential for dust emissions is greatly reduced. Moisture causes aggregation and cementation of fines to the surfaces of larger particles. Any significant rainfall soaks the interior of the pile, and then the drying process is very slow.

Silt (particles equal to or less than 75 micrometers [µm] in diameter) content is determined by measuring the portion of dry aggregate material that passes through a 200-mesh screen, using ASTM-C-136 method.[1] Table 13.2.4-1 summarizes measured silt and moisture values for industrial aggregate materials.

The quantity of particulate emissions generated by either type of drop operation, per kilogram (kg) (ton) of material transferred, may be estimated, with a rating of A, using the following empirical expression:[11]

$$E = k(0.0016) \frac{\left(\frac{U}{2.2}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (kg/megagram [Mg])}$$

$$E = k(0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (pound [lb]/ton)} \tag{1}$$

where:

E = emission factor
k = particle size multiplier (dimensionless)
U = mean wind speed, meters per second (m/s) (miles per hour [mph])
M = material moisture content (%)

The particle size multiplier in the equation, k, varies with aerodynamic particle size range, as follows:

Aerodynamic Particle Size Multiplier (k) For Equation 1				
< 30 µm	< 15 µm	< 10 µm	< 5 µm	< 2.5 µm
0.74	0.48	0.35	0.20	0.053[a]

[a] Multiplier for < 2.5 µm taken from Reference 14.

The equation retains the assigned quality rating if applied within the ranges of source conditions that were tested in developing the equation, as follows. Note that silt content is included, even though silt content does not appear as a correction parameter in the equation. While it is reasonable to expect that silt content and emission factors are interrelated, no significant correlation between the 2 was found during the derivation of the equation, probably because most tests with high silt contents were conducted under lower winds, and vice versa. It is recommended that estimates from the equation be reduced 1 quality rating level if the silt content used in a particular application falls outside the range given:

Ranges Of Source Conditions For Equation 1			
Silt Content (%)	Moisture Content (%)	Wind Speed	
		m/s	mph
0.44 - 19	0.25 - 4.8	0.6 - 6.7	1.3 - 15

To retain the quality rating of the equation when it is applied to a specific facility, reliable correction parameters must be determined for specific sources of interest. The field and laboratory procedures for aggregate sampling are given in Reference 3. In the event that site-specific values for

1.4 Natural Gas Combustion

1.4.1 General[1-2]

Natural gas is one of the major combustion fuels used throughout the country. It is mainly used to generate industrial and utility electric power, produce industrial process steam and heat, and heat residential and commercial space. Natural gas consists of a high percentage of methane (generally above 85 percent) and varying amounts of ethane, propane, butane, and inerts (typically nitrogen, carbon dioxide, and helium). The average gross heating value of natural gas is approximately 1,020 British thermal units per standard cubic foot (Btu/scf), usually varying from 950 to 1,050 Btu/scf.

1.4.2 Firing Practices[3-5]

There are three major types of boilers used for natural gas combustion in commercial, industrial, and utility applications: watertube, firetube, and cast iron. Watertube boilers are designed to pass water through the inside of heat transfer tubes while the outside of the tubes is heated by direct contact with the hot combustion gases and through radiant heat transfer. The watertube design is the most common in utility and large industrial boilers. Watertube boilers are used for a variety of applications, ranging from providing large amounts of process steam, to providing hot water or steam for space heating, to generating high-temperature, high-pressure steam for producing electricity. Furthermore, watertube boilers can be distinguished either as field erected units or packaged units.

Field erected boilers are boilers that are constructed on site and comprise the larger sized watertube boilers. Generally, boilers with heat input levels greater than 100 MMBtu/hr, are field erected. Field erected units usually have multiple burners and, given the customized nature of their construction, also have greater operational flexibility and NO_x control options. Field erected units can also be further categorized as wall-fired or tangential-fired. Wall-fired units are characterized by multiple individual burners located on a single wall or on opposing walls of the furnace while tangential units have several rows of air and fuel nozzles located in each of the four corners of the boiler.

Package units are constructed off-site and shipped to the location where they are needed. While the heat input levels of packaged units may range up to 250 MMBtu/hr, the physical size of these units are constrained by shipping considerations and generally have heat input levels less than 100 MMBtu/hr. Packaged units are always wall-fired units with one or more individual burners. Given the size limitations imposed on packaged boilers, they have limited operational flexibility and cannot feasibly incorporate some NO_x control options.

Firetube boilers are designed such that the hot combustion gases flow through tubes, which heat the water circulating outside of the tubes. These boilers are used primarily for space heating systems, industrial process steam, and portable power boilers. Firetube boilers are almost exclusively packaged units. The two major types of firetube units are Scotch Marine boilers and the older firebox boilers. In cast iron boilers, as in firetube boilers, the hot gases are contained inside the tubes and the water being heated circulates outside the tubes. However, the units are constructed of cast iron rather than steel. Virtually all cast iron boilers are constructed as package boilers. These boilers are used to produce either low-pressure steam or hot water, and are most commonly used in small commercial applications.

Natural gas is also combusted in residential boilers and furnaces. Residential boilers and furnaces generally resemble firetube boilers with flue gas traveling through several channels or tubes with water or air circulated outside the channels or tubes.

1.4.3 Emissions[3-4]

The emissions from natural gas-fired boilers and furnaces include nitrogen oxides (NO_x), carbon monoxide (CO), and carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), volatile organic compounds (VOCs), trace amounts of sulfur dioxide (SO_2), and particulate matter (PM).

Nitrogen Oxides -

Nitrogen oxides formation occurs by three fundamentally different mechanisms. The principal mechanism of NO_x formation in natural gas combustion is thermal NO_x. The thermal NO_x mechanism occurs through the thermal dissociation and subsequent reaction of nitrogen (N_2) and oxygen (O_2) molecules in the combustion air. Most NO_x formed through the thermal NO_x mechanism occurs in the high temperature flame zone near the burners. The formation of thermal NO_x is affected by three furnace-zone factors: (1) oxygen concentration, (2) peak temperature, and (3) time of exposure at peak temperature. As these three factors increase, NO_x emission levels increase. The emission trends due to changes in these factors are fairly consistent for all types of natural gas-fired boilers and furnaces. Emission levels vary considerably with the type and size of combustor and with operating conditions (e.g., combustion air temperature, volumetric heat release rate, load, and excess oxygen level).

The second mechanism of NO_x formation, called prompt NO_x, occurs through early reactions of nitrogen molecules in the combustion air and hydrocarbon radicals from the fuel. Prompt NO_x reactions occur within the flame and are usually negligible when compared to the amount of NO_x formed through the thermal NO_x mechanism. However, prompt NO_x levels may become significant with ultra-low-NO_x burners.

The third mechanism of NO_x formation, called fuel NO_x, stems from the evolution and reaction of fuel-bound nitrogen compounds with oxygen. Due to the characteristically low fuel nitrogen content of natural gas, NO_x formation through the fuel NO_x mechanism is insignificant.

Carbon Monoxide -

The rate of CO emissions from boilers depends on the efficiency of natural gas combustion. Improperly tuned boilers and boilers operating at off-design levels decrease combustion efficiency resulting in increased CO emissions. In some cases, the addition of NO_x control systems such as low NO_x burners and flue gas recirculation (FGR) may also reduce combustion efficiency, resulting in higher CO emissions relative to uncontrolled boilers.

Volatile Organic Compounds -

The rate of VOC emissions from boilers and furnaces also depends on combustion efficiency. VOC emissions are minimized by combustion practices that promote high combustion temperatures, long residence times at those temperatures, and turbulent mixing of fuel and combustion air. Trace amounts of VOC species in the natural gas fuel (e.g., formaldehyde and benzene) may also contribute to VOC emissions if they are not completely combusted in the boiler.

Sulfur Oxides -

Emissions of SO_2 from natural gas-fired boilers are low because pipeline quality natural gas typically has sulfur levels of 2,000 grains per million cubic feet. However, sulfur-containing odorants are added to natural gas for detecting leaks, leading to small amounts of SO_2 emissions. Boilers combusting unprocessed natural gas may have higher SO_2 emissions due to higher levels of sulfur in the natural gas. For these units, a sulfur mass balance should be used to determine SO_2 emissions.

Particulate Matter -

Because natural gas is a gaseous fuel, filterable PM emissions are typically low. Particulate matter from natural gas combustion has been estimated to be less than 1 micrometer in size and has filterable and condensable fractions. Particulate matter in natural gas combustion are usually larger molecular weight hydrocarbons that are not fully combusted. Increased PM emissions may result from poor air/fuel mixing or maintenance problems.

Greenhouse Gases -[6-9]

CO_2, CH_4, and N_2O emissions are all produced during natural gas combustion. In properly tuned boilers, nearly all of the fuel carbon (99.9 percent) in natural gas is converted to CO_2 during the combustion process. This conversion is relatively independent of boiler or combustor type. Fuel carbon not converted to CO_2 results in CH_4, CO, and/or VOC emissions and is due to incomplete combustion. Even in boilers operating with poor combustion efficiency, the amount of CH_4, CO, and VOC produced is insignificant compared to CO_2 levels.

Formation of N_2O during the combustion process is affected by two furnace-zone factors. N_2O emissions are minimized when combustion temperatures are kept high (above 1475°F) and excess oxygen is kept to a minimum (less than 1 percent).

Methane emissions are highest during low-temperature combustion or incomplete combustion, such as the start-up or shut-down cycle for boilers. Typically, conditions that favor formation of N_2O also favor emissions of methane.

1.4.4 Controls[4,10]

NO_x Controls -

Currently, the two most prevalent combustion control techniques used to reduce NO_x emissions from natural gas-fired boilers are flue gas recirculation (FGR) and low NO_x burners. In an FGR system, a portion of the flue gas is recycled from the stack to the burner windbox. Upon entering the windbox, the recirculated gas is mixed with combustion air prior to being fed to the burner. The recycled flue gas consists of combustion products which act as inerts during combustion of the fuel/air mixture. The FGR system reduces NO_x emissions by two mechanisms. Primarily, the recirculated gas acts as a dilutent to reduce combustion temperatures, thus suppressing the thermal NO_x mechanism. To a lesser extent, FGR also reduces NO_x formation by lowering the oxygen concentration in the primary flame zone. The amount of recirculated flue gas is a key operating parameter influencing NO_x emission rates for these systems. An FGR system is normally used in combination with specially designed low NO_x burners capable of sustaining a stable flame with the increased inert gas flow resulting from the use of FGR. When low NO_x burners and FGR are used in combination, these techniques are capable of reducing NO_x emissions by 60 to 90 percent.

Low NO_x burners reduce NO_x by accomplishing the combustion process in stages. Staging partially delays the combustion process, resulting in a cooler flame which suppresses thermal NO_x formation. The two most common types of low NO_x burners being applied to natural gas-fired boilers are staged air burners and staged fuel burners. NO_x emission reductions of 40 to 85 percent (relative to uncontrolled emission levels) have been observed with low NO_x burners.

Other combustion control techniques used to reduce NO_x emissions include staged combustion and gas reburning. In staged combustion (e.g., burners-out-of-service and overfire air), the degree of staging is a key operating parameter influencing NO_x emission rates. Gas reburning is similar to the use of overfire in the use of combustion staging. However, gas reburning injects additional amounts of natural gas in the upper furnace, just before the overfire air ports, to provide increased reduction of NO_x to NO_2.

Two postcombustion technologies that may be applied to natural gas-fired boilers to reduce NO_x emissions are selective noncatalytic reduction (SNCR) and selective catalytic reduction (SCR). The SNCR system injects ammonia (NH_3) or urea into combustion flue gases (in a specific temperature zone) to reduce NO_x emission. The Alternative Control Techniques (ACT) document for NO_x emissions from utility boilers, maximum SNCR performance was estimated to range from 25 to 40 percent for natural gas-fired boilers.[12] Performance data available from several natural gas fired utility boilers with SNCR show a 24 percent reduction in NO_x for applications on wall-fired boilers and a 13 percent reduction in NO_x for applications on tangential-fired boilers.[11] In many situations, a boiler may have an SNCR system installed to trim NO_x emissions to meet permitted levels. In these cases, the SNCR system may not be operated to achieve maximum NO_x reduction. The SCR system involves injecting NH_3 into the flue gas in the presence of a catalyst to reduce NO_x emissions. No data were available on SCR performance on natural gas fired boilers at the time of this publication. However, the ACT Document for utility boilers estimates NO_x reduction efficiencies for SCR control ranging from 80 to 90 percent.[12]

Emission factors for natural gas combustion in boilers and furnaces are presented in Tables 1.4-1, 1.4-2, 1.4-3, and 1.4-4.[11] Tables in this section present emission factors on a volume basis (lb/10^6 scf). To convert to an energy basis (lb/MMBtu), divide by a heating value of 1,020 MMBtu/10^6 scf. For the purposes of developing emission factors, natural gas combustors have been organized into three general categories: large wall-fired boilers with greater than 100 MMBtu/hr of heat input, boilers and residential furnaces with less than 100 MMBtu/hr of heat input, and tangential-fired boilers. Boilers within these categories share the same general design and operating characteristics and hence have similar emission characteristics when combusting natural gas.

Emission factors are rated from A to E to provide the user with an indication of how “good” the factor is, with “A” being excellent and “E” being poor. The criteria that are used to determine a rating for an emission factor can be found in the Emission Factor Documentation for AP-42 Section 1.4 and in the introduction to the AP-42 document.

1.4.5 Updates Since the Fifth Edition

The Fifth Edition was released in January 1995. Revisions to this section are summarized below. For further detail, consult the Emission Factor Documentation for this section. These and other documents can be found on the Emission Factor and Inventory Group (EFIG) home page (http://www.epa.gov/ttn/chief).

Supplement D, March 1998

- Text was revised concerning Firing Practices, Emissions, and Controls.

- All emission factors were updated based on 482 data points taken from 151 source tests. Many new emission factors have been added for speciated organic compounds, including hazardous air pollutants.

July 1998 - minor changes

- Footnote D was added to table 1.4-3 to explain why the sum of individual HAP may exceed VOC or TOC, the web address was updated, and the references were reordered.

Table 1.4-1. EMISSION FACTORS FOR NITROGEN OXIDES (NO_x) AND CARBON MONOXIDE (CO) FROM NATURAL GAS COMBUSTION[a]

Combustor Type (MMBtu/hr Heat Input) [SCC]	NO_x[b]		CO	
	Emission Factor (lb/10^6 scf)	Emission Factor Rating	Emission Factor (lb/10^6 scf)	Emission Factor Rating
Large Wall-Fired Boilers (>100) [1-01-006-01, 1-02-006-01, 1-03-006-01]				
Uncontrolled (Pre-NSPS)[c]	280	A	84	B
Uncontrolled (Post-NSPS)[c]	190	A	84	B
Controlled - Low NO_x burners	140	A	84	B
Controlled - Flue gas recirculation	100	D	84	B
Small Boilers (<100) [1-01-006-02, 1-02-006-02, 1-03-006-02, 1-03-006-03]				
Uncontrolled	100	B	84	B
Controlled - Low NO_x burners	50	D	84	B
Controlled - Low NO_x burners/Flue gas recirculation	32	C	84	B
Tangential-Fired Boilers (All Sizes) [1-01-006-04]				
Uncontrolled	170	A	24	C
Controlled - Flue gas recirculation	76	D	98	D
Residential Furnaces (<0.3) [No SCC]				
Uncontrolled	94	B	40	B

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. To convert from lb/10^6 scf to kg/10^6 m^3, multiply by 16. Emission factors are based on an average natural gas higher heating value of 1,020 Btu/scf. To convert from 1b/10^6 scf to lb/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. SCC = Source Classification Code. ND = no data. NA = not applicable.

[b] Expressed as NO_2. For large and small wall fired boilers with SNCR control, apply a 24 percent reduction to the appropriate NO_X emission factor. For tangential-fired boilers with SNCR control, apply a 13 percent reduction to the appropriate NO_X emission factor.

[c] NSPS=New Source Performance Standard as defined in 40 CFR 60 Subparts D and Db. Post-NSPS units are boilers with greater than 250 MMBtu/hr of heat input that commenced construction modification, or reconstruction after August 17, 1971, and units with heat input capacities between 100 and 250 MMBtu/hr that commenced construction modification, or reconstruction after June 19, 1984.

TABLE 1.4-2. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM NATURAL GAS COMBUSTION[a]

Pollutant	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating
CO_2[b]	120,000	A
Lead	0.0005	D
N_2O (Uncontrolled)	2.2	E
N_2O (Controlled-low-NO_X burner)	0.64	E
PM (Total)[c]	7.6	D
PM (Condensable)[c]	5.7	D
PM (Filterable)[c]	1.9	B
SO_2[d]	0.6	A
TOC	11	B
Methane	2.3	B
VOC	5.5	C

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from $lb/10^6$ scf to $kg/10^6$ m^3, multiply by 16. To convert from $lb/10^6$ scf to 1b/MMBtu, divide by 1,020. The emission factors in this table may be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this average heating value. TOC = Total Organic Compounds. VOC = Volatile Organic Compounds.

[b] Based on approximately 100% conversion of fuel carbon to CO_2. $CO_2[lb/10^6$ scf$]$ = (3.67) (CON) (C)(D), where CON = fractional conversion of fuel carbon to CO_2, C = carbon content of fuel by weight (0.76), and D = density of fuel, $4.2x10^4$ $lb/10^6$ scf.

[c] All PM (total, condensible, and filterable) is assumed to be less than 1.0 micrometer in diameter. Therefore, the PM emission factors presented here may be used to estimate PM_{10}, $PM_{2.5}$ or PM_1 emissions. Total PM is the sum of the filterable PM and condensible PM. Condensible PM is the particulate matter collected using EPA Method 202 (or equivalent). Filterable PM is the particulate matter collected on, or prior to, the filter of an EPA Method 5 (or equivalent) sampling train.

[d] Based on 100% conversion of fuel sulfur to SO_2.
Assumes sulfur content is natural gas of 2,000 grains/10^6 scf. The SO_2 emission factor in this table can be converted to other natural gas sulfur contents by multiplying the SO_2 emission factor by the ratio of the site-specific sulfur content (grains/10^6 scf) to 2,000 grains/10^6 scf.

TABLE 1.4-3. EMISSION FACTORS FOR SPECIATED ORGANIC COMPOUNDS FROM NATURAL GAS COMBUSTION[a]

CAS No.	Pollutant	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating
91-57-6	2-Methylnaphthalene[b, c]	2.4E-05	D
56-49-5	3-Methylchloranthrene[b, c]	<1.8E-06	E
	7,12-Dimethylbenz(a)anthracene[b,c]	<1.6E-05	E
83-32-9	Acenaphthene[b,c]	<1.8E-06	E
203-96-8	Acenaphthylene[b,c]	<1.8E-06	E
120-12-7	Anthracene[b,c]	<2.4E-06	E
56-55-3	Benz(a)anthracene[b,c]	<1.8E-06	E
71-43-2	Benzene[b]	2.1E-03	B
50-32-8	Benzo(a)pyrene[b,c]	<1.2E-06	E
205-99-2	Benzo(b)fluoranthene[b,c]	<1.8E-06	E
191-24-2	Benzo(g,h,i)perylene[b,c]	<1.2E-06	E
205-82-3	Benzo(k)fluoranthene[b,c]	<1.8E-06	E
106-97-8	Butane	2.1E+00	E
218-01-9	Chrysene[b,c]	<1.8E-06	E
53-70-3	Dibenzo(a,h)anthracene[b,c]	<1.2E-06	E
25321-22-6	Dichlorobenzene[b]	1.2E-03	E
74-84-0	Ethane	3.1E+00	E
206-44-0	Fluoranthene[b,c]	3.0E-06	E
86-73-7	Fluorene[b,c]	2.8E-06	E
50-00-0	Formaldehyde[b]	7.5E-02	B
110-54-3	Hexane[b]	1.8E+00	E
193-39-5	Indeno(1,2,3-cd)pyrene[b,c]	<1.8E-06	E
91-20-3	Naphthalene[b]	6.1E-04	E
109-66-0	Pentane	2.6E+00	E
85-01-8	Phenanathrene[b,c]	1.7E-05	D

TABLE 1.4-3. EMISSION FACTORS FOR SPECIATED ORGANIC COMPOUNDS FROM NATURAL GAS COMBUSTION (Continued)

CAS No.	Pollutant	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating
74-98-6	Propane	1.6E+00	E
129-00-0	Pyrene[b, c]	5.0E-06	E
108-88-3	Toluene[b]	3.4E-03	C

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. To convert from $lb/10^6$ scf to $kg/10^6$ m^3, multiply by 16. To convert from $1b/10^6$ scf to lb/MMBtu, divide by 1,020. Emission Factors preceeded with a less-than symbol are based on method detection limits.

[b] Hazardous Air Pollutant (HAP) as defined by Section 112(b) of the Clean Air Act.

[c] HAP because it is Polycyclic Organic Matter (POM). POM is a HAP as defined by Section 112(b) of the Clean Air Act.

[d] The sum of individual organic compounds may exceed the VOC and TOC emission factors due to differences in test methods and the availability of test data for each pollutant.

TABLE 1.4-4. EMISSION FACTORS FOR METALS FROM NATURAL GAS COMBUSTION[a]

CAS No.	Pollutant	Emission Factor (lb/10^6 scf)	Emission Factor Rating
7440-38-2	Arsenic[b]	2.0E-04	E
7440-39-3	Barium	4.4E-03	D
7440-41-7	Beryllium[b]	<1.2E-05	E
7440-43-9	Cadmium[b]	1.1E-03	D
7440-47-3	Chromium[b]	1.4E-03	D
7440-48-4	Cobalt[b]	8.4E-05	D
7440-50-8	Copper	8.5E-04	C
7439-96-5	Manganese[b]	3.8E-04	D
7439-97-6	Mercury[b]	2.6E-04	D
7439-98-7	Molybdenum	1.1E-03	D
7440-02-0	Nickel[b]	2.1E-03	C
7782-49-2	Selenium[b]	<2.4E-05	E
7440-62-2	Vanadium	2.3E-03	D
7440-66-6	Zinc	2.9E-02	E

[a] Reference 11. Units are in pounds of pollutant per million standard cubic feet of natural gas fired. Data are for all natural gas combustion sources. Emission factors preceeded by a less-than symbol are based on method detection limits. To convert from lb/10^6 scf to kg/10^6 m^3, multiply by l6. To convert from lb/10^6 scf to 1b/MMBtu, divide by 1,020.

[b] Hazardous Air Pollutant as defined by Section 112(b) of the Clean Air Act.

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AP-42 Section 1.4: Natural Gas Combustion Data Files

The data that supports the emission factors are presented in summary in the background report and are reported more completely in an electronic database. The database is in Microsoft Access 97®. The file is located on the CHIEF web site at http://www.epa.gov/ttn/chief/ap42c1.html.

NEW MEXICO

AVERAGE WIND SPEED - MPH

STATION	ID	Years	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
ALAMOGORDO AIRPORT ASOS	KALM	1996-2006	5.1	6.3	7.1	7.9	7.1	6.9	6.1	5.3	5.2	5.2	5.0	5.0	6.0
ALAMOGORDO-HOLLOMAN AFB	KHMN	1996-2006	8.5	9.7	10.6	11.8	10.8	10.6	9.8	9.1	8.8	8.5	8.1	8.3	9.6
ALBUQUERQUE AP ASOS	KABQ	1996-2006	7.0	8.2	9.3	11.1	10.0	10.0	8.7	8.3	8.0	7.9	7.2	6.9	8.5
ALBUQUERQUE-DBLE EAGLE	KAEG	1999-2006	7.1	7.9	9.0	10.6	9.5	8.6	7.0	6.2	7.0	6.5	6.5	6.1	7.7
ARTESIA AIRPORT ASOS	KATS	1997-2006	7.8	9.1	10.1	10.9	10.2	9.9	7.8	6.9	7.6	7.8	7.6	7.4	8.5
CARLSBAD AIRPORT ASOS	KCNM	1996-2006	9.2	9.8	10.9	11.4	10.4	9.9	8.5	7.7	8.2	8.5	8.4	8.8	9.3
CLAYTON MUNI AP ASOS	KCAO	1996-2006	11.9	12.7	13.4	14.6	13.4	13.0	11.7	10.8	11.8	12.1	12.1	12.0	12.4
CLINES CORNERS	KCQC	1998-2006	16.2	16.1	15.7	16.9	14.6	13.5	10.6	10.1	11.8	13.3	15.0	16.0	14.1
CLOVIS AIRPORT AWOS	KCVN	1996-2006	12.3	12.3	13.4	13.8	12.4	11.9	9.7	8.9	9.7	10.9	11.6	12.2	11.6
CLOVIS-CANNON AFB	KCVS	1996-2006	12.5	12.6	13.6	13.8	12.2	12.5	10.7	10.0	10.2	11.3	11.7	12.4	12.0
DEMING AIRPORT ASOS	KDMN	1996-2006	8.7	9.7	10.9	12.0	10.6	10.1	8.9	8.1	8.4	8.2	8.5	8.1	9.3
FARMINGTON AIRPORT ASOS	KFMN	1996-2006	7.3	8.3	9.0	9.8	9.4	9.4	8.7	8.2	8.0	7.8	7.6	7.3	8.4
GALLUP AIRPORT ASOS	KGUP	1996-2006	5.7	6.9	7.8	10.0	9.0	8.8	6.9	6.0	6.5	6.1	5.6	5.3	7.0
GRANTS-MILAN AP ASOS	KGNT	1997-2006	7.8	8.8	9.6	10.9	10.0	9.8	8.1	7.2	7.9	8.4	8.0	7.6	8.7
HOBBS AIRPORT AWOS	KHOB	1996-2006	11.3	11.9	12.6	13.4	12.5	12.3	11.0	10.0	10.2	10.6	10.7	11.1	11.4
LAS CRUCES AIRPORT AWOS	KLRU	2000-2006	6.4	7.5	8.8	10.1	8.7	8.2	6.8	6.0	6.2	6.1	6.4	6.0	7.3
LAS VEGAS AIRPORT ASOS	KLVS	1996-2006	10.9	12.2	12.5	14.3	12.4	11.8	10.0	9.2	10.9	10.8	11.0	10.9	11.4
LOS ALAMOS AP AWOS	KLAM	2005-2006	3.9	5.7	7.5	8.1	7.1	7.3	5.3	4.8	5.7	5.1	4.4	3.2	5.4
RATON AIRPORT ASOS	KRTN	1998-2006	8.9	9.4	10.4	12.2	10.8	10.2	8.4	8.1	8.6	9.0	8.6	8.5	9.4
ROSWELL AIRPORT ASOS	KROW	1996-2006	7.4	8.9	9.9	11.1	10.3	10.2	8.8	7.9	8.3	8.0	7.5	7.3	8.8
RUIDOSO AIRPORT AWOS	KSRR	1996-2006	8.8	9.6	10.0	11.6	10.0	8.4	5.9	5.3	6.4	7.4	7.9	8.7	8.3
SANTA FE AIRPORT ASOS	KSAF	1996-2006	8.9	9.5	9.9	11.2	10.6	10.5	9.2	8.8	8.8	9.1	8.7	8.5	9.5
SILVER CITY AP AWOS	KSVC	1999-2006	8.1	8.7	9.9	10.8	10.2	9.9	8.5	7.2	6.9	7.6	7.9	7.7	8.5
TAOS AIRPORT AWOS	KSKX	1996-2006	5.8	6.5	7.7	9.1	8.6	8.5	7.1	6.6	6.7	6.6	6.0	5.7	7.0
TRUTH OR CONSEQ AP ASOS	KTCS	1996-2006	7.4	8.7	9.9	11.1	10.4	9.8	8.1	7.4	7.7	8.0	7.7	7.3	8.6
TUCUMCARI AIRPORT ASOS	KTCC	1999-2006	10.0	11.2	11.9	13.6	11.9	11.6	9.9	9.3	10.0	10.0	10.4	10.2	10.8

Roper Construction, Inc. Alto Concrete Batch Plant Emissions Inventory
125 CuFt/Hr; 500,000 CuFt per Year

Typical cuyd of concrete

	pound/yd	tons/hr	tons/yr
total concrete	3881	242.6	970,250
aggregate	1900	118.8	475,000
sand	1100	68.8	275,000
cement	489	30.6	122,250
flyash	132	8.3	33,000
water	260	16.3	65,000

Max. plant capacity	125	cuyd/hr	
Max. plant capacity	1875	cuyd/day	
Max. plant capacity	500000	cuyd/yr	
Hours per year of operation based on annual throughput	4000	hrs/yr	(not a requested permit limit)
Uncontrolled hrs/yr of operation	8760	hrs/yr	

Aggregate Storage Pile Handling

AP-42 13.2.4	E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton			
Max tph	118.75 tph		475000	ton/yr
k(PM)	0.74			
k(pm10)	0.35			
k(pm2.5)	0.053			
Umax	11 MPH		NMED Default	
Uannual	8.3 MPH		Ruidoso Airport WS 1996-2006	
M	1.77 %		AP-42 Section 11.12, Table 11.12-2, footnote b	

	lb/hr	tons/yr
E(PM) Uncontrolled	0.92992	4.07304
E(pm10) Uncontrolled	0.43983	1.92644
E(pm2.5) Uncontrolled	0.06660	0.29172

	lb/hr	tons/yr	Model lbs/hr	
E(PM) Controlled	0.92992	1.28963	0.64482	Limit Annual Material Throughput
E(pm10) Controlled	0.43983	0.60996	0.30498	Limit Annual Material Throughput
E(pm2.5) Controlled	0.06660	0.09237	0.04618	Limit Annual Material Throughput

Sand Storage Pile Handling

AP-42 13.2.4	E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton			
Max tph	68.75 tph		275000	ton/yr
k(PM)	0.74			
k(pm10)	0.35			
k(pm2.5)	0.053			
Umax	11 MPH		NMED Default	
Uannual	8.3 MPH		Ruidoso Airport WS 1996-2006	
M	4.17 %		AP-42 Section 11.12, Table 11.12-2, footnote b	

	lb/hr	tons/yr
E(PM) Uncontrolled	0.16220	0.71044
E(pm10) Uncontrolled	0.07672	0.33602
E(pm2.5) Uncontrolled	0.01162	0.05088

	lb/hr	tons/yr	Model lbs/hr	
E(PM) Controlled	0.16220	0.22495	0.11247	Limit Annual Material Throughput
E(pm10) Controlled	0.07672	0.10639	0.05320	Limit Annual Material Throughput
E(pm2.5) Controlled	0.01162	0.01611	0.00806	Limit Annual Material Throughput

Aggregate and Sand Feeder Loading

AP-42 13.2.4	E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton			
Max tph	187.5 tph		750000	ton/yr
k(PM)	0.74			
k(pm10)	0.35			
k(pm2.5)	0.053			
Umax	11 MPH		NMED Default	
Uannual	8.3 MPH		Ruidoso Airport WS 1996-2006	
M	2.65 %		Calculated weighted average aggregate and sand	

	lb/hr	tons/yr
E(PM) Uncontrolled	0.83451	3.65514
E(pm10) Uncontrolled	0.39470	1.72878
E(pm2.5) Uncontrolled	0.05977	0.26179

	lb/hr	tons/yr	Model lbs/hr	
E(PM) Uncontrolled	0.83451	1.15731	0.57866	Limit Annual Material Throughput
E(pm10) Uncontrolled	0.39470	0.54738	0.27369	Limit Annual Material Throughput
E(pm2.5) Uncontrolled	0.05977	0.08289	0.04144	Limit Annual Material Throughput

Roper Construction, Inc. Alto Concrete Batch Plant Emissions Inventory
125 CuFt/Hr; 500,000 CuFt per Year

Aggregate and Sand Feeder Unloading

AP-42 11.19.2 Table 11.19.2-2 "Conveyor Transfer Point"

Max tph	187.5 tph		2812.5 ton/day	750000 ton/yr
E(PM) Uncontrolled	0.003 lbs/ton			
E(pm10) Uncontrolled	0.0011 lbs/ton			
E(pm2.5) Uncontrolled	0.000167 lbs/ton			

	lb/hr	tons/yr
E(PM) Uncontrolled	0.56250	2.46375
E(pm10) Uncontrolled	0.20625	0.90338
E(pm10) Uncontrolled	0.03123	0.13680

E(PM) Controlled	0.00014 lbs/ton	
E(pm10) Controlled	0.000046 lbs/ton	95.82% Control Efficiency
E(pm2.5) Controlled	0.000013 lbs/ton	

	lb/hr	tons/yr	
E(PM) Controlled	0.02625	0.05250	Limit Annual Material Throughput
E(pm10) Controlled	0.00863	0.01725	Limit Annual Material Throughput
E(pm10) Controlled	0.00244	0.00488	Limit Annual Material Throughput

Aggregate Bin Loading

AP-42 11.19.2 Table 11.19.2-2 "Conveyor Transfer Point"

Max tph	187.5 tph	750000 ton/yr
E(PM) Uncontrolled	0.003 lbs/ton	
E(pm10) Uncontrolled	0.0011 lbs/ton	
E(pm2.5) Uncontrolled	0.000167 lbs/ton	

	lb/hr	tons/yr
E(PM) Uncontrolled	0.56250	2.46375
E(pm10) Uncontrolled	0.20625	0.90338
E(pm2.5) Uncontrolled	0.03123	0.13680

E(PM) Controlled	0.00014 lbs/ton	
E(pm10) Controlled	0.000046 lbs/ton	95.82% Control Efficiency
E(pm2.5) Controlled	0.000013 lbs/ton	

	lb/hr	tons/yr	
E(PM) Controlled	0.02625	0.05250	Limit Annual Material Throughput
E(pm10) Controlled	0.00863	0.01725	Limit Annual Material Throughput
E(pm2.5) Controlled	0.00244	0.00488	Limit Annual Material Throughput

Aggregate Weight Batcher Unloading to Batcher Conveyor

AP-42 11.19.2 Table 11.19.2-2 "Conveyor Transfer Point"

Max tph	187.5 tph	750000 ton/yr
E(PM) Uncontrolled	0.003 lbs/ton	
E(pm10) Uncontrolled	0.0011 lbs/ton	
E(pm2.5) Uncontrolled	0.000167 lbs/ton	

	lb/hr	tons/yr
E(PM) Uncontrolled	0.56250	2.46375
E(pm10) Uncontrolled	0.20625	0.90338
E(pm10) Uncontrolled	0.03123	0.13680

E(PM) Controlled	0.00014 lbs/ton	
E(pm10) Controlled	0.000046 lbs/ton	95.82% Control Efficiency
E(pm2.5) Controlled	0.000013 lbs/ton	

	lb/hr	tons/yr	
E(PM) Controlled	0.02625	0.05250	Limit Annual Material Throughput
E(pm10) Controlled	0.00863	0.01725	Limit Annual Material Throughput
E(pm2.5) Controlled	0.00244	0.00488	Limit Annual Material Throughput

Truck Loading

Uncontrolled emissions based on AP-42 Section 11.12 "Concrete Batching" Table 11.12-2 "Uncontrolled Truck Loading"

E(PM) =	1.118 lbs/ton	Uncontrolled Truck Loading PM
E(PM10) =	0.31 lbs/ton	Uncontrolled Truck Loading PM10
E(PM2.5) =	0.0558 lbs/ton	Uncontrolled Truck Loading PM2.5, Truck Loading Table 11.12-3 PM10 * PM2.5/PM10 (0.05/0.278)

Max tph Cement and Flyash	38.8125 tph	155250 ton/yr

	lb/hr	tons/yr
E(pm) uncontrolled truck loading	43.4	190
E(pm10) uncontrolled truck loading	12.0	53
E(pm2.5) uncontrolled truck loading	2.2	9.5

Controlled based on baghouse exit control efficiency of 99.9%

Control Efficiency 99.9%

	lb/hr	tons/yr	
E(PM) controlled truck loading	0.043	0.09	
E(pm10) controlled truck loading	0.012	0.024	
E(pm2.5) controlled truck loading	0.0018	0.0036	Controlled Truck Loading PM2.5, Truck Loading Table 11.12-3 PM10 * PM2.5/PM10 (0.048/0.32)

Roper Construction, Inc. Alto Concrete Batch Plant Emissions Inventory
125 CuFt/Hr; 500,000 CuFt per Year

Cement/Fly Ash Weigh Batcher

Uncontrolled emissions based on AP-42 Section 11.12 "Concrete Batching" Table 11.12-2 "Uncontrolled Mixer Loading"

E(PM) =	0.572	lbs/ton	Uncontrolled Mixer Loading PM
E(PM10) =	0.156	lbs/ton	Uncontrolled Mixer Loading PM10
E(PM2.5) =	0.0309	lbs/ton	Uncontrolled Mixer Loading PM2.5, Central Mix Operation Table 11.12-4 PM10 * PM2.5/PM10 (0.38/1.92)

Max tph Cement and Flyash 38.8125 tph 155250 ton/yr

	lb/hr	tons/yr
E(pm) uncontrolled batcher	22.20	97.2
E(pm10) uncontrolled batcher	6.05	26.5
E(pm2.5) uncontrolled batcher	1.20	5.2

Controlled based on baghouse exit control efficiency of 99.9%

Control Efficiency 99.9%

	lb/hr	tons/yr	
E(PM) controlled batcher	0.022	0.044	
E(pm10) controlled batcher	0.0061	0.012	
E(pm2.5) controlled batcher	0.0014	0.0024	Controlled Mixer Loading PM2.5, Central Mix Operation Table 11.12-4 PM10 * PM2.5/PM10 (0.03/0.13)

Cement Silo

Uncontrolled emissions based on AP-42 Section 11.12 "Concrete Batching" Table 11.12-2 "Cement Unloading to Elevated Storage Silo"

E(PM) =	0.73	lbs/ton	Uncontrolled Cement Silo Loading PM
E(PM10) =	0.47	lbs/ton	Uncontrolled Cement Silo Loading PM10
E(PM2.5) =	0.0930	lbs/ton	Uncontrolled Mixer Loading PM2.5, Central Mix Operation Table 11.12-4 PM10 * PM2.5/PM10 (0.38/1.92)

Max tph Cement 30.6 tph 122250 ton/yr

	lb/hr	tons/yr
E(pm) uncontrolled cement	22.31063	97.72054
E(pm10) uncontrolled cement	14.36438	62.91596
E(pm2.5) uncontrolled cement	2.84295	12.45212

Controlled based on baghouse exit control efficiency of 99.9%

Control Efficiency 99.9%

	lb/hr	tons/yr	
E(PM) controlled cement	0.022311	0.045	
E(pm10) controlled cement	0.014364	0.029	
E(pm2.5) controlled cement	0.003315	0.0057	Controlled Mixer Loading PM2.5, Central Mix Operation Table 11.12-4 PM10 * PM2.5/PM10 (0.03/0.13)

Flyash Silo

Uncontrolled emissions based on AP-42 Section 11.12 "Concrete Batching" Table 11.12-2 "Cement Supplement Unloading to Elevated Storage Silo"

E(PM) =	3.14	lbs/ton	Uncontrolled Mixer Loading PM
E(PM10) =	1.1	lbs/ton	Uncontrolled Mixer Loading PM10
E(PM10) =	0.2177	lbs/ton	Uncontrolled Mixer Loading PM2.5, Central Mix Operation Table 11.12-4 PM10 * PM2.5/PM10 (0.38/1.92)

Max tph Fly Ash 8.25 tph 33000 ton/yr

	lb/hr	tons/yr
E(pm) uncontrolled fly ash	25.90500	113.46390
E(pm10) uncontrolled fly ash	9.07500	39.74850
E(pm2.5) uncontrolled fly ash	1.79609	7.86689

Controlled based on baghouse exit control efficiency of 99.9%

Control Efficiency 99.9%

	lb/hr	tons/yr	
E(PM) controlled truck load	0.026	0.052	
E(pm10) controlled truck load	0.009	0.018	
E(pm2.5) controlled truck load	0.0021	0.0036	Controlled Mixer Loading PM2.5, Central Mix Operation Table 11.12-4 PM10 * PM2.5/PM10 (0.03/0.13)

Roper Construction, Inc. Alto Concrete Batch Plant Emissions Inventory
125 CuFt/Hr; 500,000 CuFt per Year

Road Traffic - Paved AP-42 11.13.1
Equation:
E = k(sL)^0.91*(W)^1.02*[1-P/4N] *Annual emissions only include p factor*

k TSP	0.011	
k PM10	0.0022	
k PM25	0.00054	
sL	0.6	road surface silt loading (g/m2)
P = days with precipitation over 0.01 inches	60	
N = number of days in averaging period	365	

Cement Truck VMT	429	RT meter/vehicle	0.266357658	RT miles/vehicle
Flyash Truck VMT	429	RT meter/vehicle	0.266357658	RT miles/vehicle
Aggregate Truck VMT	785	RT meter/vehicle	0.487710634	RT miles/vehicle
Concrete Truck VMT	429	RT meter/vehicle	0.266357658	RT miles/vehicle

Max. Cement Truck/hr	1.3	truck/hr	23	tons/load	30.6	tons/hr
Max. Flyash Truck/hr	0.4	truck/hr	23	tons/load	8.3	tons/hr
Max. Aggregate Truck/hr	8.2	truck/hr	23	tons/load	187.5	tons/hr
Max. Concrete Truck/hr	10.4	truck/hr	12	cuyd/load	125.0	cuyd/hr
	20.3	truck/hr				

Max. Cement Truck/yr	5315.2	truck/yr	23	tons/load	122250.0	tons/yr
Max. Flyash Truck/yr	1434.8	truck/yr	23	tons/load	33000.0	tons/yr
Max. Aggregate Truck/yr	32608.7	truck/yr	23	tons/load	750000.0	tons/yr
Max. Concrete Truck/yr	41666.7	truck/yr	12	cuyd/load	500000.0	tons/yr
	81025.4	truck/yr				

Cement Truck VMT	0.35394	RT miles/hr	3100.49	miles/yr uncontrolled	1415.75	miles/yr controlled
Flyash Truck VMT	0.09554	RT miles/hr	836.94	miles/yr uncontrolled	382.17	miles/yr controlled
Aggregate Truck VMT	3.97590	RT miles/hr	34828.90	miles/yr uncontrolled	15903.61	miles/yr controlled
Concrete Truck VMT	2.77456	RT miles/hr	24305.14	miles/yr uncontrolled	11098.24	miles/yr controlled
	7.19994	RT miles/hr	63071.47		28799.76	

Cement Truck weight	26.5	tons/average	(15 ton truck tare)
Flyash Truck weight	26.5	tons/average	(15 ton truck tare)
Aggregate Truck weight	26.5	tons/average	(15 ton truck tare)
Concrete Truck weight	25	tons/average	

		PM Uncontrolled				PM Control		
Max. Cement Truck Emissions		0.0692	lbs/hr	0.2907	tons/yr	0.0692	lbs/hr	0.1327	tons/yr
Max. Flyash Truck Emissions		0.0187	lbs/hr	0.0785	tons/yr	0.0187	lbs/hr	0.0358	tons/yr
Max. Aggregate Truck Emissions		0.7774	lbs/hr	3.2652	tons/yr	0.7774	lbs/hr	1.4909	tons/yr
Max. Concrete Truck Emissions		0.5112	lbs/hr	2.1471	tons/yr	0.5112	lbs/hr	0.9804	tons/yr
	total combined traffic	1.3765	lbs/hr	5.7814	tons/yr	1.3765	lbs/hr	2.6399	tons/yr

		PM10 Uncontrolled				PM10 Control			
Max. Cement Truck Emissions		0.0138	lbs/hr	0.0581	tons/yr	0.0138	lbs/hr	0.0265	tons/yr
Max. Flyash Truck Emissions		0.0037	lbs/hr	0.0157	tons/yr	0.0037	lbs/hr	0.0072	tons/yr
Max. Aggregate Truck Emissions		0.1555	lbs/hr	0.6530	tons/yr	0.1555	lbs/hr	0.2982	tons/yr
Max. Concrete Truck Emissions		0.1022	lbs/hr	0.4294	tons/yr	0.1022	lbs/hr	0.1961	tons/yr
	total combined traffic	0.2753	lbs/hr	1.1563	tons/yr	0.2753	lbs/hr	0.5280	tons/yr

		PM2.5 Uncontrolled				PM2.5 Control			
Max. Cement Truck Emissions		0.0034	lbs/hr	0.0143	tons/yr	0.0034	lbs/hr	0.0065	tons/yr
Max. Flyash Truck Emissions		0.0009	lbs/hr	0.0039	tons/yr	0.0009	lbs/hr	0.0018	tons/yr
Max. Aggregate Truck Emissions		0.0382	lbs/hr	0.1603	tons/yr	0.0382	lbs/hr	0.0732	tons/yr
Max. Concrete Truck Emissions		0.0251	lbs/hr	0.1054	tons/yr	0.0251	lbs/hr	0.0481	tons/yr
	total combined traffic	0.0676	lbs/hr	0.2838	tons/yr	0.0676	lbs/hr	0.1296	tons/yr

Roper Construction, Inc. Heater Emissions

Concrete Batch Heater

AP-42 1.4 (7/98)	NOx, CO, VOC and PM Emissions				
Mass Balance	SO2 Emissions				
Heater Size		Natural Gas			
600000	BTU/hr		Heat Rate	945	BTU/scf
634.9	scf/hr		%sulfur	0.75	grains/100 scf

Uncontrolled Hours	8760
Controlled Hours	8760

Emission Factors

NOx	100.0	lbs/10^6 scf
CO	84.0	lbs/10^6 scf
VOC	11.0	lbs/10^6 scf
SO2	0.75	grains/100 scf
PM	7.6	lbs/10^6 scf

Calculated Uncontrolled Emissions

NOx	0.063	lbs/hr	0.28	tpy
CO	0.053	lbs/hr	0.23	tpy
VOC	0.0070	lbs/hr	0.031	tpy
SOx	0.00068	lbs/hr	0.0030	tpy
PM	0.0048	lbs/hr	0.021	tpy

Calculated Controlled Emissions

NOx	0.063	lbs/hr	0.28	tpy
CO	0.053	lbs/hr	0.23	tpy
VOC	0.0070	lbs/hr	0.031	tpy
SOx	0.00068	lbs/hr	0.0030	tpy
PM	0.0048	lbs/hr	0.021	tpy

Roper Construction, Inc Alto Concrete Batch Plant Emissions Inventory
125 CuFt/Hr; 500,000 CuFt per Year
Emission Totals

Uncontrolled Emission Totals

ID #	Source Description	NOx		CO		SO2		VOC		PM		PM10		PM2.5	
		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
1	Haul Road									1.38	5.78	0.28	1.16	0.068	0.28
2	Feeder Hopper									0.83	3.66	0.39	1.73	0.060	0.26
3	Feed Hopper Conveyor									0.56	2.46	0.21	0.90	0.031	0.14
4	4-Bin Aggregate Bin									0.56	2.46	0.21	0.90	0.031	0.14
5,6	Aggregate Weigh Batcher and Conveyor									0.56	2.46	0.21	0.90	0.031	0.14
7	Truck Loading									43.4	190.1	12.0	52.7	2.16	9.48
8	Cement/Fly Ash Batcher									22.2	97.2	6.05	26.5	1.20	5.25
9	Cement Split Silo									22.3	97.7	14.4	62.9	2.84	12.5
10	Fly Ash Split Silo									25.9	113.5	25.9	113.5	9.08	39.7
11	Aggregate/Sand Storage Piles									1.09	4.78	0.52	2.26	0.078	0.34
12	Concrete Batch Plant Heater	0.063	0.28	0.053	0.23	0.00068	0.0030	0.0070	0.031	0.0048	0.021	0.0048	0.021	0.0048	0.021
	Total	**0.063**	**0.28**	**0.053**	**0.23**	**0.00068**	**0.0030**	**0.0070**	**0.031**	**119**	**520**	**60**	**263**	**15.6**	**68**

Controlled Emission Totals

ID #	Source Description	NOx		CO		SO2		VOC		PM		PM10		PM2.5	
		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
1	Haul Road									1.38	2.64	0.28	0.53	0.068	0.13
2	Feeder Hopper									0.83	1.16	0.39	0.55	0.060	0.083
3	Feed Hopper Conveyor									0.026	0.053	0.0086	0.017	0.0024	0.0049
4	4-Bin Aggregate Bin									0.026	0.053	0.0086	0.017	0.0024	0.0049
5,6	Aggregate Weigh Batcher and Conveyor									0.026	0.053	0.0086	0.017	0.0024	0.0049
7,8	Truck Loading and Cement/Fly Ash Batcher Baghouse									0.066	0.13	0.018	0.036	0.0032	0.0060
9	Cement Split Silo Bahouse									0.022	0.045	0.014	0.029	0.0033	0.0057
10	Fly Ash Split Silo Baghouse									0.026	0.052	0.0091	0.018	0.0021	0.0036
11	Aggregate/Sand Storage Piles									1.09	1.51	0.52	0.72	0.078	0.11
12	Concrete Batch Plant Heater	0.063	0.28	0.053	0.23	0.00068	0.0030	0.0070	0.031	0.0048	0.021	0.0048	0.021	0.0048	0.021
	Total	**0.063**	**0.28**	**0.053**	**0.23**	**0.00068**	**0.0030**	**0.0070**	**0.031**	**3.50**	**5.72**	**1.26**	**1.95**	**0.23**	**0.37**

ROPER CONSTRUCTION, INC.
ALTO PLANT NM HWY 220
PLANT CAPACITY 150 YDS PER HOUR

UNIT No.	COMPONENT	MANUFACTURER	MANF DATE	MODEL No.	CAPACITY	MANF EMISION FACTOR	
1	CEMENT BATCHER	JEL MANUFACTURING	TBD	TBD	12 YDS -- 10,000 LBS		
2	1,000 BBL SPLIT SILO	JEL MANUFACTURING	TBD	TBD	1,000 BBL		TOP SILO HT 69 FT
3	CEMENT SILO BAGHOUSE	WAM SILOTOP ZERO	TBD	TBD	264 SF FILTER SURFACE	99.99%	
4	FLYASH SILO BAGHOUSE	WAM SILOTOP ZERO	TBD	TBD	264 SF FILTER SURFACE	99.99%	
5	AGGREGATE BATCHER	JEL MANUFACTURING	TBD	TBD	12 YDS		
6	4 COMPART OH AGG BIN	JEL MANUFACTURING	TBD	TBD	120 TONS		
7	CHARGE CONVEYOR	JEL MANUFACTURING	TBD	TBD	550 TONS/HOUR		
8	FEED CONVEYOR	JEL MANUFACTURING	TBD	TBD	340 TONS/HOUR		
9	FEED HOPPER	JEL MANUFACTURING	TBD	TBD	300 Cu Ft		
10	TRUCK PICKUP DUST COLLECTOR	REX		200DCS	4,500 CFM	99.99%	
11	3 -- INSTANT HOT WATER HEATERS	NAVIEN	TBD	TBD	199,900 BTU X 3		

F1	1000 GAL DIESEL TANK
F2	1000 GAL DIESEL TANK
F3	1000 GAL DIESEL TANK

POWER SOURCE IS LINE 480 VAC POWER

Section 8

Map(s)

A map such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

The UTM or Longitudinal coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the plant of 0.8km (0.5 miles)	Access and haul roads
Topographic features of the area	Facility property boundaries
The name of the map	The area which will be restricted to public access
A graphical scale	

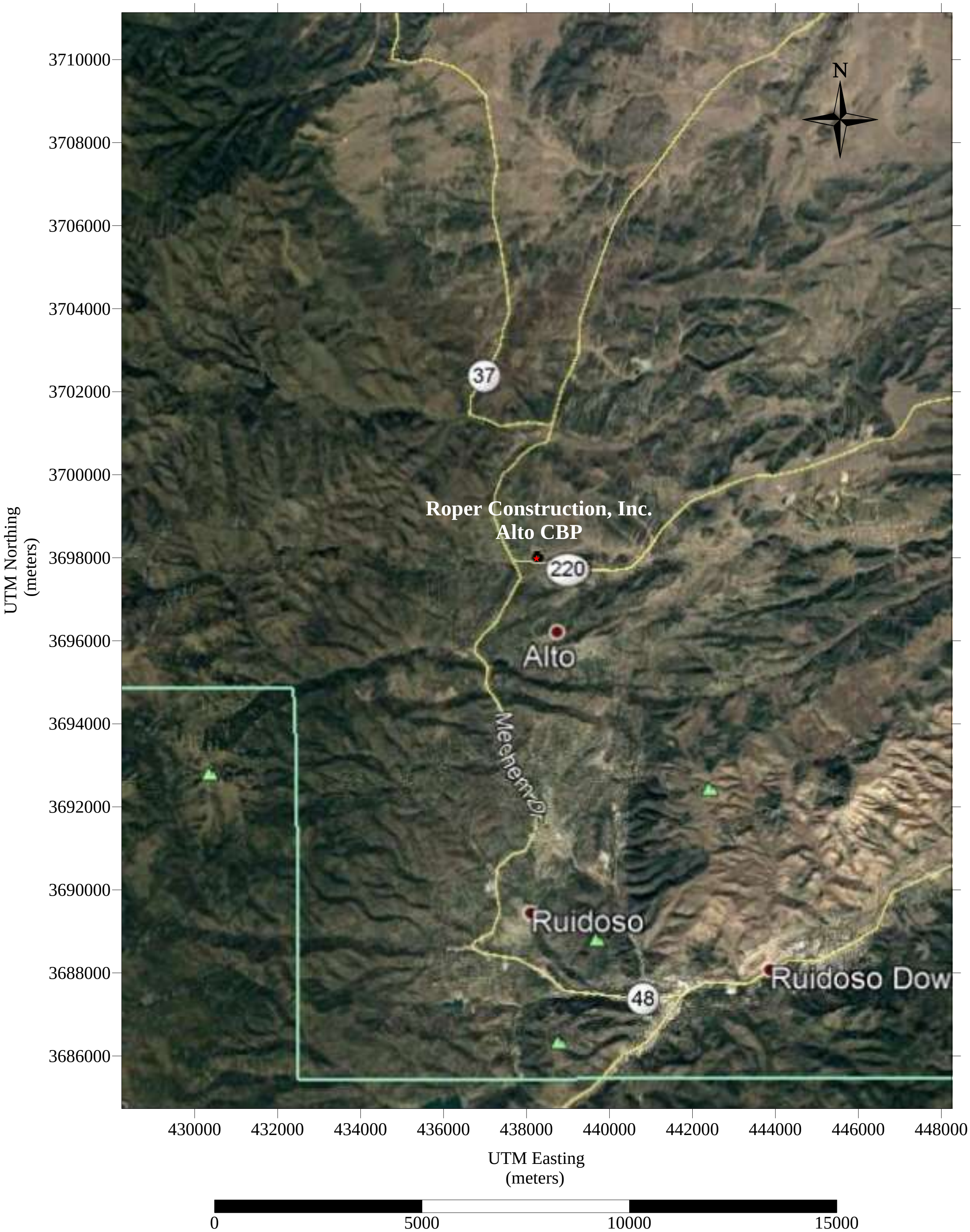

Figure 8-1: Aerial View Alto CBP and Surrounding Terrain

Section 9

Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)
(This proof is required by: 20.2.72.203.A.14 NMAC "Documentary Proof of applicant's public notice")

X I have read the AQB "Guidelines for Public Notification for Air Quality Permit Applications"
This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.

Unless otherwise allowed elsewhere in this document, the following items document proof of the applicant's Public Notification. Please include this page in your proof of public notice submittal with checkmarks indicating which documents are being submitted with the application.

New Permit and **Significant Permit Revision** public notices must include all items in this list.

Technical Revision public notices require only items 1, 5, 9, and 10.

Per the Guidelines for Public Notification document mentioned above, include:

1. X A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
2. X A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g: post office, library, grocery, etc.)
3. X A copy of the property tax record (20.2.72.203.B NMAC).
4. X A sample of the letters sent to the owners of record.
5. X A sample of the letters sent to counties, municipalities, and Indian tribes.
6. X A sample of the public notice posted and a verification of the local postings.
7. X A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
8. X A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
9. X A copy of the classified or legal ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
10. X A copy of the display ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
11. X A map with a graphic scale showing the facility boundary and the surrounding area in which owners of record were notified by mail. This is necessary for verification that the correct facility boundary was used in determining distance for notifying land owners of record.

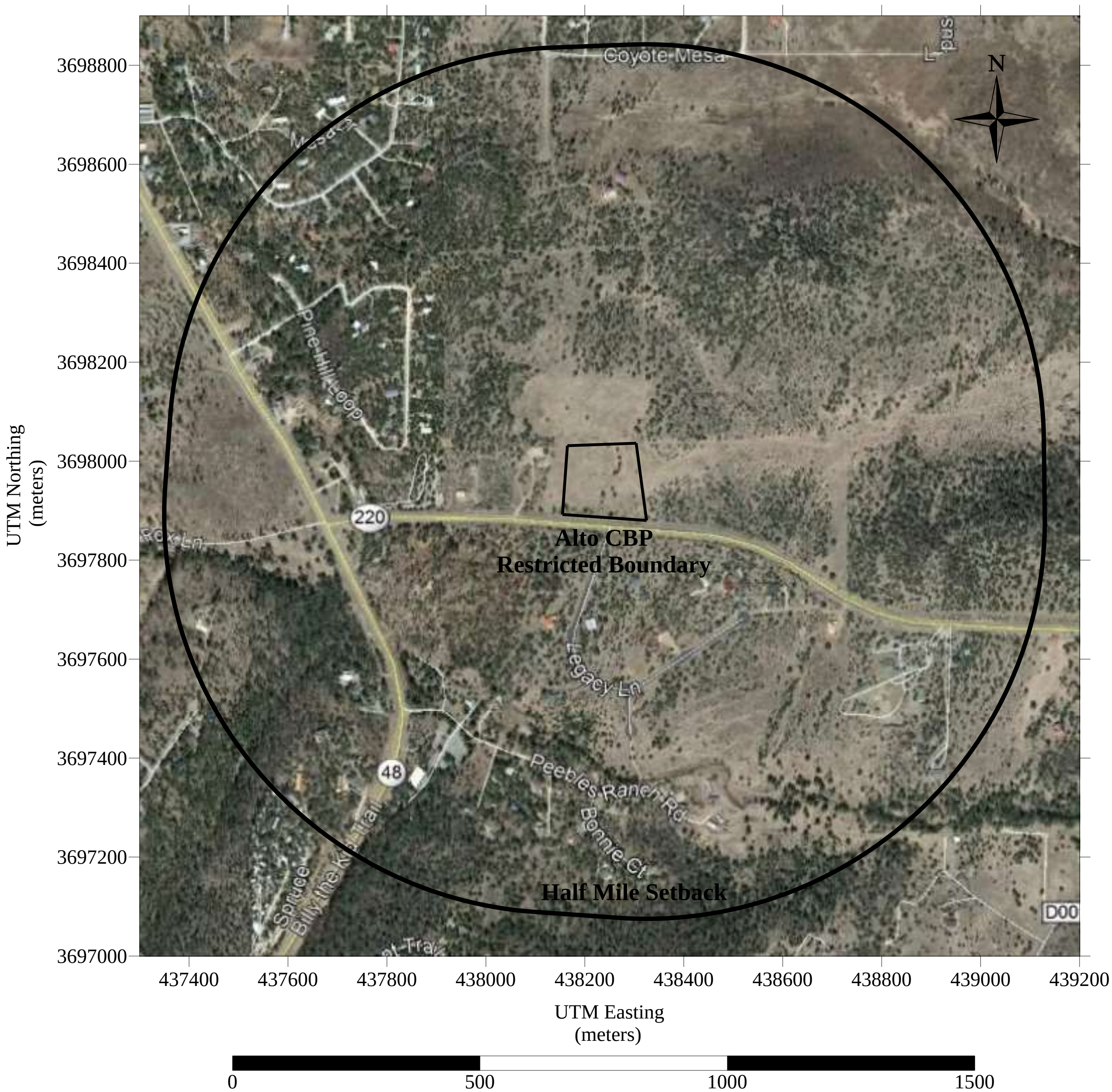

Figure 9-1: Half Mile Setback from Restricted Boundary

Government Entities

Lincoln County	Whitney Whittaker, County Clerk	PO Box 338	Carrizozo	NM	88301
Village of Ruidoso	Ron Sena, Village Clerk	313 Cree Meadows Dr.	Ruidoso	NM	88345
City of Ruidoso Downs	Ally Giron, City Clerk	123 Downs Drive	Ruidoso Downs	NM	88346
Village of Capitan	Stephanie Bason, Village Clerk	PO Box 1380	Capitan	NM	88316
Mescalero Apache Tribe	To Whom it May Concern	PO Box 227	Mescalero	NM	88340

Landowners within 0.5 miles

OWNER #	OWNER NAME	MAILING ADDRESS	CITY	STATE	ZIP
1007303	ABERCROMBIE, ROBERT	PO BOX 14060	LAS CRUCES	NM	88013
305975	ACROS, INC	7101 NORTH MESA STREET	EL PASO	TX	79912
1000204	ALEXANDER, BEVERLY	127 PINE HILL TRL BOX 12	ALTO	NM	88312
264575	ALTO NORTH WATER, COOPERATIVE	PO BOX 373	ALTO	NM	88312
324375	ALVARADO, REBECCA A	7713 RANCHWOOD DR NW	ALBUQUERQUE	NM	87120
281750	ARAIZA, ADOLPH	808 MEADOR DR	LAS CRUCES	NM	88007
314695	ASHBY, GARY	8506 OXFORD AVE	LUBBOCK	TX	79423
316325	AYERS, DEAN	PO BOX 7252	ODESSA	TX	79760
307180	BAKER, RICKY D	PO BOX 1501	ALTO	NM	88312
324950	BARBEE, DEBORAH	101 PINE KNOT TRL #9	ALTO	NM	88312
281725	BARON, LARRY L	PO BOX 1803	ALTO	NM	88312
1004625	BERMAN, SARI L	PO BOX 207	ALTO	NM	88312
332875	BIRINGER NM HOME TRUST	129 PINEHILL TRL	ALTO	NM	88312
329032	BLAKE, HARLAN H R	171 HIDDEN VALLEY RD	ALTO	NM	88312
1007153	BOTKIN, JOSHUA C	PO BOX 444	ALTO	NM	88312
291222	BROWN, DAVID C	6418 BASSWOOD LN	AMARILLO	TX	79124
301325	BUDDE, XOCHITL	10317 BAYO AVE	EL PASO	TX	79925
284350	BYUS, KENT	7618 DIJON LAKE DR	CORPUS CHRISTI	TX	78413
257800	CARVER, KERRY	1080 STATE HWY 48	ALTO	NM	88312

1002050	CATHEY, CRAIG W	147 LEGACY LN	ALTO	NM	88312
283855	CERVANTES, REYNALDO	SALTILLO, COAH 25208			
257805	CHARLSON, CODY L	PO BOX 851	RUIDOSO	NM	88355
324301	CHAVEZ, GENARO	12051 PASEO SOLO LANE	EL PASO	TX	79936
275600	CHRISMAN, DAVID O	142 PINE HILL TRAIL	ALTO	NM	88312
266149	CLARK, CHARLES S JR	145 PEEBLES RANCH RD	ALTO	NM	88312
266153	CLARK, DONNA A	145 PEEBLES RANCH RD	ALTO	NM	88312
325480	CLARKE, ROSEMARY C	10229 AGGIE CIR	EL PASO	TX	79924
1002028	CLICK, WILLIAM R &	9848 DOS CERROS LOOP	BOERNE	TX	78006
294605	COBB, JOHN M	6202 CR 1440	LUBBOCK	TX	79407
1005545	COLTHARP, RICHARD &	1210 RED WING DR	FRIENDSWOOD	TX	77546
332075	CONDON, CHRISTOPHER	PO BOX 1511	ALTO	NM	88312
313175	CONNER, GREG	116 PINE KNOT TRL	ALTO	NM	88312
334975	COOLEY, BOBBY W JR	110 CORNUDAS TRAIL	RUIDOSO	NM	88345
261035	COON, TROY L	1717 PONTIAC AVE	LUBBOCK	TX	79416
289930	CORLEY, DWAYNE	137 PINE HILL TRAIL	ALTO	NM	88312
283857	COUNTRY AFFLUENCE, LLC	PO BOX 3000	BIG SPRING	TX	79721
284000	DEATON INTERESTS, LLC	197 PARK PLACE CIR	CRESSON	TX	76034
323285	DESALVO, KURT JOHN	111 HONEYDEW LN	ALTO	NM	88312
275050	DIANA LEE, LLC	2501 NASHVILLE AVE	EL PASO	TX	79930
281700	DOOLEY, BOYD R & ROBIN M	PO BOX 2483	RUIDOSO	NM	88355
291025	EAGLE POINT VENTURES, LLC	138 PINE HILL TRL	ALTO	NM	88312
285950	EINSEL, LEWIS D	2554 SW SISKIN CIR	PORT ORCHARD	WA	98367
318936	ELSON REV TRUST	PO BOX 1841	ALTO	NM	88312
1000435	ELSON, JAMES K	PO BOX 1841	ALTO	NM	88312
261200	ENCHANTED STAR HOMES, LLC	1451 MECHEM DR	RUIDOSO	NM	88345
254050	EULETT, LEANNE	135 PINEHILL RD	ALTO	NM	88312
1005960	FARRINGTON, GALEN	PO BOX 295	RUIDOSO	NM	88355
307890	FERGUSON TRUST	PO BOX 2286	PAHRUMP	NV	89041
258201	FLYING J RANCH, INC	PO BOX 2505	RUIDOSO	NM	88355
1002480	FOSTER LIVING TRUST	700 SEATTLE SLEW AVE SE	ALBUQUERQUE	NM	87123
264775	FRANCIS, PATRICK M & VIRGINIA U	1694 CATESBY WAY	EL PASO	TX	79911

1001932	FREEMAN FAMILY REV TRUST	PO BOX 567	EDGEWATER	FL	32132
334960	FRENCH ENTERPRISES, LLC	PO BOX 1555	ALTO	NM	88312
1004136	FRENCH, CHARLES DAVID	PO BOX 1555	ALTO	NM	88312
308427	FUQUA, DOUGLAS O	PO BOX 1402	ALTO	NM	88312
308310	GARCIA, PAUL	107 HONEYDEW DR	ALTO	NM	88312
262375	GARDNER, DALE	309 NORTH 4TH ST	WOLFFORTH	TX	79382
1002877	GRIFFIN, GREGG	132 MESCALERO TR	RUIDOSO	NM	88345
1002111	GRIFFIN, GREGG	123 MESCALERO TRAIL	RUIDOSO	NM	88345
321450	GUERRERO, ALFRED R	1420 WALDEN DR	LAS CRUCES	NM	88001
305175	GULFWIND DEVELOPERS, LTD	120 GULFWIND DR	PORT ARANSAS	TX	78373
335114	GURROLA, HECTOR E	1421 TEMPLE HEIGHTS DR	OCEANSIDE	CA	92056
289710	HADDAD, RICHARD J	3925 SOUTH JONES BLVD UNIT 1075	LAS VEGAS	NV	89103
1007200	HALL, JULIE A	40 ROY TUCKER LANE	TULAROSA	NM	88352
1007200	HALL, JULIE A	40 ROY TUCKER LANE	TULAROSA	NM	88352
302155	HARDIN-SIMMONS UNIVERSITY	PO BOX 16005	ABILENE	TX	79698
1006176	HARLOW, JAMES P	901 COUNTY ROAD 279	LIBERTY HILL	TX	78642
304950	HARMON, SUSAN M	110 PINE KNOT TRL	ALTO	NM	88312
255525	HAWKINS, ROBERT H	115 PINE KNOT TRAIL	ALTO	NM	88312
320815	HOBBS, JAMES R	PO BOX 2505	RUIDOSO	NM	88355
1003299	HORTON, PENELOPE S	114 LEGACY LN	ALTO	NM	88312
287176	HUEY, DAYLENE P	PO BOX 856	ALTO	NM	88312
308451	JOHNSON, MIKE L	8200 N PRESCOTT RIDGE RD	PRESCOTT VALLEY	AZ	86315
289800	JONES, MARY B	21530 FER LN	SONORA	CA	95370
311825	KESTERSON, KENNETH	PO BOX 95	ALTO	NM	88312
302158	KING, MARSHALL	PO BOX 2591	LAS CRUCES	NM	88004
1001660	KINGSLEY, CAROL	1524 SMALLWOOD CRL	CLEARWATER	FL	33755
1003034	KINGSLEY, LARRY	122 LEGACY LN	ALTO	NM	88312
270200	KOEHLER, ROBERT R	PO BOX 204	ALTO	NM	88312
1002029	LACY, RORY LYNN	2205 WYDEWOOD DR	MIDLAND	TX	79707
1002107	LACY, SHERI	2205 WYDEWOOD DR	MIDLAND	TX	79707
290450	LANDERS, MARK	6833 DEER RD	LUBBOCK	TX	79407
252950	LANMON, CYNTHIA A	PO BOX 1255	ALTO	NM	88312

252925	LANMON, CYNTHIA A	1485 HWY 183 N	LIBERTY HILL	TX	78642
272225	LEBLANC, RANDALL J	43277 E PLEASANT RIDGE RD	HAMMOND	LA	70403
285032	LEE REV TRUST	1513 S. ABILENE AVE	PORTALES	NM	88130
279435	LENZO, STEVEN J	3301 10TH ST.	ALAMOGORDO	NM	88310
1002481	LESTOURGEON, BART C	PO BOX 384	BOERNE	TX	78006
286325	LUCAS, DONNA	1731 W NIDO	MESA	AZ	85202
327875	LUJAN, RAMONA	146 PINE HILL TRL	ALTO	NM	88312
306317	MAGANA, JOSE PABLO	PO BOX 7141	RUIDOSO	NM	88345
273008	MARMOLEJO, CESAR	PO BOX 181	ALTO	NM	88312
1004138	MARTIN, JERRY W & ANNETTE R	625 E JIMENEZ ST	HOBBS	NM	88240
274400	MARTIN, MERRY L	1652 BILLY CASPER DR	EL PASO	TX	79936
1007155	MARTINEZ, SALVADOR	7133 N MESA ST APT 199	EL PASO	TX	79912
286450	MCADAM REVOCABLE LIVING TRUST	1536 S STATE ST, #173	HEMET	CA	92573
1007693	MCCLURE, TOM W	148 PINE HILL TRL	ALTO	NM	88312
308430	MCCORMICK, MARY JANE	10001 CHEROKEE RIDGE	HERMLEIGH	TX	79526
330950	MCCULLOUGH, JOHN L	123 PINE HILL TRL	ALTO	NM	88312
1002876	MCDONALD, JERRELL WAYNE	107 LEGACY LN	ALTO	NM	88312
1002442	MCGARVEY, JAMES H	149 LEGACY LN	ALTO	NM	88312
1002342	MCGUIRE, GEORGE	4120 RAVENWOOD PL NW	ALBUQUERQUE	NM	87107
1003435	MITCHELL RONALD L	2241 LOMA RICA CIR	PRESCOTT	AZ	86303
284650	NEWTON, BARNEY L	PO BOX 1127	ALTO	NM	88312
284725	OLIVER, LOIS	2410 W CERRO RD	ARTESIA	NM	88210
294135	OLVERA, FABIAN J	102 MCKENZIE	RUIDOSO	NM	88345
296050	OTEY, FRANK S III	133 DEER CREEK RD	RUIDOSO	NM	88345
300650	PARDUE LIVING TRUST	PO BOX 1007	ALTO	NM	88312
305400	PARRISH, ABBY L	116 MERRILL DR	CLOVIS	NM	88101
307885	PARSONS, RICHARD A JR	PO BOX 880	ALTO	NM	88312
308426	PEEBLES TRUST	10014 FLIGHT PLAN DR	GRANBURY	TX	76049
326800	PERRIN, TYLER R;	138 PINE HILL TRL	ALTO	NM	88312
255475	RADTKE, JENNA BETH	220 LINDELL AVENUE	AUSTIN	TX	78704
312425	RASMUS, REX B	3302 ONION HOLLOW COVE	AUSTIN	TX	78739
1006492	REED, ROBERT F; TRUSTEE	108 WALKABOUT LOOP	RUIDOSO	NM	88345

300255	REEVES, RANDY J	216 N MAIN	ROSWELL	NM	88201
324730	RENNIE, ALISA M	PO BOX 1703 #174	RUIDOSO	NM	88345
294735	RIDENOUR, JANE	445 EAGLE DR	HOLLIDAY	TX	76366
291075	ROBINETT TRUST	7612 PLAINFIELD DR	HOBBS	NM	88242
314325	ROBLEDO FAMILY LIVING TRUST	16052 WALTZ CIRCLE	HUNTINGTON BEACH	CA	92649
327425	RODRIGUEZ, ROBERT	1010 JOY LANE	LAS CRUCES	NM	88001
316525	SANCHEZ, CANDELARIA O	1014 E CALIFORNIA AVE	LAS CRUCES	NM	88001
321786	SCRIPTER, LARRY L	PO BOX 366	BELEN	NM	87002
305751	SIMPSON, ROBERT	470 ENCHANTED FOREST LP	ALTO	NM	88312
279366	SLATEN, DONNA J	PO BOX 1843	ALTO	NM	88312
283856	SODEN, JOHN T	1086 STATE HWY 48	ALTO	NM	88312
1002341	SOUTHERN NM FLOORING OUTLETS, LLC	7100 JUSTIN LN	LAS CRUCES	NM	88007
300150	STAMBAUGH, MARK	130 HIGH SIERRA CT	ALTO	NM	88312
254915	SUNSET CHURCH OF CHRIST, INC	1308 W BLODGETT	CARLSBAD	NM	88220
305165	TEXAS BAY ISLAND INVEST, INC	2251 DRUSILLA LN STE. B	BATON ROUGE	LA	70809
313150	TOMISON, MANDA D	PO BOX 812	ALTO	NM	88312
1008089	TOMLINSON, GLEN	174 KING ROAD UNIT 4305	RUIDOSO	NM	88345
1002708	TRUE, JEFFREY D	113 LEGACY LANE	ALTO	NM	88312
298550	URBAN, DANIEL R	PO BOX 105	ALTO	NM	88312
257775	URIAS, ORLANDO	12724 TIERRA AURORA DR	EL PASO	TX	79938
288432	VASQUEZ, DAVID J	PO BOX 1498	RUIDOSO	NM	88355
264625	VICKERS, ROBERT T	PO BOX 1573	ALTO	NM	88312
1004137	WADE, DARRELL L	5 LA VILLITA CIRCLE NE	ALBUQUERQUE	NM	87112
1002898	WAGNER, GLENN	321 HEATH DR	RUIDOSO	NM	88345
328750	WETZEL, CLINTON L	PO BOX 1391	RUIDOSO DOWNS	NM	88346
1006323	WILLARD, CODY L	159 SILVER FOX LN	ALTO	NM	88312
307860	WILLIAMS, KAREN L	PO BOX 1000	RUIDOSO	NM	88355
300050	WILLIS, LARRY	101 HIGH SIERRA CT	ALTO	NM	88312

NOTICE

Roper Construction, Inc. announces its application to the New Mexico Environment Department for a new air quality permit for the construction of a concrete batch plant. The expected date of application submittal to the Air Quality Bureau is June 4, 2021.

Roper Construction's Alto CBP is located off Highway 220, near Alto, north of Ruidoso in Lincoln County, New Mexico. The exact location of the facility will be UTM Zone 13, UTM Easting 438,235, UTM Northing 3,697,950, NAD 83. The approximate location of this site is 0.35 miles east of the intersection of Highways 48 and 220 north of Ruidoso, NM in Lincoln County.

The proposed construction consists of a 125 cubic yard per hour concrete batch plant to produce concrete for construction projects.

The estimated maximum quantities of any regulated air contaminants will be as follows in pound per hour (pph) and tons per year (tpy). These reported emissions could change slightly during the course of the Department's review:

Pollutant:	**Pounds per hour**	**Tons per year**
PM_{10}	3.50 pph	5.72 tpy
$PM_{2.5}$	1.26 pph	1.95 tpy
Sulfur Dioxide (SO_2)	0.00068 pph	0.0030 tpy
Nitrogen Oxides (NO_x)	0.063 pph	0.28 tpy
Carbon Monoxide (CO)	0.053 pph	0.23 tpy
Volatile Organic Compounds (VOC)	0.0070 pph	0.031 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	0.0012 pph	0.0052 tpy
Toxic Air Pollutant (TAP)	<0.0001 pph	<0.0001 tpy
Green House Gas Emissions as Total CO_2e	n/a	< 10,000 tpy

The standard operating schedule of the facility will be from 7 a.m. to 5 p.m. for the months of November through February, and from 5 a.m. to 5 p.m. for the months of March through October, 6 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be 11 hours per day from 7 a.m. to 6 p.m. for the months of November through February, 14 hours per day from 5 a.m. to 7 p.m. for the months of March and November, 17 hours per day from 4 a.m. to 9 p.m. for the months of April and October, and 18 hours per day from 3 a.m. to 9 p.m. in the months of May through August, 7 days a week and a maximum of 52 weeks per year.

The owner and operator of the Facility will be:

Roper Construction, Inc.
P.O. Box 969
Alto, NM 88312

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

With your comments, please refer to the company name and facility name, or send a copy of this notice along with your comments. This information is necessary since the Department may have not yet received the permit application. Please include a legible return mailing address. Once the Department has completed its preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

Attención

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, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at https://www.env.nm.gov/NMED/EJ/index.html to learn how and where to file a complaint of discrimination.

General Posting of Notices – Certification

I, ___________Ryan Roper___________, the undersigned, certify that on **05.26.2021,** posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the Alto, Ruidoso, and Capitan of Lincoln County, State of New Mexico on the following dates:

1. Roper Construction's Alto CBP Facility Entrance – 05.26.2021
2. Alto Post Office; 100 Sun Valley Rd; Alto, NM 88312 – 05.26.2021
3. Ruidoso Post Office; 1090 Mechem Dr; Ruidoso, NM 88345 – 05.26.2021
4. Capitan Post Office; 226 E Smokey Bear Blvd; Capitan, NM 88316 – 05.26.2021

Signed this ___26__ day of __May______________, ___2021___,

____
Signature

_____05.26.2021__________
Date

_Ryan Roper____
Printed Name

_President, Roper Construction, Inc.____________________________
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}


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The proposed construction consists of a 125 cubic yard per hour concrete batch plant to produce concrete for
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The estimated maximum quantities of any regulated air contaminants will be as follows in pound per hour (pph) and
tons per year (tpy). These reported emissions could change slightly during the course of the Department's review:
Pollutant: Pounds per hour Tons per year
PM 10 3.50 pph 5.72 tpy
PM 2.5 1.26 pph 1.95 tpy
Sulfur Dioxide (SO2) 0.00068 pph 0.0030 tpy
Nitrogen Oxides (NOx) 0.063 pph 0.28 tpy
Carbon Monoxide (CO) 0.053 pph 0.23 tpy
Volatile Organic Compounds (VOC) 0.0070 pph 0.031 tpy
Total sum of all Hazardous Air Pollutants (HAPs) 0.0012 pph 0.0052 tpy
Toxic Air Pollutant (TAP) <0.0001 pph <0.0001 tpy
Green House Gas Emissions as Total CO2e n/a < 10,000 tpy
The standard operating schedule of the facility will be from 7 a.m. to 5 p.m. for the months of November through
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November through February, 14 hours per day from 5 a.m. to 7 p.m. for the months of March and November, 17 hours
per day from 4 a.m. to 9 p.m. for the months of April and October, and 18 hours per day from 3 a.m. to 9 p.m. in the
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476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be
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Gail Skeen, Postmaster Capitan
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(Where cafeteria is)
Claire
Tuesday-Friday
8:30am–2:30pm
505-265-1711 ext 2309
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2021
KID'S SUMMER READING PROGRAM
(JUNE 7 – JULY 16)
COME SIGN UP AT THE LIBRARY
MON. - SAT. 10AM-2PM
101 E. 2ND ST.
CAPITAN, NM
575-354-3035
ARE YOU A SENIOR 60+ IN NEED OF UTILITY ASSISTANCE?
NOTICE
Capitan Wednesday Poly Carts will be picked up on Tuesday, May 25, 2021
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THANK YOU FOR YOUR COOPERATION
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Chickens for Sale
8 WKO Baby Bunnies for adoption!
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Thank you!
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SMOKEY BEAR INDEPENDENCE DAY PARADE
Life, Liberty, & the Pursuit of Happiness
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June 4, 2021

Whitney Whittaker
Lincoln County Clerk
PO Box 338
Carrizozo NM 88301

Ms Whittaker

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Sincerely,

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Roper Construction - Government Entities within 10 Miles
May 2021

Lincoln County	Whitney Whittaker, County Clerk	PO Box 338	Carrizozo	NM	88301
Village of Ruidoso	Ron Sena, Village Clerk	313 Cree Meadows Dr.	Ruidoso	NM	88345
City of Ruidoso Downs	Ally Giron, City Clerk	123 Downs Drive	Ruidoso Downs	NM	88346
Village of Capitan	Stephanie Bason, Village Clerk	PO Box 1380	Capitan	NM	88316
Mescalero Apache Tribe	To Whom it May Concern	PO Box 227	Mescalero	NM	88340

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Sent To: Lincoln County
Street and: Whitney Whittaker, County Clerk
PO Box 338
City, State: Carrizozo, NM 88301-0338

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
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Sent To: Village of Ruidoso
Street and: Ron Sena, Village Clerk
313 Cree Meadows Dr.
City, State: Ruidoso, NM 88345-6939

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
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Sent To: City of Ruidoso Downs
Street a: Ally Giron, City Clerk
123 Downs Drive
City, Sta: Ruidoso Downs, NM 88346-9479

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Sent To: Village of Capitan
Street ar: Stephanie Bason, Village Clerk
PO Box 1380
City, Sta: Capitan, NM 88316-1380

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Sent T: Mescalero Apache Tribe
Street: PO Box 227
City, S: Mescalero, NM 88340-0227

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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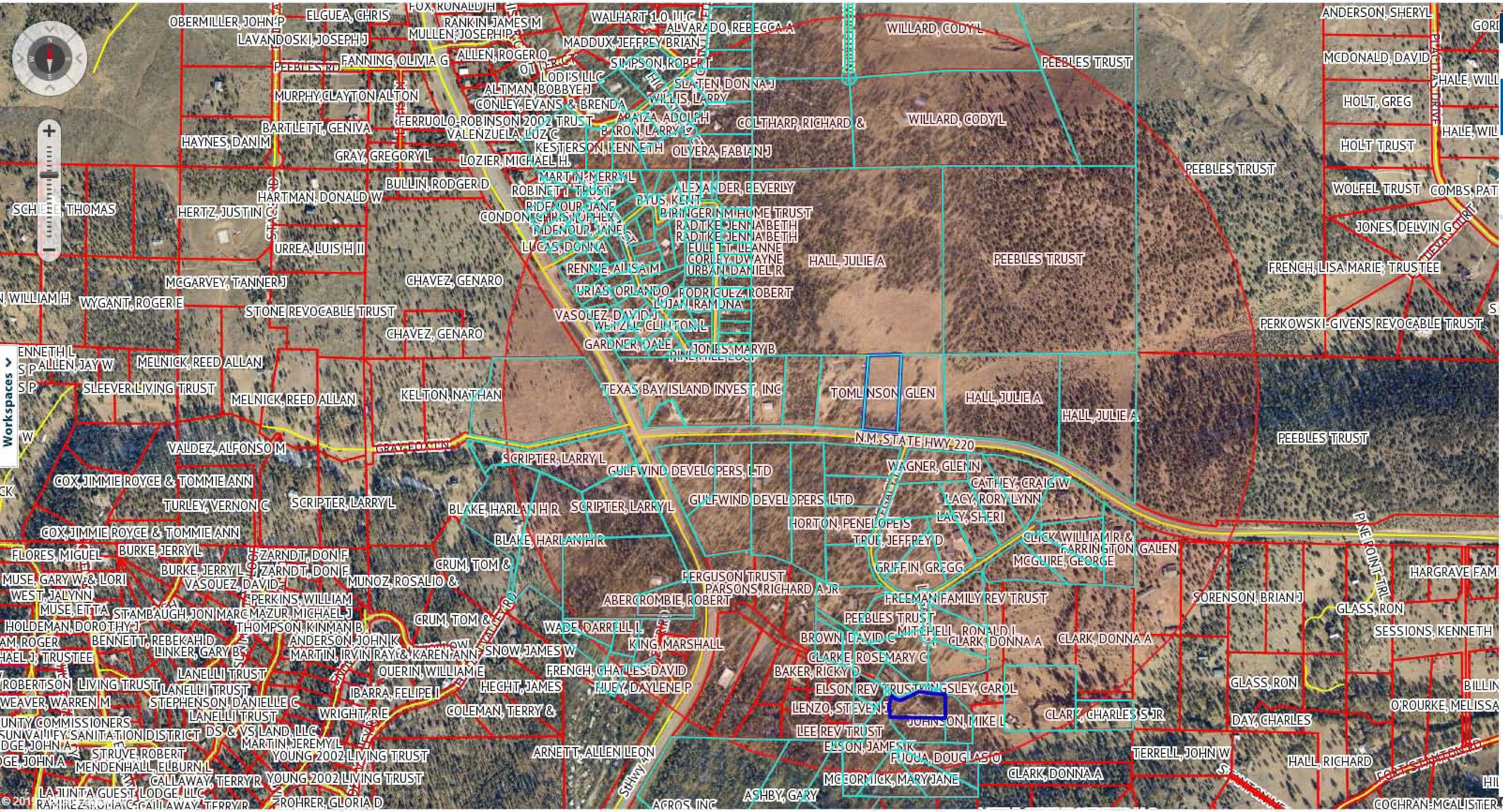

Identify

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Buffer 0.5 Miles

Layers: All Layers (10)

Results by layer Options

- LOTS_ (168)
- SUBDIVISION (8)
- ADDRESS_POINTS (99)
- SECTION (4)
- TOWNSHIP (1)
- ROAD_CENTERLINES (13)
- PARCELS_ (194)

- name: P-3
- name: TR. 3
- name: TR. 22
- name: TR. 2
- name: 4
- name: 22
- name: 23
- name: 31
- name: 28B
- name: 22

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map: Auto (Mosaic) Dates: All 11/02/2019 - 01/01/2020

OWNER #	OWNER NAME		MAILING ADDRESS	MAILING ADDRESS	CITY	STATE	ZIP
1003688	COLTHARP, RICHARD	LINDA		1210 RED WING DR	FRIENDSWOOD	TX	77546
302155	HARDIN-SIMMONS UNIVERSITY			PO BOX 16005	ABILENE	TX	79698
281700	DOOLEY, BOYD R & ROBIN M	TUCKER, RICHARD		PO BOX 2483	RUIDOSO	NM	88355
305750	SIMPSON, ROBERT			470 ENCHANTED FOREST LP	ALTO	NM	88312
278910	COOLEY, BOBBY W JR	URSULA		110 CORNUDAS TRAIL	RUIDOSO	NM	88345
254920	SUNSET CHURCH OF CHRIST, INC			1308 W BLODGETT	CARLSBAD	NM	88220
303370	FLYING J RANCH, INC			PO BOX 2505	RUIDOSO	NM	88355
313150	TOMISON, MANDA D			PO BOX 812	ALTO	NM	88312
313175	CONNER, GREG	CONNER, GARY		116 PINE KNOT TRL	ALTO	NM	88312
321788	SCRIPTER, LARRY L	JOYCE MAXINE		PO BOX 366	BELEN	NM	87002
287770	OTEY, FRANK S III	NANCY A		133 DEER CREEK RD	RUIDOSO	NM	88345
324301	CHAVEZ, GENARO	GABRIELA U		12051 PASEO SOLO LANE	EL PASO	TX	79936
290450	LANDERS, MARK	MICHELE		6833 DEER RD	LUBBOCK	TX	79407
308426	PEEBLES TRUST	JIM W & ROSEMARY B, TRUSTEES		10014 FLIGHT PLAN DR	GRANBURY	TX	76049
324375	ALVARADO, REBECCA A			7713 RANCHWOOD DR NW	ALBUQUERQUE	NM	87120
308426	PEEBLES TRUST	JIM W & ROSEMARY B, TRUSTEES		10014 FLIGHT PLAN DR	GRANBURY	TX	76049
1005545	COLTHARP, RICHARD &	LINDA		1210 RED WING DR	FRIENDSWOOD	TX	77546
264625	VICKERS, ROBERT T	CAROLYN G		PO BOX 1573	ALTO	NM	88312
300050	WILLIS, LARRY			101 HIGH SIERRA CT	ALTO	NM	88312
255755	SLATEN, DONNA J			PO BOX 1843	ALTO	NM	88312
279366	SLATEN, DONNA J			PO BOX 1843	ALTO	NM	88312
294605	COBB, JOHN M	ELIZABETH A		6202 CR 1440	LUBBOCK	TX	79407
311825	KESTERSON, KENNETH			PO BOX 95	ALTO	NM	88312
281725	BARON, LARRY L			PO BOX 1803	ALTO	NM	88312
281750	ARAIZA, ADOLPH	BETTY H		808 MEADOR DR	LAS CRUCES	NM	88007
305751	SIMPSON, ROBERT			470 ENCHANTED FOREST LP	ALTO	NM	88312
1007200	HALL, JULIE A			40 ROY TUCKER LANE	TULAROSA	NM	88352
326825	PERRIN, TYLER R;	RUSSELL K; TERRY L; TANNER A		138 PINE HILL TRL	ALTO	NM	88312
326800	PERRIN, TYLER R;	RUSSELL K; TERRY L; TANNER A		138 PINE HILL TRL	ALTO	NM	88312
304950	HARMON, SUSAN M			110 PINE KNOT TRL	ALTO	NM	88312
314325	ROBLEDO FAMILY LIVING TRUST	ROBLEDO, ALBERTO/VIRGINIA,TRUSTEES		16052 WALTZ CIRCLE	HUNTINGTON BEACH	CA	92649
270200	KOEHLER, ROBERT R			PO BOX 204	ALTO	NM	88312
289800	JONES, MARY B			21530 FER LN	SONORA	CA	95370
284725	OLIVER, LOIS			2410 W CERRO RD	ARTESIA	NM	88210
286350	CHRISMAN, DAVID	JANA		142 PINE HILL TRAIL	ALTO	NM	88312
286000	PARDUE LIVING TRUST	PARDUE, PHYLLIS P, TRUSTEE		PO BOX 1007	ALTO	NM	88312
327425	RODRIGUEZ, ROBERT	DAISY		1010 JOY LANE	LAS CRUCES	NM	88001
285975	PARDUE LIVING TRUST	PARDUE, PHYLLIS P, TRUSTEE		PO BOX 1007	ALTO	NM	88312
285950	EINSEL, LEWIS D	EINSEL, DEBRA J		2554 SW SISKIN CIR	PORT ORCHARD	WA	98367
305400	PARRISH, ABBY L	MARY LYNN		116 MERRILL DR	CLOVIS	NM	88101
301325	BUDDE, XOCHITL	CHRISTIAN J		10317 BAYO AVE	EL PASO	TX	79925
255525	HAWKINS, ROBERT H	KATHLEEN A		115 PINE KNOT TRAIL	ALTO	NM	88312
264775	FRANCIS, PATRICK M & VIRGINIA U	DEWETTER, LISBETH		1694 CATESBY WAY	EL PASO	TX	79911
252950	LANMON, CYNTHIA A			PO BOX 1255	ALTO	NM	88312
252925	LANMON, CYNTHIA A			1485 HWY 183 N	LIBERTY HILL	TX	78642
275600	CHRISMAN, DAVID O	JANA L		142 PINE HILL TRAIL	ALTO	NM	88312
257805	CHARLSON, CODY L			PO BOX 851	RUIDOSO	NM	88355
275675	SODEN, JOHN T	HARKNESS-SODEN, SUZANNE P		1086 STATE HWY 48	ALTO	NM	88312
275675	SODEN, JOHN T	HARKNESS-SODEN, SUZANNE P		1086 STATE HWY 48	ALTO	NM	88312
283785	CARVER, KERRY			1080 STATE HWY 48	ALTO	NM	88312
291025	EAGLE POINT VENTURES, LLC	A NEW MEXICO LTD LIABILITY COMPANY		138 PINE HILL TRL	ALTO	NM	88312
316525	SANCHEZ, CANDELARIA O	C/O PEDRO M ROMERO		1014 E CALIFORNIA AVE	LAS CRUCES	NM	88001
286325	LUCAS, DONNA	C/O SIBALA, PHYLLIS		1731 W NIDO	MESA	AZ	85202
287770	OTEY, FRANK S III	NANCY A		133 DEER CREEK RD	RUIDOSO	NM	88345
283855	CERVANTES, REYNALDO	INFANTE, LAURA E	LOMA LINDA 315, FRACC, LOMA BLANCA	SALTILLO, COAH 25208			
257800	CARVER, KERRY			1080 STATE HWY 48	ALTO	NM	88312
298550	URBAN, DANIEL R			PO BOX 105	ALTO	NM	88312
321450	GUERRERO, ALFRED R	ELOISA		1420 WALDEN DR	LAS CRUCES	NM	88001
262375	GARDNER, DALE	PENNY		309 NORTH 4TH ST	WOLFFORTH	TX	79382
288432	VASQUEZ, DAVID J			PO BOX 1498	RUIDOSO	NM	88355
1007693	MCCLURE, TOM W	IVAN K		148 PINE HILL TRL	ALTO	NM	88312
327875	LUJAN, RAMONA			146 PINE HILL TRL	ALTO	NM	88312
257775	URIAS, ORLANDO	MARTHA		12724 TIERRA AURORA DR	EL PASO	TX	79938
305165	TEXAS BAY ISLAND INVEST, INC	A TX CORP		2251 DRUSILLA LN STE. B	BATON ROUGE	LA	70809
289930	CORLEY, DWAYNE			137 PINE HILL TRAIL	ALTO	NM	88312
283857	COUNTRY AFFLUENCE, LLC	A TEXAS LIMITED LIABILITY COMPANY		PO BOX 3000	BIG SPRING	TX	79721
304275	VASQUEZ, DAVID			PO BOX 1498	RUIDOSO	NM	88355
283856	SODEN, JOHN T	SUZANNE P HARKNESS		1086 STATE HWY 48	ALTO	NM	88312
254050	EULETT, LEANNE			135 PINEHILL RD	ALTO	NM	88312
328750	WETZEL, CLINTON L			PO BOX 1391	RUIDOSO DOWNS	NM	88346
324730	RENNIE, ALISA M			PO BOX 1703 #174	RUIDOSO	NM	88345
272225	LEBLANC, RANDALL J	JUSTINE S		43277 E PLEASANT RIDGE RD	HAMMOND	LA	70403

291075	ROBINETT TRUST	WILLIAM T & PAULINE, TRUSTEES		7612 PLAINFIELD DR	HOBBS	NM	88242
284025	DEATON INTERESTS, LLC			197 PARK PLACE CIR	CRESSON	TX	76035
294735	RIDENOUR, JANE	RIDENOUR, JAMES KENNETH		445 EAGLE DR	HOLLIDAY	TX	76366
296050	OTEY, FRANK S III	NANCY A		133 DEER CREEK RD	RUIDOSO	NM	88345
264575	ALTO NORTH WATER, COOPERATIVE			PO BOX 373	ALTO	NM	88312
316325	AYERS, DEAN	MEREDITH		PO BOX 7252	ODESSA	TX	79760
334975	COOLEY, BOBBY W JR	URSULA		110 CORNUDAS TRAIL	RUIDOSO	NM	88345
300650	PARDUE LIVING TRUST	PARDUE, PHYLLIS P, TRUSTEE		PO BOX 1007	ALTO	NM	88312
324950	BARBEE, DEBORAH			101 PINE KNOT TRL #9	ALTO	NM	88312
275050	DIANA LEE, LLC			2501 NASHVILLE AVE	EL PASO	TX	79930
294735	RIDENOUR, JANE	RIDENOUR, JAMES KENNETH		445 EAGLE DR	HOLLIDAY	TX	76366
286450	MCADAM REVOCABLE LIVING TRUST	MCADAM, MARLENE S, TRUSTEE		1536 S STATE ST, #173	HEMET	CA	92573
335114	GURROLA, HECTOR E			1421 TEMPLE HEIGHTS DR	OCEANSIDE	CA	92056
275800	RADTKE, JENNA BETH			220 LINDELL AVENUE	AUSTIN	TX	78704
284000	DEATON INTERESTS, LLC			197 PARK PLACE CIR	CRESSON	TX	76034
300150	STAMBAUGH, MARK	WEAVER, MARY R		130 HIGH SIERRA CT	ALTO	NM	88312
294135	OLVERA, FABIAN J			102 MCKENZIE	RUIDOSO	NM	88345
312425	RASMUS, REX B	VIRGINIA L		3302 ONION HOLLOW COVE	AUSTIN	TX	78739
284350	BYUS, KENT			7618 DIJON LAKE DR	CORPUS CHRISTI	TX	78413
330950	MCCULLOUGH, JOHN L	VALERIE M		123 PINE HILL TRL	ALTO	NM	88312
255475	RADTKE, JENNA BETH			220 LINDELL AVENUE	AUSTIN	TX	78704
1000204	ALEXANDER, BEVERLY			127 PINE HILL TRL BOX 12	ALTO	NM	88312
332875	BIRINGER NM HOME TRUST	BIRINGER, DONALD & JIMMIE,TRUSTEES		129 PINEHILL TRL	ALTO	NM	88312
284650	NEWTON, BARNEY L	SONYA		PO BOX 1127	ALTO	NM	88312
274400	MARTIN, MERRY L			1652 BILLY CASPER DR	EL PASO	TX	79936
294735	RIDENOUR, JANE	RIDENOUR, JAMES KENNETH		445 EAGLE DR	HOLLIDAY	TX	76366
332075	CONDON, CHRISTOPHER			PO BOX 1511	ALTO	NM	88312
266149	CLARK, CHARLES S JR			145 PEEBLES RANCH RD	ALTO	NM	88312
254921	SUNSET CHURCH OF CHRIST, INC			1308 W BLODGETT	CARLSBAD	NM	88220
1002442	MCGARVEY, JAMES H	SHELLEY L		149 LEGACY LN	ALTO	NM	88312
1002342	MCGUIRE, GEORGE	PHYLLIS		4120 RAVENWOOD PL NW	ALBUQUERQUE	NM	87107
1002028	CLICK, WILLIAM R &	L DIANNE		9848 DOS CERROS LOOP	BOERNE	TX	78006
1005960	FARRINGTON, GALEN	CHRISTINE		PO BOX 295	RUIDOSO	NM	88355
254915	SUNSET CHURCH OF CHRIST, INC			1308 W BLODGETT	CARLSBAD	NM	88220
271652	CLARK, DONNA A			145 PEEBLES RANCH RD	ALTO	NM	88312
266151	CLARK, DONNA A			145 PEEBLES RANCH RD	ALTO	NM	88312
1002341	SOUTHERN NM FLOORING OUTLETS, LLC			7100 JUSTIN LN	LAS CRUCES	NM	88007
1002029	LACY, RORY LYNN	JACQUELYN SHERI		2205 WYDEWOOD DR	MIDLAND	TX	79707
279230	BROWN, DAVID C	JANA F		6418 BASSWOOD LN	AMARILLO	TX	79124
291222	BROWN, DAVID C	JANA F		6418 BASSWOOD LN	AMARILLO	TX	79124
1002050	CATHEY, CRAIG W	YOUNT, BARBARA J		147 LEGACY LN	ALTO	NM	88312
277090	SCRIPTER, LARRY L	JOYCE MAXINE		PO BOX 366	BELEN	NM	87002
307885	PARSONS, RICHARD A JR	WENDY F		PO BOX 880	ALTO	NM	88312
305570	KING, MARSHALL			PO BOX 2591	LAS CRUCES	NM	88004
259300	KING, MARSHALL			PO BOX 2591	LAS CRUCES	NM	88004
1003299	HORTON, PENELOPE S			114 LEGACY LN	ALTO	NM	88312
1003006	FOSTER LIVING TRUST	FOSTER, TOM & MARY, TRUSTEES		700 SEATTLE SLEW AVE SE	ALBUQUERQUE	NM	87123
261200	ENCHANTED STAR HOMES, LLC	A NEW MEXICO LTD LIABILITY COMPANY		1451 MECHEM DR	RUIDOSO	NM	88345
1002877	GRIFFIN, GREGG	LAVONNE		132 MESCALERO TR	RUIDOSO	NM	88345
1002481	LESTOURGEON, BART C	LACRECIA C		PO BOX 384	BOERNE	TX	78006
1007303	ABERCROMBIE, ROBERT			PO BOX 14060	LAS CRUCES	NM	88013
1004138	MARTIN, JERRY W & ANNETTE R	VAUGHT, OLIN L, SR & ANNETTE L		625 E JIMENEZ ST	HOBBS	NM	88240
266153	CLARK, DONNA A			145 PEEBLES RANCH RD	ALTO	NM	88312
329032	BLAKE, HARLAN H R	MELANCON, MARY L		171 HIDDEN VALLEY RD	ALTO	NM	88312
321786	SCRIPTER, LARRY L	JOYCE MAXINE		PO BOX 366	BELEN	NM	87002
265138	BLAKE, HARLAN H R	MELANCON, MARY L		171 HIDDEN VALLEY RD	ALTO	NM	88312
306383	FLYING J RANCH, INC			PO BOX 2505	RUIDOSO	NM	88355
1004137	WADE, DARRELL L	TAMMY R		5 LA VILLITA CIRCLE NE	ALBUQUERQUE	NM	87112
1002107	LACY, SHERI	RORY		2205 WYDEWOOD DR	MIDLAND	TX	79707
1003435	MITCHELL RONALD L	KATHIE L		2241 LOMA RICA CIR	PRESCOTT	AZ	86303
1003034	KINGSLEY, LARRY	K'AUN		122 LEGACY LN	ALTO	NM	88312
307860	WILLIAMS, KAREN L	NEALE H		PO BOX 1000	RUIDOSO	NM	88355
1002480	FOSTER LIVING TRUST	FOSTER, TOM & MARY, TRUSTEES		700 SEATTLE SLEW AVE SE	ALBUQUERQUE	NM	87123
308425	PEEBLES TRUST	JIM W & ROSEMARY B, TRUSTEES		10014 FLIGHT PLAN DR	GRANBURY	TX	76049
1002898	WAGNER, GLENN			321 HEATH DR	RUIDOSO	NM	88345
1002876	MCDONALD, JERRELL WAYNE	KATHY LEE		107 LEGACY LN	ALTO	NM	88312
305975	ACROS, INC			7101 NORTH MESA STREET	EL PASO	TX	79912
320815	HOBBS, JAMES R	CYNTHIA S		PO BOX 2505	RUIDOSO	NM	88355
314695	ASHBY, GARY	MCMILLIAN, TOMMY		8506 OXFORD AVE	LUBBOCK	TX	79423
300255	REEVES, RANDY J	ELSIE E		216 N MAIN	ROSWELL	NM	88201
334960	FRENCH ENTERPRISES, LLC	NEW MEXICO LIMITED LIABILITY CO		PO BOX 1555	ALTO	NM	88312
1004136	FRENCH, CHARLES DAVID	SALVY MILITANTE		PO BOX 1555	ALTO	NM	88312
258201	FLYING J RANCH, INC			PO BOX 2505	RUIDOSO	NM	88355

302158	KING, MARSHALL			PO BOX 2591	LAS CRUCES	NM	88004
287176	HUEY, DAYLENE P			PO BOX 856	ALTO	NM	88312
310861	FUQUA, DOUGLAS O	REJEANA S		PO BOX 1402	ALTO	NM	88312
273008	MARMOLEJO, CESAR	SULEMA		PO BOX 181	ALTO	NM	88312
261035	COON, TROY L	RUBY F		1717 PONTIAC AVE	LUBBOCK	TX	79416
307180	BAKER, RICKY D			PO BOX 1501	ALTO	NM	88312
323285	DESALVO, KURT JOHN	JENNY SUE		111 HONEYDEW LN	ALTO	NM	88312
1003007	HARLOW, JAMES P	LISA M		901 CR 279	LIBERTY HILL	TX	79934
289710	HADDAD, RICHARD J			3925 SOUTH JONES BLVD UNIT 1075	LAS VEGAS	NV	89103
308451	JOHNSON, MIKE L	JAMI L		8200 N PRESCOTT RIDGE RD	PRESCOTT VALLEY	AZ	86315
308427	FUQUA, DOUGLAS O	REJEANA S		PO BOX 1402	ALTO	NM	88312
1006176	HARLOW, JAMES P	LISA M		901 COUNTY ROAD 279	LIBERTY HILL	TX	78642
1000435	ELSON, JAMES K	ROBERTA C		PO BOX 1841	ALTO	NM	88312
279436	LENZO, STEVEN J			3301 10TH ST.	ALAMOGORDO	NM	88310
1004625	BERMAN, SARI L			PO BOX 207	ALTO	NM	88312
306317	MAGANA, JOSE PABLO	VASQUEZ, NALLELI		PO BOX 7141	RUIDOSO	NM	88345
1001660	KINGSLEY, CAROL			1524 SMALLWOOD CRL	CLEARWATER	FL	33755
318936	ELSON REV TRUST	ELSON, JAMES K & ROBERTA C		PO BOX 1841	ALTO	NM	88312
318935	MARMOLEJO, SULEMA			PO BOX 181	ALTO	NM	88312
308430	MCCORMICK, MARY JANE	MATT ELLIS;CERDA, MEGAN LEEANN		10001 CHEROKEE RIDGE	HERMLEIGH	TX	79526
308310	GARCIA, PAUL			107 HONEYDEW DR	ALTO	NM	88312
325480	CLARKE, ROSEMARY C			10229 AGGIE CIR	EL PASO	TX	79924
275958	LEE REV TRUST	LEE, SEAGO D, TRUSTEE		1513 S ABILENE AVE	PORTALES	NM	88130
1007155	MARTINEZ, SALVADOR	LEONOR C		7133 N MESA ST APT 199	EL PASO	TX	79912
1007154	REED, ROBERT F; TRUSTEE	BRAMBLETT, ELLEN F; TRUSTEE	FRANK REED & ELLEN BRAMBLETT TRUST	108 WALKABOUT LOOP	RUIDOSO	NM	88345
285032	LEE REV TRUST	LEE, SEAGO D, TRUSTEE		1513 S. ABILENE AVE	PORTALES	NM	88130
279435	LENZO, STEVEN J			3301 10TH ST.	ALAMOGORDO	NM	88310
1006323	WILLARD, CODY L	LORI GIBSON		159 SILVER FOX LN	ALTO	NM	88312
308426	PEEBLES TRUST	JIM W & ROSEMARY B, TRUSTEES		10014 FLIGHT PLAN DR	GRANBURY	TX	76049
308426	PEEBLES TRUST	JIM W & ROSEMARY B, TRUSTEES		10014 FLIGHT PLAN DR	GRANBURY	TX	76049
1006323	WILLARD, CODY L	LORI GIBSON		159 SILVER FOX LN	ALTO	NM	88312
1002708	TRUE, JEFFREY D	KAREN A		113 LEGACY LANE	ALTO	NM	88312
1002111	GRIFFIN, GREGG	LAVONNE L		123 MESCALERO TRAIL	RUIDOSO	NM	88345
1001932	FREEMAN FAMILY REV TRUST	FREEMAN, JIMMY R & NANCY J		PO BOX 567	EDGEWATER	FL	32132
1007200	HALL, JULIE A			40 ROY TUCKER LANE	TULAROSA	NM	88352
1007200	HALL, JULIE A			40 ROY TUCKER LANE	TULAROSA	NM	88352
1006492	REED, ROBERT F; TRUSTEE	BRAMBLETT, ELLEN F; TRUSTEE	FRANK REED & ELLEN BRAMBLETT TRUST	108 WALKABOUT LOOP	RUIDOSO	NM	88345
307890	FERGUSON TRUST	FERGUSON, KAREN TRUSTEE		PO BOX 2286	PAHRUMP	NV	89041
305175	GULFWIND DEVELOPERS, LTD			120 GULFWIND DR	PORT ARANSAS	TX	78373
305175	GULFWIND DEVELOPERS, LTD			120 GULFWIND DR	PORT ARANSAS	TX	78373
305175	GULFWIND DEVELOPERS, LTD			120 GULFWIND DR	PORT ARANSAS	TX	78373
305175	GULFWIND DEVELOPERS, LTD			120 GULFWIND DR	PORT ARANSAS	TX	78373
1007153	BOTKIN, JOSHUA C	SARAH L		PO BOX 444	ALTO	NM	88312
1008089	TOMLINSON, GLEN	NIKKI		174 KING ROAD UNIT 4305	RUIDOSO	NM	88345

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- ☐ Return Receipt (electronic) $
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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Sent To ACROS, INC
Street and Apt 7101 NORTH MESA STREET
City, State, ZIP EL PASO, TX 79912-3613

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City, Sta ALTO, NM 88312-9582

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

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Street a PO BOX 373
City, St ALTO, NM 88312-0373

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1206

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- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

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Sent To ALVARADO, REBECCA A
Street and 7713 RANCHWOOD DR NW
City, State, ALBUQUERQUE, NM 87120-4027

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1213

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here JUN -7 2021

Sent To ARAIZA, ADOLPH
Street a 808 MEADOR DR
City, Sta LAS CRUCES, NM 88007-6162

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1220

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN - 7 2021 USPS

Sent To: ASHBY, GARY
Street and: 8506 OXFORD AVE
City, State: LUBBOCK, TX 79423-1922

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1237

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- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN - 7 2021 USPS

Sent To: AYERS, DEAN
Street: PO BOX 7252
City, State: ODESSA, TX 79760-7252

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1244

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Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN - 7 2021 USPS

Sent To: BAKER, RICKY D
Street and: PO BOX 1501
City, State: ALTO, NM 88312-1501

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1251

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Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN - 7 2021 USPS

Sent: BARBEE, DEBORAH
Street: 101 PINE KNOT TRL #9
City: ALTO, NM 88312-9581

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1268

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Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN - 7 2021

Sent: BARON, LARRY L
Street: PO BOX 1803
City: ALTO, NM 88312-1803

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1275

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Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN - 7 2021 USPS

Sent: BERMAN, SARI L
Street: PO BOX 207
City: ALTO, NM 88312-0207

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 87110-3801 USPS JUN -7 2021

Sent To: BIRINGER NM HOME TRUST
Street: 129 PINEHILL TRL
City, State: ALTO, NM 88312-9582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1299

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Certified Mail Fee $ 3.60

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM JUN -7 2021

Sent To: BLAKE, HARLAN H R
Street: 171 HIDDEN VALLEY RD
City, State: ALTO, NM 88312-9415

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1305

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 87110-3801 USPS JUN -7 2021

Sent To: BOTKIN, JOSHUA C
Street: PO BOX 444
City, State: ALTO, NM 88312-0444

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1312

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM USPS JUN -7 2021

Sent To: BROWN, DAVID C
Street: 6418 BASSWOOD LN
City, State: AMARILLO, TX 79124-3905

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1329

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Certified Mail Fee $ 3.60

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 87110-3801 USPS JUN -7 2021

Sent To: BUDDE, XOCHITL
Street and: 10317 BAYO AVE
City, State: EL PASO, TX 79925-4349

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1336

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE JUN -7 2021

Sent To: BYUS, KENT
Street and: 7618 DIJON LAKE DR
City, State: CORPUS CHRISTI, TX 78413-5245

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1343

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here JUN - 7 2021 USPS
Sent To CARVER, KERRY
Street a 1080 STATE HWY 48
City, St ALTO, NM 88312-9583

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1350

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here JUN - 7 2021 USPS
Sent To CATHEY, CRAIG W
Street and 147 LEGACY LN
City, State, ALTO, NM 88312-9531

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1367

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here JUN - 7 2021 USPS
Sent T CHARLSON, CODY L
Street PO BOX 851
City, S RUIDOSO, NM 88355-0851

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1374

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here JUN - 7 2021
Sent To CHAVEZ, GENARO
Street and 12051 PASEO SOLO LANE
City, State, EL PASO, TX 79936-4498

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1381

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here JUN - 7 2021
Sent To CHRISMAN, DAVID O
Street an 142 PINE HILL TRAIL
City, Stat ALTO, NM 88312-9582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1398

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Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here JUN - 7 2021 USPS
Sent To CLARK, CHARLES S JR
Street an 145 PEEBLES RANCH RD
City, Stat ALTO, NM 88312-9404

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1404

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here JUN - 7 2021

Sent To CLARK, DONNA A
Street and 145 PEEBLES RANCH RD
City, State ALTO, NM 88312-9404

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1411

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here JUN - 7 2021

Sent To CLARKE, ROSEMARY C
Street and 10229 AGGIE CIR
City, State EL PASO, TX 79924-2924

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1428

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here JUN - 7 2021

Sent To CLICK, WILLIAM R &
Street and 9848 DOS CERROS LOOP
City, State BOERNE, TX 78006-5100

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1435

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Extra Services & Fees *(check box, add fee as appropriate)*
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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here JUN - 7 2021

Sent To COBB, JOHN M
Street and 6202 COUNTY ROAD 1440
City, State LUBBOCK, TX 79407-1102

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1442

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Certified Mail Fee $ 3.60

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here JUN - 7 2021

Sent To COLTHARP, RICHARD &
Street and 1210 RED WING DR
City, State FRIENDSWOOD, TX 77546-5888

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1459

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Certified Mail Fee $ 3.60

Extra Services & Fees *(check box, add fee as appropriate)*
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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here JUN - 7 2021

Sent To CONDON, CHRISTOPHER
Street and PO BOX 1511
City, State ALTO, NM 88312-1511

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1466

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 87 JUN -7 2021 USPS

Sent To: CONNER, GREG
Street and: 116 PINE KNOT TRL
City, State: ALTO, NM 88312-9581

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1473

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN -7 2021

Sent To: COOLEY, BOBBY W JR
Street and: 110 CORNUDAS TRAIL
City, State: RUIDOSO, NM 88345

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1480

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN -7 2021

Sent To: COON, TROY L
Street and: 1717 PONTIAC AVE
City, State: LUBBOCK, TX 79416-6911

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1497

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN -7 2021

Sent To: CORLEY, DWAYNE
Street and Apt.: 137 PINE HILL TRAIL
City, State, ZIP: ALTO, NM 88312-9582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1503

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN -7 2021

Sent To: COUNTRY AFFLUENCE, LLC
Street and: PO BOX 3000
City, State: BIG SPRING, TX 79721-3000

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1510

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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN -7 2021

Sent To: DEATON INTERESTS, LLC
Street and: 197 PARK PLACE CIR
City, State: CRESSON, TX 76034-5851

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1527

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To: DESALVO, KURT JOHN
Street and: 111 HONEYDEW LN
City, State: ALTO, NM 88312-9634

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1534

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Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To: DIANA LEE, LLC
Street and: 2501 NASHVILLE AVE
City, State: EL PASO, TX 79930-1921

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1541

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☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To: DOOLEY, BOYD R & ROBIN M
Street and: PO BOX 2483
City, State: RUIDOSO, NM 88355-2483

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1558

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☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To: EAGLE POINT VENTURES, LLC
Street and: 138 PINE HILL TRL
City, State: ALTO, NM 88312-9582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To: EINSEL, LEWIS D
Street and: 2554 SW SISKIN CIR
City, State: PORT ORCHARD, WA 98367-6211

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1572

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☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To: ELSON REV TRUST
Street and: PO BOX 1841
City, State: ALTO, NM 88312-1841

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1589

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☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: ELSON, JAMES K
Street and Apt. No.: PO BOX 1841
City, State: ALTO, NM 88312-1841

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1596

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Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: ENCHANTED STAR HOMES, LLC
Street and Apt. No.: 1451 MECHEM DR
City, State: RUIDOSO, NM 88345-7137

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1602

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☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: EULETT, LEANNE
Street and Apt. No.: 135 PINEHILL RD
City, State: ALTO, NM 88312-9582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1619

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Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: FARRINGTON, GALEN
Street and Apt. No.: PO BOX 295
City, State: RUIDOSO, NM 88355-0295

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1626

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Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: FERGUSON TRUST
Street and Apt. No.: PO BOX 2286
City, State: PAHRUMP, NV 89041-2286

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1633

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Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: FLYING J RANCH, INC
Street and Apt. No.: PO BOX 2505
City, State: RUIDOSO, NM 88355-2505

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1640

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN -7 2021

Sent To: FOSTER LIVING TRUST
Street and Apt. No.: 700 SEATTLE SLEW AVE SE
City, State, ZIP+4: ALBUQUERQUE, NM 87123-2614

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1657

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN -7 2021

Sent To: FRANCIS, PATRICK M & VIRGINIA U
Street and Apt. No.: 1694 CATESBY WAY
City, State, ZIP+4: EL PASO, TX 79911-3038

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1664

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN -7 2021

Sent To: FREEMAN FAMILY REV TRUST
Street and Apt. No.: PO BOX 567
City, State, ZIP+4: EDGEWATER, FL 32132-0567

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1671

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN -7 2021

Sent To: FRENCH ENTERPRISES, LLC
Street and Apt. No.: PO BOX 1555
City, State, ZIP+4: ALTO, NM 88312-1555

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1688

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 87 JUN -7 2021

Sent To: FRENCH, CHARLES DAVID
Street and Apt. No.: PO BOX 1555
City, State, ZIP+4: ALTO, NM 88312-1555

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1695

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

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Sent To: FUQUA, DOUGLAS O
Street and Apt. No.: PO BOX 1402
City, State, ZIP+4: ALTO, NM 88312-1402

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1701

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here JUN 7 2021

Sent To GARCIA, PAUL
Street and A 107 HONEYDEW DR
City, State, ALTO, NM 88312-9634

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1718

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Extra Services & Fees (check box, add fee as appropriate)
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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

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Sent To GARDNER, DALE
Street a 309 NORTH 4TH ST
City, St WOLFFORTH, TX 79382-3377

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1725

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

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Sent To GRIFFIN, GREGG
Street and Ap 132 MESCALERO TR
City, State, Z RUIDOSO, NM 88345-6091

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1732

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here JUN -7 2021

Sent To GRIFFIN, GREGG
Street an 123 MESCALERO TRAIL
City, Stat RUIDOSO, NM 88345-6091

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1749

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- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here JUN -7 2021

Sent To GUERRERO, ALFRED R
Street ar 1420 WALDEN DR
City, Sta LAS CRUCES, NM 88001-4367

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1756

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- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here JUN -7 2021

Sent To GULFWIND DEVELOPERS, LTD
Street and A 120 GULFWIND DR
City, State, PORT ARANSAS, TX 78373-4955

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1763

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 87110-9507 JUN - 7 2021 USPS

Sent To: GURROLA, HECTOR E
Street and Apt.: 1421 TEMPLE HEIGHTS DR
City, State, ZIP+4: OCEANSIDE, CA 92056-3006

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1770

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: HADDAD, RICHARD J
Street and Apt.: 3925 SOUTH JONES BLVD UNIT 1075
City, State, ZIP: LAS VEGAS, NV 89103-7105

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1787

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: HALL, JULIE A
Street and Apt.: 40 ROY TUCKER LANE
City, State: TULAROSA, NM 88352-9500

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1794

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: HARDIN-SIMMONS UNIVERSITY
Street and Apt.: PO BOX 16005
City, State: ABILENE, TX 79698-0001

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1800

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: HARLOW, JAMES P
Street and Apt.: 901 COUNTY ROAD 279
City, State, ZIP: LIBERTY HILL, TX 78642-4249

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1817

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: HARMON, SUSAN M
Street and Apt.: 110 PINE KNOT TRL
City, State: ALTO, NM 88312-9581

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1824

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Certified Mail Fee $ 3.60

Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: HAWKINS, ROBERT H
Street and: 115 PINE KNOT TRAIL
City, State: ALTO, NM 88312-9581

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1831

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Certified Mail Fee $ 3.60

Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: HOBBS, JAMES R
Street and: PO BOX 2505
City, State: RUIDOSO, NM 88355-2505

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1848

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Certified Mail Fee $ 3.60

Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: HORTON, PENELOPE S
Street and: 114 LEGACY LN
City, State: ALTO, NM 88312-9531

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1855

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Certified Mail Fee $ 3.60

Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: HUEY, DAYLENE P
Street and: PO BOX 856
City, State: ALTO, NM 88312-0856

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1862

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Certified Mail Fee $ 3.60

Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent: JOHNSON, MIKE L
Stree: 8200 N PRESCOTT RIDGE RD
City: PRESCOTT VALLEY, AZ 86315-9650

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1893

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Certified Mail Fee $ 3.60

Extra Services & Fees (*check box, add fee as appropriate*)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here — JUN -7 2021

Sent To: JONES, MARY B
Street and: 21530 FERN LN
City, State: SONORA, CA 95370-9130

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 87110-9998 JUN - 7 2021

Sent To: KESTERSON, KENNETH
Street and Apt. No.: PO BOX 95
City, State: ALTO, NM 88312-0095

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: KING, MARSHALL
Street and Apt. No.: PO BOX 2591
City, State: LAS CRUCES, NM 88004-2591

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: KINGSLEY, CAROL
Street and Apt. No.: 1524 SMALLWOOD CIR
City, State: CLEARWATER, FL 33755-5449

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: KINGSLEY, LARRY
Street and Apt. No.: 122 LEGACY LN
City, State: ALTO, NM 88312-9531

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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7020 1290 0001 8791 1923

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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN 7 2021

Sent To: KOEHLER, ROBERT R
Street and Apt. No.: PO BOX 204
City, State, ZIP+4®: ALTO, NM 88312-0204

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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7020 1290 0001 8791 1930

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: LACY, RORY LYNN
Street and Apt. No.: 2205 WYDEWOOD DR
City, State: MIDLAND, TX 79707-6223

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 1947

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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
ALBUQUERQUE, NM 87110 USPS
JUN - 7 2021

Sent To LACY, SHERI
Street and 2205 WYDEWOOD DR
City, State MIDLAND, TX 79707-6223

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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7020 1290 0001 8791 1954

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To LANDERS, MARK
Street an 6833 DEER RD
City, Stat LUBBOCK, TX 79407-8037

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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7020 1290 0001 8791 1961

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Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To LANMON, CYNTHIA A
Street PO BOX 1255
City, St ALTO, NM 88312-1255

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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7020 1290 0001 8791 1978

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Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To LANMON, CYNTHIA A
Street 1485 HWY 183 N
City, St LIBERTY HILL, TX 78642

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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7020 1290 0001 8791 1985

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Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To LEBLANC, RANDALL J
Street an 43277 E PLEASANT RIDGE RD
City, Stat HAMMOND, LA 70403-0623

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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7020 1290 0001 8791 1992

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Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN - 7 2021

Sent To LEE REV TRUST
Street 1513 S. ABILENE AVE
City, St PORTALES, NM 88130-6919

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- [ ] Return Receipt (hardcopy) $
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: LENZO, STEVEN J
Street and: 3301 10TH ST.
City, State: ALAMOGORDO, NM 88310-4178

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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7020 1290 0001 8791 2012

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- [ ] Return Receipt (hardcopy) $
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: LESTOURGEON, BART C
Street and: PO BOX 384
City, State: BOERNE, TX 78006-0384

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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7020 1290 0001 8791 2029

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- [ ] Return Receipt (hardcopy) $
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: LUCAS, DONNA
Street and: 1731 W NIDO
City, State: MESA, AZ 85202-7467

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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7020 1290 0001 8791 2036

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- [ ] Return Receipt (hardcopy) $
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: LUJAN, RAMONA
Street and: 146 PINE HILL TRL
City, State: ALTO, NM 88312-9582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- [ ] Return Receipt (hardcopy) $
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: MAGANA, JOSE PABLO
Street and: PO BOX 7141
City, State: RUIDOSO, NM 88345-7141

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT
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7020 1290 0001 8791 2050

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Certified Mail Fee $ 3.60
Extra Services & Fees (check box, add fee as appropriate)
- [ ] Return Receipt (hardcopy) $
- [ ] Return Receipt (electronic) $
- [ ] Certified Mail Restricted Delivery $
- [ ] Adult Signature Required $
- [ ] Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: MARMOLEJO, CESAR
Street and: PO BOX 181
City, State: ALTO, NM 88312-0181

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2067

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Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 87110-3801 JUN - 7 2021 USPS

Sent To: MARTIN, JERRY W & ANNETTE R
Street and Ap: 625 E JIMENEZ ST
City, State, Zi: HOBBS, NM 88240

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2074

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: MARTIN, MERRY L
Street an: 1652 BILLY CASPER DR
City, Stat: EL PASO, TX 79936-4626

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2081

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Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 87110-3801 JUN - 7 2021 USPS

Sent To: MARTINEZ, SALVADOR
Street and: 7133 N MESA ST APT 199
City, State: EL PASO, TX 79912-3603

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2098

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Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM JUN - 7 2021

Sent T: MCADAM REVOCABLE LIVING TRUST
Street: 1536 S STATE ST, #173
City, S: HEMET, CA 92573-9582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2104

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Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM JUN - 7 2021

Sent To: MCCLURE, TOM W
Street and A: 148 PINE HILL TRL
City, State, Z: ALTO, NM 88312-9582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2111

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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: MCCORMICK, MARY JANE
Street and A: 10001 CHEROKEE RIDGE
City, State, Z: HERMLEIGH, TX 79526-3235

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2128

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees (*check box, add fee as appropriate*)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
ALBUQUERQUE, NM 87110-3801 JUN -7 2021 USPS

Sent To MCCULLOUGH, JOHN L
Street and 123 PINE HILL TRL
City, State, ALTO, NM 88312-9582

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2135

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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees (*check box, add fee as appropriate*)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
ALBUQUERQUE, NM 87110-3801 JUN -7 2021

Sent To MCDONALD, JERRELL WAYNE
Street and Apt 107 LEGACY LN
City, State, Zi ALTO, NM 88312-9531

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2142

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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees (*check box, add fee as appropriate*)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
ALBUQUERQUE, NM 87 JUN 7 2021 USPS

Sent To MCGARVEY, JAMES H
Street and 149 LEGACY LN
City, State, ALTO, NM 88312-9531

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2159

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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees (*check box, add fee as appropriate*)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
ALBUQUERQUE, NM 87 JUN -7 2021 USPS

Sent MCGUIRE, GEORGE
Stree 4120 RAVENWOOD PL NW
City, ALBUQUERQUE, NM 87107-3131

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2166

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees (*check box, add fee as appropriate*)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
ALBUQUERQUE, NM JUN -7 2021

Sent To MITCHELL RONALD L
Street 2241 LOMA RICA CIR
City, St PRESCOTT, AZ 86303-5656

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 8791 2173

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee $ 3.60
Extra Services & Fees (*check box, add fee as appropriate*)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11

Postmark Here
JUN -7 2021 USPS

Sent To NEWTON, BARNEY L
Street ar PO BOX 1127
City, Sta ALTO, NM 88312-1127

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Postage $ 0.51	
Total Postage and Fees $ 4.11	

Sent To: OLIVER, LOIS
Street: 2410 W CERRO RD
City: ARTESIA, NM 88210-9474

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Postage $ 0.51	
Total Postage and Fees $ 4.11	

Sent To: OLVERA, FABIAN J
Street and: 102 MCKENZIE
City, State: RUIDOSO, NM 88345-5515

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Postage $ 0.51	
Total Postage and Fees $ 4.11	

Sent To: OTEY, FRANK S III
Street: 133 DEER CREEK RD
City, State: RUIDOSO, NM 88345-7307

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Postage $ 0.51	
Total Postage and Fees $ 4.11	

Sent To: PARDUE LIVING TRUST
Street and: PO BOX 1007
City, State: ALTO, NM 88312-1007

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Postage $ 0.51	
Total Postage and Fees $ 4.11	

Sent To: PARRISH, ABBY L
Street: 116 MERRILL DR
City: CLOVIS, NM 88101-4046

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Postage $ 0.51	
Total Postage and Fees $ 4.11	

Sent To: PARSONS, RICHARD A JR
Street and: PO BOX 880
City, State: ALTO, NM 88312-0880

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

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Sent To: PEEBLES TRUST
Street and: 10014 FLIGHT PLAN DR
City, State: GRANBURY, TX 76049-4455

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

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Sent To: PERRIN, TYLER R;
Street an: 138 PINE HILL TRL
City, Stat: ALTO, NM 88312-9582

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
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Postage $ 0.51
Total Postage and Fees $ 4.11

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Sent To: RADTKE, JENNA BETH
Street and Ap: 220 LINDELL AVENUE
City, State, Zi: AUSTIN, TX 78704-5131

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

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Sent To: RASMUS, REX B
Street and A: 3302 ONION HOLLOW COVE
City, State, Z: AUSTIN, TX 78739-7631

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
Total Postage and Fees $ 4.11

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Sent To: REED, ROBERT F; TRUSTEE
Street an: 108 WALKABOUT LOOP
City, Stat: RUIDOSO, NM 88345-5820

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51
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Sent To: REEVES, RANDY J
Street and: 216 N MAIN
City, State,: ROSWELL, NM 88201-4723

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☐ Adult Signature Restricted Delivery $
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Total Postage and Fees $ 4.11
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Sent To: RENNIE, ALISA M
Street and: PO BOX 1703 #174
City, State: RUIDOSO, NM 88345-1703

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☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here: JUN -7 2021

Sent To: RIDENOUR, JANE
Street and: 445 EAGLE DR
City, State: HOLLIDAY, TX 76366-3810

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☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
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Sent To: ROBINETT TRUST
Street and: 7612 PLAINFIELD DR
City, State: HOBBS, NM 88242-9016

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☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
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Sent To: ROBLEDO FAMILY LIVING TRUST
Street and: 16052 WALTZ CIRCLE
City, State: HUNTINGTON BEACH, CA 92649-2227

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☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
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Sent To: RODRIGUEZ, ROBERT
Street and: 1010 JOY LANE
City, State: LAS CRUCES, NM 88001-4105

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☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here: JUN -7 2021

Sent To: SANCHEZ, CANDELARIA O
Street and: 1014 E CALIFORNIA AVE
City, State: LAS CRUCES, NM 88001-3713

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☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here: ALBUQUERQUE, NM, JUN -7 2021

Sent To: SCRIPTER, LARRY L
Street and Apt. No.: PO BOX 366
City, State, ZIP+4®: BELEN, NM 87002-0366

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☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
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Total Postage and Fees $ 4.11
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Sent To: SIMPSON, ROBERT
Street and Apt. No.: 470 ENCHANTED FOREST LP
City, State, ZIP+4®: ALTO, NM 88312-9588

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☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here: ALBUQUERQUE, NM 87110, JUN -7 2021

Sent To: SLATEN, DONNA J
Street and Apt. No.: PO BOX 1843
City, State, ZIP+4®: ALTO, NM 88312-1843

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Postage $ 0.51
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Sent To: SODEN, JOHN T
Street and Apt. No.: 1086 STATE HWY 48
City, State, ZIP+4®: ALTO, NM 88312-9583

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☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
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Sent To: SOUTHERN NM FLOORING OUTLETS, LLC
Street and Apt. No.: 7100 JUSTIN LN
City, State, ZIP+4®: LAS CRUCES, NM 88007-4863

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☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
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Sent To: SUNSET CHURCH OF CHRIST, INC
Street and Apt. No.: 1308 W BLODGETT
City, State, ZIP+4®: CARLSBAD, NM 88220-4534

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☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
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Sent To: STAMBAUGH, MARK
Street and Apt. No.: 130 HIGH SIERRA CT
City, State, ZIP+4: ALTO, NM 88312-9418

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☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
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Sent To: TEXAS BAY ISLAND INVEST, INC
Street and Apt. No.: 2251 DRUSILLA LN STE. B
City, State, ZIP+4: BATON ROUGE, LA 70809-1590

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☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
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Sent To: TOMISON, MANDA D
Street and Apt. No.: PO BOX 812
City, State, ZIP+4: ALTO, NM 88312-0812

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
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Sent To: TOMLINSON, GLEN
Street and Apt. No.: 174 KING ROAD UNIT 4305
City, State, ZIP+4: RUIDOSO, NM 88345-6165

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
Postmark Here — JUN 7 2021

Sent To: TRUE, JEFFREY D
Street and Apt. No.: 113 LEGACY LANE
City, State, ZIP+4: ALTO, NM 88312-9531

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage $ 0.51
Total Postage and Fees $ 4.11
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Sent To: URBAN, DANIEL R
Street and Apt. No.: PO BOX 105
City, State, ZIP+4: ALTO, NM 88312-0105

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Extra Services & Fees *(check box, add fee as appropriate)*
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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN - 7 2021

Sent To: URIAS, ORLANDO
Street and Apt. No.: 12724 TIERRA AURORA DR
City, State: EL PASO, TX 79938-4784

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN - 7 2021

Sent To: VASQUEZ, DAVID J
Street and Apt. No.: PO BOX 1498
City, State, ZIP: RUIDOSO, NM 88355-1498

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE, NM 871 JUN - 7 2021

Sent To: VICKERS, ROBERT T
Street and Apt. No.: PO BOX 1573
City, State: ALTO, NM 88312-1573

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Sent To: WADE, DARRELL L
Street and Apt. No.: 5 LA VILLITA CIRCLE NE
City, State: ALBUQUERQUE, NM 87112-2117

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- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

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Sent To: WAGNER, GLENN
Street and Apt. No.: 321 HEATH DR
City, State: RUIDOSO, NM 88345-7243

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- ☐ Certified Mail Restricted Delivery $
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Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: ALBUQUERQUE JUN - 7 2021

Sent To: WETZEL, CLINTON L
Street and Apt. No.: PO BOX 1391
City, State: RUIDOSO DOWNS, NM 88346-1396

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: WILLARD, CODY L
Street and Apt: 159 SILVER FOX LN
City, State, ZIP: ALTO, NM 88312-9595

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

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Sent To: WILLIAMS, KAREN L
Street and Apt: PO BOX 1000
City, State: RUIDOSO, NM 88355-1000

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Certified Mail Fee $ 3.60

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage $ 0.51

Total Postage and Fees $ 4.11

Postmark Here: JUN - 7 2021

Sent To: WILLIS, LARRY
Street and: 101 HIGH SIERRA CT
City, State: ALTO, NM 88312-9418

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Roper Construction | Registered Mail Receipt
Public Notice Neighbor Letter
Landowner Address in Mexico D.F | 06/09/2021

Registered No. RE759919322US

Date Stamp: ALBUQUERQUE, NM 87110 — JUN - 9 2021 — USPS

To Be Completed By Post Office		
Postage $ $1.20	Extra Services & Fees (continued)	
Extra Services & Fees	☐ Signature Confirmation $	
☐ Registered Mail $ $16.30	☐ Signature Confirmation Restricted Delivery $	
☐ Return Receipt (hardcopy) $ $0.00		
☐ Return Receipt (electronic) $ $0.00	Total Postage & Fees $ $17.50	
☐ Restricted Delivery $ $0.00		
Customer Must Declare Full Value $ $0.00	Received by 06/09/2021	Domestic Insurance up to $50,000 is included based upon the **declared value.** International Indemnity is limited. (See Reverse).

OFFICIAL USE

To Be Completed By Customer (Please Print) All Entries Must Be in Ballpoint or Typed

FROM: ALBUQUERQUE, NM 87110
Roper Construction
C/o Montrose Air Quality Services
3500 Comanche NE Bldg G
Albuquerque, NM 87107-4546

TO: Reynaldo Cervantes
Loma Linda 315, Fracc. Loma Blanca
25208 Saltillo, Coah., Mexico D.F.
Mexico

PS Form **3806, Registered Mail Receipt** — Copy 1 - Customer
April 2015, PSN 7530-02-000-9051 (See Information on Reverse)
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UNITED STATES POSTAL SERVICE.

UPTOWN
2505 GRACELAND DR NE
ALBUQUERQUE, NM 87110-9998
(800)275-8777

06/09/2021 11:55 AM

Product	Qty	Unit Price	Price
First-Class™ Intl Letter	1		$1.20
Mexico			
Weight: 0 lb 0.70 oz			
Registered			$16.30
Amount: $0.00			
Tracking #: RE759919322US			
Total			$17.50

Grand Total: $17.50

Credit Card Remitted $17.50
Card Name: MasterCard
Account #: XXXXXXXXXXXX8825
Approval #: 094362
Transaction #: 360
AID: A0000000041010 Chip
AL: MASTERCARD
PIN: Not Required

****
USPS is experiencing unprecedented volume increases and limited employee availability due to the impacts of COVID-19. We appreciate your patience.
****

NOTICE OF AIR QUALITY PERMIT APPLICATION

Roper Construction, Inc. announces its application to the New Mexico Environment Department for a new air quality permit for the construction of a concrete batch plant. The expected date of application submittal to the Air Quality Bureau is June 4, 2021.

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Pollutant:	**Pounds per hour**	**Tons per year**
PM_{10}	3.50 pph	5.72 tpy
$PM_{2.5}$	1.26 pph	1.95 tpy
Sulfur Dioxide (SO_2)	0.00068 pph	0.0030 tpy
Nitrogen Oxides (NO_x)	0.063 pph	0.28 tpy
Carbon Monoxide (CO)	0.053 pph	0.23 tpy
Volatile Organic Compounds (VOC)	0.0070 pph	0.031 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	0.0012 pph	0.0052 tpy
Toxic Air Pollutant (TAP)	<0.0001 pph	<0.0001 tpy
Green House Gas Emissions as Total CO_2e	n/a	< 10,000 tpy

The standard operating schedule of the facility will be from 7 a.m. to 5 p.m. for the months of November through February, and from 5 a.m. to 5 p.m. for the months of March through October, 6 days a week and a maximum of 52 weeks per year. The maximum operating schedule will be 11 hours per day from 7 a.m. to 6 p.m. for the months of November through February, 14 hours per day from 5 a.m. to 7 p.m. for the months of March and November, 17 hours per day from 4 a.m. to 9 p.m. for the months of April and October, and 18 hours per day from 3 a.m. to 9 p.m. in the months of May through August, 7 days a week and a maximum of 52 weeks per year.

The owner and operator of the Facility will be:

Roper Construction, Inc.
P.O. Box 969
Alto, NM 88312

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

With your comments, please refer to the company name and facility name, or send a copy of this notice along with your comments. This information is necessary since the Department may have not yet received the permit application. Please include a legible return mailing address. Once the Department has completed its preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

Attención

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, you may contact: Kristine Pintado, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. If you believe that you have been discriminated against with respect to a NMED program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at https://www.env.nm.gov/NMED/EJ/index.html to learn how and where to file a complaint of discrimination.

Ruidoso News

PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0004747609

This is not an invoice

MONTROSE AIR QUALITY SERV.
3500 COMANCHE RD. N.E. BLDG. G

ALBUQUERQUE, NM 87107-4546

I, being duly sworn, on my oath say that I am the Legal Coordinator of the **Ruidoso News**, a newspaper of twice weekly circulation. The paper is published in the English language at the town of Ruidoso, Lincoln County, State of New Mexico, and that there is no daily paper published, in the said county, nor was there on the dates herein mentioned. Ruidoso News has been regularly published and issued for more than nine months prior to the date of the first publication hereinafter mentioned.

05/26/2021

Legal Clerk

Subscribed and sworn before me this May 26, 2021:

State of WI, County of Brown
NOTARY PUBLIC

1-7-25
My commission expires

KATHLEEN ALLEN
Notary Public
State of Wisconsin

Ad # 0004747609
PO #: Air Quality
# of Affidavits 1

This is not an invoice

NOTICE OF AIR QUALITY PERMIT APPLICATION

Roper Construction, Inc. announces its application to the New Mexico Environm ment for a new air quality permit for the construction of a concrete batch pl pected date of application submittal to the Air Quality Bureau is June 4, 2021.
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PM 10	3.50 pph	5.72 t
PM 2.5	1.26 pph	1.95 t
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Nitrogen Oxides (NOx)	0.063 pph	0.28 t
Carbon Monoxide (CO)	0.053 pph	0.23 t
Volatile Organic Compounds (VOC)	0.0070 pph	0.031
Total sum of all Hazardous Air Pollutants (HAPs)	0.0012 pph	0.005
Toxic Air Pollutant (TAP)	<0.0001 pph	<0.00
Green House Gas Emissions as Total CO2e	n/a	< 10,

The standard operating schedule of the facility will be from 7 a.m. to 5 p.m. for of November through February, and from 5 a.m. to 5 p.m. for the months of Ma October, 6 days a week and a maximum of 52 weeks per year. The maximun schedule will be 11 hours per day from 7 a.m. to 6 p.m. for the months o through February, 14 hours per day from 5 a.m. to 7 p.m. for the months of Ma vember, 17 hours per day from 4 a.m. to 9 p.m. for the months of April and Octc hours per day from 3 a.m. to 9 p.m. in the months of May through August, 7 c and a maximum of 52 weeks per year.
The owner and operator of the Facility will be:

Roper Construction, Inc.
P.O. Box 969
Alto, NM 88312

If you have any comments about the construction or operation of this facility, ar your comments to be made as part of the permit review process, you must subm ments in writing to this address: Permit Programs Manager; New Mexico Envir partment; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, N 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/ permits.html. Other comments and questions may be submitted verbally.
With your comments, please refer to the company name and facility name, or of this notice along with your comments.
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4747609, Ruidoso News, May 26, 2021

NM man gets 5 life terms in killings of wife, daughters

ASSOCIATED PRESS

ROSWELL, N.M. – A New Mexico man who pleaded no contest in the 2016 killings of his wife and their four daughters ages 3-14 faces five consecutive life sentences.

Juan David Villegas-Hernandez's pleas to five counts of first-degree murder ended his trial on May 13 and he was sentenced May 19 by state District Judge Dustin K. Hunter.

"Horror is what occurred to this family," Hunter said during the sentencing in the Chaves County courthouse in Roswell.

While prosecutors said Villegas-Hernandez shot Cynthia Villegas and their daughters after he learned that his wife planned to divorce him, Villegas-Hernandez maintained his innocence and said another person was responsible for the killings,

Prosecutors said Villegas-Hernandez shot the victims at close range at their home before fleeing to Mexico. He was apprehended by Mexican authorities and later extradited.

Consecutive life sentences were the only just outcome, said Scot Key, district attorney for New Mexico's 12th Judicial District.

Firefighter critically injured battling NM wildfire

ASSOCIATED PRESS

SANTA FE – A wildland firefighter was critically injured while fighting a wildfire on private land in southwestern New Mexico near the U.S.-Mexico border, state officials said Tuesday.

The firefighter works for the U.S. Forest Service and was injured Monday while fighting a fire in the Animas Mountains in Hidalgo County, the Forestry Division of the state Energy, Minerals, and Natural Resources Department said in a statement. The firefighter's identity wasn't released.

Division spokeswoman Wendy Mason said during a telephone interview that the firefighter is a member of an elite hotshots crew but that information on how the firefighter was injured wasn't immediately available.

The firefighter was in critical condition Tuesday at a hospital in El Paso, according to the statement.

The fire had burned 350 acres in very rugged terrain along the Continental Divide and its case was under investigation, the statement said.

Attacks

Continued from Page 5A

Los Angeles," said Steve Goldstein, 35, as he walked along La Brea Avenue.

Goldstein said that Monday night, a group of people came to his synagogue off La Brea shouting, "Death to Jews!" and swearing. A friend who was walking alone was chased by a large group of cars flying Palestinian flags, their occupants wearing keffiyeh scarves, he said.

Goldstein said he was furious because it feels like few people care about anti-Semitic attacks or the fear gripping the Jewish community. He said the media, including the Los Angeles Times, fanned the flames with "biased" reporting sympathetic to Palestinians.

Goldstein's 11-year-old daughter, who was walking with him, said her mother would not let her walk or play near busy streets out of fear that someone would attack her for being Jewish.

"We see tremendous outrage from the media any time you have attacks against people of color or Asians. We don't see that outrage when there are attacks against Jews," said a 39-year-old Jewish man who was part of a group walking with Goldstein. Shani Kanner, who lives in Toronto and was visiting family in Los Angeles, said she is "very self-conscious" right now about being Jewish when she is in public because she does not want to draw negative attention or be attacked.

"I'm more aware now," she said. "They make it personal. I didn't do anything. I was born Jewish."

Among the volunteers Saturday was actor Jonathan Lipnicki, 30, a Brazilian jiujitsu blackbelt who has trained in Muay Thai and attends shabbat dinners with Franklin. He said the group of volunteers had talked with police, who were aware of what they were doing.

"A lot of people are definitely scared," he said. "It's a scary time for the Jewish community."

Saturday was Lipnicki's first volunteer shift. He had been present in the area since 7 a.m. and spent most of the day there. An older Orthodox man stopped and thanked him.

"Unbelievable. We appreciate you so much," the man said. "You're here with the MMA group? You're not scared?"

"No, you gotta do the right thing, man," Lipnicki replied.

"It's good to have a presence here," he said with a sigh after the man passed.

He said he was thinking of his grandfather, an Auschwitz survivor, who told him to always do his part.

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Alto, NM 88312

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With your comments, please refer to the company name and facility name, or send a copy of this notice along with your comments. This information is necessary since the Department may have not yet received the permit application. Please include a legible return mailing address. Once the Department has completed its preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

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TX-GCI0657276-01

June 8, 2021

KWES Radio
1096 Mechem Drive
Suite 230
Ruidoso, NM 88345

CERTIFIED MAIL

Dear KWES Radio:

SUBJECT: PSA Request - Proposed Air Quality Construction Permit Application for Roper Construction, Inc.'s Alto Concrete Batch Plant

Attached is a copy of a public service announcement regarding a proposed air quality construction permit application for the Alto Concrete Batch Plant. This announcement is being submitted by Montrose Air Quality Services, Albuquerque, NM on behalf of Roper Construction, Inc.

The announcement request is being made to fulfill the requirements of the New Mexico Environmental Department air quality permitting regulations. Please consider reading the attached announcement as a public service message.

If you have any questions or need additional information, please contact me at (505) 830-9680 ext 6 (voice), (505) 830-9678 (fax) or email at pwade@montrose-env.com. You may also contact Mr. Ryan Roper, Roper Construction, Inc. at (575) 973-0440. Thank you.

Sincerely,

Paul Wade

Paul Wade
Principal

PUBLIC SERVICE ANNOUNCEMENT

Roper Construction, Inc. announces its application to the New Mexico Environment Department for a new air quality permit for the construction of a concrete batch plant. The expected date of application submittal to the Air Quality Bureau is June 11, 2021.

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Public notices have been posted in the following locations for review by the public:

1. At the Capitan Post Office; 226 E Smokey Bear Blvd; Capitan, NM 88316;
2. At the Alto Post Office; 100 Sun Valley Rd; Alto, NM 88312;
3. At the Ruidoso Post Office; 1090 Mechem Dr; Ruidoso, NM 88345; and
4. At the main entrance to Roper Construction, Inc. Alto Concrete Batch Plant Entrance

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For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

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$ 3.60

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $ ______
- ☐ Return Receipt (electronic) $ ______
- ☐ Certified Mail Restricted Delivery $ ______
- ☐ Adult Signature Required $ ______
- ☐ Adult Signature Restricted Delivery $ ______

Postage
$ .51

Total Postage and Fees
$ 4.11

Postmark Here
ALBUQUERQUE, NM 87110-3801 JUN 9 2021 USPS

Sent To
KWES Radio

Street and Apt. No.
1096 Mechem Dr. Ste 230

City, State
Ruidoso, NM 88345

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Section 10

Written Description of the Routine Operations of the Facility

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A written description of the routine operations of the facility. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

The Roper Construction, Inc. Alto Concrete Batch Plant will include an aggregate feed hopper (Unit 2), aggregate feed hopper conveyor (Unit 3), 4-bin aggregate bin (Unit 4), aggregate weigh batcher with conveyor (Units 5 and 6), cement/fly ash split silo (Units 9 and 10) with screw conveyors and dust collectors (Units 9b and 10b), cement/fly ash batcher (Unit 8) and concrete truck loading area (Unit 7) with central dust control system (Unit 7b) to control fugitive dust from the truck loading area and cement/fly ash batcher, and aggregate and sand storage piles (Unit 11). The facility will be identified as Alto CBP.

A front-end loader dumps aggregate and sand into the aggregate feed hopper. The aggregate feed hopper conveyor transfers the material to the 4-bin aggregate bin. The aggregate and sand in the 4-bin aggregate bin is measured by the aggregate weigh batcher and transferred to the batcher conveyor. From the batcher conveyor, the aggregate and sand is transferred to the truck loading area where it is loaded into the concrete trucks. Fugitive dust created while loading concrete trucks will be controlled by the central dust control system. Dust collected in the dust control system will be recycled back to the cement silo.

Measured amounts of fly ash and cement from the cement/fly ash split silo are transferred by screw conveyors or gravity feed to the cement/fly ash batcher. From the cement/fly ash batcher, the measured material is loaded into the concrete trucks at the same time as the aggregate, sand, and water. Fugitive dust created during transfer to the cement/fly ash batcher is controlled by the central dust control system. During loading of the cement/fly ash split silo, fugitive dust is controlled by a dust collector for each compartment of the split silo.

Haul roads on site will be paved and maintained to reduce particulate emissions from truck traffic.

A process flow diagram is presented as Figure 4-1 in Section 4.

Section 11

Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, Single Source Determination Guidance, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

A. Identify the emission sources evaluated in this section (list and describe)**:**

B. Apply the 3 criteria for determining a single source:

SIC Code: Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, OR surrounding or associated sources that belong to different 2-digit SIC codes are support facilities for this source.

X Yes ☐ **No**

Common Ownership or Control: Surrounding or associated sources are under common ownership or control as this source.

X Yes ☐ **No**

Contiguous or Adjacent: Surrounding or associated sources are contiguous or adjacent with this source.

X Yes ☐ **No**

C. Make a determination:

X The source, as described in this application, constitutes the entire source for 20.2.72 NMAC applicability purposes.

☐ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

Section 12

Section 12.A

PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

A PSD applicability determination for all sources. For sources applying for a significant permit revision, apply the applicable requirements of 20.2.74.AG and 20.2.74.200 NMAC and to determine whether this facility is a major or minor PSD source, and whether this modification is a major or a minor PSD modification. It may be helpful to refer to the procedures for Determining the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review Workshop Manual to determine if the revision is subject to PSD review.

A. This facility is a “synthetic minor” source

B. This facility is not one of the listed 20.2.74.501 Table I – PSD Source Categories.

   a. NOx: 0.28 TPY
   b. CO: 0.23 TPY
   c. VOC: 0.031 TPY
   d. SOx: 0.0030 TPY
   e. PM: 5.72 TPY
   f. PM10: 1.95 TPY
   g. PM2.5: 0.37 TPY
   h. Lead: <0.00001 TPY
   i. GHG: <75,000 TPY

C. Netting is not required for this application.

D. BACT is not required for this application.

E. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or 100 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered.

   No, this facility is not a major source. The facility consists of CBP with annual emission rates below 250 tpy of any regulated new source review pollutant.

Section 13

Determination of State & Federal Air Quality Regulations

<u>**This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.**</u>

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

Required Information for Specific Equipment:
For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply**. **For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

Required Information for Regulations that Apply to the Entire Facility:
See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

Regulatory Citations for Regulations That Do Not, but Could Apply:
If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example** if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example,** if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

Regulatory Citations for Emission Standards:
For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard. Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. **Here are examples:** a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

Federally Enforceable Conditions:
All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVENT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc: http://cfpub.epa.gov/adi/

Applicable STATE REGULATIONS:

STATE REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	Dispersion modeling was performed to show compliance with all applicable NAAQS, NMAAQS, and PSD Class I and II Increment.
20.2.7 NMAC	Excess Emissions	Yes	Facility	If subject, this would normally apply to the entire facility. If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. This would not apply to Notices of Intent since these are not permits.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No		This facility has new gas burning equipment (external combustion emission sources, such as gas fired boilers and heaters), is less than a heat input of 1,000,000 million British Thermal Units per year per unit
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	12	Unit 12 is a natural gas hot water heater that applies to 20.2.61.109 NMAC. This regulation limits opacity to 20% applies to Stationary Combustion Equipment.
20.2.70 NMAC	Operating Permits	No		This facility is not a Title V Operating Permit source.
20.2.72 NMAC	Construction Permits	Yes	Facility	Potential emission rate (PER) for the facility is greater than 10 pph or greater than 25 tpy for any pollutant subject to a state or federal ambient air quality standard.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	**NOI:** 20.2.73.200 NMAC applies (requiring a NOI application) **Emissions Inventory Reporting:** 20.2.73.300 NMAC applies.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No		This facility is not a PSD major source.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	This facility is subject to 20.2.72 NMAC and is in turn subject to 20.2.75 NMAC.
20.2.77 NMAC	New Source Performance	No	Units subject to 40 CFR 60	This stationary source is not applicable to the requirements of 40 CFR Part 60.
20.2.78 NMAC	Emission Standards for HAPS	No	Units Subject to 40 CFR 61	This stationary source is not applicable to the requirements of 40 CFR Part 61.
20.2.79 NMAC	Permits – Nonattainment Areas	No		This facility is located in an Attainment Area.
20.2.80 NMAC	Stack Heights	Yes	12	The objective of this Part is to establish requirements for the evaluation of stack heights and other dispersion techniques in permitting decisions. The Department shall give no credit for reductions in emissions due to the length of a source's stack height that exceeds good engineering practice or due to any other dispersion technique. The facility will meet all requirements of good engineering practices.
20.2.82 NMAC	MACT Standards for source categories of HAPS	No	Units Subject to 40 CFR 63	This stationary source is not applicable to the requirements of 40 CFR Part 60.

Applicable FEDERAL REGULATIONS:

FEDERAL REGU-LATIONS CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	Dispersion modeling was performed to show compliance with all applicable NAAQS and PSD Class I and II Increment.
NSPS 40 CFR 60, Subpart A	General Provisions	No	Units subject to 40 CFR 60	No NSPS Subparts in 40 CFR 60 applies to this facility.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	No	12	Except as provided in paragraphs (d), (e), (f), and (g) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/h)) or less, but greater than or equal to 2.9 MW (10 MMBtu/h). The combined hot water heaters are rated smaller than 10 MMBtu/h
NESHAP 40 CFR 61 Subpart A	General Provisions	No	Units Subject to 40 CFR 61	No NESHAP Subparts in 40 CFR 61 applies to this facility.
MACT 40 CFR 63, Subpart A	General Provisions	No	Units Subject to 40 CFR 63	No MACT Subparts in 40 CFR 63 applies to this facility.

Section 14

Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

☐ **Title V Sources** (20.2.70 NMAC)**:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies** defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

■ **NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown** defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.

■ **Title V** (20.2.70 NMAC)**, NSR** (20.2.72 NMAC)**, PSD** (20.2.74 NMAC) **& Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.

Operational Plan to Mitigate Emissions and **Plan of Work Practices**

Startup

Prior to the production of concrete, the concrete truck mixer loading dust collector will be operational and functioning correctly per applicable permit conditions.

Prior to loading of the cement/fly ash split silo, the correct silo dust collector will be operational and functioning correctly per applicable permit conditions.

Prior to the production of concrete, feeder hopper exit, 4-bin aggregate bin, aggregate weigh batcher and conveyor; water sprays, additional moisture, or other control measures, will be functioning correctly to control fugitive emissions.

Upon visual inspection, all haul roads will be controlled with surfactants or other equivalent control methods, to minimize fugitive dust as required under applicable permit conditions.

Shutdown

All required control equipment will operate until all concrete production ceases.

Maintenance

For the feeder hopper exit, 4-bin aggregate bin, aggregate weigh batcher and conveyor; enclosures or water sprays will be maintained to prevent excess emissions during startup or shutdown. For the concrete truck mixer dust collector and cement/fly ash silo dust collectors will be maintained to prevent excess emissions during startup or shutdown. This facility will not have excess emissions during any maintenance procedures.

Malfunction

Upon malfunction where excess particulate emissions are observed from the feeder bin exit enclosures or water sprays, asphalt drum mixer, drum mixer dust collector, scalping screen and pug mill water sprays, mineral filler silo dust collector, and baghouse loadout enclosure and watering, all asphalt production will cease until repairs to control equipment are made.

Section 15

Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Alternative Operating Scenarios: Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

Construction Scenarios: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: https://www.env.nm.gov/aqb/permit/aqb_pol.html. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title "Construction Scenarios", specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc.

No alternative operating scenarios are proposed for this stationary source.

Section 16

Air Dispersion Modeling

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1) Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines found on the Planning Section's modeling website. If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.
2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau's dispersion modeling section. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions modeling requirements.
3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC). See #1 above. **Note:** Neither modeling nor a modeling waiver is required for VOC emissions.	X
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	
Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3 above.	
Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC)	
Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements.	
Other: i.e. SSM modeling. See #2 above.	
This application does not require modeling since this is a No Permit Required (NPR) application.	
This application does not require modeling since this is a Notice of Intent (NOI) application (20.2.73 NMAC).	
This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4), 20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau's Modeling Guidelines.	

Check each box that applies:

☐ See attached, approved modeling **waiver for all** pollutants from the facility.
☐ See attached, approved modeling **waiver for some** pollutants from the facility.
■ Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.
☐ Attached in UA4 is a **modeling report for some** pollutants from the facility.
☐ No modeling is required.

Universal Application 4

Air Dispersion Modeling Report

Refer to and complete Section 16 of the Universal Application form (UA3) to assist your determination as to whether modeling is required. If, after filling out Section 16, you are still unsure if modeling is required, e-mail the completed Section 16 to the AQB Modeling Manager for assistance in making this determination. If modeling is required, a modeling protocol would be submitted and approved prior to an application submittal. The protocol should be emailed to the modeling manager. A protocol is recommended but optional for minor sources and is required for new PSD sources or PSD major modifications. Fill out and submit this portion of the Universal Application form (UA4), the "Air Dispersion Modeling Report", only if air dispersion modeling is required for this application submittal. This serves as your modeling report submittal and should contain all the information needed to describe the modeling. No other modeling report or modeling protocol should be submitted with this permit application.

16-A: Identification		
1	Name of facility:	Alto Concrete Batch Plant
2	Name of company:	Roper Construction, Inc
3	Current Permit number:	New Permit
4	Name of applicant's modeler:	Paul Wade
5	Phone number of modeler:	(505) 830-9680 ext6
6	E-mail of modeler:	pwade@montrose-env.com

16-B: Brief			
1	Was a modeling protocol submitted and approved? Submitted 04/18.2021; No Approval	Yes☒	No☐
2	Why is the modeling being done?	New Facility	
3	Describe the permit changes relevant to the modeling.		
	New Permit		
4	What geodetic datum was used in the modeling?	NAD83	
5	How long will the facility be at this location?	Permanent	
6	Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?	Yes☐	No☒

7	Identify the Air Quality Control Region (AQCR) in which the facility is located	153	
8	List the PSD baseline dates for this region (minor or major, as appropriate).		
	NO2	08/02/1995	
	SO2	N/A	
	PM10	06/16/2000	
	PM2.5	N/A	
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).		
	White Mountain Wilderness Area, 1.91 kilometers		
10	Is the facility located in a non-attainment area? If so describe below	Yes☐	No☒
11	Describe any special modeling requirements, such as streamline permit requirements.		
	None		

16-C: Modeling History of Facility

1 Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQS), and PSD increments modeled. (Do not include modeling waivers).

Pollutant	Latest permit and modification number that modeled the pollutant facility-wide.	Date of Permit	Comments
CO			New Permit – No Previous Modeling
NO_2			New Permit – No Previous Modeling
SO_2			New Permit – No Previous Modeling
H_2S			Not Emitted
PM2.5			New Permit – No Previous Modeling
PM10			New Permit – No Previous Modeling
Lead			None
Ozone (PSD only)			Not a PSD Permit
NM Toxic Air Pollutants (20.2.72.402 NMAC)			Not Emitted

16-D: Modeling performed for this application

1 For each pollutant, indicate the modeling performed and submitted with this application.
Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed.

Pollutant	ROI	Cumulative analysis	Culpability analysis	Waiver approved	Pollutant not emitted or not changed.
CO	☒	☐	☐	☐	☐
NO_2	☒	☒	☐	☐	☐
SO_2	☒	☐	☐	☐	☐

	H_2S	☐	☐	☐	☐	☒
	PM2.5	☒	☒	☐	☐	☐
	PM10	☒	☒	☐	☐	☐
	Lead	☐	☐	☐	☐	☒
	Ozone	☐	☐	☐	☐	☒
	State air toxic(s) (20.2.72.402 NMAC)	☐	☐	☐	☐	☒

16-E: New Mexico toxic air pollutants modeling

1	List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application. None
2	List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.

Pollutant	Emission Rate (pounds/hour)	Emission Rate Screening Level (pounds/hour)	Stack Height (meters)	Correction Factor	Emission Rate/ Correction Factor

16-F: Modeling options

1	Was the latest version of AERMOD used with regulatory default options? If not explain below.	Yes☒	No☐
	For volume sources were processed in flat terrain mode.		

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	March 16, 2021
2	If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.	

AQB Source ID	Description of Corrections

16-H: Building and structure downwash

1	How many buildings are present at the facility?	1 - Office
2	How many above ground storage tanks are present at the facility?	1 – Cement/Fly Ash Storage Silo

3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes☒	No☐
4	Building comments		

16-I: Receptors and modeled property boundary

1	"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 a 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. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility. Describe the fence or other physical barrier at the facility that defines the restricted area.		
	Site is fenced on all sides of the facility with gates at entrances.		
2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?	Yes☐	No☒
3	Are restricted area boundary coordinates included in the modeling files?	Yes☒	No☐

4 Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.

Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comments
Very fine	Cartesian	50	0	500 meters	
Fine	Cartesian	100	500 meters	1000 meters	
Course	Cartesian	250	1000 meters	3000 meters	

5	Describe receptor spacing along the fence line.
	25 meters
6	Describe the PSD Class I area receptors.
	100 meters spacing across east side of White Mountain Wilderness Area

16-J: Sensitive areas

1	Are there schools or hospitals or other sensitive areas near the facility? If so describe below. This information is optional (and purposely undefined) but may help determine issues related to public notice.	Yes☐	No☒

3	The modeling review process may need to be accelerated if there is a public hearing. Are there likely to be public comments opposing the permit application?	Yes☐	No☒

16-K: Modeling Scenarios

1

Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).

The concrete batch plant will limit hourly processing rate to 125 cubic yard per hour and 500,000 cubic yard per year. The hours of operation are presented below in Table 1. Seasonal daily throughputs are presented in Table 2.

TABLE 1: CBP Plant Hours of Operation (MST)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	1	1	1	1	0	0	0	0
4:00 AM	0	0	0	1	1	1	1	1	1	0	0	0
5:00 AM	0	0	1	1	1	1	1	1	1	1	0	0
6:00 AM	0	0	1	1	1	1	1	1	1	1	0	0
7:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
8:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
9:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
10:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
11:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
12:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
1:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
2:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
3:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
4:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
5:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
6:00 PM	0	0	1	1	1	1	1	1	1	1	0	0
7:00 PM	0	0	0	1	1	1	1	1	1	0	0	0
8:00 PM	0	0	0	1	1	1	1	1	1	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	11	11	14	17	18	18	18	18	17	14	11	11

TABLE 2: HMA Daily Production Rates and Corresponding Max Hours of Production

Month	Cubic Yards Per Day	At Max Hourly Throughput – Hours per Day
November - February	1125	9
March, October	1500	12
April, September	1750	14
May - August	1875	15

Table 3 presents the 3 model scenarios modeled hours for showing compliance with the worst-case operating scenario.

TABLE 3: HMA Model Scenario Time Segments - Particulate

Model Scenario	Time Segments 9-Hour Blocks November - February	Time Segments 12-Hour Blocks March & October	Time Segments 14-Hour Blocks April & September	Time Segments 15-Hour Blocks May - August
1	7 AM to 4 PM	5 AM to 5 PM	4 AM to 6 PM	3 AM to 6 PM
2	9 AM to 6 PM	7 AM to 7 PM	6 AM to 8 PM	5 AM to 8 PM
3	9 AM to 6 PM	7 AM to 7 PM	7 AM to 9 PM	6 AM to 9 PM

2	Which scenario produces the highest concentrations? Why? PM10 – Scenario 2 – Year 2017, low wind speed. PM2.5 - Scenario 3 because the operating times includes early evening, low wind speed.		
3	Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)	Yes☐	No☒
4	If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.) Sources:		

	Hour of Day	Factor	Hour of Day	Factor								
	1		13									
	2		14									
	3		15									
	4		16									
	5		17									
5	6		18									
	7		19									
	8		20									
	9		21									
	10		22									
	11		23									
	12		24									
	If hourly, variable emission rates were used that were not described above, describe them below.											

6	Were different emission rates used for short-term and annual modeling? If so describe below.	Yes☐	No☒

16-L: NO_2 Modeling

1	Which types of NO_2 modeling were used? Check all that apply.	
	☒	ARM2
	☐	100% NO_X to NO_2 conversion
	☐	PVMRM
	☐	OLM
	☐	Other:
2	Describe the NO_2 modeling.	
	ARM2 for both 1-hour and annual averaging period modeling. All ARM2 default values were used.	

3	Were default NO_2/NO_X ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not describe and justify the ratios used below.	Yes☒	No☐
4	Describe the design value used for each averaging period modeled.		
	1-hour: 98th percentile as calculated by AERMOD Annual: Highest Annual Average of Three Years		

16-M: Particulate Matter Modeling

1	Select the pollutants for which plume depletion modeling was used.	
	☐	PM2.5
	☒	PM10
	☐	None
2	Describe the particle size distributions used. Include the source of information.	
	Representative average particle densities were obtained from NMED accepted values.	

Material	Density (g/cm^3)	Reference
Road Dust – Roper Construction	2.5	NMED Value
Cement – Roper Construction	3.3	NMED Value
Fly Ash – Roper Construction	1.04	NMED Value
Combustion – Roper Construction and Neighbor	1.5	NMED Value
Fugitive Dust – Roper Construction and Neighbor	2.5	NMED Value

The densities and size distribution for PM_{10} emission sources are presented in Tables 4 - 8.

TABLE 4: Unpaved Road Vehicle Fugitive Dust Depletion Parameters

Particle Size Category (µm)	Mass Mean Particle Diameter (µm)	Mass Weighted Size Distribution (%)	Density (g/cm³)
PM10			
0 – 2.5	1.57	25.0	2.5
2.5 – 10	6.91	75.0	2.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 5: Cement Baghouse Source Depletion Parameters

Particle Size Category (µm)	Mass Mean Particle Diameter (µm)	Mass Weighted Size Distribution (%)	Density (g/cm³)
PM10			
0-2.5	1.57	25	3.3
2.5-10	6.91	75	3.3

Parameters based on baghouse exhaust capture percentages.

TABLE 6: Fly Ash Baghouse Source Depletion Parameters

Particle Size Category (µm)	Mass Mean Particle Diameter (µm)	Mass Weighted Size Distribution (%)	Density (g/cm³)
PM10			
0-2.5	1.57	25	3.3
2.5-10	6.91	75	3.3

Parameters based on baghouse exhaust capture percentages

TABLE 7: Combustion Source Depletion Parameters

Particle Size Category (µm)	Mass Mean Particle Diameter (µm)	Mass Weighted Size Distribution (%)	Density (g/cm³)
PM10			
0 - 2.5	1.57	100	1.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 8: Fugitive Dust Source Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
2.5 – 5	3.88	22.6	2.5
5 – 10	7.77	77.4	2.5

Parameters based on values from the Albuquerque Air Quality Division Modeling Guidelines.

3	Does the facility emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2? Sources that emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2 are considered to emit significant amounts of precursors and must account for secondary formation of PM2.5.	Yes☐	No☒
4	Was secondary PM modeled for PM2.5?	Yes☐	No☒

5	If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.			
	NO_X (ton/yr)	SO_2 (ton/yr)	$[PM2.5]_{annual}$	$[PM2.5]_{24\text{-hour}}$

16-N: Setback Distances

1	Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location.
	Permanent Site
2	Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.
	N/A

16-O: PSD Increment and Source IDs

1	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below.	Yes☐	No☒
	Unit Number in UA-2	Unit Number in Modeling Files	
	Concrete Plant Truck Load Baghouse (Unit 7,8)	TMBH	
	Concrete Plant Cement Silo Baghouse (Unit 9)	CSBH	
	Concrete Plant Fly Ash Baghouse (Unit 10)	FASBH	

	Concrete Batch Plant Heater (Unit 12)	CBPH
	Feed Hopper Loading (Unit 2)	FH
	Feed Hopper Unloading to Conveyor (Unit 3)	TP
	Aggregate Bin Loading (Unit 4)	AB
	Aggregate Weigh Batcher and Conveyor (Unit 5,6)	WH
	Storage Piles (Aggregate) (Unit 11)	SP1
	Storage Piles (Aggregate) (Unit 11)	SP2
	Storage Piles (Aggregate) (Unit 11)	SP3
	Storage Piles (Sand) (Unit 11)	SP4
	Storage Piles (Sand) (Unit 11)	SP5
	Storage Piles (Sand) (Unit 11)	SP6
	Aggregate Haul Trucks Volume 1 (Unit 1)	AGG_0001 - 36
	Concrete Cement Fly Ash Haul Trucks Volume1 (Unit 1)	CON_0001 - 18

2	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.	Yes☐	No☒

Hourly model emission rates for material handling sources (Emissions calculated using AP-42 Section 13.2.4) are calculated using annual average windspeed for Ruidoso 2006 - 2016. Mineral filler silo modeled emission rate is based on the hourly usage (3 tons/hr) times the silo baghouse particulate emission factor.

Emission Point #	Process Unit Description	PM10	PM2.5
		lbs/hr	lbs/hr
FH	Feed Hopper Loading (Unit 2)	0.27369	0.04144
SP1	Storage Piles (Aggregate) (Unit 11)	0.05970	0.00904
SP2	Storage Piles (Aggregate) (Unit 11)	0.05970	0.00904
SP3	Storage Piles (Aggregate) (Unit 11)	0.05970	0.00904
SP4	Storage Piles (Sand) (Unit 11)	0.05970	0.00904
SP5	Storage Piles (Sand) (Unit 11)	0.05970	0.00904
SP6	Storage Piles (Sand) (Unit 11)	0.05970	0.00904
CSBH	Concrete Plant Cement Silo Baghouse (Unit 9)	0.01436	0.00331
FASBH	Concrete Plant Fly Ash Baghouse (Unit 10)	0.00908	0.00209

3	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?	Yes☐	No☒

4 Which units consume increment for which pollutants?

Unit ID	NO_2	SO_2	PM10	PM2.5
TMBH			X	
CSBH			X	
FASBH			X	
CBPH	X		X	
FH			X	
TP			X	
AB			X	
WH			X	
SP1			X	

	SP2			X	
	SP3			X	
	SP4			X	
	SP5			X	
	SP6			X	
	AGG_0001 - 36			X	
	CON_0001 - 18			X	

5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).	Baseline unit expanded emissions after minor baseline date	
6	Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☐	No☒
	Facility has not been installed. Is a new facility that will consume increment for NO_2 and PM_{10}		

16-P: Flare Modeling

1	For each flare or flaring scenario, complete the following			
	Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)
	NA			

16-Q: Volume and Related Sources

1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines? If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☐	No☒
	Volume sources for storage piles are based on 8 feet release height and 50 feet width.		
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		
	For storage piles, the model inputs were based on the size (100 feet) of the pile/4.3 (sigma-Y) and a release height of 8 feet or a sigma-Z of 8ft*2/2.15. All others followed standard dimensions from Air Quality Bureau (AQB) Modeling Guidelines.		
3	Describe how the volume sources are related to unit numbers. Or say they are the same.		
4	Describe any open pits.		
	None		
5	Describe emission units included in each open pit.		
	None		

16-R: Background Concentrations			
1	Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used.	Yes☒	No☐
	CO: Del Norte High School (350010023)		
	NO_2: Outside Carlsbad (350151005)		
	PM2.5: Las Cruces Distric Office (350130025)		
	PM10: Las Cruces City Well #46 (350130024)		
	SO_2: Bloomfield(350450009)		
	Other:		
	Comments:		
2	Were background concentrations refined to monthly or hourly values? If so describe below.	Yes☐	No☒

16-S: Meteorological Data			
1	Was NMED provided meteorological data used? If so select the station used.	Yes☐	No☒
2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		
	Dispersion model meteorological input files were created from meteorological data collected at Holloman AFB, NM for the years 2016 - 2020, about 45 miles north-north-east from the site. The similar elevation, topography, terrain, vegetation, and climate of both sites make this meteorological data representative of the model area. Figure 3 shows wind rose diagram of the meteorological wind speed versus direction data that has been collected for the years 2016 - 2020. AERMET wind speed threshold for surface data is 0.5 meters per second. Santa Teresa Airport 2016-2020 data was used for upper air. Since the meteorological input data does not include turbulence data, the adjust U* option in AERMET was used during processing of the meteorological data. AERMET/AERMOD requires that several additional parameters be input during data processing in AERMET: • Surface roughness length (m) • Albedo • Bowen Ratio The surface roughness length influences the surface shear stress and is an important factor in determining the magnitude of mechanical turbulence and the stability of the boundary layer. The albedo is the fraction of total incident solar radiation reflected by the surface back to space without absorption. The daytime Bowen ratio, an indicator of surface moisture, is the ratio of sensible heat flux to latent heat flux and, together with albedo and other meteorological observations, is used for determining planetary boundary layer parameters for convective conditions driven by the surface sensible heat flux. These parameters would be obtained using AERSURFACE (*Version 20060*). AERSURFACE requires the input of land cover data from the U.S. Geological Survey (USGS) National Land Cover Data (NLCD) 2016 archives, which it uses to determine the land cover types for the Alamogordo airport-specified location. AERSURFACE matches the 2016 NLCD land		

cover categories to seasonal values of albedo, Bowen ratio, and surface roughness. Values of surface characteristics are calculated based on the land cover data for the study area and output in a format for input into AERMET Stage 3.

Site descriptive questions required by AERSURFACE include:

- Meteorological data from airport
- Continuous snowcover for a month in winter
- Arid climate
- Dry climate

For the Holloman AFB meteorological data, YES was checked for airport data, NO was checked for continuous snowcover in winter, YES was checked for arid climate, and YES was checked for dry climate. For each parameter, data was extracted from land cover data for each month of the year and 12 equal sectors radiating from the Alamogordo Airport.

The meteorological data was processed using AERMET (*Version 19191)* and upper air from Santa Teresa Airport for the same time period. The upper air and surface data are considered to be representative and comparable with both the Holloman AFB and Roper Construction's Alto CBP site. The Holloman AFB meteorological data files, Santa Teresa upper air files, and Holloman AFB surface air file are submitted to the NMED-AQB Modeling Section for review with this modeling protocol.

No missing hours were substituted.

16-T: Terrain

1	Was complex terrain used in the modeling? If not, describe why below.	Yes☒	No☐
2	What was the source of the terrain data?		
	NED		

16-U: Modeling Files

1	Describe the modeling files:		
	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
	RoperAltaCombustionROI	CO, NO2, SO2	ROI
	RoperAltaPMROIS1-3	PM10, PM2.5	ROI
	RoperAltaCIANO21Hr	NO2	Cumulative
	RoperAltaCIAPM10dS1-3	PM10 24 Hour and Annual Increment	Cumulative, PSD Class II Increment
	RoperAltaCIAPM25_24S1-3	PM2.5 24 Hour	Cumulative
	RoperAltaCIAPM25_YrS1-3	PM2.5 Annual	Cumulative
	RoperAltaNO2IncSIL	NO2	Class I Increment SIL
	RoperAltaPM10dS1IncSIL – S3	PM10	Class I Increment SIL
	RoperAltaPM10dS1Inc – S3	PM10 24 Hour and Annual	Class I Increment Cumulative

16-V: PSD New or Major Modification Applications

1	A new PSD major source or a major modification to an existing PSD major source requires additional analysis. Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)?	Yes☐	No☒
2	If not, did AQB approve an exemption from preconstruction monitoring?	Yes☐	No☒
3	Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.		
	NA		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
	NA		
5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes☐	No☒
	Total facility emissions of NO2, SO2, and VOC are all less than <1.0 tons per year		

16-W: Modeling Results

1	If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below.	Yes☐	No☒
2	Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary.		

Pollutant, Time Period and Standard	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (ft)
NO_2 1 Hour H8H	20.8	-	-	38.7	59.5	188.03	31.6	438252.1	3697885.1	1267.39
NO_2 Annual H1H	0.87	-	-	-	-	SIL-1	87.0	438252.1	3697885.1	-
NO_2 Annual Class II	0.87	-	-	-	-	SIL-1	87.0	438252.1	3697885.1	-
NO_2 Annual Class I	0.0046	-	-	-	-	SIL-0.1	4.6	437055.0	3699583.7	2222.57
CO 1 Hour H1H	50.5	-	-	-	-	SIL-2000	2.5	438158.3	3697938.3	-
CO 8 Hour H1H	12.8	-	-	-	-	SIL-500	2.6	438252.1	3697885.1	-
SO_2 1 Hour H1H	0.64	-	-	-	-	SIL-7.8	8.2	438158.3	3697938.3	-
SO_2 3 Hour H1H	0.24	-	-	-	-	SIL-25	1.0	438319.0	3697924.6	-
SO_2 24 Hour H1H	0.07	-	-	-	-	SIL-5	1.4	438252.1	3697885.1	-
SO_2 Annual H1H	0.01	-	-	-	-	SIL-1	1.0	438252.1	3697885.1	-
$PM_{2.5}$ 24 Hour H8H	3.9	4.1	-	14.9	19.0	35	54.3	438234.5	3698033.5	2208.74

Pollutant, Time Period and Standard	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (ft)
$PM_{2.5}$ Annual H1H	2.01	2.15	-	5.1	7.25	12	60.4	438234.5	3698033.5	2208.74
PM_{10} 24 Hour H2H	29.7	29.9	-	94.7	124.6	150	83.1	438234.5	3698033.5	2208.74
PM_{10} 24 Hour Class II	29.7	29.8	-	-	29.8	30	99.3	438234.5	3698033.5	2208.74
PM_{10} Annual Class II	11.8	11.9	-	-	11.9	17	70.0	438234.5	3698033.5	2208.74
PM_{10} 24 Hour Class I	0.23	0.64	-	-	0.64	8	8.0	436950.0	3699650.0	2279.07
PM_{10} Annual Class I	0.018	-	-	-	-	SIL-0.2	9.0	437055.0	3699583.7	2222.57

16-X: Summary/conclusions	
1	A statement that modeling requirements have been satisfied and that the permit can be issued.
	Dispersion modeling was performed for all regulated sources at Roper Construction's Alto CBP. All facility pollutants with ambient air quality standards were modeled to show compliance with those standards. All results of this modeling analysis showed the facility is in compliance with applicable ambient air quality standards and PM_{10} and NO_2 PSD Class I and Class II increment limits. Based on the dispersion modeling analysis, the permit can be issued.

DISPERSION MODEL PROTOCOL
FOR ROPER CONSTRUCTION, INC.
ALTO CONCRETE BATCH PLANT
NSR MINOR SOURCE PERMIT APPLICATION

Alto, New Mexico

Prepared for

Roper Construction, Inc.

Dated April 29, 2021

Prepared by

Montrose Air Quality Services, LLC

MONTROSE
AIR QUALITY SERVICES

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1.0 INTRODUCTION

This dispersion modeling analysis will be conducted by Montrose Air Quality Services, LLC (Montrose) on behalf of Roper Construction, Inc. (Roper Construction), to evaluate ambient air quality impacts from the Alto Concrete Batch Plant (CBP), as part of a minor source NSR permitting action. This permit application is for a 125 cubic yard per hour (cuyd/hr) CBP.

The objective of this modeling evaluation is to predict if, operating at requested maximums, the facility operations would result in ambient air concentrations for nitrogen dioxide, (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), and particulate matter; both 10 microns or less (PM_{10}) and 2.5 microns or less ($PM_{2.5}$); would exceed the New Mexico and federal ambient air quality standards, NMAAQS and NAAQS respectively. Since Alto CBP is a minor source for NSR permitting and is located in AQRC Region 153, where the minor source baseline date has been triggered for NO_2 (08/02/1995) and PM_{10} (06/16/2000), a PSD Class I and II Increment analysis will be performed. One Class I areas are located within 50 km of the site (White Mountain Wilderness Area), so PSD Class I increment modeling will be performed for NO_2 and PM_{10}.

The dispersion modeling will be conducted using the American Meteorological Society/Environmental Protection Agency Regulatory Model Improvement Committee Dispersion Model (AERMOD), Version 19191. This model is recommended by EPA for determining Class II impacts within 50 km of the source being assessed. Additionally, AERMOD was developed to handle complex terrain. The objective of this evaluation is to determine whether ambient air concentrations from the maximum operation of the facility for nitrogen dioxide, (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), and particulate matter; both 10 microns or less (PM_{10}) and 2.5 microns or less ($PM_{2.5}$); are below Class II federal and state ambient air quality standards (NAAQS and NMAAQS) found in 40 CFR part 50 and the state of New Mexico's air quality regulation 20.2.3 NMAC from Alto CBP emission sources. Montrose employs the general modeling procedures outlined in "New Mexico Air Pollution Control Bureau, Dispersion Modeling Guidelines", revised 10/26/2020, and the most up to date EPA's *Guideline on Air Quality Models*.

1.1 FACILITY DESCRIPTION

Roper Construction's Alto CBP is a proposed site that will operate a concrete batch plant.
The 125 cubic yard per hour plant will include an aggregate/sand feed hopper, feed hopper conveyor, 4-compartment overhead aggregate/sand storage bin, aggregate/sand batcher and conveyor, split cement/fly ash storage silo with a baghouse for each side, cement/fly ash batcher, truck loading area, and 3-instant hot water heaters (199,900 Btu each). The plant will be powered by line power. Processed concrete will be transported from the CBP plant to off-site sales. The CBP plant will limit hourly processing rate to 125 cuyd/hr and 500,000 cubic yards per year (cuyd/yr). The hours of operation are presented below in Table 1. The monthly daily throughputs are presented in Table 2.

TABLE 1: CBP Plant Hours of Operation (MST)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	1	1	1	1	0	0	0	0
4:00 AM	0	0	0	1	1	1	1	1	1	0	0	0
5:00 AM	0	0	1	1	1	1	1	1	1	1	0	0
6:00 AM	0	0	1	1	1	1	1	1	1	1	0	0
7:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
8:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
9:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
10:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
11:00 AM	1	1	1	1	1	1	1	1	1	1	1	1
12:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
1:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
2:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
3:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
4:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
5:00 PM	1	1	1	1	1	1	1	1	1	1	1	1
6:00 PM	0	0	1	1	1	1	1	1	1	1	0	0
7:00 PM	0	0	0	1	1	1	1	1	1	0	0	0
8:00 PM	0	0	0	1	1	1	1	1	1	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	11	11	14	17	18	18	18	18	17	14	11	11

TABLE 2: CBP Daily Production Rates and Corresponding Max Hours of Production

Season	Cubic Yards Per Day	At Max Hourly Throughput – Hours per Day
November - February	1125	9
March, October	1500	12
April, September	1750	14
May - August	1875	15

Table 3 presents the 3 model scenarios operating hours for showing compliance with the worst-case model operating scenarios.

TABLE 3: CBP Model Scenario Time Segments

Model Scenario	Time Segments 9-Hour Blocks November - February	Time Segments 12-Hour Blocks March & October	Time Segments 14-Hour Blocks April & September	Time Segments 15-Hour Blocks May - August
1	7 AM to 4 PM	5 AM to 5 PM	4 AM to 6 PM	3 AM to 6 PM
2	9 AM to 6 PM	7 AM to 7 PM	6 AM to 8 PM	5 AM to 8 PM
3	9 AM to 6 PM	7 AM to 7 PM	7 AM to 9 PM	6 AM to 9 PM

1.2 FACILITY IDENTIFICATION AND LOCATION

Roper Construction's Alto CBP is located off Highway 220, near Alto, north of Ruidoso in Lincoln County, New Mexico. The exact location of the facility will be UTM Zone 13, UTM Easting 438,235, UTM Northing 3,697,950, NAD 83. The approximate location of this site is 0.35 miles east of the intersection of Highways 48 and 220 north of Ruidoso, NM in Lincoln County.

Figure 1 below presents a layout of the site showing the layout of the CBP plant. Figure 2 shows the facility boundary in relation to the surrounding area.

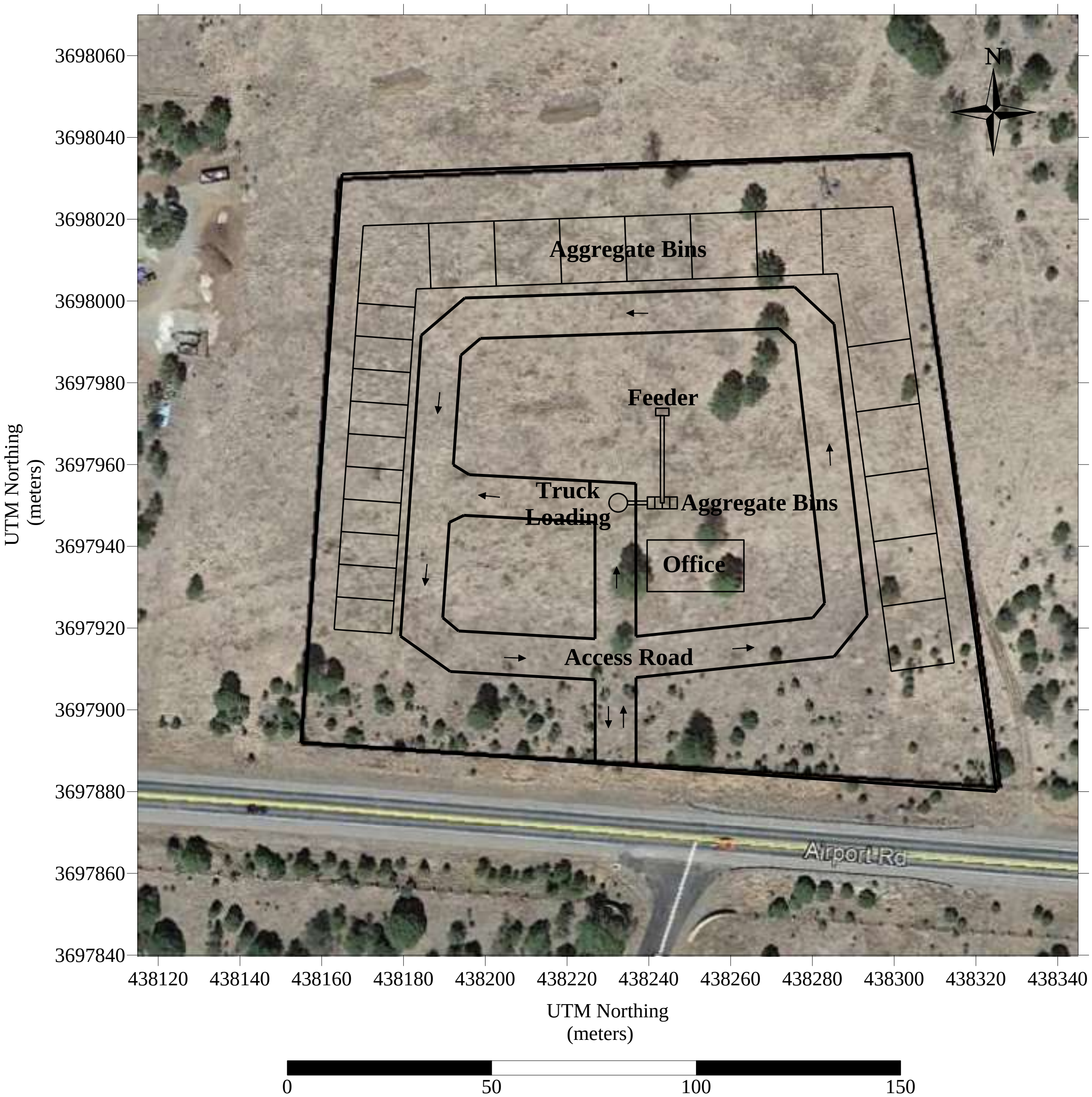

Figure 1: Roper Construction's Alto CBP Site Aerial View

Figure 2: Roper Construction's Alto CBP Aerial View showing Surrounding Terrain

2.0 SIGNIFICANT MODELING AIR QUALITY IMPACT ANALYSIS

This section identifies the technical approach and dispersion model inputs that will be used for the Class II federal and State ambient air quality standards and PM_{10}, and NO_2 PSD Class I and II Increment impacts for this stationary source. NMED AQB requires that all applicable criteria pollutant emissions be modeled using the most recent versions of US EPA's approved models and be compared with National Ambient Air Quality Standards (NAAQS), and New Mexico Ambient Air Quality Standards (NMAAQS). Table 4 shows the NAAQS and NMAAQS (without footnotes) that the source's ambient impacts must meet in order to demonstrate compliance. Table 4 also lists the Class I and II Significant Impact Levels (SILs) which are used to assess whether a source will have a significant impact at downwind receptors. Table 5 lists ambient air quality standards in which modeling is not required.

The dispersion modeling analysis will be performed to estimate concentrations resulting from the operation of the Alto CBP using the maximum hourly emission rates while all emission sources are operating. The modeling will determine maximum off site concentrations for nitrogen dioxide, (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), and particulate matter with aerodynamic diameter less than 10 micrometers (PM_{10}) and particulate matter with aerodynamic diameter less than 2.5 micrometers ($PM_{2.5}$), for comparison with modeling significance levels, and national/New Mexico ambient air quality standards (AAQS). Additionally, modeling will determine maximum off-site concentrations for NO_2 annual average; and PM_{10} 24 hour and annual average PSD Class I and II increment limits. The modeling will follow the guidance and protocols outlined in the NMED - AQB "Air Dispersion Modeling Guidelines" (October 26, 2020), and the most up to date EPA's *Guideline on Air Quality Model.*

Initial modeling will be performed with Alto CBP sources only to determine pollutant and averaging periods that exceeds pollutant SILs. If initial modeling for any pollutant and averaging period exceeds the SILs, then cumulative modeling will be performed for those pollutants and averaging periods and will include significant neighboring sources along with background ambient concentrations as defined in the NMED's modeling guidelines.

TABLE 4: National and New Mexico Ambient Air Quality Standard Summary

Pollutant	Avg. Period	Sig. Lev. (μg/m³)	Class I Sig. Lev. (μg/m³)	NAAQS	NMAAQS	PSD Increment Class I	PSD Increment Class II
CO	8-hour	500		9,000 ppb(1)	8,700 ppb(2)		
	1-hour	2,000		35,000 ppb(1)	13,100 ppb(2)		
NO_2	annual	1.0	0.1	53 ppb(3)	50 ppb(2)	2.5 μg/m³	25 μg/m³
	24-hour	5.0			100 ppb(2)		
	1-hour	7.52		100 ppb(4)			
$PM_{2.5}$	annual	0.2	0.05	12 μg/m³(5)		1 μg/m³	4 μg/m³
	24-hour	1.2	0.27	35 μg/m³(6)		2 μg/m³	9 μg/m³
PM_{10}	annual	1.0	0.2			4 μg/m³	17 μg/m³
	24-hour	5.0	0.3	150 μg/m³(7)		8 μg/m³	30 μg/m³
SO_2	annual	1.0	0.1		20 ppb(2)	2 μg/m³	20 μg/m³
	24-hour	5.0	0.2		100 ppb(2)	5 μg/m³	91 μg/m³
	3-hour	25.0	1.0	500 ppb(1)		25 μg/m³	512 μg/m³
	1-hour	7.8		75 ppb(8)			

Standards converted from ppb to μg/m³ use a reference temperature of 25° C and a reference pressure of 760 millimeters of mercury.
(1) Not to be exceeded more than once each year.
(2) Not to be exceeded.
(3) Annual mean.
(4) 98th percentile of 1-hour daily maximum concentrations, averaged over 3 years.
(5) Annual mean, averaged over 3 years.
(6) 98th percentile, averaged over 3 years.
(7) Not to be exceeded more than once per year on average over 3 years.
(8) 99th percentile of 1-hour daily maximum concentrations, averaged over 3 years.

TABLE 5: Standards for Which Modeling Is Not Required by NMED AQB.

Standard not Modeled	Surrogate that Demonstrates Compliance
CO 8-hour NAAQS	CO 8-hour NMAAQS
CO 1-hour NAAQS	CO 1-hour NMAAQS
NO_2 annual NAAQS	NO_2 annual NMAAQS
NO_2 24-hour NMAAQS	NO_2 1-hour NAAQS
O_3 8-hour	Regional modeling
SO_2 annual NMAAQS	SO_2 1-hour NAAQS
SO_2 24-hour NMAAQS	SO_2 1-hour NAAQS
SO_2 3-hour NAAQS	SO_2 1-hour NAAQS

2.1 DISPERSION MODEL SELECTION

The dispersion modeling will be conducted using the American Meteorological Society/Environmental Protection Agency Regulatory Model Improvement Committee Dispersion Model (AERMOD), *Version 19191*. This model is recommended by EPA for determining Class II impacts within 50 km of the facility being assessed. Additionally, AERMOD was developed to handle complex terrain. In this analysis, AERMOD will be used to estimate pollutant concentrations of CO, NO_2, PM_{10}, $PM_{2.5}$ and SO_2 in the ambient air from the CBP facility modeled emission sources.

AERMOD is a Gaussian plume dispersion model that is based on planetary boundary layer principles for characterizing atmospheric stability. The model evaluates the non-Gaussian vertical behavior of plumes during convective conditions with the probability density function and the superposition of several Gaussian plumes. AERMOD modeling system has three components: AERMAP, AERMET, and AERMOD. AERMAP is the terrain preprocessor program. AERMET is the meteorological data preprocessor. AERMOD includes the dispersion modeling algorithms and was developed to handle simple and complex terrain issues using improved algorithms. AERMOD uses the dividing streamline concept to address plume interactions with elevated terrain.

AERMOD CIA modeling will be run using all the following regulatory default options including use of:

- Gradual Plume Rise
- Stack-tip Downwash
- Buoyancy-induced Dispersion
- Calms and Missing Data Processing Routine
- Upper-bound downwash concentrations for super-squat buildings
- Default wind speed profile exponents
- Calculate Vertical Potential Temperature Gradient
- No use of gradual plume rise
- Rural Dispersion

These regulatory default options are found in the AERMOD User's Manual. The model will incorporate local terrain into the calculations.

For ROI modeling, the model will run in non-default mode using flat terrain mode as discussed on NMED modeling guidelines Section 7.1.1. For CIA modeling, the model will run in non-default mode using flat terrain mode for non-buoyant fugitive sources as discussed on NMED modeling guidelines Section 4.5.1.

2.2 BUILDING WAKE EFFECTS

AERMOD can account for building downwash and cavity zone effects. Evaluation of building downwash on adjacent stack sources is deemed necessary, since all stack source heights are below Good Engineering Practice (GEP) heights. The formula for GEP height estimation is:

$H_s = H_b + 1.50L_b$

where: H_s = GEP stack height

H_b = building height

L_b = the lesser building dimension of the height, length, or width

The effects of aerodynamic downwash due to buildings and other structures will be accounted for by using wind direction-specific building parameters calculated by the USEPA-approved Building Parameter Input Program Prime (BPIP-Prime (*Version 04274*)) and the algorithms included in the AERMOD air dispersion model. The facility office and split storage silo are located at the site that will cause building wake effects for facility point sources, so building downwash will be evaluated.

2.3 METEOROLOGICAL DATA

Dispersion model meteorological input files were created from meteorological data collected at Holloman AFB, NM for the years 2016 - 2020, about 45 miles north-north-east from the site. The similar elevation, topography, terrain, vegetation, and climate of both sites make this meteorological data representative of the model area. Figure 3 shows wind rose diagram of the meteorological wind speed versus direction data that has been collected for the years 2016 - 2020.

AERMET wind speed threshold for surface data is 0.5 meters per second.

Santa Teresa Airport 2016-2020 data was used for upper air.

Since the meteorological input data does not include turbulence data, the adjust U* option in AERMET was used during processing of the meteorological data.

AERMET/AERMOD requires that several additional parameters be input during data processing in AERMET:

- Surface roughness length (m)
- Albedo
- Bowen Ratio

The surface roughness length influences the surface shear stress and is an important factor in determining the magnitude of mechanical turbulence and the stability of the boundary layer. The albedo is the fraction of total incident solar radiation reflected by the surface back to space without absorption. The daytime Bowen ratio, an indicator of surface moisture, is the ratio of sensible heat flux to latent heat flux and, together with albedo and other meteorological observations, is used for determining planetary boundary layer parameters for convective conditions driven by the surface sensible heat flux.

These parameters would be obtained using AERSURFACE (*Version 20060*). AERSURFACE requires the input of land cover data from the U.S. Geological Survey (USGS) National Land Cover Data (NLCD) 2016 archives, which it uses to determine the land cover types for the Alamogordo airport-specified location. AERSURFACE matches the 2016 NLCD land cover categories to seasonal values of albedo, Bowen ratio, and surface roughness. Values of surface characteristics are calculated based on the land cover data for the study area and output in a format for input into AERMET Stage 3.

Site descriptive questions required by AERSURFACE include:

- Meteorological data from airport
- Continuous snowcover for a month in winter
- Arid climate
- Dry climate

For the Holloman AFB meteorological data, YES was checked for airport data, NO was checked for continuous snowcover in winter, YES was checked for arid climate, and YES was checked for dry climate. For each parameter, data was extracted from land cover data for each month of the year and 12 equal sectors radiating from the Alamogordo Airport.

The meteorological data was processed using AERMET (*Version 19191)* and upper air from Santa Teresa Airport for the same time period. The upper air and surface data are considered to be representative and comparable with both the Holloman AFB and Roper Construction's Alto CBP site. The Holloman AFB meteorological data files, Santa Teresa upper air files, and Holloman AFB surface air file are submitted to the NMED-AQB Modeling Section for review with this modeling protocol.

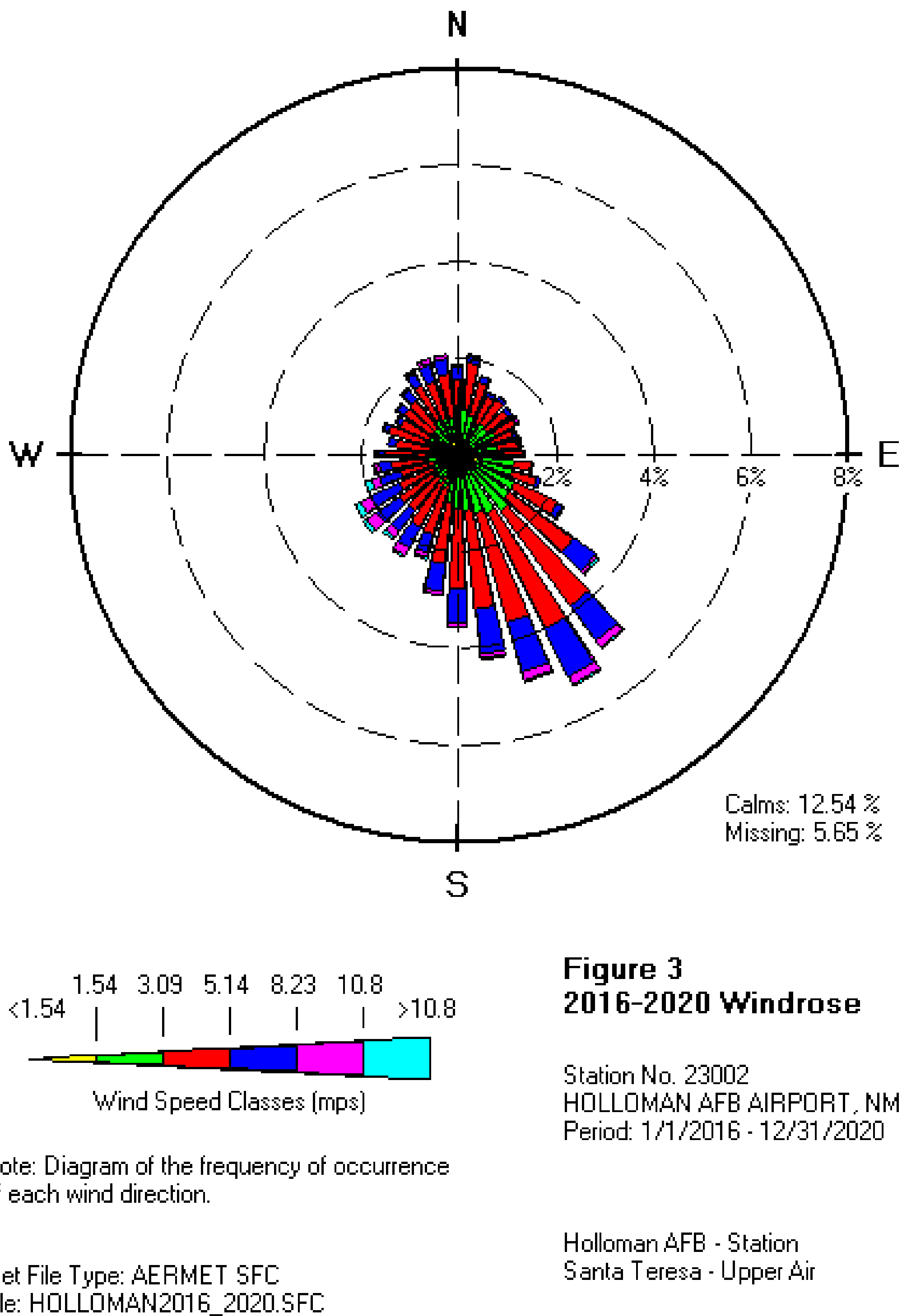

Figure 3: Wind Rose Holloman AFB Meteorological Data 2016-2020

2.4 RECEPTORS AND TOPOGRAPHY

For each pollutant, the radius of significant impact around the facility is established using a Cartesian grid. A 25-meter grid spacing is used for the facility boundary receptors. A 50-meter spacing and 100-meter spacing are extended to 500-meters and 1-km beyond the facility boundary, respectively from the facility boundary in each direction for a very fine grid resolution. Receptors for a fine grid resolution are placed with 250-meter spacing to a distance of 3-km from the facility boundary.

Receptors for PSD Class I modeling will include the boundary and interior area of White Mountain Wilderness Area. The receptor spacing in the White Mountain Wilderness Area boundary is 100 meters and the interior area is 250 meters. Since the further away from the source the plume will disperse, the receptor grid only extends 7 kilometers from the wilderness areas east boundary.

AERMAP (*Version 18081*) will be used to calculate the receptor elevations and the controlling hill heights. Terrain files for the area will be obtained from the National Elevation Data (NED). The AERMAP domain will be large enough to encompass the 10 percent slope factor required for calculating the controlling hill height.

2.5 MODELED EMISSION SOURCES INPUTS

Alto CBP operates 7 days per week and 52 weeks per year or 365 days per year. Requested hours of operation for each plant are discussed in Section 1.1. Based on modeling experience, early morning and late afternoon hours with low wind speeds are typically determined to represent the highest modeled hourly concentrations for low release fugitive emission sources.

2.5.1 Alto CBP Road Vehicle Traffic Model Inputs

The access road fugitive dust for truck traffic is modeled as a line of volume sources. The AQB's approved procedure for Modeling Haul Roads was followed to develop modeling input parameters for access haul roads. Volume source characterization followed the steps described in the Air Quality Bureau's Guidelines Tables 28 and 29.

2.5.2 Alto CBP Material Handling Volume Source Model Inputs

Material handling and processing for the CBP plant will follow the procedure found in AQB's Modeling Guidelines for Fugitive Equipment Sources (Section 5.3.2, Table 27).

2.5.3 Alto CBP Point Source Model Inputs

Model input parameters are based on release height, release diameter, release velocity or flow rate, and release temperature. For exhaust releases at ambient temperature, the modeled temperature input will be zero Kelvin. For horizontal or raincap releases, the AERMOD option for horizontal and raincap releases will be used with actual release parameters.

2.6 PARTICLE SIZE DISTRIBUTION

PM_{10} emissions may be modeled using plume depletion. Plume deposition simulates the effect of gravity as particles "fall-out" from the plume to the ground as the plume travels downwind. Therefore, the farther the plume travels from the emission point to the receptor, the greater the effect of plume deposition and the greater the decrease in modeled impacts or concentrations. Particle size distribution, particle mass fraction, and particle density are required inputs to the model to perform this function.

The particle size distribution data used in the modeling for material handling of aggregate will be based upon data obtained from the City of Albuquerque AQB's "Air Dispersion Modeling Guidelines for Air Quality Permitting", revised 02/03/2016, Table 1. Particle size distribution for fugitive road dust on unpaved roads; lime silo baghouse exhaust; CBP asphalt particulate emissions; and combustion will use the particle size distribution found in the NMED Modeling Section approved values.

The mass-mean particle diameters were calculated using the formula:

$$d = ((d^3_1 + d^2_1 d_2 + d_1 d^2_2 + d^3_2) / 4)^{1/3}$$

Where: d = mass-mean particle diameter
d_1 = low end of particle size category range
d_2 = high end of particle size category range

Representative average particle densities were obtained from NMED accepted values.

Material	Density (g/cm^3)	Reference
Road Dust – Roper Construction	2.5	NMED Value
Cement – Roper Construction	3.3	NMED Value
Fly Ash – Roper Construction	1.04	NMED Value
Combustion – Roper Construction and Neighbor	1.5	NMED Value
Fugitive Dust – Roper Construction and Neighbor	2.5	NMED Value

The densities and size distribution for PM_{10} emission sources are presented in Tables 6 - 10.

TABLE 6: Unpaved Road Vehicle Fugitive Dust Depletion Parameters

Particle Size Category (µm)	Mass Mean Particle Diameter (µm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0 – 2.5	1.57	25.0	2.5
2.5 – 10	6.91	75.0	2.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 7: Cement Baghouse Source Depletion Parameters

Particle Size Category (µm)	Mass Mean Particle Diameter (µm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0-2.5	1.57	25	3.3
2.5-10	6.91	75	3.3

Parameters based on baghouse exhaust capture percentages.

TABLE 8: Fly Ash Baghouse Source Depletion Parameters

Particle Size Category (µm)	Mass Mean Particle Diameter (µm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0-2.5	1.57	25	3.3
2.5-10	6.91	75	3.3

Parameters based on baghouse exhaust capture percentages

TABLE 9: Combustion Source Depletion Parameters

Particle Size Category (µm)	Mass Mean Particle Diameter (µm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
0 - 2.5	1.57	100	1.5

Based on NMED Particle Size Distribution Spreadsheet – April 25, 2007

TABLE 10: Fugitive Dust Source Depletion Parameters

Particle Size Category (μm)	Mass Mean Particle Diameter (μm)	Mass Weighted Size Distribution (%)	Density (g/cm^3)
PM10			
2.5 – 5	3.88	22.6	2.5
5 – 10	7.77	77.4	2.5

Parameters based on values from the Albuquerque Air Quality Division Modeling Guidelines.

2.7 NO_2 DISPERSION MODELING ANALYSIS

The AERMOD model predicts ground-level concentrations of any generic pollutant without chemical transformations. Thus, the modeled NO_X emission rate will give ground-level modeled concentrations of NO_X. NAAQS and NMAAQS values are presented as NO_2. If modeling shows exceedance with the NO_2 1-hour and annual SILs, CIA modeling will be performed.

EPA has a three-tier approach to modeling NO_2 concentrations.

- Tier I – total conversion, or all NOx = NO_2
- Tier II – Ambient Ratio Method 2
- Tier III – case-by-case detailed screening methods, such as OLM (Ozone Limiting Method) and Plume Volume Molar Ratio Method (PVMRM)

For the ROI NO_2 modeling approach, the Tier II ARM2 will be used.

Tier III NO_2 modeling approach, OLM or PVMRM, considers the basic chemical assumptions, the titration of NO by ozone to form NO_2. Both use the NO_2/NO_X in-stack ratio (ISR) and information about the ambient ozone in the determination of the amount of titration that will occur in the plume. The primary difference between the two methods is the way in which the amount of ozone available for conversion of NO to NO_2 is determined. OLM assumes that all the ambient ozone is available for NO titration (i.e., instantaneous complete mixing with background air), regardless of the source or plume characteristics. In contrast, PVMRM determines the amount of ozone within the plume volume (computed from the source to the receptor) and limits the conversion of NO to NO_2 based on the ozone entrained in the plume. The calculation of the plume volume is done for an individual source or group of sources and on an hourly basis for each source/receptor combination, taking into account the plume dispersion for that hour. For this modeling analysis, if the Tier III methodology is required, PVMRM will be selected.

For PVMRM, three inputs can be selected in the model, the ISR, the NO_2/NO_X equilibrium ratio for the ambient air, and the ambient ozone concentration. The ISR will be determined for each source or group of sources. The NO_2/NO_X equilibrium ratio will be the EPA default of 0.90.

Ozone input will be from monitored ozone data collected from the Carlsbad monitoring station (Monitoring Station 5ZR) which is the monitoring site nearest to the project (150.5 μg/m^3).

For heater natural gas, to be conservative, the EPA default ISR of 0.50 will be used. Table 11 summarizes the ISR selected for each NO_X source in the NO_2 1-hour modeling.

TABLE 11: Summary of Selected ISR

Source Description	Selected ISR
Roper Construction CBP Hot Water Heater	0.50

2.8 $PM_{2.5}$ SECONDARY EMISSIONS MODELING

Particulate matter includes both "primary" PM, which is directly emitted into the air, and "secondary" PM, which forms indirectly from fuel combustion and other sources. Primary PM consists of carbon (soot)—emitted from cars, trucks, heavy equipment, forest fires, and burning waste—and crustal material from unpaved roads, stone crushing, construction sites, and metallurgical operations. Secondary PM forms in the atmosphere from gases. Some of these reactions require sunlight and/or water vapor. Secondary PM includes:

- Sulfates formed from sulfur dioxide emissions from power plants and industrial facilities;
- Nitrates formed from nitrogen oxide emissions from cars, trucks, industrial facilities, and power plants; and
- Carbon formed from reactive organic gas emissions from cars, trucks, industrial facilities, forest fires, and biogenic sources such as trees.

AERMOD does not account for secondary formation of $PM_{2.5}$ for near-field modeling. Any secondary contribution of the Roper Construction's source emissions is not explicitly accounted for in the model results. While representative background monitoring data for $PM_{2.5}$ should adequately account for secondary contribution from existing background sources, the Roper Construction assessment of their potential contribution to cumulative impacts as secondary $PM_{2.5}$ was performed based on guidance from the NMED Modeling Section. Total permit modification Roper Construction emissions of precursors include:

- Nitrogen Oxides (NO_X) – 0.28 tons per year (below SER)
- Sulfur Dioxides (SO_2) – 0.0030 tons per year (below SER)
- Volatile Organic Carbon (VOC) – 0.031 tons per year (below SER).
- $PM_{2.5}$ – 0.37 tons per year (below SER)

$PM_{2.5}$ secondary emission concentration analysis will follow EPA and NMED AQB guidelines. Since all pollutants involved in secondary PM conversion are below SER, no secondary emission analysis will be included in the $PM_{2.5}$ modeling analysis.

2.9 SIGNIFICANT NEIGHBORING BACKGROUND SOURCES

For all Cumulative Impact Analysis (CIA) combustion emissions dispersion modeling (NO_X, CO, SO_2), only monitored background will be included. For all CIA combustion emissions dispersion modeling for 1-hour standards (NO_X, SO_2), will include only neighboring sources. CIA particulate dispersion modeling will include all significant neighboring sources within 10 kilometers of Alto CBP plus regional monitored background. PSD Increment Analysis dispersion modeling will include all PSD increment consuming neighboring sources within 25 kilometers and increment consuming neighboring sources with pollutant emission rates over 1000 lbs/hr out to 50 kilometers of Alto CBP. These sources will be obtained from the Air Quality Bureau's database. Neighboring sources located within the model receptor grid will have the input data verified for accuracy of location, emission rates, and model inputs parameters.

2.10 REGIONAL BACKGROUND CONCENTRATIONS

Ambient background concentrations represent the contribution of pollutant sources that are not included in the modeling analysis, including naturally occurring sources. If the modeled concentration of a criteria pollutant is above the modeling significance level, the background concentration for each criteria pollutant will be added to the maximum modeled concentration to calculate the total estimated pollutant concentration for comparison with the AAQS.

The ambient background concentrations are listed in the Air Quality Bureau Guidelines for NO_2, CO, SO_2, PM_{10}, and $PM_{2.5}$. For $PM_{2.5}$, Roper Construction is proposing using backgrounds from Las Cruces District Office (Monitor ID 6Q). For PM_{10}, Roper Construction is proposing using backgrounds from Las Cruces City Well #46 (Monitor ID 6WM). For SO_2, Roper Construction is proposing using backgrounds from Bloomfield (Monitor ID 1ZB). For NO_2, Roper Construction is proposing using backgrounds from Carlsbad (Monitor ID 5ZR). For CO, Roper Construction is proposing using backgrounds from the rest of New Mexico (Monitor ID 350010023).

	$PM_{2.5}$ (μg/m^3)	PM_{10} (μg/m^3)	NO_2 (μg/m^3)	CO (μg/m^3)	SO_2 (μg/m^3)
1 Hour			38.7	2203	8.84
8 Hour				1524	
24 Hour	14.9	94.7			
Annual	5.1		5.0		

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

To show compliance with existing NSR permits conditions, you must submit a compliance test history. The table below provides an example.

This is a new construction permit with no existing compliance history.

Section 20

Other Relevant Information

<u>Other relevant information</u>. Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field. Include any additional text, tables, calculations or clarifying information.

Additionally, the applicant may propose specific permit language for AQB consideration. In the case of a revision to an existing permit, the applicant should provide the old language and the new language in track changes format to highlight the proposed changes. If proposing language for a new facility or language for a new unit, submit the proposed operating condition(s), along with the associated monitoring, recordkeeping, and reporting conditions. In either case, please limit the proposed language to the affected portion of the permit.

No other relevant information is submitted with the application.

Section 22: Certification

Company Name: Roper Construction, Inc.

I, Ryan Roper, 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 14 day of June, 2021, upon my oath or affirmation, before a notary of the State of New Mexico.

*Signature

Date 6. 14. 2021

Ryan Roper
Printed Name

President
Title

Scribed and sworn before me on this 14 day of June, 2021.

My authorization as a notary of the State of New Mexico expires on the 22nd day of January, 2022.

Notary's Signature

Date 6/14/2021

Jana Lewis
Notary's Printed Name

OFFICIAL SEAL
JANA LEWIS
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 1-22-2022

*For Title V applications, the signature must be of the Responsible Official as defined in 20.2.70.7.AE NMAC.

MONTROSE
AIR QUALITY SERVICES

June 18, 2021

New Mexico Environment Department
Air Quality Bureau
Permitting Section
525 Camino de los Marquez, Suite 1
Santa Fe, New Mexico 87505

Subject: Roper Construction, Inc. – NSR Permit Application for Alto CBP

Dear Ms. Romero:

Attached please find two (2) hardcopies and three (3) electronic (DVD) copies of the 20.2.72 NMAC NSR Permit Application Roper Construction's Alto CBP. This letter is attached to the application copy that has the original notarized signature page (Section 22) and $500 application fee.

The application is submitted for Roper Construction's Alto CBP that will consist of a 125 cubic yard per hour concrete batch plant. Along with the application is the dispersion modeling analysis that shows the facility will not cause an exceedance of any applicable ambient air quality standard or PSD Class I and II Increment.

Please let me know if you have any questions or need additional information.

Sincerely,

Paul Wade

Paul Wade
Sr. Engineer
Montrose Air Quality Services, LLC

Cc: Ryan Roper, Roper Construction, Inc.

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