COPY

Permit Tracking Coversheet

Date Received: 9/10/12

Supervisor

Facility AI Name ☐ Tempo Name OK ☐ Application Name OK ☐ Use name specified below:

Ruidoso Sand and Gravel – Rio Bonita Aggregate

Company Name ☐ Tempo Name OK ☐ Application Name OK ☐ Old Application

Ruidoso Sand and Gravel

☐ New AI
☐ Existing AI

☐ Existing Airs #: 35-027-0290

AI #:

Permit #: 4868

Activity Type (Graybar)[1]: NSR - New

☐ Relo. update physical location

AI Type:
☐ No change

Assigned To: Sam

User Group: ☐ NPR ☐ NOI ☐ NOE ☐ NSR ☐ GCP ☐ TV ☐ TV-Acid Rain ☐ AQB QGF

Add Info: ☐ Small Business ☐ Update User Group in MF

Initials: KC
Date: 9/10/12

Data Steward

☐ Permittee & consultant info updated?

☐ Outstanding Invoice? ☐ Yes ☐ No

PRN or PRT #:

WAL Updated: ☐ Staff Assigned ☐ Appl. 'Received Date'

☐ If received full payment, create Tempo assessment for prepaid (in full) NOI ($500), Streamline & GCP ($3760, SB $1880), & Relocations ($376, SB $188)

☐ NSR Filling Fee $500.00, Invoice ID _____

Initials:

Date:

Admin Staff (2 days)

☐ Nothing ☐ NOI & NPR: label CD(s) & put in plastic insert & attach to application ☐ Folder & Insert ☐ Insert only ☐ Relocation Insert
☐ Green ☐ Tan ☐ Red ☐ Pink ☐ Blue ☐ Purple ☐ Yellow ☐ Orange

Initials: Date:

Permit Specialist

☐ Provided modeling application & CD to modeling manager.

My current plan is to have emissions reviewed by:

Requested date for modeling to be complete:

Permit due date:

Initials: Date:

Permit Specialist

☐ Master Entities Refreshed?

☐ Requested invoice due date: _____

Initials: Date:

Permit Specialist

For NSR actions, if Withdrawn or Denied: Take to Data Steward to discuss balance due and invoicing options.

Initials: Date:

Data Steward (NSR Only)

☐ Created Permitting Balance Due Invoice

☐ Return Invoice to Permit Staff

Initials:

Date:

P. Specialist

☐ Refresh Master Entities and Lock & Set Effective Dates

Initials: Date:

Notes:

[1] **Change in Graybar:** Any change in graybar may affect due dates & must be approved by management.

20.2.72 NMAC
AIR QUALITY PERMIT
APPLICATION

For

RUIDOSO SAND & GRAVEL
a Division of Southwest Paving and Grading, Inc.

Rio Bonita Aggregate
NSR Permit Application

Angus, NM

PREPARED BY
CLASS ONE TECHNICAL SERVICES
ALBUQUERQUE, NM
SEPTEMBER 2012

Mail Application To:		**For Department use only:**
New Mexico Environment Department Air Quality Bureau Permitting Section 1301 Siler Road, Building B Santa Fe, NM 87507-3113 Phone: (505) 476-4300 Fax: (505) 476-4375 www.nmenv.state.nm.us/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. For NOI applications, submit the entire UA1, UA2, and UA3 applications on a single CD (no copies are needed). For NOIs, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. Use this application for streamline permits as well.

This application is being 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: ☒ Not Constructed ☐ Existing Permitted (or NOI) Facility ☐ Existing Non-permitted (or NOI) Facility

Minor Source: ☐ a NOI 20.2.73 NMAC ☒ 20.2.72 NMAC application/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: ☒ I acknowledge that a pre-application meeting is available to me upon request ☐ NPR (no fee)

☒ $500 NSR Permit Filing Fee enclosed OR ☐ The full permit fee associated with 10 fee points (required w/ streamline applications).

☒ Check No.: 5105 in the amount of 500.00 (Fee not required for Title V) ☐ This facility meets the applicable requirements to register as a Small Business and a check for 50% of the normal fee is enclosed (only applicable **provided** that NMED has a Small Business Certification Form from your company on file found at: http://www.nmenv.state.nm.us/aqb/permit/app_form.html).

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

Synthetic Minor Source Information: A source is synthetic minor if its uncontrolled emissions are above major source applicability thresholds, but the facility is minor because it has federally enforceable requirements (federal requirements or permit conditions) that limit controlled emissions below major source thresholds. Facilities can be synthetic minor for either Title V (20.2.70 NMAC) or PSD (20.2.74 NMAC) or both. The Department tracks synthetic minor sources that are within 20% of either TV or PSD major source thresholds, referring to these as Synthetic Minor 80 Sources (abbreviated SM80). Please check all that apply:

Prior to this permitting action this source is a ☐ TV major source, ☐ a TV synthetic minor source, ☒ a TV SM80 source.

Prior to this permitting action this source is a ☐ PSD major source, ☐ a PSD synthetic minor source, ☐ a PSD SM80 source.

This permitting action results in a ☐ TV synthetic minor source and/or ☐ PSD synthetic minor source.

Section 1 – Facility Information

Section 1-A: Company Information

		AI # (if known):	Updating permit #:
1	Facility Name: Rio Bonita Aggregate	Plant primary SIC Code (4 digits): 1429, 1442	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): 1.7 miles northeast of the intersection of Highways 37 and 48 in Angus, New Mexico in Lincoln County.		
2	Plant Operator Company Name: Ruidoso Sand & Gravel, a Division of Southwest Paving and Grading, Inc.	Phone/Fax: (505) 336-1278/(505) 336-1279	
a	Plant Operator Address: 102 Copper Ridge Rd., Hwy 48, Ruidoso, NM		
b	Plant Operator's New Mexico Corporate ID or Tax ID: 85-0416338		
3	Plant Owner(s) name(s): Paul Wood	Phone/Fax: (505) 336-1278/(505) 336-1279	

a	Plant Owner(s) Mailing Address(s): 321 Granite Dr., Ruidoso, NM 88345-7711	
4	Bill To (Company): Ruidoso Sand & Gravel	Phone/Fax: (505) 336-1278/(505) 336-1279
a	Mailing Address: 321 Granite Dr., Ruidoso, NM 88345-7711	E-mail:dwood@nmia.com
5	☐ Preparer: ■ Consultant: Paul Wade, Class One Technical Services, Inc.	Phone/Fax: (505) 830-9680 x102/(505) 830-9678
a	Mailing Address: 3500G Comanche Rd. NE, Albuquerque, NM 87107	E-mail: pwade@classonetech.com
6	Plant Operator Contact: Paul Wood	Phone/Fax: (505) 336-1278/(505) 336-1279
a	Address: 102 Copper Ridge Rd., Hwy 48, Ruidoso, NM	E-mail:dwood@nmia.com
7	Air Permit Contact: Paul Wood	Title: Owner
a	E-mail:dwood@nmia.com	Phone/Fax: (505) 336-1278/(505) 336-1279
b	Mailing Address: 321 Granite Dr., Ruidoso, NM 88345-7711	

Section 1-B: Current Facility Status

1	Has this facility already been constructed? ☐ Yes ■ No	If yes, is it currently operating in New Mexico? ☐ Yes ■ No
2	Is the plant currently shut down? ☐ Yes ■ No	If yes, give month and year of shut down (MM/YY):
3	Was this facility constructed before 8/31/1972 and continuously operated since 1972? ☐ Yes ■ No	
4	If Yes, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? ☐Yes ☐No ■N/A	
5	Does this facility have a Title V operating permit (20.2.70 NMAC)? ☐ Yes ■ No	If yes, the permit No. is: P-
6	Has this facility been issued a No Permit Required (NPR)? ☐ Yes ■ No	If yes, the NPR No. is:
7	Has this facility been issued a Notice of Intent (NOI)? ☐ Yes ■ No	If yes, the NOI No. is:
8	Does this facility have a construction permit (20.2.72 NMAC)? ☐ Yes ■ No	If yes, the permit No. is:
9	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes ■ 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: 200 TPH based on daily average	Daily: 2000 TPD	Annually: 730,000 TPY
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: 200 TPH based on daily average	Daily: 2000 TPD	Annually: 730,000 TPY

Section 1-D: Facility Location Information

1	Section: 12	Range: 13E	Township: 10S	County: Lincoln	Elevation (ft): 6875
2	UTM Zone: ☐ 12 or ■ 13			Datum: ☐ NAD 27 ■ NAD 83 ☐ WGS 84	
a	UTM E (in meters, to nearest 10 meters): 440690			UTM N (in meters, to nearest 10 meters): 3702700	

b	**AND** Latitude (deg., min., sec.): 33°, 27', 43.4" N	Longitude (deg., min., sec.): 105°, 38', 17.9" W
3	Name and zip code of nearest New Mexico town: Angus	
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary):): From the intersection of Highways 37 and 48 in Angus, New Mexico drive north on highway 48 for 0.8 miles. Turn east on Old Bridge Road and travel 1.3 miles to site.	
5	The facility is 2 miles northeast of Angus, NM.	
6	Status of land at facility (check one): ■ 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: Capitan, Ruidoso, Ruidoso Downs, Mescalero Apache Indian, Lincoln County, Otero County	
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.nmenv.state.nm.us/aqb/modeling/class1areas.html)? ■ Yes ☐ No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: White Mountain Wilderness Area – 4.17 km	
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): 4.17 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: 0.43 miles	
12	Method(s) used to delineate the Restricted Area: Fencing with gate. "**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 indentified with signage only. Public roads cannot be part of a Restricted Area.	
13	Is this a stationary portable source as defined in 20.2.72.7.X NMAC? ■ Yes ☐ No	
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? New Permit - Aggregate Plant	

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 ($\frac{hours}{day}$): daylight	($\frac{days}{week}$): 7	($\frac{weeks}{year}$): 52	($\frac{hours}{year}$): 4500		
2	Facility's maximum daily operating schedule (if less than 24 $\frac{hours}{day}$)? Start: sunrise	■AM ☐PM	End: sunset	☐AM ■PM		
3	Month and year of anticipated start of construction: Upon Permit Issuance					
4	Month and year of anticipated construction completion: Upon Permit Issuance					
5	Month and year of anticipated startup of new or modified facility: Upon Permit Issuance					
6	Will this facility operate at this site for more than one year? ■ 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 ■ 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 ☐ 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 being submitted with this application? ■ 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 ☒ No
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? ☐ 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** ☐ **Minor** (☒ <10 tpy of any single HAP **AND** ☐ <25 tpy of any combination of HAPS)
b	If 4.a is Yes, indentify the subparts in 40 CFR 61 & 40 CFR 63 that apply to this facility (If no subparts apply, enter "N/A."):

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." ☒ N/A (This is not a Streamline application.)

Section 1-H: Title V Specific Information

(Fill this section out only if this is a Title V application.)

1	Responsible Official (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. If 'head-to-toe printing' is not possible, print single sided. 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.

2) If the application is for a NSR or Title V permitting action, include one working hard **copy** for Department use. This copy does not need to be 2-hole punched. Technical revisions only need to fill out Section 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical revision. TV Minor Modifications need only fill out Section 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 on compact disk(s) (CD). For 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.

4) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver OR** one additional electronic copy of the air dispersion modeling including the input and output files. The dispersion modeling ***summary report only*** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau. The complete dispersion modeling study, including all input/output files, should be submitted electronically as part of the electronic submittal.

5) If subject to PSD review under 20.2.74 NMAC (PSD) include,
   a. one additional hard copy and one additional CD copy for US EPA,
   b. one additional hard copy and one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
   c. one additional hard copy and one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

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

1) All required electronic documents shall be submitted in duplicate (2 separate CDs). 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 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 with the number of additional hard copies corresponding to the number of CD copies required. 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 3 electronic files (2 MSWord docs: Universal Application section 1 and Universal Application section 3-19) and 1 Excel file of the tables (Universal Application section 2) on the CD(s). 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 # (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. The footer information should not be modified by the applicant.

Table of Contents

Section 16: Air Dispersion Modeling
Section 17: Compliance Test History
Section 18: Addendum for Streamline Applications (streamline applications only)
Section 19: Requirements for the Title V (20.2.70 NMAC) Program (Title V applications only)
Section 20: Other Relevant Information
Section 21: Addendum for Landfill Applications
Section 22: Green House Gas Applicability
Section 23: Certification Page

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	Manufacturer	Model #	Serial #	Maximum or Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture or Reconstruction[2] / Date of Installation /Construction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	Applicable State & Federal Regulation(s) (i.e. 20.2.X, JJJJ, …)	Replacing Unit No.
RAW	Quarry/Raw Material	TBD	TBD	TBD	200 TPH	200 TPH	TBD 2012	None NA	30502099	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73	
1	Grizzly Feeder	TBD	TBD	TBD	30 Yards	30 Yards	TBD 2012	None NA	30502031	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73	
2	Primary Crusher	TBD	TBD	TBD	200 TPH	200 TPH	TBD 2012	2 NA	30502001	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
3	Conveyor	TBD	TBD	TBD	600 TPH	200 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
4	Feeder (Surge Bin)	TBD	TBD	TBD	30 Yards	30 Yards	TBD 2012	None NA	30502031	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
5	Conveyor	TBD	TBD	TBD	600 TPH	200 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
6	Screen	TBD	TBD	TBD	400 TPH	320 TPH	TBD 2012	3 NA	30502015	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
7	Secondary Crusher	TBD	TBD	TBD	200 TPH	120 TPH	TBD 2012	2 NA	30502001	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
8	Conveyor	TBD	TBD	TBD	600 TPH	120 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
9	Conveyor	TBD	TBD	TBD	600 TPH	120 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
10	Conveyor	TBD	TBD	TBD	600 TPH	120 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
11	Conveyor	TBD	TBD	TBD	600 TPH	120 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
12	Conveyor	TBD	TBD	TBD	600 TPH	200 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
13	Stacker Conveyor	TBD	TBD	TBD	600 TPH	200 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
14	Conveyor	TBD	TBD	TBD	600 TPH	200 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
15	Stacker Conveyor	TBD	TBD	TBD	600 TPH	200 TPH	TBD 2012	1 NA	30502006	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	

Unit Number[1]	Source Description	Manufacturer	Model #	Serial #	Maximum or Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture or Reconstruction[2] / Date of Installation /Construction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classi-fication Code (SCC)	For Each Piece of Equipment, Check One	Applicable State & Federal Regulation(s) (i.e. 20.2.X, JJJJ, …)	Replacing Unit No.
AGGPILES	Aggregate Storage Piles	NA	NA	NA	200 TPH	200 TPH	NA 2012	4 NA	30502099	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73, 77, NSPS OOO	
TRCK	Truck Traffic	NA	NA	NA	58 Truck/Day	58 Truck/Day	NA 2012	5 NA	30502099	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73	
FPILE	Finish Storage Piles	NA	NA	NA	200 TPH	200 TPH	NA 2012	None NA	30502099	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 72, 73	
16	Diesel-Fired Plant Generator/Engine	TBD	TBD	TBD	900 HP	900 HP	TBD 2012	None 1	30502099	☐ Existing (unchanged) ☐ To be Removed X New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	20.2.3, 7, 61, 72, 73. NSPS IIII, NESHAP ZZZZ	

[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.

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.nmenv.state.nm.us/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 http://www.nmenv.state.nm.us/aqb/forms/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.	Max Capacity	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5)	Date of Manufacture /Reconstruction[2]	For Each Piece of Equipment, Check Onc
			Serial No.	Capacity Units	Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Installation /Construction[2]	
T1	Diesel Fuel Tank	TBD	TBD	10,000	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	2012	
							☐ 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
							☐ 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

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[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
1	Wet Dust Suppression System	TBD	PM	3,5,8,9,10,11,12,13,14,15	95.33%	AP-42 11.19.2
2	Wet Dust Suppression System	TBD	PM	2,7	77.78%	AP-42 11.19.2
3	Wet Dust Suppression System	TBD	PM	6	91.20%	AP-42 11.19.2
4	Moisture Carryover	TBD	PM	AGGPILES	60.00%	2.88% Moisture
5	Base Course and Watering	TBD	PM	TRCK	80.00%	NMED Policy

[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. For each unit with flashing, list tank-flashing emissions estimates as a separate line item (20.2.70.300.D.5 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.B.6, & 20.2.74.301 NMAC). Fill all cells in this tablewith the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed with a minimum of two significant figures[1] If there are any significant figures to the left of a decimal point, there shall be no more than one significant figure to the right of the decimal point.

Unit No.	NOx		CO		VOC		SOx		TSP[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
RAW	-	-	-	-	-	-	-	-	1.3	4.0	0.62	1.9	0.095	0.29	-	-	-	-
1	-	-	-	-	-	-	-	-	1.3	4.0	0.62	1.9	0.095	0.29	-	-	-	-
2	-	-	-	-	-	-	-	-	1.1	4.7	0.48	2.1	0.073	0.32	-	-	-	-
3	-	-	-	-	-	-	-	-	0.60	2.6	0.22	0.96	0.033	0.15	-	-	-	-
4	-	-	-	-	-	-	-	-	1.3	4.0	0.62	1.9	0.095	0.29	-	-	-	-
5	-	-	-	-	-	-	-	-	0.60	2.6	0.22	0.96	0.033	0.15	-	-	-	-
6	-	-	-	-	-	-	-	-	8.0	35	2.8	12	0.42	1.8	-	-	-	-
7	-	-	-	-	-	-	-	-	0.65	2.8	0.29	1.3	0.044	0.19	-	-	-	-
8	-	-	-	-	-	-	-	-	0.36	1.6	0.13	0.58	0.020	0.088	-	-	-	-
9	-	-	-	-	-	-	-	-	0.36	1.6	0.13	0.58	0.020	0.088	-	-	-	-
10	-	-	-	-	-	-	-	-	0.36	1.6	0.13	0.58	0.020	0.088	-	-	-	-
11	-	-	-	-	-	-	-	-	0.36	1.6	0.13	0.58	0.020	0.088	-	-	-	-
12	-	-	-	-	-	-	-	-	0.60	2.6	0.22	0.96	0.033	0.15	-	-	-	-
13	-	-	-	-	-	-	-	-	0.60	2.6	0.22	0.96	0.033	0.15	-	-	-	-
14	-	-	-	-	-	-	-	-	0.60	2.6	0.22	0.96	0.033	0.15	-	-	-	-
15	-	-	-	-	-	-	-	-	0.60	2.6	0.22	0.96	0.033	0.15	-	-	-	-
AGGPILES	-	-	-	-	-	-	-	-	1.3	4.0	0.62	1.9	0.095	0.29	-	-	-	-
TRCK	-	-	-	-	-	-	-	-	20	70	5.1	18	0.51	1.8	-	-	-	-
FPILES	-	-	-	-	-	-	-	-	1.3	4.0	0.62	1.9	0.095	0.29	-	-	-	-
16	22	95	9.9	43	0.63	2.8	0.33	1.5	0.63	2.8	0.63	2.8	0.63	2.8	-	-	5.5E-05	0.00024
Totals	22	95	9.9	43	0.63	2.8	0.33	1.5	42	158	14	54	2.4	10			5.5E-05	0.00024

[1] **Significant Figures Examples:** One significant figure – 0.03, 3, 0.3. Two significant figures – 0.34, 34, 3400, 3.4

[2] **Condensables:** Include condensable particulate matter emissions in particulate matter calculations.

Table 2-E: Requested Allowable Emissions

Unit & stack numbering must be consistent throughout the application package. For each unit with flashing, list tank-flashing emissions estimates as a separate line item (20.2.70.300.D.5 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.B.6, & 20.2.74.301 NMAC). Fill all cells in this tablewith the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed with a minimum of two significant figures[1]. If there are any significant figures to the left of a decimal point, there shall be no more than one significant figure to the right of the decimal point. Please do not change the column widths on this table.

Unit No.	NOx		CO		VOC		SOx		TSP[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
RAW	-	-	-	-	-	-	-	-	1.3	1.6	0.62	0.74	0.095	0.11	-	-	-	-
1	-	-	-	-	-	-	-	-	1.3	1.6	0.62	0.74	0.094	0.11	-	-	-	-
2	-	-	-	-	-	-	-	-	0.24	0.41	0.11	0.18	0.020	0.034	-	-	-	-
3	-	-	-	-	-	-	-	-	0.028	0.048	0.0092	0.016	0.0026	0.0044	-	-	-	-
4	-	-	-	-	-	-	-	-	1.3	1.6	0.62	0.74	0.095	0.11	-	-	-	-
5	-	-	-	-	-	-	-	-	0.028	0.048	0.0092	0.016	0.0026	0.0044	-	-	-	-
6	-	-	-	-	-	-	-	-	0.70	1.2	0.24	0.40	0.016	0.027	-	-	-	-
7	-	-	-	-	-	-	-	-	0.14	0.24	0.065	0.11	0.012	0.020	-	-	-	-
8	-	-	-	-	-	-	-	-	0.017	0.029	0.0055	0.0094	0.0016	0.0027	-	-	-	-
9	-	-	-	-	-	-	-	-	0.017	0.029	0.0055	0.0094	0.0016	0.0027	-	-	-	-
10	-	-	-	-	-	-	-	-	0.017	0.029	0.0055	0.0094	0.0016	0.0027	-	-	-	-
11	-	-	-	-	-	-	-	-	0.017	0.029	0.0055	0.0094	0.0016	0.0027	-	-	-	-
12	-	-	-	-	-	-	-	-	0.028	0.048	0.0092	0.016	0.0026	0.0044	-	-	-	-
13	-	-	-	-	-	-	-	-	0.028	0.048	0.0092	0.016	0.0026	0.0044	-	-	-	-
14	-	-	-	-	-	-	-	-	0.028	0.048	0.0092	0.016	0.0026	0.0044	-	-	-	-
15	-	-	-	-	-	-	-	-	0.028	0.048	0.0092	0.016	0.0026	0.0044	-	-	-	-
AGGPILES	-	-	-	-	-	-	-	-	0.79	0.93	0.37	0.44	0.057	0.067	-	-	-	-
TRCK	-	-	-	-	-	-	-	-	4.0	5.4	1.0	1.4	0.10	0.14	-	-	-	-
FPILES	-	-	-	-	-	-	-	-	1.3	1.6	0.62	0.74	0.095	0.11	-	-	-	-
16	22	37	9.9	17	0.63	1.1	0.33	0.57	0.63	1.1	0.63	1.1	0.63	1.1	-	-	5.5E-05	9.3E-05
Totals	22	37	9.9	17	0.63	1.1	0.33	0.57	12	16	5.0	6.7	1.2	1.8			5.5E-05	9.3E-05

[1] **Significant Figures Examples**: One significant figure – 0.03, 3, 0.3. Two significant figures – 0.34, 34, 3400, 3.4

[2] **Condensables:** Include condensable particulate matter emissions in particulate matter calculations.

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

X This table is intentionally left blank as all SSM emissions at this facility do not require an increase in Requested Allowables greater than those listed in Table 2-E. If you are required to report GHG emissions as described in Section 21, include any GHG emissions due Startup, Shutdown, and/or Scheduled Maintenance in Table 2-P. Provide explanation in Section 6.

All applications, including NOI applications, must fill out this table, reporting Maximum Emissions during Startup, Shutdown and Scheduled Maintenance (20.2.7 NMAC, 20.2.72.203.A.3 NMAC, 20.2.73.200.D.2 NMAC). Only report SSM emissions greater than the cooresponding Table 2-E emissions[1]. Not providing emissions for a unit indicates that SSM emissions for this unit are less than the Requested Allowables for that unit in Table 2-E. In Section 6, provide emissions calculations for any emissions listed in this table. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.nmenv.state.nm.us/aqb/permit/app_form.html) for more detailed instructions. For each unit with flashing, list tank-flashing emissions estimates as a separate line item (20.2.72.203.A.3 and 20.2.70.300.D.5 NMAC). List all units and SSM fugitives, except GHGs, in this table. Refer to Table 2-E for instructions on use of the "-" symbol and on significant figures.

Unit No.	NOx		CO		VOC		SOx		TSP[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
NA																		
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 the table below. 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] **Condensables**: Include condensable particulate matter emissions in particulate matter calculations.

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. List tank-flashing emissions estimates as a separate line item. 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		TSP		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
NA																	
Totals:																	

Table 2-H: Stack Exit Conditions

Unit and stack numbering must correspond throughout the application package.

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 or L x W (ft)
						(acfs)	(dscfs)			
1	16	H	No	13	750	3135			150	0.67'

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
1	16	0.040	0.0052																
Totals:		0.040	0.0052																

Table 2-J: Fuel

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

Unit No.	Fuel Type (No. 2 Diesel, Natural Gas, Coal, …)	Specify Units				
		Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
16	#2 Diesel	128,000	47.6 gallons	161,840 gallons	0.05	0

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	3-05-002-98	Diesel Fuel	Diesel Fuel	7.05	130	58.54	0.0062	65.66	0.0079

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			
T1	TBD	Diesel Fuel	NA	FX	238.10	37.85	2.44	1.95	WH	WH	Good	161,840	16.18

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	680,000 Tons Per Year	Aggregate	Aggregate	Solid	680,000 Tons Per Year

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								

Section 3

Application Summary

The **Application Summary** 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 effect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

Routine or predictable emissions during Startup, Shutdown, and Maintenance (SSM): 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.nmenv.state.nm.us/aqb/permit/app_form.html) for more detailed instructions on SSM emissions.

Ruidoso Sand & Gravel, a Division of Southwest Paving and Grading, Inc., is applying for a new 20.2.72.200.A.1 NMAC Permit to operate an aggregate crushing plant within the state of New Mexico. When constructed this facility will be a stationary source which has a potential emission rate greater than 10 pounds per hour or 25 tons per year of any regulated air contaminant for which there is a National or New Mexico Ambient Air Quality Standard. The plant will be identified as Rio Bonita Aggregate. Ruidoso Sand & Gravel's Rio Bonita Aggregate will crush and size aggregate/recyclable material from quarries/stockpiles onsite. The Ruidoso Sand and Gravel's Rio Bonita Aggregate plant will consist of a quarry, storage material piles, an aggregate grizzly feeder with primary crusher, aggregate feeder (surge bin), screen/secondary crusher plant, ten (10) conveyors, two (2) stacker conveyors, and a 900 horsepower diesel-fired generator. The exact location for the proposed facility will be at latitude 33 deg, 27 min, 43.4 sec and longitude -105 deg, 38 min, 17.9 sec. The approximate location of this facility is 1.7 miles northeast of the intersection of Highways 37 and 48 in Angus, New Mexico in Lincoln County. Ruidoso Sand and Gravel's Rio Bonita Aggregate plant will be permitted to operate during daylight hours with a production limit of 1600 tons per day in the months of November through February, 2000 tons per day in the months of March through October, and 680,000 tons per year. For the Arriba Aggregate Plant, the requested annual hours of operation for the generator will be 3400 hours per year. Daily operating hours can be found in Table 3-1 below.

The Rio Bonita Aggregate plant was input into dispersion models, along with a co-located hot mix asphalt plant (proposed Ruidoso Sand & Gravel's Rio Bonita HMA) and significant neighbors, to show compliance with NAAQS, NMAAQS, and PSD Increments in the final cumulative impact analysis (CIA) modeling. Information on neighboring sources was obtained from Eric Peters of the NMED AQB Modeling Section. Neighboring source data was revised based on present information on existing neighboring sources and revised map coordinates. The neighboring source identified as "FNF New Mexico - 300 TPH Asphalt Drum Mix No1405" was purchased by Ruidoso Sand & Gravel and is the co-located HMA source in this permitting action.

Haul truck traffic entering the facility will be controlled with base course and watering. Haul truck traffic involving the Rio Bonita Aggregate plant will be limited to a maximum of 58 trucks per day and 14,600 trucks per year.

Ruidoso Sand & Gravel's Rio Bonita Aggregate is minor for Title V status and minor for PSD status. Ruidoso Sand & Gravel's Rio Bonita Aggregate is a "portable stationary source" as defined in 20.2.72.7.X. Upon relocation, Ruidoso Sand & Gravel's Rio Bonita Aggregate will be permitted to co-locate with any GCP3, GCP5, or Ruidoso Sand & Gravel's Rio Bonita HMA plant.

Table 3-1: Rio Bonita Aggregate Permitted Operating Hours - Daylight

	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	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	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	1	1	1	1	1	0.5	0	0	0
6:00 AM	0	0.5	1	1	1	1	1	1	1	1	0.5	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	0.5	1	1	1	1	1	1	1	1	1	0	0
6:00 PM	0	0	0	1	1	1	1	1	0.5	0	0	0
7:00 PM	0	0	0	0	0	0.5	0.5	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	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	10.5	11.5	12	14	14	14.5	14.5	14	13	12	10.5	10

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

No SSM emissions are proposed or submitted for this facility. For material processing equipment at the Ruidoso Sand & Gravel's Rio Bonita Aggregate, Ruidoso Sand & Gravel will follow normal industry practices in minimizing emissions during startup, shutdown, and maintenance to not exceed opacity limits and the annual emission rates submitted in Table 2-E. All control equipment and methods will be functioning correctly prior to aggregate processing. Maintenance will be performed during period with no production.

If you have any questions regarding this permit application please call Paul Wade of Class One Technical Services at (505) 830-9680 ext 102.

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.

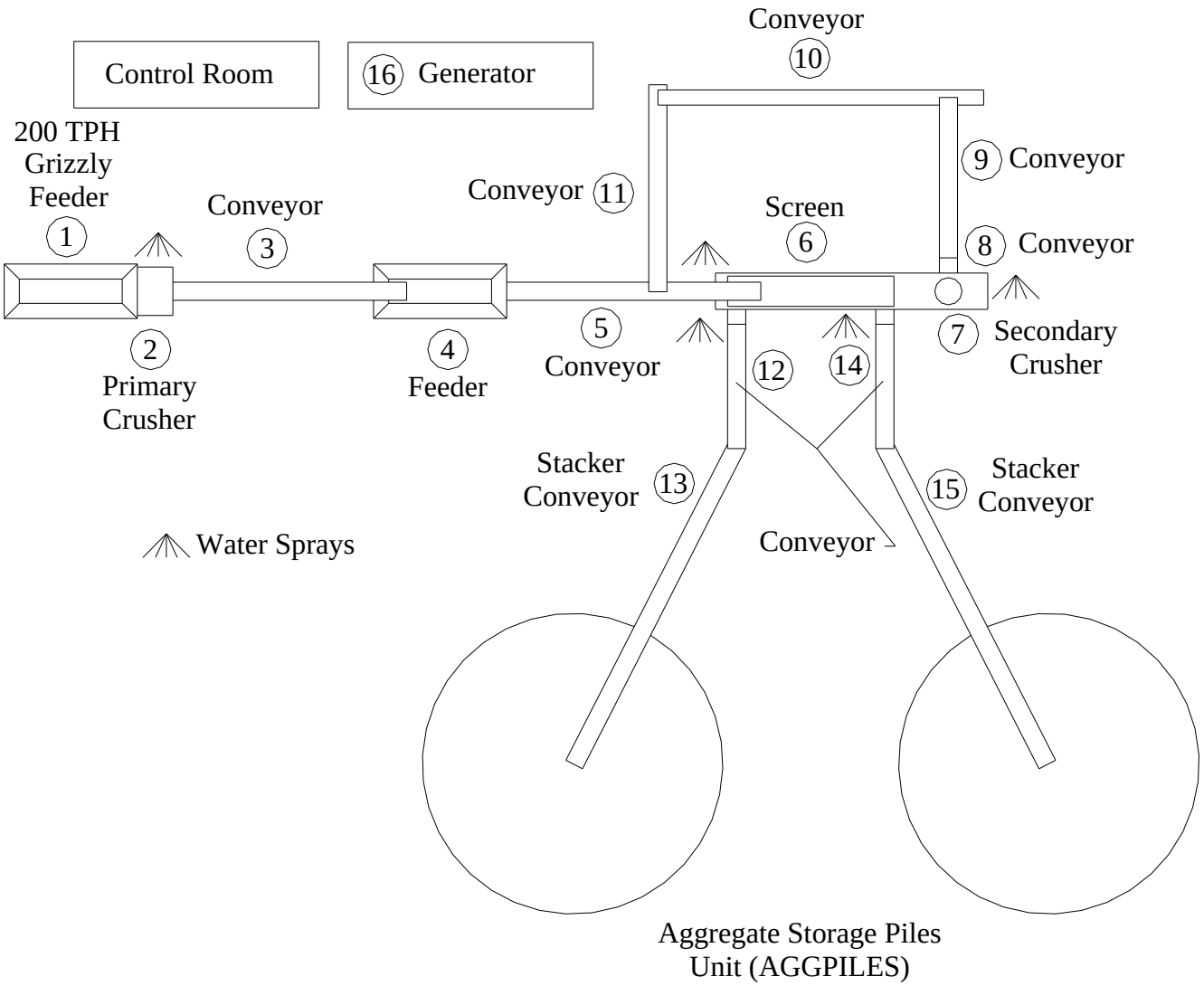


Figure 4-1: Process Flow Diagram

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.

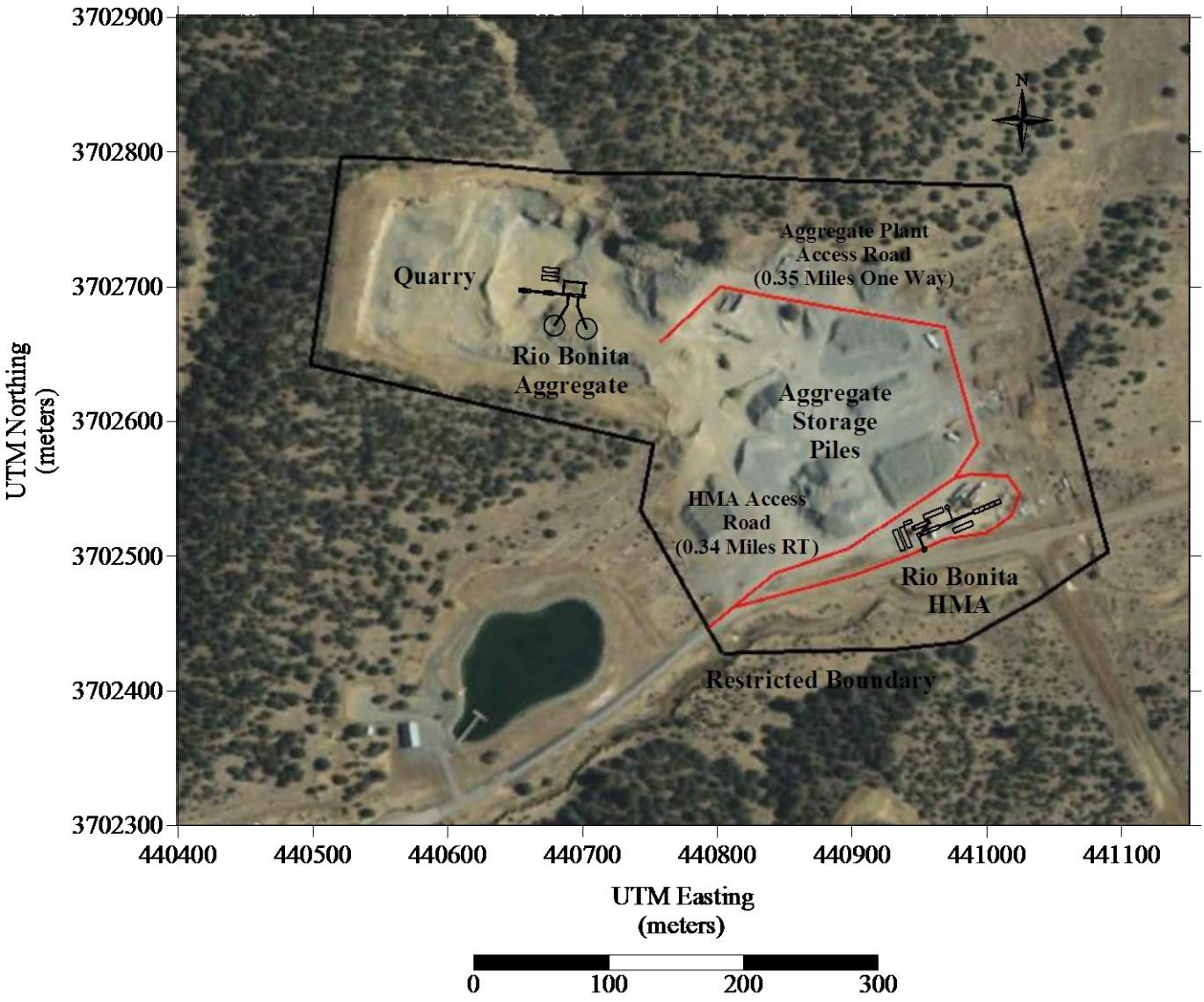


Figure 5-1: Facility Plot Plan

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.nmenv.state.nm.us/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 Allowables 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.

Pre-Control Particulate Emission Rates

Material Handling ($PM_{2.5}$, PM_{10}, and TSP)

To estimate material handling pre-control particulate emissions rates for crushing, screening, and conveyor transfer operations, emission factors were obtained from EPA's Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Aug. 2004, Section 11.19.2, Table 11.19.2-2. To determine missing $PM_{2.5}$ emission factors the ratio of 0.35/0.053 from $PM_{10}/PM_{2.5}$ *k* factors found in AP-42 Section 13.2.4 (11/2006) were used.

To estimate material handling pre-control particulate emission rates for aggregate handling operations (loading feeders, stacker conveyor drops to storage piles, material handling at storage piles), 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 (11/2004), where the k (TSP = 0.74, PM_{10} = 0.35, $PM_{2.5}$ = 0.053), wind speed for determining the maximum hourly emission rate is the NMED's recommended values of 11 mph, wind speed for determining the average annual emission rate and hourly modeled emission rate are based on the average wind speed for Ruidoso for the years of 1996 through 2006 of 8.3 mph, and NMED default moisture content of 2 percent.

All production hourly emission rates will be based on an average hourly production throughput of 200 tons per hours. Crushing equipment for this facility will have a nominal production rate of 200 tons per hour. Uncontrolled annual emissions for tons per year (tpy) were calculated assuming operation for 8760 hours per year.

Aggregate Storage Piles, Feed Bin Loading, and Stacker Conveyor Emission Equation:

Maximum 24 Hour Emission Factor

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

E_{TSP} (lbs/ton) = 0.74 x 0.0032 x $(11/5)^{1.3}$ / $(2/2)^{1.4}$

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

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

E_{TSP} (lbs/ton) = 0.00660 lbs/ton;

E_{PM10} (lbs/ton) = 0.00312 lbs/ton

$E_{PM2.5}$ (lbs/ton) = 0.00047 lbs/ton

Maximum Annual Emission Factor

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

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

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

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

E_{TSP} (lbs/ton) = 0.00458 lbs/ton;

E_{PM10} (lbs/ton) = 0.00216 lbs/ton

$E_{PM2.5}$ (lbs/ton) = 0.00033 lbs/ton

AP-42 Emission Factors:

All Crushing Sources = Uncontrolled Tertiary Crushing Emission Factor
All Screening Sources = Uncontrolled Screening Emission Factor
All Conveyor Transfers = Uncontrolled Conveyor Transfer Point Emission Factor

Material Handling Emission Factors:

Process Unit	TSP Emission Factor (lbs/ton)	PM_{10} Emission Factor (lbs/ton)	$PM_{2.5}$ Emission Factor (lbs/ton)
Uncontrolled Tertiary Crushing	0.00540	0.00240	0.00036
Uncontrolled Screening	0.02500	0.00870	0.00132
Uncontrolled Conveyor Transfer	0.00300	0.00110	0.00017
Material drop to stockpile - 24 Hour	0.00660	0.00312	0.00047
Material drop to stockpile - Annual	0.00458	0.00216	0.00033
Aggregate Handling Storage Piles – 24 hour	0.00660	0.00312	0.00047
Aggregate Handling Storage Piles – Annual	0.00458	0.00216	0.00033

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 were 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 Uncontrolled Material Processing Particulate Emission Rates

Unit #	Process Unit Description	Ave. Process Rate (tons/ hour)	TSP Emission Rate (lbs/hr)	TSP 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)
RAW	Quarry/Raw Material	200	1.3	4.0	0.62	1.9	0.095	0.29
1	Grizzly Feeder	200	1.3	4.0	0.62	1.9	0.095	0.29
2	Primary Crusher	200	1.1	4.7	0.48	2.1	0.073	0.32
3	Conveyor Transfer Point	200	0.60	2.6	0.22	0.96	0.033	0.15
4	Feeder	200	1.3	4.0	0.62	1.9	0.095	0.29
5	Conveyor Transfer Point	200	0.60	2.6	0.22	0.96	0.033	0.15
6	Screen	320	8.0	35	2.8	12	0.42	1.8
7	Secondary Crusher	120	0.65	2.8	0.29	1.3	0.044	0.19
8	Conveyor Transfer Point	120	0.36	1.6	0.13	0.58	0.020	0.088
9	Conveyor Transfer Point	120	0.36	1.6	0.13	0.58	0.020	0.088
10	Conveyor Transfer Point	120	0.36	1.6	0.13	0.58	0.020	0.088
11	Conveyor Transfer Point	120	0.36	1.6	0.13	0.58	0.020	0.088
12	Conveyor Transfer Point	200	0.60	2.6	0.22	0.96	0.033	0.15
13	Conveyor Transfer Point	200	0.60	2.6	0.22	0.96	0.033	0.15
14	Conveyor Transfer Point	200	0.60	2.6	0.22	0.96	0.033	0.15
15	Conveyor Transfer Point	200	0.60	2.6	0.22	0.96	0.033	0.15
AGGPILE	Stacker Conveyor Drop	200	1.3	4.0	0.62	1.9	0.095	0.29
FPILE	Finish Storage Pile	200	1.3	4.0	0.62	1.9	0.095	0.29
TOTALS			21	85	8.5	33	1.3	5.0

Uncontrolled Haul Truck Travel

Haul truck travel emissions were estimated using AP-42, Section 13.2.2 (ver.11/06) "Unpaved Roads" emission equation. The haul road from Highway 48 to the aggregate plant will be permitted for a maximum number of round trip haul trucks per day of 58, which is equivalent to 4 haul trucks per hour based on a 14.5 hour day. Hourly particulate emission rates entered into the model are based on the maximum daily haul truck limits and the maximum daily hours of operation. Table 6-2 summarizes the emission rate for each operating scenarios.

$$E = k * (s/12)^a * (W/3)^b * [(365 - p)/365] * VMT$$

Where k = constant PM2.5 = 0.15
PM10 = 1.5
TSP = 4.9
s = % silt content (Table 13.2.2-1, "Sand and Gravel" 4.8%)
W = mean vehicle weight (27.5 tons)
p = number of days with at least 0.01 in of precip. (NMED Policy = 70 days)
a = Constant PM2.5 = 0.9
PM10 = 0.9
TSP = 0.7
b = Constant PM2.5 = 0.45
PM10 = 0.45
TSP = 0.45
VMT = Vehicle Miles Traveled (road length = 0.70851 miles round trip)
Trucks per hour = 4

Reduction in emissions due to precipitation was only accounted for in the annual emission rate. Particulate emission rate per vehicle mile traveled for each particle size category is:

Hourly Emission Rate Factor
TSP = 6.9925 lbs/VMT
PM10 = 1.7821 lbs/VMT
PM2.5 = 0.1782 lbs/VMT

Annual Emission Rate Factor
TSP = 5.6515 lbs/annual VMT
PM10 = 1.4403 lbs/annual VMT
PM2.5 = 0.1440 lbs/annual VMT

Table 6-2: Pre-Controlled Haul Road Travel Emission Rates

Process Unit Description	Process Rate	TSP Emission Rate (lbs/hr)	TSP 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)
Haul Truck Travel	2.834 miles/hr; 24,826 miles/yr	20	70	5.1	18	0.51	1.8

Estimates for Controlled Material Handling ($PM_{2.5}$, PM_{10} and TSP)

A "Wet Suppression" system will control emissions of particulate matter during crushing and screening. 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 found in AP-42 Section 11.19.2. 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. No fugitive dust controls are proposed for loading the grizzly feeder (Unit 1), feeder (Unit 4), material handling at the quarry/raw material source (RAW) or finish storage pile (FPILE). Water sprays and/or moisture carryover will control fugitive dust for Units 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, and 15. Moisture carryover will control fugitive emissions during material transfer from conveyors to loading of the plant storage piles (estimated 2.88% soil moisture content) (AGGPILE).

To estimate material handling control particulate emissions rates for crushing, screening, and conveyor transfer operations, emission factors were obtained from EPA's Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources, Aug. 2004, Section 11.19.2, Table 11.19.2-2.

To estimate material handling control particulate emission rates for aggregate handling operations (loading feeders, stacker conveyor drops to storage piles, material handling at storage piles), 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 (11/2004), where the k (TSP = 0.74, PM_{10} = 0.35, $PM_{2.5}$ = 0.053), wind speed for determining the average annual emission rate and hourly modeled emission rate are based on the average wind speed for Ruidoso for the years of 1996 through 2006 of 8.3 mph. Moisture carryover will control fugitive emissions during material transfer from conveyors to loading of the plant storage piles (estimated 2.88% soil moisture content) (AGGPILE).

All production hourly emission rates will be based on an average hourly production throughput of 200 tons per hours. Crushing equipment for this facility will have a nominal production rate of 200 tons per hour. Permit requested daily production limits will be 1,600 for the months of November through February and 2,000 tons for the months of March through October. Permit requested annual production limits for calculated annual emission rates will be 680,000 tons per year.

Aggregate Storage Piles and Feed Bin Loading Emission Equation:

Maximum 24 Hour Emission Factor

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

E_{TSP} (lbs/ton) = 0.74 x 0.0032 x $(11/5)^{1.3}$ / $(2/2)^{1.4}$

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

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

E_{TSP} (lbs/ton) = 0.00660 lbs/ton;

E_{PM10} (lbs/ton) = 0.00312 lbs/ton

$E_{PM2.5}$ (lbs/ton) = 0.00047 lbs/ton

Maximum Annual Emission Factor

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

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

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

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

E_{TSP} (lbs/ton) = 0.00458 lbs/ton;

E_{PM10} (lbs/ton) = 0.00216 lbs/ton

$E_{PM2.5}$ (lbs/ton) = 0.00033 lbs/ton

Stacker Conveyor Emission Equation:

Maximum 24 Hour Emission Factor

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

E_{TSP} (lbs/ton) = 0.74 x 0.0032 x $(11/5)^{1.3}$ / $(2.88/2)^{1.4}$

E_{PM10} (lbs/ton) = 0.35 x 0.0032 x $(11/5)^{1.3}$ / $(2.88/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = 0.053 x 0.0032 x $(11/5)^{1.3}$ / $(2.88/2)^{1.4}$

E_{TSP} (lbs/ton) = 0.00396 lbs/ton;

E_{PM10} (lbs/ton) = 0.00187 lbs/ton

$E_{PM2.5}$ (lbs/ton) = 0.00028 lbs/ton

Maximum Annual Emission Factor

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

E_{TSP} (lbs/ton) = 0.74 x 0.0032 x $(8.3/5)^{1.3}$ / $(2.88/2)^{1.4}$

E_{PM10} (lbs/ton) = 0.35 x 0.0032 x $(8.3/5)^{1.3}$ / $(2.88/2)^{1.4}$

$E_{PM2.5}$ (lbs/ton) = 0.053 x 0.0032 x $(8.3/5)^{1.3}$ / $(2.88/2)^{1.4}$

E_{TSP} (lbs/ton) = 0.00275 lbs/ton;

E_{PM10} (lbs/ton) = 0.00130 lbs/ton

$E_{PM2.5}$ (lbs/ton) = 0.00020 lbs/ton

AP-42 Emission Factors:

All Crushing Sources = Controlled Tertiary Crushing Emission Factor

All Screening Sources = Controlled Screening Emission Factor

All Conveyor Transfers = Controlled Conveyor Transfer Point Emission Factor

Material Handling Emission Factors:

Process Unit	TSP Emission Factor (lbs/ton)	PM_{10} Emission Factor (lbs/ton)	$PM_{2.5}$ Emission Factor (lbs/ton)
Controlled Tertiary Crushing	0.00120	0.00054	0.00010
Controlled Screening	0.00220	0.00074	0.00005
Controlled Conveyor Transfer	0.00014	0.00005	0.000013
Material drop to stockpile - 24 Hour	0.00396	0.00187	0.00028
Material drop to stockpile - Annual	0.00275	0.00130	0.00020
Aggregate Handling Storage Piles – 24 hour	0.00660	0.00312	0.00047
Aggregate Handling Storage Piles – Annual	0.00458	0.00216	0.00033

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

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

Table 6-3: Controlled Material Processing Particulate Emission Rates

Unit #	Process Unit Description	Ave. Process Rate (tons/ hour)	TSP Emission Rate (lbs/hr)	TSP 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)
RAW	Quarry/Raw Material	200	1.3	1.6	0.62	0.74	0.095	0.11
1	Grizzly Feeder	200	1.3	1.6	0.62	0.74	0.095	0.11
2	Primary Crusher	200	0.24	0.41	0.11	0.18	0.020	0.034
3	Conveyor Transfer Point	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
4	Feeder	200	1.3	1.6	0.62	0.74	0.095	0.11
5	Conveyor Transfer Point	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
6	Screen	320	0.70	1.2	0.24	0.40	0.016	0.027
7	Secondary Crusher	120	0.14	0.24	0.065	0.11	0.012	0.020
8	Conveyor Transfer Point	120	0.017	0.029	0.0055	0.0094	0.0016	0.0027
9	Conveyor Transfer Point	120	0.017	0.029	0.0055	0.0094	0.0016	0.0027
10	Conveyor Transfer Point	120	0.017	0.029	0.0055	0.0094	0.0016	0.0027
11	Conveyor Transfer Point	120	0.017	0.029	0.0055	0.0094	0.0016	0.0027
12	Conveyor Transfer Point	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
13	Conveyor Transfer Point	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
14	Conveyor Transfer Point	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
15	Conveyor Transfer Point	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
AGGPILE	Stacker Conveyor Drop	200	0.79	0.93	0.37	0.44	0.057	0.067
FPILE	Finish Storage Pile	200	1.3	1.6	0.62	0.74	0.095	0.11
	TOTALS		7.4	9.4	3.4	4.2	0.50	0.63

Controlled Haul Truck Travel

Haul truck travel emissions were estimated using AP-42, Section 13.2.2 (ver.11/06) "Unpaved Roads" emission equation. Haul road fugitive dust from haul road traffic will be control by base course and watering (80% control efficiency allowed). Daily number of trucks trips will be 58. Annually the number of trucks trips will be 13,600. Table 6-4 summarizes the emission rate for each control method.

$$E = k * (s/12)^a * (W/3)^b * [(365 - p)/365] * VMT$$

Where k = constant PM2.5 = 0.15
PM10 = 1.5
TSP = 4.9
s = % silt content (Table 13.2.2-1, "Sand and Gravel" 4.8%)
W = mean vehicle weight (27.5 tons)
p = number of days with at least 0.01 in of precip. (NMED Policy = 70 days)
a = Constant PM2.5 = 0.9
PM10 = 0.9
TSP = 0.7
b = Constant PM2.5 = 0.45
PM10 = 0.45
TSP = 0.45
VMT = Vehicle Miles Traveled (road length = 0.70851 miles one way)
Trucks per hour = 4

Reduction in emissions due to precipitation was only accounted for in the annual emission rate. Particulate emission rate per vehicle mile traveled for each particle size category is:

Hourly Emission Rate Factor with Base Course and Watering 80% Control
TSP = 1.3985 lbs/VMT
PM10 = 0.3564 lbs/VMT
PM2.5 = 0.0356 lbs/VMT

Annual Emission Rate Factor with Base Course and Watering 80% Control
TSP = 1.1303 lbs/annual VMT
PM10 = 0.2881lbs/annual VMT
PM2.5 = 0.0288 lbs/annual VMT

Table 6-4: Controlled Haul Road Fugitive Dust Emission Rates

Process Unit Description	Miles per Hour	TSP Emission Rate (lbs/hr)	TSP 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)
Haul Truck Travel with Base Course and Watering	2.834 miles/hr; 9,636 miles/yr	4.0	5.4	1.0	1.4	0.10	0.14

Estimates for Diesel-Fired Generator/Engine (NO_X, CO, SO_2, VOC and PM)

Plant Generator/Engine

The aggregate plant is powered by a 900 horsepower (600 kW) generator/engine. Combustion emissions will be estimated using EPA AP-42 Section 3.4 emission limits. For carbon monoxide (CO) and safety factor of 2 was used along with the EPA AP-42 Section 3.4 emission limit to determine emission rates. Sulfur dioxide (SO_2) emissions are estimated based on sulfur content of diesel fuel, not to exceed 0.05% fuel content per 40 CFR 80.29. Uncontrolled annual emissions in tons per year (tpy) were calculated assuming operation of 8760 hours per year. Controlled annual emissions in tons per year (tpy) were calculated assuming operation of 3400 hours per year.

EPA AP-42 Section 3.3 Emission Limits:

Pollutant	Emission Factor (lb/hp-hr)
Nitrogen Oxides	0.024000
Carbon Monoxides	0.005500 * 2
Particulate	0.000700
Hydrocarbons	0.000704

Sulfur dioxide emission rate was calculated using the fuel consumption rate for this engine of 0.37 pounds per horsepower, a fuel sulfur content of 0.05%, and a sulfur to sulfur dioxide conversion factor of two (2). The following equation calculates the emission rate for sulfur dioxide (SO_2).

Emission Rate (lbs/hr) = Fuel (lbs/hp) * Engine HP * % Sulfur Content * Factor

$$\text{Emission Rate (lbs/hr)} = \frac{0.37 \text{ lbs}}{\text{hp}} \mid \frac{900 \text{ hp}}{} \mid \frac{0.0005 \text{ lbs Sulfur}}{1 \text{ lb fuel}} \mid \frac{2 \text{ lbs Sulfur Dioxide}}{1 \text{ lb Sulfur}}$$

Emission Rate (lbs/hr) = 0.33 lbs/hr

The following equation was used to calculate the hourly emission rate for NO_X, CO, VOC, and PM pollutants:

Emission Rate (lbs/hr) = Emission Factor (lbs/hp-hr) * horsepower

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

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

Table 6-5: Pre-Controlled Combustion Emission Rates

Emission Unit Number	Pollutant	Horsepower Rating (hp)	Emission Rate (lbs/hr)	Emission Rate (tons/yr)
16	NO_X	900	22	95
	CO	900	9.9	43
	SO_2	900	0.33	1.5
	VOC	900	0.63	2.8
	TSP	900	0.63	2.8
	PM_{10}	900	0.63	2.8
	$PM_{2.5}$	900	0.63	2.8

Table 6-6: Controlled Combustion Emission Rates

Emission Unit Number	Pollutant	Horsepower Rating (hp)	Emission Rate (lbs/hr)	Emission Rate (tons/yr)
16	NO_X	900	22	37
	CO	900	9.9	17
	SO_2	900	0.33	0.57
	VOC	900	0.63	1.1
	TSP	900	0.63	1.1
	PM_{10}	900	0.63	1.1
	$PM_{2.5}$	900	0.63	1.1

Table 6-7: Total Uncontrolled Emissions

ID #	Source Description	NOx		CO		SO2		VOC		TSP		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
RAW	Quarry/Raw Material									1.3	4.0	0.62	1.9	0.095	0.29
1	Grizzly Feeder									1.3	4.0	0.62	1.9	0.095	0.29
2	Primary Crusher									1.1	4.7	0.48	2.1	0.073	0.32
3	Conveyor Transfer Point									0.60	2.6	0.22	0.96	0.033	0.15
4	Feeder									1.3	4.0	0.62	1.9	0.095	0.29
5	Conveyor Transfer Point									0.60	2.6	0.22	0.96	0.033	0.15
6	Screen									8.0	35	2.8	12	0.42	1.8
7	Secondary Crusher									0.65	2.8	0.29	1.3	0.044	0.19
8	Conveyor Transfer Point									0.36	1.6	0.13	0.58	0.020	0.088
9	Conveyor Transfer Point									0.36	1.6	0.13	0.58	0.020	0.088
10	Conveyor Transfer Point									0.36	1.6	0.13	0.58	0.020	0.088
11	Conveyor Transfer Point									0.36	1.6	0.13	0.58	0.020	0.088
12	Conveyor Transfer Point									0.60	2.6	0.22	0.96	0.033	0.15
13	Conveyor Transfer Point									0.60	2.6	0.22	0.96	0.033	0.15
14	Conveyor Transfer Point									0.60	2.6	0.22	0.96	0.033	0.15
15	Conveyor Transfer Point									0.60	2.6	0.22	0.96	0.033	0.15
AGGPILES	Stacker Conveyor Drop									1.3	4.0	0.62	1.9	0.095	0.29
TRUCK	Haul Road Traffic									20	70	5.1	18	0.51	1.8
FPILES	Finish Storage Pile									1.3	4.0	0.62	1.9	0.095	0.29
RAW	Quarry/Raw Material									1.3	4.0	0.62	1.9	0.095	0.29
16	Crush/Screen Plant Generator	22	95	9.9	43	0.33	1.5	0.63	2.8	0.63	2.8	0.63	2.8	0.63	2.8
	Total	**22**	**95**	**9.9**	**43**	**0.33**	**1.5**	**0.63**	**2.8**	**42**	**158**	**14**	**54**	**2.4**	**10**

Table 6-8: Total Controlled Emissions

ID #	Source Description	NOx		CO		SO2		VOC		TSP		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
RAW	Quarry/Raw Material									1.3	1.6	0.62	0.74	0.095	0.11
1	Grizzly Feeder									1.3	1.6	0.62	0.74	0.095	0.11
2	Primary Crusher									0.24	0.41	0.11	0.18	0.020	0.034
3	Conveyor Transfer Point									0.028	0.048	0.0092	0.016	0.0026	0.0044
4	Feeder									1.3	1.6	0.62	0.74	0.095	0.11
5	Conveyor Transfer Point									0.028	0.048	0.0092	0.016	0.0026	0.0044
6	Screen									0.70	1.2	0.24	0.40	0.016	0.027
7	Secondary Crusher									0.14	0.24	0.065	0.11	0.012	0.020
8	Conveyor Transfer Point									0.017	0.029	0.0055	0.0094	0.0016	0.0027
9	Conveyor Transfer Point									0.017	0.029	0.0055	0.0094	0.0016	0.0027
10	Conveyor Transfer Point									0.017	0.029	0.0055	0.0094	0.0016	0.0027
11	Conveyor Transfer Point									0.017	0.029	0.0055	0.0094	0.0016	0.0027
12	Conveyor Transfer Point									0.028	0.048	0.0092	0.016	0.0026	0.0044
13	Conveyor Transfer Point									0.028	0.048	0.0092	0.016	0.0026	0.0044
14	Conveyor Transfer Point									0.028	0.048	0.0092	0.016	0.0026	0.0044
15	Conveyor Transfer Point									0.028	0.048	0.0092	0.016	0.0026	0.0044
AGGPILES	Stacker Conveyor Drop									0.79	0.93	0.37	0.44	0.057	0.067
TRCK	Haul Road Traffic									4.0	5.4	1.0	1.4	0.10	0.14
FPILES	Finish Storage Pile									1.3	1.6	0.62	0.74	0.095	0.11
RAW	Quarry/Raw Material									1.3	1.6	0.62	0.74	0.095	0.11
16	Crush/Screen Plant Generator	22	37	9.9	17	0.33	0.54	0.63	1.1	0.63	1.1	0.63	1.1	0.63	1.1
	Total	**22**	**37**	**9.9**	**17**	**0.33**	**0.54**	**0.63**	**1.1**	**12**	**16**	**5.0**	**6.7**	**1.2**	**1.8**

Estimates for Federal HAPs Air Pollutants

The plant generator/engine (Unit 16) is a source of HAPs as it appears in Section 112 (b) of the 1990 CAAA. Emissions of HAPs were determined for the plant generator/engine using AP-42 Section 3.3 and Section 1.3.

The following table summarizes the HAPs emission rates from the plant generator/engine.

Table 6-9: HAPs Emission Rates from the Main Plant Generator

Horsepower Rating:	900	horsepower	
Fuel Usage:	31.1	gallons/hr	
MMBtu/hr:	3.9808	Btu	(based on 128000 Btu/gallon)
Btu x 10^-12/hr:	3.9808E-06	Btu x10^-12	(based on 128000 Btu/gallon)
Yearly Operating Hours:	3400	hours per year	

Type of Fuel: Diesel
Emission Factors AP-42 Section 3.3 and Section 1.3

Non-PAH HAPS	CAS#		Emission Factor (lbs/mmBtu)	Emission Rate (lbs/hr)	Emission Rate (ton/yr)
Acetalehyde	75-07-0		7.67E-04	0.004673	0.007944
Acrolein	107-02-8		9.25E-05	0.000564	0.000958
Benzene	71-43-2		9.33E-04	0.005685	0.009664
1,3-Butadiene	106-99-0		3.91E-05	0.000238	0.000405
Formaldehyde	50-00-0		1.18E-03	0.007190	0.012222
Propylene	115-07-1		2.58E-03	0.015719	0.026723
Toluene	108-88-3		4.09E-04	0.002492	0.004236
Xylene	1330-20-7		2.85E-04	0.001736	0.002952
		Total Non-PAH HAPS	6.29E-03	0.038297	0.065105

PAH HAPS	CAS#		Emission Factor (lbs/mmBtu)	Emission Rate (lbs/hr)	Emission Rate (ton/yr)
Acenaphthene	83-32-9		1.42E-06	0.000009	0.000015
Acenaphthylene	208-96-8		5.06E-06	0.000031	0.000052
Anthracene	120-12-7		1.87E-06	0.000011	0.000019
Benzo(a)anthracene	56-55-3		1.68E-06	0.000010	0.000017
Benzo(a)pyrene	50-32-8		1.88E-07	0.000001	0.000002
Benzo(b)fluoranthene	205-99-2		9.91E-08	0.000001	0.000001
Benzo(a)pyrene	192-97-2		1.55E-07	0.000001	0.000002
Benzo(g,h,I)perylene	191-24-2		4.89E-07	0.000003	0.000005
Benzo(k)fluoranthene	207-08-9		1.55E-07	0.000001	0.000002
Dibenz(a,h)anthracene			5.83E-07	0.000004	0.000006
Chrysene	218-01-9		3.53E-07	0.000002	0.000004
Fluoranthene	206-44-0		7.61E-06	0.000046	0.000079
Fluorene	86-73-7		2.92E-05	0.000178	0.000302
Indeno(1,2,3-cd)pyrene	193-39-5		3.75E-07	0.000002	0.000004
Naphthalene	91-20-3		8.48E-05	0.000517	0.000878
Phenanthrene	85-01-8		2.94E-05	0.000179	0.000305
Pyrene	129-00-0		4.78E-06	0.000029	0.000050
		Total PAH HAPS	1.68E-04	0.001025	0.001742

HAPS Metals		Emission Factor (lbs/Btu^12)	Emission Rate (lbs/hr)	Emission Rate (ton/yr)
Arsenic		4	0.000024	0.000041
Beryllium		3	0.000018	0.000031
Cadmium		3	0.000018	0.000031
Chromium		3	0.000018	0.000031
Lead		9	0.000055	0.000093
Manganese		6	0.000037	0.000062
Mercury		3	0.000018	0.000031
Nickel		3	0.000018	0.000031
Selenium		15	0.000091	0.000155
	Total Metals HAPS	49	0.000299	0.000508
	Total HAPS		**0.03962**	**0.00520**

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.
- ✓ 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.

Aggregate Storage Piles, Feeder Loading, Drop to Piles: AP-42 Section 13.2.4

Conveyor Transfer Points, Screening, and Crushing: AP-42 Section 11.19.2

Haul Truck Traffic: AP-42 Section 13.2.2

Aggregate Plant Generator: AP-42 Section 3.4

Generator HAPs: AP-42 Section 1.3 and Section 3.3

Ruidoso Sand & Gravel Aggregate Excel Emission Calculation Spreadsheet: A-XXXX-7-AGGEmissions.xls

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]

$$E = k(0.0016) \frac{\left(\frac{U}{2.2}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \text{ (kg/megagram [Mg])} \quad (1)$$

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

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

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

Source[b]	Total Particulate Matter[c,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[e]	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[e]	E	0.0087[f]	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

Table 13.2.2-1. TYPICAL SILT CONTENT VALUES OF SURFACE MATERIAL ON INDUSTRIAL UNPAVED ROADS[a]

Industry	Road Use Or Surface Material	Plant Sites	No. Of Samples	Silt Content (%)	
				Range	Mean
Copper smelting	Plant road	1	3	16 - 19	17
Iron and steel production	Plant road	19	135	0.2 - 19	6.0
Sand and gravel processing	Plant road	1	3	4.1 - 6.0	4.8
	Material storage area	1	1	-	7.1
Stone quarrying and processing	Plant road	2	10	2.4 - 16	10
	Haul road to/from pit	4	20	5.0-15	8.3
Taconite mining and processing	Service road	1	8	2.4 - 7.1	4.3
	Haul road to/from pit	1	12	3.9 - 9.7	5.8
Western surface coal mining	Haul road to/from pit	3	21	2.8 - 18	8.4
	Plant road	2	2	4.9 - 5.3	5.1
	Scraper route	3	10	7.2 - 25	17
	Haul road (freshly graded)	2	5	18 - 29	24
Construction sites	Scraper routes	7	20	0.56-23	8.5
Lumber sawmills	Log yards	2	2	4.8-12	8.4
Municipal solid waste landfills	Disposal routes	4	20	2.2 - 21	6.4

[a]References 1,5-15.

The following empirical expressions may be used to estimate the quantity in pounds (lb) of size-specific particulate emissions from an unpaved road, per vehicle mile traveled (VMT):

For vehicles traveling on unpaved surfaces at industrial sites, emissions are estimated from the following equation:

$$E = k\,(s/12)^a(W/3)^b \qquad (1a)$$

and, for vehicles traveling on publicly accessible roads, dominated by light duty vehicles, emissions may be estimated from the following:

$$E = \frac{k\,(s/12)^a(S/30)^d}{(M/0.5)^c} - C \qquad (1b)$$

where k, a, b, c and d are empirical constants (Reference 6) given below and

E = size-specific emission factor (lb/VMT)
s = surface material silt content (%)
W = mean vehicle weight (tons)
M = surface material moisture content (%)
S = mean vehicle speed (mph)
C = emission factor for 1980's vehicle fleet exhaust, brake wear and tire wear.

The source characteristics s, W and M are referred to as correction parameters for adjusting the emission estimates to local conditions. The metric conversion from lb/VMT to grams (g) per vehicle kilometer traveled (VKT) is as follows:

1 lb/VMT = 281.9 g/VKT

The constants for Equations 1a and 1b based on the stated aerodynamic particle sizes are shown in Tables 13.2.2-2 and 13.2.2-4. The PM-2.5 particle size multipliers (k-factors) are taken from Reference 27.

Table 13.2.2-2. CONSTANTS FOR EQUATIONS 1a AND 1b

Constant	Industrial Roads (Equation 1a)			Public Roads (Equation 1b)		
	PM-2.5	PM-10	PM-30*	PM-2.5	PM-10	PM-30*
k (lb/VMT)	0.15	1.5	4.9	0.18	1.8	6.0
a	0.9	0.9	0.7	1	1	1
b	0.45	0.45	0.45	-	-	-
c	-	-	-	0.2	0.2	0.3
d	-	-	-	0.5	0.5	0.3
Quality Rating	B	B	B	B	B	B

*Assumed equivalent to total suspended particulate matter (TSP)
"-" = not used in the emission factor equation

Table 13.2.2-2 also contains the quality ratings for the various size-specific versions of Equation 1a and 1b. The equation retains the assigned quality rating, if applied within the ranges of source conditions, shown in Table 13.2.2-3, that were tested in developing the equation:

Table 13.2.2-3. RANGE OF SOURCE CONDITIONS USED IN DEVELOPING EQUATION 1a AND 1b

Emission Factor	Surface Silt Content, %	Mean Vehicle Weight		Mean Vehicle Speed		Mean No. of Wheels	Surface Moisture Content, %
		Mg	ton	km/hr	mph		
Industrial Roads (Equation 1a)	1.8-25.2	1.8-260	2-290	8-69	5-43	4-17[a]	0.03-13
Public Roads (Equation 1b)	1.8-35	1.4-2.7	1.5-3	16-88	10-55	4-4.8	0.03-13

[a] See discussion in text.

As noted earlier, the models presented as Equations 1a and 1b were developed from tests of traffic on unpaved surfaces. Unpaved roads have a hard, generally nonporous surface that usually dries quickly after a rainfall or watering, because of traffic-enhanced natural evaporation. (Factors influencing how fast a road dries are discussed in Section 13.2.2.3, below.) The quality ratings given above pertain to the mid-range of the measured source conditions for the equation. A higher mean vehicle weight and a higher than normal traffic rate may be justified when performing a worst-case analysis of emissions from unpaved roads.

The emission factors for the exhaust, brake wear and tire wear of a 1980's vehicle fleet (C) was obtained from EPA's MOBILE6.2 model [23]. The emission factor also varies with aerodynamic size range

Table 3.4-1. GASEOUS EMISSION FACTORS FOR LARGE STATIONARY DIESEL AND ALL STATIONARY DUAL-FUEL ENGINES[a]

Pollutant	Diesel Fuel (SCC 2-02-004-01)			Dual Fuel[b] (SCC 2-02-004-02)		
	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	EMISSION FACTOR RATING	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	EMISSION FACTOR RATING
NO_x						
Uncontrolled	0.024	3.2	B	0.018	2.7	D
Controlled	0.013[c]	1.9[c]	B	ND	ND	NA
CO	5.5 E-03	0.85	C	7.5 E-03	1.16	D
SO_x[d]	8.09 E-03S_1	1.01S_1	B	4.06 E-04S_1 + 9.57 E-03S_2	0.05S_1 + 0.895S_2	B
CO_2[e]	1.16	165	B	0.772	110	B
PM	0.0007[c]	0.1[c]	B	ND	ND	NA
TOC (as CH_4)	7.05 E-04	0.09	C	5.29 E-03	0.8	D
Methane	f	f	E	3.97 E-03	0.6	E
Nonmethane	f	f	E	1.32 E-03	0.2[g]	E

[a] Based on uncontrolled levels for each fuel, from References 2,6-7. When necessary, the average heating value of diesel was assumed to be 19,300 Btu/lb with a density of 7.1 lb/gallon. The power output and fuel input values were averaged independently from each other, because of the use of actual brake-specific fuel consumption (BSFC) values for each data point and of the use of data possibly sufficient to calculate only 1 of the 2 emission factors (e. g., enough information to calculate lb/MMBtu, but not lb/hp-hr). Factors are based on averages across all manufacturers and duty cycles. The actual emissions from a particular engine or manufacturer could vary considerably from these levels. To convert from lb/hp-hr to kg/kw-hr, multiply by 0.608. To convert from lb/MMBtu to ng/J, multiply by 430. SCC = Source Classification Code.

[b] Dual fuel assumes 95% natural gas and 5% diesel fuel.

[c] References 8-26. Controlled NO_x is by ignition timing retard.

[d] Assumes that all sulfur in the fuel is converted to SO_2. S_1 = % sulfur in fuel oil; S_2 = % sulfur in natural gas. For example, if sulfer content is 1.5%, then S = 1.5.

[e] Assumes 100% conversion of carbon in fuel to CO_2 with 87 weight % carbon in diesel, 70 weight % carbon in natural gas, dual-fuel mixture of 5% diesel with 95% natural gas, average BSFC of 7,000 Btu/hp-hr, diesel heating value of 19,300 Btu/lb, and natural gas heating value of 1050 Btu/scf.

[f] Based on data from 1 engine, TOC is by weight 9% methane and 91% nonmethane.

[g] Assumes that nonmethane organic compounds are 25% of TOC emissions from dual-fuel engines. Molecular weight of nonmethane gas stream is assumed to be that of methane.

Table 3.3-1. EMISSION FACTORS FOR UNCONTROLLED GASOLINE AND DIESEL INDUSTRIAL ENGINES[a]

Pollutant	Gasoline Fuel (SCC 2-02-003-01, 2-03-003-01)		Diesel Fuel (SCC 2-02-001-02, 2-03-001-01)		EMISSION FACTOR RATING
	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	Emission Factor (lb/hp-hr) (power output)	Emission Factor (lb/MMBtu) (fuel input)	
NO_x	0.011	1.63	0.031	4.41	D
CO	0.439	62.7	6.68 E-03	0.95	D
SO_x	5.91 E-04	0.084	2.05 E-03	0.29	D
PM-10[b]	7.21 E-04	0.10	2.20 E-03	0.31	D
CO_2[c]	1.08	154	1.15	164	B
Aldehydes	4.85 E-04	0.07	4.63 E-04	0.07	D
TOC					
Exhaust	0.015	2.10	2.47 E-03	0.35	D
Evaporative	6.61 E-04	0.09	0.00	0.00	E
Crankcase	4.85 E-03	0.69	4.41 E-05	0.01	E
Refueling	1.08 E-03	0.15	0.00	0.00	E

[a] References 2,5-6,9-14. When necessary, an average brake-specific fuel consumption (BSFC) of 7,000 Btu/hp-hr was used to convert from lb/MMBtu to lb/hp-hr. To convert from lb/hp-hr to kg/kw-hr, multiply by 0.608. To convert from lb/MMBtu to ng/J, multiply by 430. SCC = Source Classification Code. TOC = total organic compounds.

[b] PM-10 = particulate matter less than or equal to 10 μm aerodynamic diameter. All particulate is assumed to be ≤ 1 μm in size.

[c] Assumes 99% conversion of carbon in fuel to CO_2 with 87 weight % carbon in diesel, 86 weight % carbon in gasoline, average BSFC of 7,000 Btu/hp-hr, diesel heating value of 19,300 Btu/lb, and gasoline heating value of 20,300 Btu/lb.

Table 1.3-1. (cont.)

Firing Configuration (SCC)[a]	SO_2[b]		SO_3[c]		NO_x[d]		CO[e]		Filterable PM[f]	
	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING	Emission Factor (lb/10^3 gal)	EMISSION FACTOR RATING
Boilers < 100 Million Btu/hr										
No. 6 oil fired (1-02-004-02/03) (1-03-004-02/03)	157S	A	2S	A	55	A	5	A	10	B
No. 5 oil fired (1-03-004-04)	157S	A	2S	A	55	A	5	A	9.19(S)+3.22	A
No. 4 oil fired (1-03-005-04)	150S	A	2S	A	20	A	5	A	7	B
Distillate oil fired (1-02-005-02/03) (1-03-005-02/03)	142S	A	2S	A	20	A	5	A	2	A
Residential furnace (A2104004/A2104011)	142S	A	2S	A	18	A	5	A	0.4[g]	B

[a] To convert from lb/10^3 gal to kg/10^3 L, multiply by 0.120. SCC = Source Classification Code.

[b] References 1-2,6-9,14,56-60. S indicates that the weight % of sulfur in the oil should be multiplied by the value given. For example, if the fuel is 1% sulfur, then S = 1.

[c] References 1-2,6-8,16,57-60. S indicates that the weight % of sulfur in the oil should be multiplied by the value given. For example, if the fuel is 1% sulfur, then S = 1.

[d] References 6-7,15,19,22,56-62. Expressed as NO_2. Test results indicate that at least 95% by weight of NO_x is NO for all boiler types except residential furnaces, where about 75% is NO. For utility vertical fired boilers use 105 lb/10^3 gal at full load and normal (>15%) excess air. Nitrogen oxides emissions from residual oil combustion in industrial and commercial boilers are related to fuel nitrogen content, estimated by the following empirical relationship: lb NO_2/10^3 gal = 20.54 + 104.39(N), where N is the weight % of nitrogen in the oil. For example, if the fuel is 1% nitrogen, then N = 1.

[e] References 6-8,14,17-19,56-61. CO emissions may increase by factors of 10 to 100 if the unit is improperly operated or not well maintained.

[f] References 6-8,10,13-15,56-60,62-63. Filterable PM is that particulate collected on or prior to the filter of an EPA Method 5 (or equivalent) sampling train. Particulate emission factors for residual oil combustion are, on average, a function of fuel oil sulfur content where S is the weight % of sulfur in oil. For example, if fuel oil is 1% sulfur, then S = 1.

[g] Based on data from new burner designs. Pre-1970's burner designs may emit filterable PM as high as 3.0 lb/10^3 gal.

Table 1.3-3. EMISSION FACTORS FOR TOTAL ORGANIC COMPOUNDS (TOC), METHANE, AND NONMETHANE TOC (NMTOC) FROM UNCONTROLLED FUEL OIL COMBUSTION[a]

EMISSION FACTOR RATING: A

Firing Configuration (SCC)	TOC[b] Emission Factor ($lb/10^3$ gal)	Methane[b] Emission Factor ($lb/10^3$ gal)	NMTOC[b] Emission Factor ($lb/10^3$ gal)
Utility boilers			
No. 6 oil fired, normal firing (1-01-004-01)	1.04	0.28	0.76
No. 6 oil fired, tangential firing (1-01-004-04)	1.04	0.28	0.76
No. 5 oil fired, normal firing (1-01-004-05)	1.04	0.28	0.76
No. 5 oil fired, tangential firing (1-01-004-06)	1.04	0.28	0.76
No. 4 oil fired, normal firing (1-01-005-04)	1.04	0.28	0.76
No. 4 oil fired, tangential firing (1-01-005-05)	1.04	0.28	0.76
Industrial boilers			
No. 6 oil fired (1-02-004-01/02/03)	1.28	1.00	0.28
No. 5 oil fired (1-02-004-04)	1.28	1.00	0.28
Distillate oil fired (1-02-005-01/02/03)	0.252	0.052	0.2
No. 4 oil fired (1-02-005-04)	0.252	0.052	0.2
Commercial/institutional/residential combustors			
No. 6 oil fired (1-03-004-01/02/03)	1.605	0.475	1.13
No. 5 oil fired (1-03-004-04)	1.605	0.475	1.13
Distillate oil fired (1-03-005-01/02/03)	0.556	0.216	0.34
No. 4 oil fired (1-03-005-04)	0.556	0.216	0.34
Residential furnace (A2104004/A2104011)	2.493	1.78	0.713

[a] To convert from $lb/10^3$ gal to $kg/10^3$ L, multiply by 0.12. SCC = Source Classification Code.

[b] References 29-32. Volatile organic compound emissions can increase by several orders of magnitude if the boiler is improperly operated or is not well maintained.

Table 1.3-9. EMISSION FACTORS FOR SPECIATED ORGANIC COMPOUNDS FROM FUEL OIL COMBUSTION[a]

Organic Compound	Average Emission Factor[b] (lb/10^3 Gal)	EMISSION FACTOR RATING
Benzene	2.14E-04	C
Ethylbenzene	6.36E-05[c]	E
Formaldehyde[d]	3.30E-02	C
Naphthalene	1.13E-03	C
1,1,1-Trichloroethane	2.36E-04[c]	E
Toluene	6.20E-03	D
o-Xylene	1.09E-04[c]	E
Acenaphthene	2.11E-05	C
Acenaphthylene	2.53E-07	D
Anthracene	1.22E-06	C
Benz(a)anthracene	4.01E-06	C
Benzo(b,k)fluoranthene	1.48E-06	C
Benzo(g,h,i)perylene	2.26E-06	C
Chrysene	2.38E-06	C
Dibenzo(a,h) anthracene	1.67E-06	D
Fluoranthene	4.84E-06	C
Fluorene	4.47E-06	C
Indo(1,2,3-cd)pyrene	2.14E-06	C
Phenanthrene	1.05E-05	C
Pyrene	4.25E-06	C
OCDD	3.10E-09[c]	E

[a] Data are for residual oil fired boilers, Source Classification Codes (SCCs) 1-01-004-01/04.

[b] References 64-72. To convert from lb/10^3 gal to kg/10^3 L, multiply by 0.12.

[c] Based on data from one source test (Reference 67).

[d] The formaldehyde number presented here is based only on data from utilities using No. 6 oil. The number presented in Table 1.3-7 is based on utility, commercial, and industrial boilers.

Table 1.3-11. EMISSION FACTORS FOR METALS FROM UNCONTROLLED NO. 6 FUEL OIL COMBUSTION[a]

Metal	Average Emission Factor[b, d] ($lb/10^3$ Gal)	EMISSION FACTOR RATING
Antimony	5.25E-03[c]	E
Arsenic	1.32E-03	C
Barium	2.57E-03	D
Beryllium	2.78E-05	C
Cadmium	3.98E-04	C
Chloride	3.47E-01	D
Chromium	8.45E-04	C
Chromium VI	2.48E-04	C
Cobalt	6.02E-03	D
Copper	1.76E-03	C
Fluoride	3.73E-02	D
Lead	1.51E-03	C
Manganese	3.00E-03	C
Mercury	1.13E-04	C
Molybdenum	7.87E-04	D
Nickel	8.45E-02	C
Phosphorous	9.46E-03	D
Selenium	6.83E-04	C
Vanadium	3.18E-02	D
Zinc	2.91E-02	D

[a] Data are for residual oil fired boilers, Source Classification Codes (SCCs) 1-01-004-01/04.

[b] References 64-72. 18 of 19 sources were uncontrolled and 1 source was controlled with low efficiency ESP. To convert from $lb/10^3$ gal to $kg/10^3$ L, multiply by 0.12.

[c] References 29-32,40-44.

[d] For oil/water mixture, reduce factors in proportion to water content of the fuel (due to dilution). To adjust the listed values for water content, multiply the listed value by 1-decimal fraction of water (ex: For fuel with 9 percent water by volume, multiply by 1-0.9=.91).

Ruidoso Sand Gravel - Rio Bonita Aggregate - Uncontrolled Emission Calculations
200 tph

Plant Throughput	200	tph
Uncontrolled Hours Operation	8760	hours/yr

Material Handling
AP-42 Section 13.2.4 "Aggregate Handling" (ver 11/2006)
E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton

k(tsp)	0.74	
k(pm10)	0.35	
k(pm2.5)	0.053	
U Max Hour	11.0	Max MPH
U Annual Hour	8.3	1996-2006 Ruidoso Ave MPH
M	2.00	%

E(TSP) Max Hour =	0.00660 lbs/ton
E(PM10) Max Hour =	0.00312 lbs/ton
E(PM2.5) Max Hour =	0.00047 lbs/ton
E(TSP) Annual Hour =	0.00458 lbs/ton
E(PM10) Annual Hour =	0.00216 lbs/ton
E(PM2.5) Annual Hour =	0.00033 lbs/ton

Uncontrolled Emission Factors	TSP		PM10		PM2.5		
Crusher	0.00540	lbs/ton	0.00240	lbs/ton	0.00036	lbs/ton	AP-42 Table 11.19.2-2 "Tertiary Crushing Uncontrolled"
Screen	0.02500	lbs/ton	0.00870	lbs/ton	0.00132	lbs/ton	AP-42 Table 11.19.2-2 "Screening Uncontrolled"
Conveyor	0.00300	lbs/ton	0.00110	lbs/ton	0.00017	lbs/ton	AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"
Stacker Max Hour	0.00660	lbs/ton	0.00312	lbs/ton	0.00047	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11 MPH,M=2%
Stacker Annual Hour	0.00458	lbs/ton	0.00216	lbs/ton	0.00033	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH,M=2%
Pug Mill	0.02500	lbs/ton	0.00870	lbs/ton	0.00132	lbs/ton	AP-42 Table 11.19.2-2 "Screening Uncontrolled"
Feeder Max Hour	0.00660	lbs/ton	0.00312	lbs/ton	0.00047	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.0 MPH,M=2%
Feeder Annual Hour	0.00458	lbs/ton	0.00216	lbs/ton	0.00033	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH,M=2%
Storage Pile Max Hour	0.00660	lbs/ton	0.00312	lbs/ton	0.00047	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.0 MPH,M=2%
Storage Pile Annual Hour	0.00458	lbs/ton	0.00216	lbs/ton	0.00033	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH,M=2%
Pit Max Hour	0.00660	lbs/ton	0.00312	lbs/ton	0.00047	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.0 MPH,M=2%
Pit Annual Hour	0.00458	lbs/ton	0.00216	lbs/ton	0.00033	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH,M=2%
Product Piles Max hour	0.00660	lbs/ton	0.00312	lbs/ton	0.00047	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.0 MPH,M=2%
Product Piles Annual hour	0.00458	lbs/ton	0.00216	lbs/ton	0.00033	lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH,M=2%

Process Unit #	Process Unit Description	TSP Emission Rate	PM10 Emission Rate	PM2.5 Emission Rate	Hour	% of Throughput	Process Rate	PER TSP lbs/hr	TSP ton/yr	PM10 lbs/hr	PM10 ton/yr	PM2.5 lbs/hr	PM2.5 ton/yr
RAW	Quarry/Raw Material	0.00660	0.00312	0.00047	8760	100.00	200	1.3	4.0	0.62	1.9	0.095	0.29
1	Grizzly Feeder	0.00660	0.00312	0.00047	8760	100.00	200	1.3	4.0	0.62	1.9	0.095	0.29
2	Primary Crusher	0.00540	0.00240	0.00036	8760	100.00	200	1.1	4.7	0.48	2.1	0.073	0.32
3	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	100.00	200	0.60	2.6	0.22	0.96	0.033	0.15
4	Feeder	0.00660	0.00312	0.00047	8760	100.00	200	1.3	4.0	0.62	1.9	0.095	0.29
5	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	100.00	200	0.60	2.6	0.22	0.96	0.033	0.15
6	Screen	0.02500	0.00870	0.00132	8760	160.00	320	8.0	35	2.8	12	0.42	1.8
7	Secondary Crusher	0.00540	0.00240	0.00036	8760	60.00	120	0.65	2.8	0.29	1.3	0.044	0.19
8	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	60.00	120	0.36	1.6	0.13	0.58	0.020	0.088
9	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	60.00	120	0.36	1.6	0.13	0.58	0.020	0.088
10	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	60.00	120	0.36	1.6	0.13	0.58	0.020	0.088
11	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	60.00	120	0.36	1.6	0.13	0.58	0.020	0.088
12	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	100.00	200	0.60	2.6	0.22	0.96	0.033	0.15
13	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	100.00	200	0.60	2.6	0.22	0.96	0.033	0.15
14	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	100.00	200	0.60	2.6	0.22	0.96	0.033	0.15
15	Conveyor Transfer Point	0.00300	0.00110	0.00017	8760	100.00	200	0.60	2.6	0.22	0.96	0.033	0.15
AGGPILES	Stacker Conveyor Drop	0.00660	0.00312	0.00047	8760	100.00	200	1.3	4.0	0.62	1.9	0.095	0.29
TRCK	Haul Road Traffic							20	70	5.1	18	0.51	1.8
FPILES	Finish Storage Pile	0.00660	0.00312	0.00047	8760	100.00	200	1.3	4.0	0.62	1.9	0.095	0.29
							Total PM Engine	0.63	2.8	0.63	2.8	0.63	2.8
							Total PM Crushing Equipment	21	85	8.5	33	1.3	5.0
							Total PM	42	158	14	54	2.4	10

18	Process Unit Number	Emitted Pollutants	Emission Rate lbs/hp/hr	Emission Rate lbs/hr	Hour	Horsepower	lbs/hr	ton/yr	
	GenSet	NOX	0.024000	21.60	8760	900	22	95	
		CO	0.005500	9.90	8760	900	9.9	43	Safety Factor of 2 used for CO Emissions
SO2 based on 0.37 lbs fuel/bhp, a 0.05% sulfur content and a factor of 2		SO2		0.33	8760	900	0.33	1.5	
		VOC	0.000704	0.63	8760	900	0.63	2.8	
		PM	0.000700	0.63	8760	900	0.63	2.8	

NOx Total	95	tons/yr
CO Total	43	tons/yr
SO2 Total	1.5	tons/yr
VOC Total	2.8	tons/yr
TSP Total	158	tons/yr
PM10 Total	54	tons/yr
PM2.5 Total	10	tons/yr
Total	300	tons/yr

Ruidoso Sand Gravel - Rio Bonita Aggregate - Uncontrolled Emission Calculations
200 tph

Haul Road Traffic
AP-42 13.2 (ver 11/06) "Unpaved Road"
Sand and Gravel Conditions - NMED Equation
Equation:
E = k(s/12)^a*(W/3)^b*[(365-p)/365]

k TSP	4.8		
k PM10	1.5		
k PM2.5	0.15		
a TSP	0.7		
a PM10	0.9		
a PM2.5	0.9		
b TSP	0.45		
b PM10	0.45		
b PM2.5	0.45		
% Silt Content = s	4.8	%	Sand and Gravel (AP-42 13.2.2-1)
precipitation days/yr	70	days	AP-42 Figure 13.2.2-1
Hours per year	8760	hrs	

Vehicle control: 0 %

Aggregate Truck VMT: 570.00 one way; 0.708514805 miles/vehicle

Max. Aggregate Truck/hr: 4 truck/hr; 25 tons/load; 200 tons/hr

Aggregate Truck VMT: 2.834058421 miles/hr; 24826.35177 miles/yr

Aggregate Truck weight: 27.5 tons

Max. Aggregate Truck Emissions	TSP Uncontrolled			
	19.81718758	lbs/hr	70.15284402	tons/yr
Max. Aggregate Truck Emissions	**PM10 Uncontrolled**			
	5.050672371	lbs/hr	17.87938619	tons/yr
Max. Aggregate Truck Emissions	**PM2.5 Uncontrolled**			
	0.505067237	lbs/hr	1.787938619	tons/yr

Ruidoso Sand Gravel - Rio Bonita Aggregate - Controlled Emission Calculations
200 tph

Plant Throughput	200	tph	680000	tons per year
Generator Hours Operation	3400	hours/yr		

Material Handling
AP-42 Section 13.2.4 "Aggregate Handling" (ver 11/2006)
E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton

k(tsp)	0.74	
k(pm10)	0.35	
k(pm2.5)	0.053	
U Max Hour	11.9	Max MPH
U Annual Hour	8.5	1996-2006 Ruidoso Ave MPH
M	2.00	%

E(TSP) Max Hour =	0.00660 lbs/ton
E(PM10) Max Hour =	0.00312 lbs/ton
E(PM2.5) Max Hour =	0.00047 lbs/ton
E(TSP) Annual Hour =	0.00458 lbs/ton
E(PM10) Annual Hour =	0.00216 lbs/ton
E(PM2.5) Annual Hour =	0.00033 lbs/ton

Conveyor Stacker Drop
AP-42 Section 13.2.4 "Aggregate Handling" (ver 11/2006)
E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4 lbs/ton

k(tsp)	0.74	
k(pm10)	0.35	
k(pm2.5)	0.053	
U Max Hour	11.9	Max MPH
U Annual Hour	8.5	1996-2006 Ruidoso Ave MPH
M	2.88	% AP-42 Section 11.19.2 Table 11.19.2-2 Note b High Controlled Moisture Content

E(TSP) Max Hour =	0.00396 lbs/ton
E(PM10) Max Hour =	0.00187 lbs/ton
E(PM2.5) Max Hour =	0.00026 lbs/ton
E(TSP) Annual Hour =	0.00275 lbs/ton
E(PM10) Annual Hour =	0.00130 lbs/ton
E(PM2.5) Annual Hour =	0.00020 lbs/ton

Controlled Emission Factors	TSP	PM10	PM2.5	
Crusher	0.00120 lbs/ton	0.00054 lbs/ton	0.00010 lbs/ton	AP-42 Table 11.19.2-2 "Tertiary Crushing Controlled"
Screen	0.00220 lbs/ton	0.00074 lbs/ton	0.00005 lbs/ton	AP-42 Table 11.19.2-2 "Screening Controlled"
Uncontrolled Conveyor	0.00300 lbs/ton	0.00110 lbs/ton	0.00017 lbs/ton	AP-42 Table 11.19.2-2 "Conveyor Transfer Point Uncontrolled"
Controlled Conveyor	0.00014 lbs/ton	0.00005 lbs/ton	0.000013 lbs/ton	AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"
Stacker Max Hour	0.00396 lbs/ton	0.00187 lbs/ton	0.00028 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.9 MPH;M=2.88%
Stacker Annual Hour	0.00275 lbs/ton	0.00130 lbs/ton	0.00020 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH;M=2.88%
Pug Mill	0.00014 lbs/ton	0.00005 lbs/ton	0.000013 lbs/ton	AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled"
Feeder Max Hour	0.00660 lbs/ton	0.00312 lbs/ton	0.00047 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.0 MPH;M=2%
Feeder Annual Hour	0.00458 lbs/ton	0.00216 lbs/ton	0.00033 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH;M=2%
Storage Pile Max Hour	0.00660 lbs/ton	0.00312 lbs/ton	0.00047 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.0 MPH,M=2%
Storage Pile Annual Hour	0.00458 lbs/ton	0.00216 lbs/ton	0.00033 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH;M=2%
Pit Max Hour	0.00660 lbs/ton	0.00312 lbs/ton	0.00047 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.0 MPH,M=2%
Pit Annual Hour	0.00458 lbs/ton	0.00216 lbs/ton	0.00033 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH;M=2%
Product Piles Max hour	0.00660 lbs/ton	0.00312 lbs/ton	0.00047 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.0 MPH,M=2%
Product Piles Annual hour	0.00458 lbs/ton	0.00216 lbs/ton	0.00033 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH,M=2%

PTE

Process Unit #	Process Unit Description	TSP Emission Rate	PM10 Emission Rate	PM2.5 Emission Rate	% of Throughput	Process Rate	TSP lbs/hr	TSP ton/yr	PM10 lbs/hr	PM10 ton/yr	PM2.5 lbs/hr	PM2.5 ton/yr
RAW	Quarry/Raw Material	0.00660	0.00312	0.00047	100.00	200	1.3	1.6	0.62	0.74	0.095	0.11
1	Grizzly Feeder	0.00660	0.00312	0.00047	100.00	200	1.3	1.6	0.62	0.74	0.095	0.11
2	Primary Crusher	0.00120	0.00054	0.00010	100.00	200	0.24	0.41	0.11	0.18	0.020	0.034
3	Conveyor Transfer Point	0.00014	0.00005	0.00001	100.00	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
4	Feeder	0.00660	0.00312	0.00047	100.00	200	1.3	1.6	0.62	0.74	0.095	0.11
5	Conveyor Transfer Point	0.00014	0.00005	0.00001	100.00	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
6	Screen	0.00220	0.00074	0.00005	160.00	320	0.70	1.2	0.24	0.40	0.016	0.027
7	Secondary Crusher	0.00120	0.00054	0.00010	60.00	120	0.14	0.24	0.065	0.11	0.012	0.020
8	Conveyor Transfer Point	0.00014	0.00005	0.00001	60.00	120	0.017	0.029	0.0055	0.0094	0.0016	0.0027
9	Conveyor Transfer Point	0.00014	0.00005	0.00001	60.00	120	0.017	0.029	0.0055	0.0094	0.0016	0.0027
10	Conveyor Transfer Point	0.00014	0.00005	0.00001	60.00	120	0.017	0.029	0.0055	0.0094	0.0016	0.0027
11	Conveyor Transfer Point	0.00014	0.00005	0.00001	60.00	120	0.017	0.029	0.0055	0.0094	0.0016	0.0027
12	Conveyor Transfer Point	0.00014	0.00005	0.00001	100.00	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
13	Conveyor Transfer Point	0.00014	0.00005	0.00001	100.00	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
14	Conveyor Transfer Point	0.00014	0.00005	0.00001	100.00	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
15	Conveyor Transfer Point	0.00014	0.00005	0.00001	100.00	200	0.028	0.048	0.0092	0.016	0.0026	0.0044
AGGPILES	Stacker Conveyor Drop	0.00396	0.00187	0.00028	100.00	200	0.79	0.93	0.37	0.44	0.057	0.067
TRCK	Haul Road Traffic						4.0	5.4	1.0	1.4	0.10	0.14
FPILES	Finish Storage Pile	0.00660	0.00312	0.00047	100.00	200	1.3	1.6	0.62	0.74	0.095	0.11
						Total PM Engine	0.63	1.1	0.63	1.1	0.63	1.1
						Total PM Crushing Equipment	7.4	9.4	3.4	4.2	0.50	0.63
						Total Haul Roads	4.0	5.4	1.0	1.4	0.10	0.14
						Total PM	12	16	5.0	6.7	1.2	1.8

16	Process Unit Number	Emitted Pollutants	Emission Rate lb/hp/hr	Emission Rate lbs/hr	Hour	Horsepower	lbs/hr	ton/yr	
	GenSet	NOX	0.024000	21.60	3400	900	22	37	
		CO	0.005500	9.90	3400	900	9.9	17	Safety Factor of 2 used for CO Emissions
SO2 based on 0.37 lbs fuel/bhp a 0.05% sulfur content and a factor of 2		SO2		0.33	3400	900	0.33	0.57	
		VOC	0.000764	0.63	3400	900	0.63	1.1	
		PM	0.000700	0.63	3400	900	0.63	1.1	

NOx Total	37	tons/yr
CO Total	17	tons/yr
SO2 Total	0.57	tons/yr
VOC Total	1.1	tons/yr
TSP Total	16	tons/yr
PM10 Total	6.7	tons/yr
PM2.5 Total	1.8	tons/yr
Total	71	tons/yr

9/7/2012

Ruidoso Sand Gravel - Rio Bonita Aggregate - Controlled Emission Calculations
200 tph

Haul Road Traffic
AP-42 13.2 (ver 11/06) "Unpaved Road"
Sand and Gravel Conditions - NMED Equation
Equation,
E = k(s/12)^a*(W/3)^b*[(365-p)/365]

k TSP	4.9	
k PM10	1.5	
k PM2.5	0.15	
a TSP	0.7	
a PM10	0.9	
a PM2.5	0.9	
b TSP	0.45	
b PM10	0.45	
b PM2.5	0.45	
% Silt Content = s	4.8 %	Sand and Gravel (AP-42 13.2.2-1)
precipitation days/yr	70 days	AP-42 Figure 13.2.2-1
Hours per year	3400 hrs	

Vehicle control: 80 % — Base Course and Water

Aggregate Truck VMT: 570.00 one way; 0.708514605 miles/vehicle

Max. Aggregate Truck/hr: 4 truck/hr; 25 tons/load; 13600 truck/yr; 200 tons/hr

Aggregate Truck VMT: 2.834058421 miles/hr; 9635.798633 miles/yr

Aggregate Truck weight: 27.5 tons

Max. Aggregate Truck Emissions	TSP Control	
	3.963437515 lbs/hr	5.44565456 tons/yr
Max. Aggregate Truck Emissions	PM10 Control	
	1.010134474 lbs/hr	1.38789709 tons/yr
Max. Aggregate Truck Emissions	PM2.5 Control	
	0.101013447 lbs/hr	0.13878971 tons/yr

Morning Schedule

	January	February	March	April	May	June	July	August	September	October	November	December	
12 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1
1 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	2
2 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	3
3 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	4
4 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	5
5 00 AM	0	0	0	1	1	1	1	1	0.5	0	0	0	6
6 00 AM	0	0.5	1	1	1	1	1	1	1	1	0.5	0	7
7 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	8
8 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	9
9 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	10
10 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	11
11 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	12
12 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	13
1 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	14
2 00 PM	1	0.5	1	1	1	1	1	1	1	1	0.5	1	15
3 00 PM	0	0	1	0	0	0	0	0	0.5	1	0	0	16
4 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	17
5 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	18
6 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	19
7 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	20
8 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	21
9 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	22
10 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	23
11 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	24
	8	8	10	10	10	10	10	10	10	10	8	8	
	248	224	310	300	310	300	310	310	300	310	240	248	3410

Afternoon Schedule

	January	February	March	April	May	June	July	August	September	October	November	December	
12 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1
1 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	2
2 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	3
3 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	4
4 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	5
5 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	6
6 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	7
7 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	8
8 00 AM	0	0	1	0	0	0	0	0	0.5	1	0	0	9
9 00 AM	0.5	0	1	1	1	0.5	0.5	1	1	1	1	1	10
10 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	11
11 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	12
12 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	13
1 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	14
2 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	15
3 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	16
4 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	17
5 00 PM	0.5	1	1	1	1	1	1	1	1	1	0	0	18
6 00 PM	0	0	0	1	1	1	1	1	0.5	0	0	0	19
7 00 PM	0	0	0	0	0	0.5	0.5	0	0	0	0	0	20
8 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	21
9 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	22
10 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	23
11 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	24
	8	8	10	10	10	10	10	10	10	10	8	8	
	248	224	310	300	310	300	310	310	300	310	240	248	3410
	1600	1600	2000	2000	2000	2000	2000	2000	2000	2000	1600	1600	TPD

Full Schedule

	January	February	March	April	May	June	July	August	September	October	November	December	
12 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1
1 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	2
2 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	3
3 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	4
4 00 AM	0	0	0	0	0	0	0	0	0	0	0	0	5
5 00 AM	0	0	0	1	1	1	1	1	0.5	0	0	0	6
6 00 AM	0	0.5	1	1	1	1	1	1	1	1	0.5	0	7
7 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	8
8 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	9
9 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	10
10 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	11
11 00 AM	1	1	1	1	1	1	1	1	1	1	1	1	12
12 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	13
1 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	14
2 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	15
3 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	16
4 00 PM	1	1	1	1	1	1	1	1	1	1	1	1	17
5 00 PM	0.5	1	1	1	1	1	1	1	1	1	0	0	18
6 00 PM	0	0	0	1	1	1	1	1	0.5	0	0	0	19
7 00 PM	0	0	0	0	0	0.5	0.5	0	0	0	0	0	20
8 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	21
9 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	22
10 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	23
11 00 PM	0	0	0	0	0	0	0	0	0	0	0	0	24
	10.5	11.5	12	14	14	14.5	14.5	14	13	12	10.5	10	
	325.5	322	372	420	434	435	449.5	434	390	372	315	310	4579

Model Hourly Truck Traffic Schedule

	January	February	March	April	May	June	July	August	September	October	November	December
12:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
1:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
2:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
3:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
4:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
5:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
6:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
7:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
8:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
9:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
10:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
11:00 AM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
12:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
1:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
2:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
3:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
4:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
5:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
6:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
7:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
8:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
9:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
10:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
11:00 PM	0.3333	0.3333	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.4167	0.3333	0.3333
	8	8	10	10	10	10	10	10	10	10	8	8

Annual Schedule Generator

	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
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	2
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	3
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	4
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	5
5:00 AM	0	0	0	0.74252	0.74252	0.74252	0.74252	0.74252	0.37126	0	0	0	6
6:00 AM	0	0.37126	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.37126	0	7
7:00 AM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	8
8:00 AM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	9
9:00 AM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	10
10:00 AM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	11
11:00 AM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	12
12:00 PM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	13
1:00 PM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	14
2:00 PM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	15
3:00 PM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	16
4:00 PM	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	17
5:00 PM	0.37126	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0.74252	0	0	18
6:00 PM	0	0	0	0.74252	0.74252	0.74252	0.74252	0.74252	0.37126	0	0	0	19
7:00 PM	0	0	0	0	0	0.37126	0.37126	0	0	0	0	0	20
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	21
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	22
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	23
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	24
	7.796462	8.538982	8.910242	10.39528	10.39528	10.76654	10.76654	10.39528	9.652763	8.910242	7.796462	7.425202	
	241.6903	239.0915	276.2175	311.8585	322.2538	322.9963	333.7628	322.2538	289.5829	276.2175	233.8939	230.1813	3400

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	

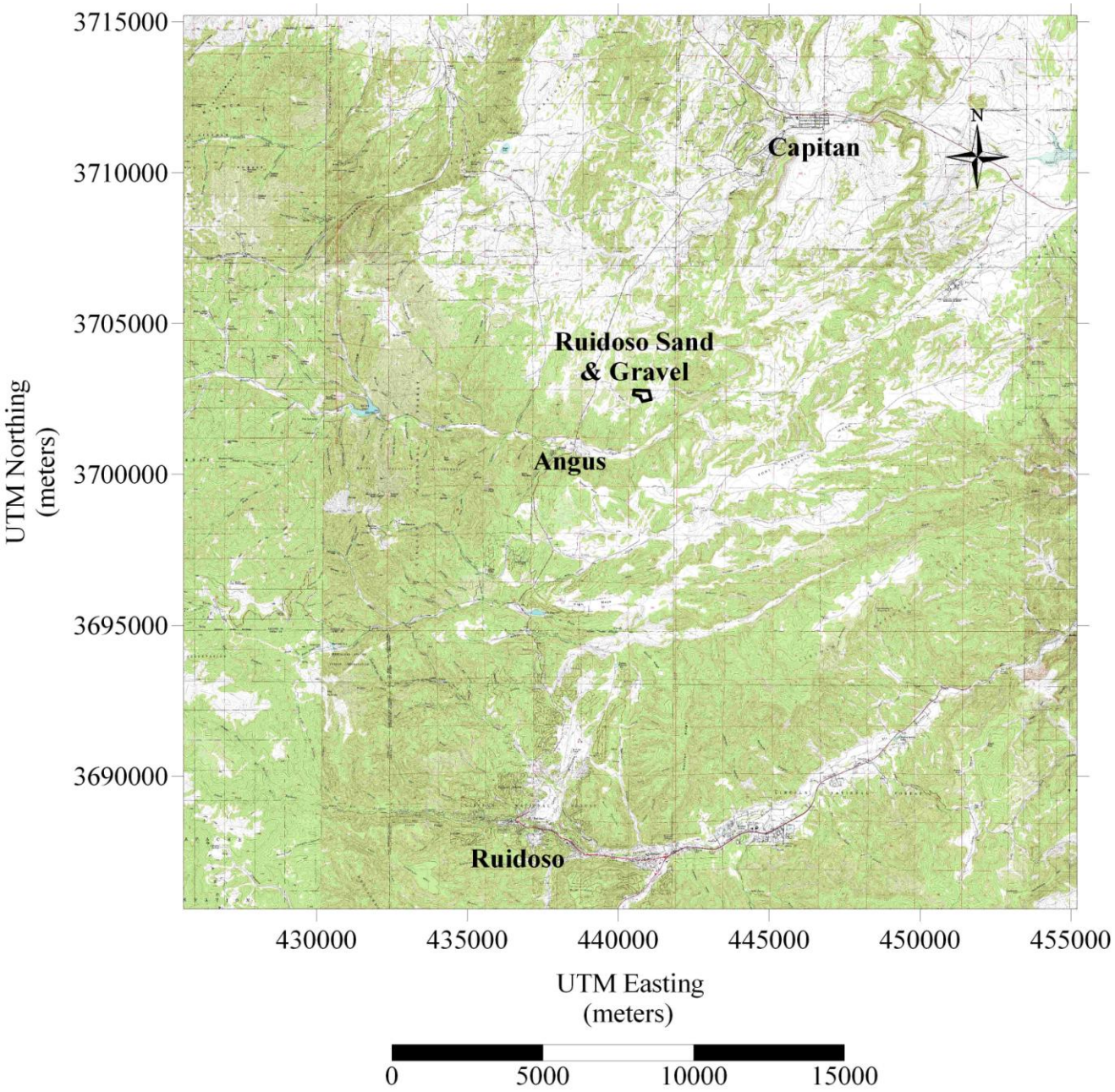


Figure 8-1: Topographical Map showing Rio Bonita HMA Restricted Boundary
7 ½" Topographical Quadrangles: Church Mountain, Nogal, Capitan, Capitan Pass, Nogal Peak, Angus, Fort Stanton, Lincoln, Sierra Blanca Peak, Ruidoso, Ruidoso Downs, Sheeppen Canyon

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")

✓ **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. ✓ A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
2. ✓ 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. ✓ A copy of the property tax record (20.2.72.203.B NMAC).
4. ✓ A sample of the letters sent to the owners of record.
5. ✓ A sample of the letters sent to counties, municipalities, and Indian tribes.
6. ✓ A sample of the public notice posted and a verification of the local postings.
7. ✓ A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
8. ✓ A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
9. ✓ 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. ✓ 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. ✓ 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.

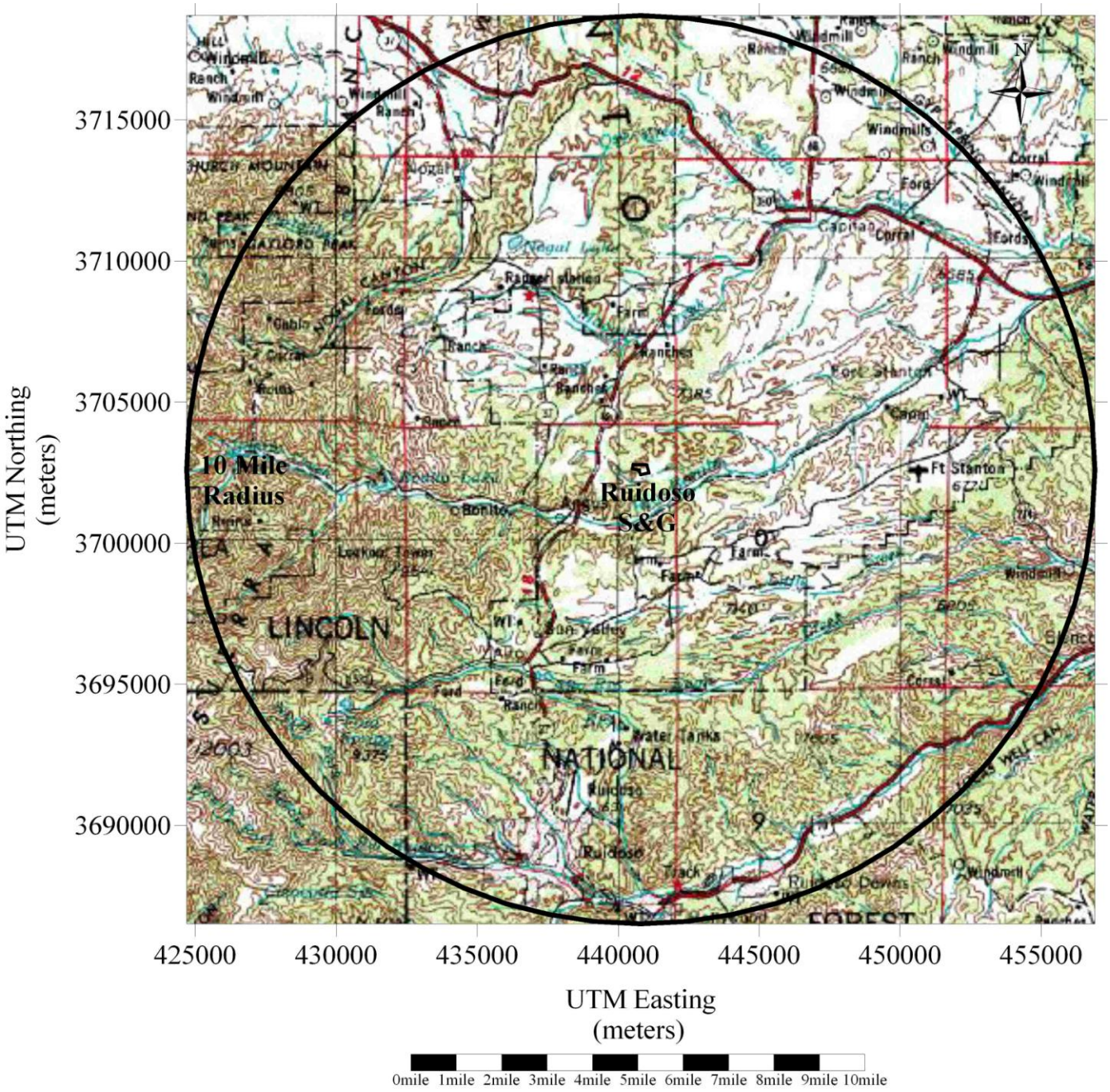


Figure 9-1: Topographical Map showing 10 Mile Radius around Ruidoso Sand & Gravel Site

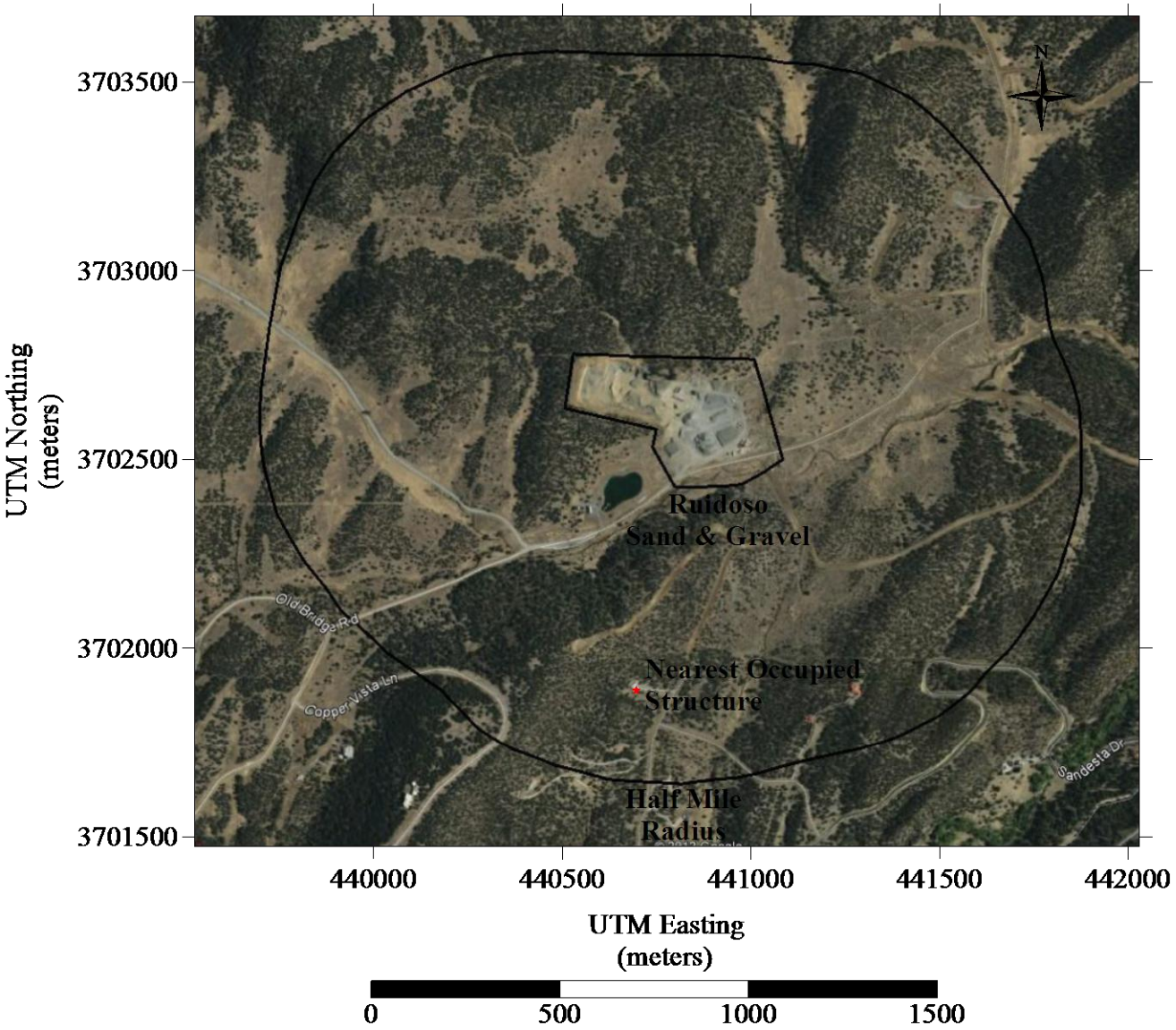


Figure 9-2: Aerial Map showing Half Mile Radius from Restricted Boundary

Neighboring Landowners within ½ Mile

Owner:	Lot	Subdivision
Takai, Hideya and Fukie	14	Copper Ridge
Higholt, Howard	23	Copper Ridge
Peterson, James	24	Copper Ridge
Turner Copper Vista LLC	25	Copper Ridge
Bodin Jr., Anthony	26	Copper Ridge
Romero, Loretta	27	Copper Ridge
Allen Desert Properties	36	Copper Ridge
Rio Bonita, LLC	37	Copper Ridge
Kevani, LLC	38	Copper Ridge
Zelt, Richard and Laureen	39	Copper Ridge
Dreben, Iver and Jacquelen	40	Copper Ridge
McFarland, II, David and Victoria	42	Copper Ridge
Brain, Stan and Constance	33	The Ranches of Sonterra
Terrian, Maichael and Marie	34	The Ranches of Sonterra
Orr, William D	35	The Ranches of Sonterra
Maestas, Richard and Marie	36	The Ranches of Sonterra
Kreltzer, Larry and Corinne	37	The Ranches of Sonterra
Holland, Curtis and Karen	38	The Ranches of Sonterra
Mangan, Michael and Luy	39	The Ranches of Sonterra
Massey, Ronald and Patericia	83A	The Ranches of Sonterra
Rainer, Dietrich and Suzanne Kolb	84	The Ranches of Sonterra
Kirby, Lynn	86	The Ranches of Sonterra
Maloney, Patrick	87	The Ranches of Sonterra
Allan, Daniel and Cynthia	88	The Ranches of Sonterra
Allan, Daniel and Cynthia	89	The Ranches of Sonterra
Hellebush, Stephan and Angela	90	The Ranches of Sonterra
Good, Shawn	91	The Ranches of Sonterra
Neill, Keith and Leslie	92	The Ranches of Sonterra
Tilton, Andrew	93	The Ranches of Sonterra
Pierce, Randell	94	The Ranches of Sonterra
Delgado, Mario	95	The Ranches of Sonterra
Heaney, Michael	96	The Ranches of Sonterra
Ahern, John and Martha	101	The Ranches of Sonterra
Mather, Lawrence and Clare	102	The Ranches of Sonterra
Farrell, Thomas and Mary	103	The Ranches of Sonterra
Ranches of Sonterra, Property Owners Association, Inc.	491A	The Ranches of Sonterra
Rio Bonita Partnership		Hideout and Copper Mountain

Counties, Municipalities, and Indian Tribes within 10 Miles

Robyn Holmes
Otero County Clerk
1104 N. White Sands Blvd. Suite C
Alamogordo, New Mexico 88310

Rhonda Burrows
Lincoln County Clerk
PO Box 338
Carrizozo, NM 88301-0338

Mescalero Apache Tribe
President Frederick Chino, Sr.
P.O. Box 227
Mescalero, NM 88340

Village of Ruidoso
313 Cree Meadows Dr.
Ruidoso, NM 88345

City of Ruidoso Downs
P.O. Box 348
123 Downs Drive
Ruidoso Downs, NM 88346

Village of Capitan
P.O. Box 246
Capitan, NM 88316

PDF File of Landowners, Counties, Municipalities, and Indian Tribes

PDF File of Newspaper Ads

PDF File of Radio Announcement

PDF File of Public Postings

_____[date]

CERTIFIED MAIL XXXX XXXX XXXX XXXX
RETURN RECEIPT REQUESTED *(certified mail is required, return receipt is optional)*

Dear **[Neighbor/Environmental Director/county or municipal official]**
According to New Mexico air quality regulations, Ruidoso Sand and Gravel, a Division of Southwest Paving and Grading, Inc. must announce its intent to apply to the New Mexico Environment Department for an air quality permit for the construction of its aggregate crushing facility. The expected date of application submittal to the Air Quality Bureau is August 10, 2012.

The exact location for the proposed facility known as, Rio Bonita Aggregate, will be at latitude 33 deg, 27 min, 43.4 sec and longitude -105 deg, 38 min, 17.9 sec. The approximate location of this facility is 1.7 miles northeast of the intersection of Highways 37 and 48 in Angus, New Mexico in Lincoln County.

The proposed construction consists of an aggregate crushing plant powered by a 600 kilowatt diesel-fired generator. The aggregate crushing plant will consists of a quarry, an aggregate grizzly feeder with primary crusher, aggregate feeder, screen, secondary crusher, and assorted conveyors and stackers.

The estimated maximum quantities of any regulated air contaminants will be:
These emission estimates could change slightly during the course of the Department's review of the application.

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	12 pph	17 tpy
PM_{10}	5 pph	7 tpy
$PM_{2.5}$	1.5 pph	2.5 tpy
Sulfur Dioxide (SO_2)	1 pph	1 tpy
Nitrogen Oxides (NO_x)	22 pph	50 tpy
Carbon Monoxide (CO)	10 pph	23 tpy
Volatile Organic Compounds (VOC)	1 pph	3 tpy

The standard operating schedule of the facility will be 8 am to 5 pm, 5 days a week, and 40 weeks per year. The maximum operating schedule will be daylight hours, 7 days a week and a maximum of 52 weeks per year. Maximum aggregate production will be 2,000 tons per day and 730,000 tons per year. Truck traffic hours of operation could be as much as 24 hours a day.

The owner and/or operator of the Facility is:

Ruidoso Sand and Gravel
A Division of Southwest Paving and Grading, Inc.
321 Granite Dr.
Ruidoso, New Mexico 88345-7711

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

Permit Programs Manager
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507-3113
(505) 476-4300

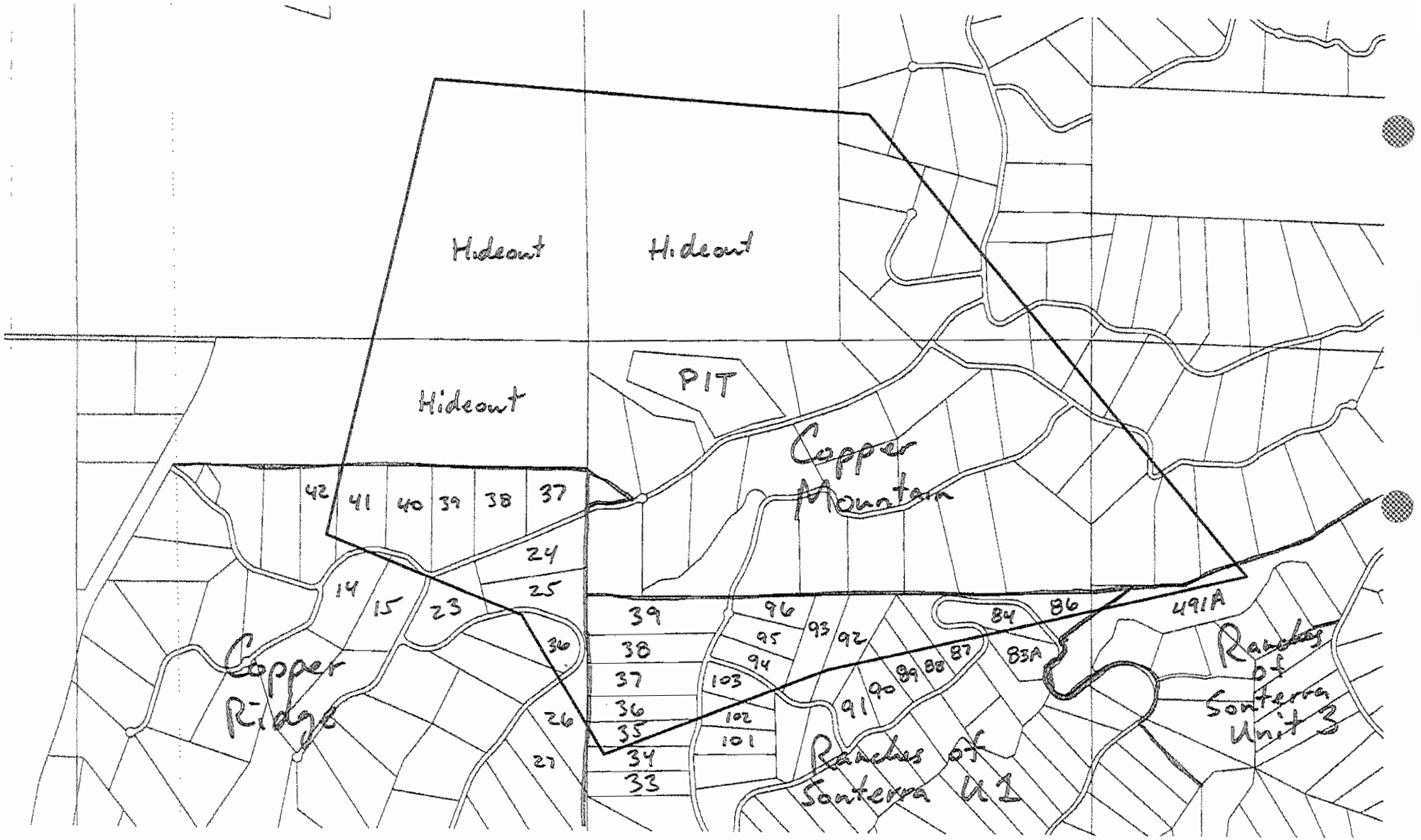
Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice. Please include a legible mailing address with your comments. Once the Department has performed a 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.

Sincerely,

D'Auna Wood

Owner:	Lot	Subdivision
Takai, Hideya and Fukie	14	Copper Ridge
Higholt, Howard	23	Copper Ridge
Peterson, James	24	Copper Ridge
Turner Copper Vista LLC	25	Copper Ridge
Bodin Jr., Anthony	26	Copper Ridge
Romero, Loretta	27	Copper Ridge
Allen Desert Properties	36	Copper Ridge
Rio Bonita, LLC	37	Copper Ridge
Kevani, LLC	38	Copper Ridge
Zelt, Richard and Laureen	39	Copper Ridge
Dreben, Iver and Jacquelen	40	Copper Ridge
McFarland, II, David and Victoria	42	Copper Ridge
Brain, Stan and Constance	33	The Ranches of Sonterra
Terrian, Maichael and Marie	34	The Ranches of Sonterra
Orr, William D	35	The Ranches of Sonterra
Maestas, Richard and Marie	36	The Ranches of Sonterra
Kreltzer, Larry and Corinne	37	The Ranches of Sonterra
Holland, Curtis and Karen	38	The Ranches of Sonterra
Mangan, Michael and Luy	39	The Ranches of Sonterra
Massey, Ronald and Patericia	83A	The Ranches of Sonterra
Rainer, Dietrich and Suzanne Kolb	84	The Ranches of Sonterra
Kirby, Lynn	86	The Ranches of Sonterra
Maloney, Patrick	87	The Ranches of Sonterra
Allan, Daniel and Cynthia	88	The Ranches of Sonterra
Allan, Daniel and Cynthia	89	The Ranches of Sonterra
Hellebush, Stephan and Angela	90	The Ranches of Sonterra
Good, Shawn	91	The Ranches of Sonterra
Neill, Keith and Leslie	92	The Ranches of Sonterra
Tilton, Andrew	93	The Ranches of Sonterra
Pierce, Randell	94	The Ranches of Sonterra
Delgado, Mario	95	The Ranches of Sonterra
Heaney, Michael	96	The Ranches of Sonterra
Ahern, John and Martha	101	The Ranches of Sonterra
Mather, Lawrence and Clare	102	The Ranches of Sonterra
Farrell, Thomas and Mary	103	The Ranches of Sonterra
Ranches of Sonterra, Property Owners Association, Inc.	491A	The Ranches of Sonterra
Rio Bonita Partnership		Hideout and Copper Mountain


Hideout
Hideout
Hideout
PIT
Copper Mountain
Copper Ridge
Ranches of Sonterra U1
Ranches of Sonterra Unit 3
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83A
491A

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
Hideya & Fukie Takai					
Mailing Address			Mail City	Mail State	Mail Zip
Sumiyoshi-ku, Osaka City			Japan		
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	14	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.033	4073056280265	1003859		10.30.2006
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2006	10503	$1,524.75	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	

Description

LOT 14 CONT'G 10.033 ACS.

Description 2

Description 3

7006 2150 0003 7254 5988

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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For delivery information visit our website at www.usps.com®
RUIDOSO NM 88345

Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.75

0107
NORTH VALLEY POST OFFICE
Postmark Here
AUG 23 2012
08/23/2012
ALBUQUERQUE NM 87197-9998

Sent To: City Bank of N M
Street, Apt. No.; or PO Box No.: 1096 Mechem Dr Suite 3
City, State, ZIP+4: Ruidoso N M 88345

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Total Records: 1

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Owner's Name					
Howard Higholt					
Mailing Address			Mail City	Mail State	Mail Zip
16 Corporate Plaza Drive			Newport Beach	CA	92660
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	23	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.043	4073056382274	1006145		11.05.2010
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2010	7193	$1,524.75	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 23 CONT'G 10.043 ACS.					
Description 2					
Description 3					

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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For delivery information visit our website at www.usps.com®
NEWPORT BEACH CA 92660 OFFICIAL USE

Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ 5.75

Postmark Here
AUG 28 2012
NORTH VALLEY POSTAL FACILITY
08/28/2012

Sent To: Howard Highott
Street, Apt. No.; or PO Box No.: 16 Corporate Plaza Drive
City, State, ZIP+4: Newport Beach, CA 92660

PS Form 3800, August 2006 See Reverse for Instructions

1 of 1

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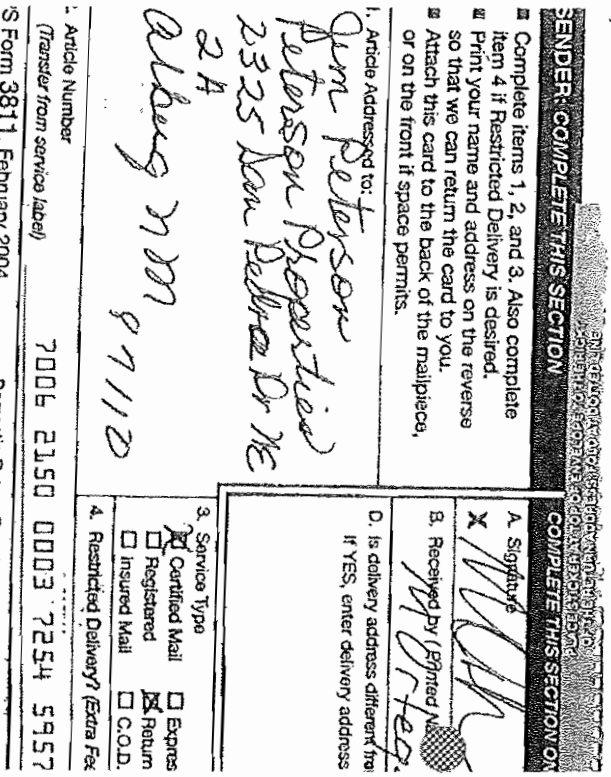
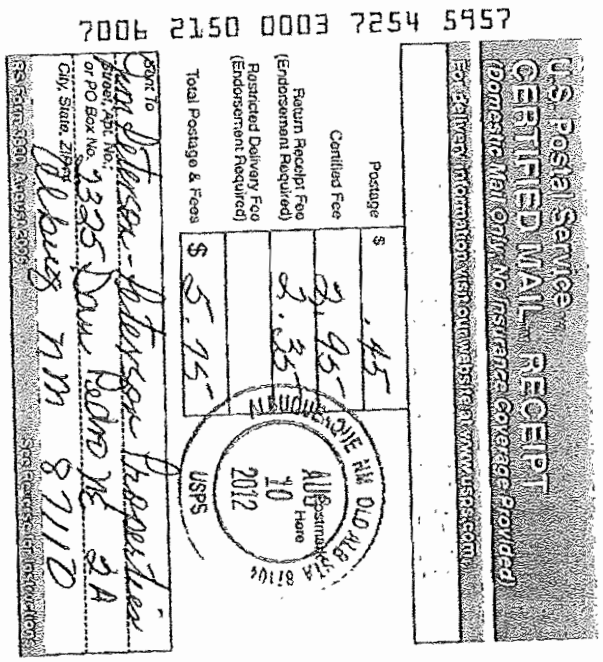
Total Records: 1

Show Map | Return

Owner's Name					
James A. Peterson					
Mailing Address			Mail City	Mail State	Mail Zip
2325 San Pedro Ne Ste 2a			Albuquerque	NM	87110
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	24	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.159	4073056476220	1003161		09.16.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	9012	$1,466.11	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 24 CONT'G 10.159 ACS.					
Description 2					





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Total Records: 1

Show Map | Return

Owner's Name					
Turner Copper Vista Llc,					
Mailing Address			Mail City	Mail State	Mail Zip
P.O. Box 35			Satin	TX	76685
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	25	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.314	4073056481262	1003838	2008	10.10.2006
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2006	9758	$6,277.54	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
1,855	1,494	0	0	3,349	
Description					
LOT 25 CONT'G 10.314 ACS.					
Description 2					
Description 3					

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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For delivery information visit our website at www.usps.com®
SATIN TX 76685

Postage	$ $0.45 ~~$0.45~~	0107
Certified Fee	$2.85 ~~$2.85~~	03
Return Receipt Fee (Endorsement Required)	$2.35 ~~$2.35~~	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$5.75 ~~$5.75~~	08/28/2012

AUG 28 2012 NORTH VALLEY POST OFFICE ALBUQUERQUE NM 87199-9998

Sent To: Turner Copper Vista LLC
Street, Apt. No.; or PO Box No.: PO Box 35
City, State, ZIP+4: Satin TX 76685

PS Form 3800, August 2006 See Reverse for Instructions

7008 0150 0003 1054 8478

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Total Records: 1

Show Map | Return

Owner's Name					
Anthony A. Bodin Jr.					
Mailing Address			Mail City	Mail State	Mail Zip
771 Fairway Dr.			Boulder City	NV	89005
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	26	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.031	4073056505391	1004292		07.10.2007
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2007	6067	$1,524.75	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 26 CONT'G 10.031 ACS.					
Description 2					
Description 3					

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
BOULDER CITY NV 89005

Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.75

0107 ALBUQUERQUE NM 87199-9998 Postmark Here AUG 28 2012 NORTH VALLEY POST OFFICE 08/28/2012

Sent To: Anthony Bodin, Jr.
Street, Apt. No.; or PO Box No.: 771 Fairway Dr.
City, State, ZIP+4: Boulder City, NV 89005

PS Form 3800, August 2006 See Reverse for Instructions

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
Loretta Romero					
Mailing Address			Mail City	Mail State	Mail Zip
6000 Beargrass Ct. Ne			Albuquerque	NM	87111
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	27	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.034	4073056489446	1003690		05.24.2006
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2006	4897	$1,466.11	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 27 CONT'G 10.034 ACS.					
Description 2					
Description 3					

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Postage	$ $0.45	0107
Certified Fee	$2.95	
Return Receipt Fee (Endorsement Required)	$2.25	
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $5.75	08/28/2012

Postmark Here
ALBUQUERQUE NM 87111 AUG 28 2012
NORTH VALLEY POST OFFICE

Sent To: Loretta Romero
Street, Apt. No.; or PO Box No.: 6000 Beargrass Ct NE
City, State, ZIP+4: Albuq NM 87111

PS Form 3800, August 2006 See Reverse for Instructions

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Total Records: 1

Show Map | Return

Owner's Name					
ALLEN DESERT PROPERTIES					
Mailing Address			Mail City	Mail State	Mail Zip
101 Metate Pl.			Palm Desert	CA	92260
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	36	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.129	4073056468307	1003213		11.09.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	11337	$1,694.15	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 36 CONT'G 10.129 ACS.					
Description 2					
Description 3					

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PALM DESERT CA 92260

Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.75

0107
ALBUQUERQUE NM 03
Postmark Here
AUG 28 2012
NORTH VALLEY POST OFFICE
08/28/2012

Sent To: Allen Desert Properties
Street, Apt. No.; or PO Box No.: 101 Metate Pl
City, State, ZIP+4: Palm Desert CA 92260

PS Form 3800, August 2006 See Reverse for Instructions

7008 2450 0002 7254 6165

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Total Records: 1

Show Map | Return

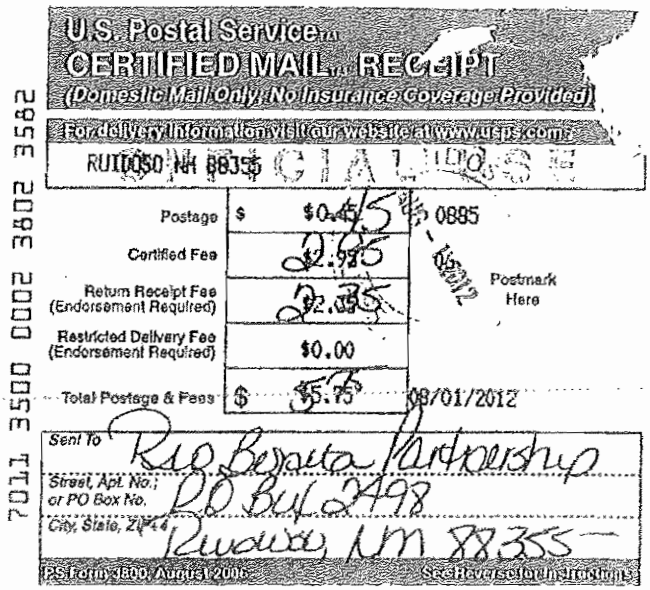
Owner's Name					
Rio Bonito Llc					
Mailing Address			Mail City	Mail State	Mail Zip
72980 Fred Waring Dr. Ste B			Palm Desert	CA	92260
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	37	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.117	4073056501159	298810		00.00.0000
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
0	0	$9,034.86	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	

Description

LOT 37 CONT'G 10.117 ACS.

Description 2

Description 3



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Total Records: 1

Show Map | Return

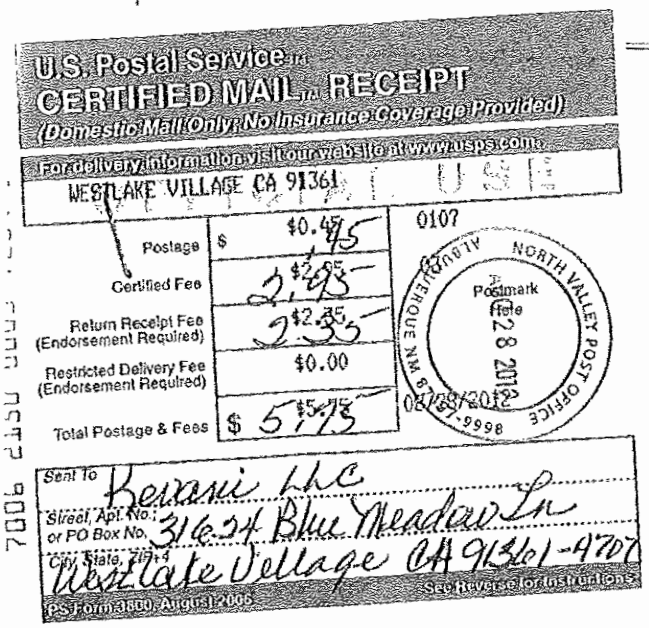
Owner's Name				
Kevani Llc				
Mailing Address		Mail City	Mail State	Mail Zip
31624 Blue Meadow Ln		Westlake Village	CA	91361-4707
Prop St #	Prop Street	Prop Zip	Lot	Block
		88312	38	
Unit	Tract	Apartment	Building	Phase
Subdivision			Section	Township
Copper Ridge Sd				
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.002	4073056434171	1003141		08.23.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	8098	$1,466.11	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	

Description

LOT 38 CONT'G 10.002 ACS.

Description 2

Description 3



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Total Records: 1

Show Map | Return

Owner's Name				
Richard E. & Laureen H. Zelt				
Mailing Address		Mail City	Mail State	Mail Zip
14190 Horizon Blvd Suite B		El Paso	TX	79928
Prop St #	Prop Street	Prop Zip	Lot	Block
		88312	39	
Unit	Tract	Apartment	Building	Phase
Subdivision			Section	Township
Copper Ridge Sd				
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.073	4073056386181	1003366		08.17.2006
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2006	7804	$1,524.75	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	

Description

LOT 39 CONT'G 10.073 ACS.

Description 2

Description 3

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EL PASO TX 79928

Postage	$ .45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$5.75

POSTMARK: POST OFFICE 03 AUG 2 2012 Postmark Here NORTH VALLEY POST OFFICE EL PASO TX 79998

Sent To: Richard Zelt Suite B
Street, Apt. No.; or PO Box No.: 14190 Horizon Blvd
City, State, ZIP+4: El Paso, TX

PS Form 3800, August 2006 See Reverse for Instructions

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Total Records: 1

Show Map | Return

Owner's Name					
Iver & Jacqueleen Dreben					
Mailing Address			Mail City	Mail State	Mail Zip
5319 Canoga Ave.			Woodland Hills	CA	91364
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	40	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.039	4073056343179	1003174		09.23.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	9215	$1,524.75	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	

Description

LOT 40 CONT'G 10.039 ACS.

Description 2

Description 3

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WOODLAND HILLS CA 91364

Postage	$ $0.45 .45
Certified Fee	$2.95 2.95
Return Receipt Fee (Endorsement Required)	$2.35 2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.75 5.75

ALBUQUERQUE NM 87199 03 Postmark Here AUG 8 2012 NORTH VALLEY STATION 08/20/2012

Sent To: Iver & Jacqueleen Dreben
Street, Apt. No., or PO Box No.: 5319 Canoga Ave
City, State, ZIP+4: Woodland Hills, CA 91364

PS Form 3800, August 2006 See Reverse for Instructions

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
David B. & Victoria J. McFarland II					
Mailing Address			Mail City	Mail State	Mail Zip
113 Netas Ct			Palm Desert	CA	92260
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	42	
Unit	Tract	Apartment		Building	Phase
Subdivision				Section	Township
Copper Ridge Sd					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	10.039	4073056249188	1003231		11.28.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	12292	$1,524.75	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	

Description

LOT 42 CONT'G. 10.039 ACS.

Description 2

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

David McFarland
113 Netas Court
Palm Desert, Ca
92260

COMPLETE THIS SECTION

A. Signature
X

B. Received by (Printed Name)

C. Is delivery address different from item 1? If YES, enter delivery address below:

3. Service Type
☑ Certified Mail ☐
☐ Registered ☐
☐ Insured Mail ☐

4. Restricted Delivery? (Extra Fee)

2. Article Number (Transfer from service label) 7006 2150 0003 7254 59

PS Form 3811, February 2004 Domestic Return Receipt

7006 2150 0003 7254 5971

U.S. Postal Service
CERTIFIED MAIL RECEIPT
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Postage	$ .45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 5.75

Sent To: David McFarland
Street, Apt. No.; or PO Box No.: 113 Netas Court
City, State, ZIP+4: Palm Desert, Ca 92260

PS Form 3800, August 2006 See Reverse for Instructions

ALBUQUERQUE, NM OLD TOWN 87104
OCT 10 2012
USPS

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Total Records: 1

Show Map | Return

Owner's Name					
Stan & Constance Brain					
Mailing Address			**Mail City**	**Mail State**	**Mail Zip**
17662 Bridle Lane			Jupiter	FL	33478
Prop St #	**Prop Street**		**Prop Zip**	**Lot**	**Block**
			88312	33	
Unit	**Tract**	**Apartment**		**Building**	**Phase**
1					
Subdivision				**Section**	**Township**
The Ranches Of Sonterra					
Range	**Acre**	**Mapcode**	**Owner #**	**Year Built**	**Recorded Date**
	0	4074056055464	1004275		12.17.2004
Deedbook	**Deedpage**	**Tax Amount**	**Tax Year**	**Tax Due**	**Tax Paid**
377	744	$288.32	2011		Y
Main Floor	**Second**	**Third**	**Downstairs**	**Total Sq. Ft.**	
0	0	0	0	0	
Description					
LOT 33					
Description 2					
Description 3					

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JUPITER FL 33478

Postage	$ 0.45	0107
Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ 5.75	08/28/2012

Postmark Here: ALBUQUERQUE NM 87197-9998 NORTH VALLEY POST OFFICE AUG 28 2012

Sent To: Stan & Constance Brain
Street, Apt. No.; or PO Box No.: 17662 Bridle Lane
City, State, ZIP+4: Jupiter, Fl 33478

PS Form 3800, August 2006 See Reverse for Instructions

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
Michael S. & Marie Karen Terrian					
Mailing Address			Mail City	Mail State	Mail Zip
4381 Loma De Brisas			El Paso	TX	79934
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	34	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056054438	1003871		11.16.2006
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2006	11185	$300.14	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 34					
Description 2					
Description 3					

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Postage	$ 0.45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	0.00
Total Postage & Fees	$ 5.75

Postmark Here: ALBUQUERQUE NM 87119 0107 03 AUG 28 2012

Sent To: Michael & Marie Terrian
Street, Apt. No.; or PO Box No.: 4381 Loma De Brisas
City, State, ZIP+4: El Paso, TX 79934

PS Form 3800, August 2006 — See Reverse for Instructions

7006 2150 0003 4554 8454

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
William D. Orr					
Mailing Address			Mail City	Mail State	Mail Zip
3007 Woodland Hills Dr. #229			Kingwood	TX	77339-1403
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	35	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056058412	293190		03.23.2007
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2007	2575	$306.52	2011	$171.86	N
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 35					
Description 2					
Description 3					

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KINGWOOD TX 77339 OFFICIAL USE

Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$2.85
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.85

0107

Postmark Here
05/28/2012

Sent To: William Orr
Street, Apt. No.; or PO Box No.: 3007 Woodland Hills Dr #229
City, State, ZIP+4: Kingwood, TX 77339-1403

PS Form 3800, August 2006 See Reverse for Instructions

7007 0710 0003 3336 3706

TAME - IT®

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
Richard & Maria Teresa Maestas					
Mailing Address			Mail City	Mail State	Mail Zip
137 Winterhawk Heights			Alto	NM	88312
Prop St #	Prop Street		Prop Zip	Lot	Block
137	Winterhawk Heights		88312	36	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056058386	284064	1996	00.00.0000
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
0	0	$1,018.15	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
1,764	0	0	0	1,764	
Description					
LOT 36					
Description 2					
Description 3					

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ALTO NM 88312

Postage	$ $0.45	0107
Certified Fee	$2.95	03
Return Receipt Fee (Endorsement Required)	$2.35	
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ 5.75	08/23/2012

Postmark Here
AUG 23 2012
ALBUQUERQUE NM 87197-9998
NORTH VALLEY POST OFFICE

Sent To: Richard + Maria Maestas
Street, Apt. No.; or PO Box No.: 137 Winterhawk Height
City, State, ZIP+4: Alto, NM 88312

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0003 3338 3708

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Total Records: 1

Show Map | Return

Owner's Name					
Larry W. & Corinne L. Kreltzer					
Mailing Address			Mail City	Mail State	Mail Zip
139 Winterhawk Heights			Alto	NM	88312
Prop St #	Prop Street		Prop Zip	Lot	Block
139	Winterhawk Heights		88312	37	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056059355	273370	2007	03.07.2006
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2006	2212	$2,023.13	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
1,726	448	0	0	2,174	
Description					
LOT 37					
Description 2					
Description 3					

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Postage	$ $0.45 .45
Certified Fee	$2.95 2.95
Return Receipt Fee (Endorsement Required)	$2.35 2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.75 5.75

0107
Postmark Here
AUG 28 2012
ALBUQUERQUE NM 87199
POST OFFICE
08/28/2012

Sent To: Larry & Corinne Kreltzer
Street, Apt. No.; or PO Box No.: 139 Winterhawk Heights
City, State, ZIP+4: Alto NM 88312

PS Form 3800, August 2006 See Reverse for Instructions

7006 2150 0003 7254 5447

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
Curtis & Karen W. Holland					
Mailing Address			Mail City	Mail State	Mail Zip
4426 La Cienoga Pl.			Las Cruces	NM	88013-4211
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	38	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056064323	305410		02.21.2006
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2006	1696	$228.06	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 38					
Description 2					
Description 3					

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Postage	$ $0.45 .45
Certified Fee	$2.85 2.75
Return Receipt Fee (Endorsement Required)	$2.35 2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.75 5.75

0107 03 Postmark Here
AUG 28 2012
NORTH VALLEY POST OFFICE ALBUQUERQUE NM 87197-9998
08/28/2012

Sent To: Curtis & Karen Holland
Street, Apt. No.; or PO Box No. 4426 La Cienoga Pl
City, State, ZIP+4 Las Cruces, NM 88013-4211
PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0002 3336 3775

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
Michael J. & Luy Yomar Mangan					
Mailing Address			Mail City	Mail State	Mail Zip
2305 W Ray Ave.			Artesia	NM	88210
Prop St #	Prop Street		Prop Zip	Lot	Block
147	Winterhawk Heights		88312	39	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056071288	351515	1996	06.29.2009
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2009	4800	$1,053.72	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
1,888	0	0	0	1,888	

Description

LOT 39

Description 2

Description 3

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ARTESIA NM 88210

Postage	$ $0.45 → .45
Certified Fee	$2.95 → 2.95
Return Receipt Fee (Endorsement Required)	$2.35 → 2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.75 → 5.75

0107
08/28/2012
Postmark Here
AUG 28 2012
ALBUQUERQUE NM 871
NORTH VALLEY STATION

Sent To: Michael & Luy Mangan
Street, Apt. No., or PO Box No.: 2305 W Ray Ave
City, State, ZIP+4: Artesia, NM 88210

PS Form 3800, August 2006 — See Reverse for Instructions

7006 2150 0003 7672 8478

TAME - IT®

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
Ronald B. & Patricia A. Massey					
Mailing Address			Mail City	Mail State	Mail Zip
237 Sandesta Dr.			Alto	NM	88312
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	83A	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	5.342	4074056451325	266745		04.01.2004
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
352	510	$3,453.18	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	

Description

LOT 83A CONT'G 5.342 ACS.

Description 2

Description 3

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ALTO NM 88312

OFFICIAL USE

Postage	$ $0.45	0107
Certified Fee	2.95	
Return Receipt Fee (Endorsement Required)	2.35	
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ 5.75	08/23/2012

POST OFFICE 03 ALBUQUERQUE NM 87197-9998 Postmark Here AUG 23 2012

Sent To: Ronald & Patricia Massey
Street, Apt. No.; or PO Box No. 237 Sandesta Dr
City, State, ZIP+4 Alto, NM 88312

PS Form 3800, August 2006 See Reverse for Instructions

7007 0710 0003 3336 3812

1 of 1

8/14/2012 10:21 AM

TAME - IT®

Tax Assessor Made Easy - Information Technology

Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
Dietrich Rainer & Suzanne B. Kolb					
Mailing Address			Mail City	Mail State	Mail Zip
P.O. Box 233			Huntsville	UT	84317
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	84	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056419288	299570		10.30.2007
Deadbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2007	9945	$255.42	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 84					
Description 2					
Description 3					

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Certified Fee	$2.95 2.95	
Return Receipt Fee (Endorsement Required)	$2.35 2.35	
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $5.75 5.75	

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Sent To: Dietrich Rainer & Suzanne Kolb
Street, Apt. No.; or PO Box No.: P.O. Box 233
City, State, ZIP+4: Huntsville, UT 84317

PS Form 3800, August 2006 — See Reverse for Instructions

7012 0470 0000 3336 3805

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Total Records: 1

Show Map | Return

Owner's Name					
Lynn Elizabeth Kirby					
Mailing Address			Mail City	Mail State	Mail Zip
5115 Fairview Dr.			Austin	TX	78731
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	86	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	6.074	4074056480278	257763		09.30.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	9577	$113.50	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
PORTION OF LOT 86 CONT'G 6.074 ACS.					
Description 2					
Description 3					

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Postage	$ $0.45 .45	0107
Certified Fee	$2.95 2.95	
Return Receipt Fee (Endorsement Required)	$2.35 2.35	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $5.75 5.75	08/28/2012

ALBUQUERQUE NM 87107 NORTH VALLEY POST OFFICE AUG 28 2012

Sent To Lynn Kirby
Street, Apt. No.; or PO Box No. 5115 Fairview Dr
City, State, ZIP+4 Austin TX 78731

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Total Records: 1

Show Map | Return

Owner's Name					
Patrick J. Maloney					
Mailing Address			Mail City	Mail State	Mail Zip
1846 Nw 43rd Ave.			Camas	WA	98607
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	87	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056369303	279095		07.08.2002
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
281	1121	$272.96	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 87					
Description 2					
Description 3					

7007 0710 0003 3336 3624

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Postage	$ 1.45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.85
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ 5.75

Postmark Here
AUG 28 2012
08/28/2012
0107
ALBUQUERQUE NM 87187-9998
NORTH VANCOUVER POST OFFICE

Sent To: Patrick Maloney
Street, Apt. No., or PO Box No.: 1846 NW 43rd Ave
City, State, ZIP+4: Camas WA 98607

PS Form 3800, August 2006 — See Reverse for Instructions

8/14/2012 10:21 AM

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Total Records: 1

Show Map | Return

Owner's Name					
Daniel & Cynthia Allan					
Mailing Address			Mail City	Mail State	Mail Zip
5110 Oriole Rd.			Las Cruces	NM	88011
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	88	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056343317	273024		00.00.0000
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
0	0	$256.61	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 88					
Description 2					
Description 3					

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Postage	$ $0.45	0107
Certified Fee	$2.95	
Return Receipt Fee (Endorsement Required)	$2.35	
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $5.75	08/28/2012

Postmark Here
AUG 28 2012
NORTH VALLEY POST OFFICE LAS CRUCES NM 88007

Sent To: Daniel & Cynthia Allen
Street, Apt. No.; or PO Box No.: 5110 Oriole Rd
City, State, ZIP+4: Las Cruces, NM 88011

7007 0710 0003 3336 3720

8/14/2012 10:21 AM

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Total Records: 1

Show Map | Return

Owner's Name					
Daniel & Cynthia Allan					
Mailing Address			Mail City	Mail State	Mail Zip
5110 Orlole Rd.			Las Cruces	NM	88011
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	89	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056324335	273026		00.00.0000
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
0	0	$373.38	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 89					
Description 2					
Description 3					

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Postage	$ .45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ 5.75

0107 AUG 28 2012 Postmark Here
NORTH VALLEY POST OFFICE ALBUQUERQUE NM 87114
08/28/2012

Sent To: Daniel & Cynthia Allan
Street, Apt. No.; or PO Box No. 5110 Orlole Rd
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PS Form 3800 August 2006 See Reverse for Instructions

8/14/2012 10:22 AM

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Show Map | Return

Owner's Name					
Stephen P. & Angela S. Hellebush					
Mailing Address			Mail City	Mail State	Mail Zip
2041 S Jay Way			Lakewood	CO	80227
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	90	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056305362	297840		00.00.0000
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
0	0	$317.17	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 90					
Description 2					
Description 3					

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Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$2.95
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $6.35

0107

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08/28/2012

ALBUQUERQUE NM 87197-9998
NORTH VALLEY POST OFFICE

Sent To: Stephen & Angela Hellebush
Street, Apt. No.; or PO Box No. 2041 S. Jay Way
City, State, ZIP+4 Lakewood CO 80227

PS Form 3800, August 2006 See Reverse for Instructions

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Quick Print

Total Records: 1

Show Map | Return

Owner's Name					
Shawn Good					
Mailing Address			Mail City	Mail State	Mail Zip
18528 Blue Pond Dr.			Pflugerville	TX	78660-5574
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	91	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056276385	330370		02.03.1995
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
95	740	$372.42	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 91					
Description 2					
Description 3					

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Postage	$ $0.45 0.45
Certified Fee	$2.95 2.95
Return Receipt Fee (Endorsement Required)	$2.35 2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.75 5.75

Postmark Here — NORTH VALLEY POST OFFICE AUG 28 2012 — 08/28/2012

Sent To: Shawn Good
Street, Apt. No.; or PO Box No.: 18528 Blue Pond Dr
City, State, ZIP+4: Pflugerville, TX 78660-5574

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7006 2150 0003 7254

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Total Records: 1

Show Map | Return

Owner's Name					
Keith & Leslie Neill					
Mailing Address			Mail City	Mail State	Mail Zip
2131 East Webb St.			Brownfield	TX	79316
Prop St #	Prop Street		Prop Zip	Lot	Block
112	Cimarron Trl		88312	92	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056272315	1001258	1996	02.29.2012
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2012	1328	$1,794.98	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
1,911	901	0	0	2,812	

Description
LOT 92

Description 2

Description 3

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Postage	$ 0.45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ 5.75

Postmark Here
AUG 28 2012
ALBUQUERQUE NM 87101
POST OFFICE

7006 2150 0003 7254 5207

Sent To: Keith & Leslie Neill
Street, Apt. No.; or PO Box No.: 2131 East Webb St
City, State, ZIP+4: Brownfield TX 79316

PS Form 3800, August 2006 See Reverse for Instructions

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Total Records: 1

Show Map | Return

Owner's Name					
Andrew James Tilton					
Mailing Address			Mail City	Mail State	Mail Zip
606 Nahane Dr.			South Lake Tahoe	CA	96150
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	93	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056236320	317512		10.31.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	10881	$462.62	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 93					
Description 2					
Description 3					

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Postage	$ $0.45 .45	0107
Certified Fee	$2.95 2.95	
Return Receipt Fee (Endorsement Required)	$2.35 2.35	
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $5.75 5.75	

Postmark Here
AUG 28 2012
08/28/2012
NORTH VALLEY POST OFFICE
ALBUQUERQUE, NM 871-9998

Sent To: Andrew Tilton
Street, Apt. No. or PO Box No.: 606 Nahane Dr
City, State, ZIP+4: South Lake Tahoe, CA 96150

PS Form 3800, August 2006 See Reverse for Instructions

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Total Records: 1

Show Map | Return

Owner's Name					
Randall S. Pierce					
Mailing Address			Mail City	Mail State	Mail Zip
4710 Shadywood Lane			Colleyville	TX	76034
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	94	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056174335	304070		02.10.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
381	1169	$281.58	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 94					
Description 2					
Description 3					

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Postage	$ $0.45 .45	0107
Certified Fee	$2.95 2.95	07
Return Receipt Fee (Endorsement Required)	$2.35 2.35	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $5.75 5.75	08/28/2012

NORTH VALLEY POST OFFICE
ALBUQUERQUE NM 87197-9998
AUG 28 2012

Sent To: Randall Pierce
Street, Apt. No.; or PO Box No.: 4710 Shadywood Lane
City, State, ZIP+4: Colleyville TX 76034

PS Form 3800, August 2006 See Reverse for Instructions

1 of 1

8/14/2012 10:24 AM

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Total Records: 1

Show Map | Return

Owner's Name					
Mario Delgado					
Mailing Address			Mail City	Mail State	Mail Zip
204 E A St.			Lordsburg	NM	88045
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	95	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056184308	299670		00.00.0000
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
0	0	$207.69	2011	$103.84	N
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 95					
Description 2					
Description 3					

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Postage	$ $0.45 .45	0107
Certified Fee	$2.95 2.95	03
Return Receipt Fee (Endorsement Required)	$2.35 2.35	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $5.75 5.75	08/28/2012

ALBUQUERQUE NM NORTH VALLEY POST OFFICE AUG 28 2012

Sent To: Mario Delgado
Street, Apt. No.; or PO Box No.: 204 E A St
City, State, ZIP+4: Lordsburg, NM 88045

PS Form 3800, August 2006 See Reverse for Instructions

7006 2150 0003

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Total Records: 1

Show Map | Return

Owner's Name					
Michael A. Heaney					
Mailing Address			Mail City	Mail State	Mail Zip
28615 Sheeks			Flat Rock	MI	48134
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	96	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056196280	273638		00.00.0000
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
0	0	$236.42	2011	$368.53	N
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 96					
Description 2					
Description 3					

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Postage	$ .45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ 5.75

NORTH VALLEY POST OFFICE ALBUQUERQUE NM 87199998
AUG 28 2012 Postmark Here
08/28/2012

7006 2150 0003 7254 6046

Sent To: Michael Heaney
Street, Apt. No.: or PO Box No.: 28615 Sheeks
City, State, ZIP+4: Flat Rock MI 48134

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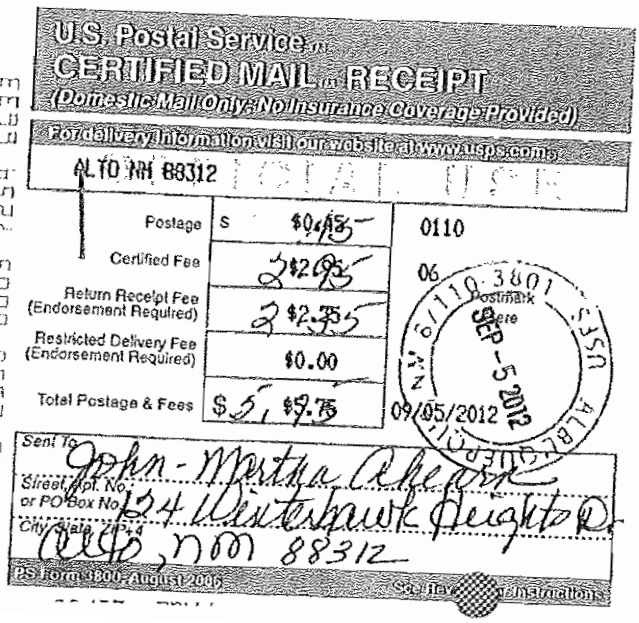
Total Records: 1

Show Map | Return

Owner's Name					
John W. & Martha Ahearn					
Mailing Address			Mail City	Mail State	Mail Zip
124 Winterhawk Heights Dr.			Alto	NM	88312
Prop St #	Prop Street		Prop Zip	Lot	Block
124	Winterhawk Heights		88312	101	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056154420	324792	2005	09.06.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	8607	$2,454.94	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
2,792	0	0	0	2,792	
Description					
LOT 101					
Description 2					
Description 3					



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Total Records: 1

Show Map | Return

Owner's Name					
Lawrence R. & Clare J. Mather					
Mailing Address			Mail City	Mail State	Mail Zip
P.O. Box 1432			Alto	NM	88312-1432
Prop St #	Prop Street		Prop Zip	Lot	Block
130	Winterhawk Heights		88312	102	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056154391	311882	2007	10.11.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	9960	$3,311.47	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
2,749	0	0	1,759	4,508	
Description					
LOT 102					
Description 2					
Description 3					

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Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.35
Restricted Delivery Fee (Endorsement Required)	0.00
Total Postage & Fees	$ 5.75

Postmark Here
08/28/2012
ALBUQUERQUE NM 87114
NORTH VALLEY POST OFFICE

Sent To: Lawrence & Clare Mather
Street, Apt. No.; or PO Box No.: PO Box 1432
City, State, ZIP+4: Alto, NM 88312-1432

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Total Records: 1

Show Map | Return

Owner's Name					
Thomas P. & Mary L. Farrell					
Mailing Address			Mail City	Mail State	Mail Zip
P.O. Box 758			Ruidoso	NM	88355
Prop St #	Prop Street		Prop Zip	Lot	Block
133	Cimarron Trl		88312	103	
Unit	Tract	Apartment		Building	Phase
1					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	0	4074056156362	298578		12.16.2005
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
2005	12975	$528.20	2011	$528.20	N
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
LOT 103					
Description 2					
Description 3					

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RUIDOSO NM 88355

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Postage	$ 0.46
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ 5.75

0107
03
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ALBUQUERQUE NM 87197
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08/28/2012

Sent To: Thomas & Mary Farrell
Street, Apt. No.; or PO Box No. PO Box 758
City, State, ZIP+4 Ruidoso, NM 88355

PS Form 3800, August 2006 See Reverse for Instructions

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Total Records: 1

Show Map | Return

Owner's Name					
RANCHES OF SONTERRA PROPERTY OWNERS ASSOCIATION INC.					
Mailing Address			Mail City	Mail State	Mail Zip
P.O. Box 1391			Alto	NM	88312
Prop St #	Prop Street		Prop Zip	Lot	Block
			88312	491A	
Unit	Tract	Apartment		Building	Phase
3					
Subdivision				Section	Township
The Ranches Of Sonterra					
Range	Acre	Mapcode	Owner #	Year Built	Recorded Date
	5.294	4074056502333	338707		00.00.0000
Deedbook	Deedpage	Tax Amount	Tax Year	Tax Due	Tax Paid
0	0	$129.34	2011		Y
Main Floor	Second	Third	Downstairs	Total Sq. Ft.	
0	0	0	0	0	
Description					
PORTION OF LOT 491A CONT'G 5.294 ACS.					
Description 2					
Description 3					

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ALTO NM 88312
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Postage	$ $0.45
Certified Fee	$2.85
Return Receipt Fee (Endorsement Required)	$2.55
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.85

0107
ALBUQUERQUE NM 87102-03
Postmark Here
AUG 28 2012
08/28/2012

Sent To: Ranches of Sonterra Property Owners
Street, Apt. No.; or PO Box No. PO Box 1391
City, State, ZIP+4 Alto NM 88312

PS Form 3800, August 2006 See Reverse for Instructions

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Rio Bonita Partnership
P.O Box 2498
Ruidoso, NM 88355

A. Signature
X C.H Stevens ☐ Agent ☐ Addressee

B. Received by (Printed Name) C.H Stevens
C. Date of Delivery 8-3-12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7011 3500 0002 3802 3582

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

7011 3500 0002 3802 3582

(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com
RUIDOSO NM 88355 CERTIFIED

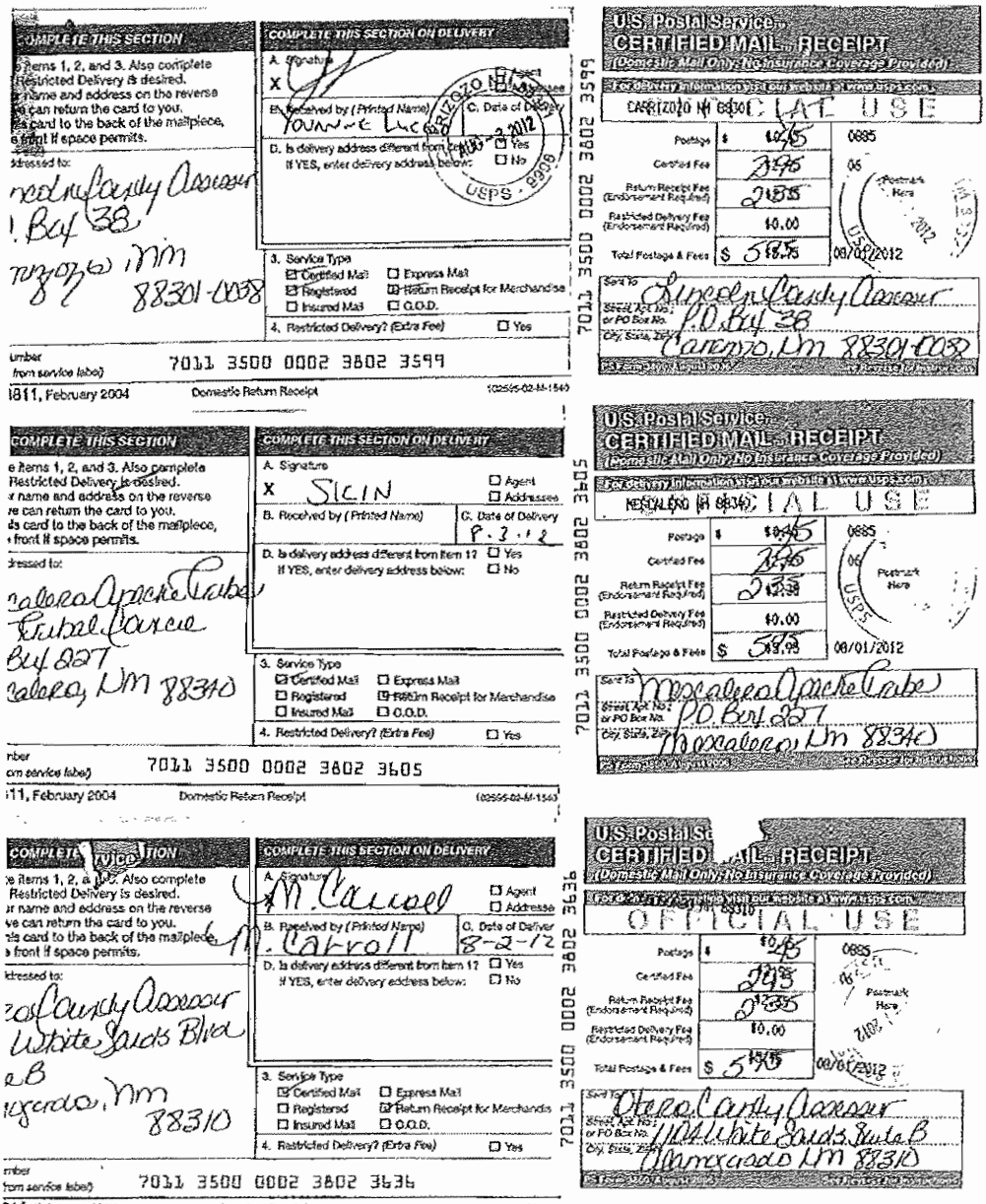
Postage	$ $0.45
Certified Fee	$2.95
Return Receipt Fee (Endorsement Required)	$2.35
Restricted Delivery Fee (Endorsement Required)	$0.00
Total Postage & Fees	$ $5.75

0885 AUG - 1 2012 Postmark Here

08/01/2012

Sent To Rio Bonita Partnership
Street, Apt. No.; or PO Box No. P.O Box 2498
City, State, ZIP+4 Ruidoso, NM 88355

PS Form 3800, August 2006 See Reverse for Instructions



COMPLETE THIS SECTION

Items 1, 2, and 3. Also complete Restricted Delivery is desired.
name and address on the reverse can return the card to you.
card to the back of the mailpiece, front if space permits.

Addressed to:
Lincoln County Assessor
P.O. Box 38
Carrizozo, NM 88301-0038

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X
Agent
Addressee

B. Received by (Printed Name) YOUNCE LUCERO
C. Date of Delivery 8-3-12

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
Certified Mail Express Mail
Registered Return Receipt for Merchandise
Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

Number (from service label) 7011 3500 0002 3802 3599

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

U.S. Postal Service
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

CARRIZOZO NM 88301 OFFICIAL USE

Postage	$ 0.45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.85
Restricted Delivery Fee (Endorsement Required)	0.00
Total Postage & Fees	$ 6.25

0885
05
Postmark Here
AUG 01 2012
USPS
08/01/2012

Sent To: Lincoln County Assessor
Street, Apt. No.; or PO Box No.: P.O. Box 38
City, State, ZIP+4: Carrizozo, NM 88301-0038

PS Form 3800, August 2006 See Reverse for Instructions

7011 3500 0002 3802 3599

COMPLETE THIS SECTION

Items 1, 2, and 3. Also complete Restricted Delivery is desired.
name and address on the reverse can return the card to you.
card to the back of the mailpiece, front if space permits.

Addressed to:
Socorro Apache Tribe
Tribal Council
Box 227
Socorro, NM 87801

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X SICIN
Agent
Addressee

B. Received by (Printed Name)
C. Date of Delivery 8-3-12

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
Certified Mail Express Mail
Registered Return Receipt for Merchandise
Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

Number (from service label) 7011 3500 0002 3802 3605

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

U.S. Postal Service
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

SOCORRO NM 87801 OFFICIAL USE

Postage	$ 0.45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.85
Restricted Delivery Fee (Endorsement Required)	0.00
Total Postage & Fees	$ 6.25

0885
05
Postmark Here
USPS
08/01/2012

Sent To: Socorro Apache Tribe
Street, Apt. No.; or PO Box No.: P.O. Box 227
City, State, ZIP+4: Socorro, NM 87801

PS Form 3800, August 2006 See Reverse for Instructions

7011 3500 0002 3802 3605

COMPLETE THIS SECTION

Items 1, 2, and 3. Also complete Restricted Delivery is desired.
name and address on the reverse can return the card to you.
card to the back of the mailpiece, front if space permits.

Addressed to:
Otero County Assessor
1104 White Sands Blvd
Suite B
Alamogordo, NM 88310

COMPLETE THIS SECTION ON DELIVERY

A. Signature
M. Carroll
Agent
Addressee

B. Received by (Printed Name) M. Carroll
C. Date of Delivery 8-2-12

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
Certified Mail Express Mail
Registered Return Receipt for Merchandise
Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

Number (from service label) 7011 3500 0002 3802 3636

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

U.S. Postal Service
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

ALAMOGORDO NM 88310 OFFICIAL USE

Postage	$ 0.45
Certified Fee	2.95
Return Receipt Fee (Endorsement Required)	2.85
Restricted Delivery Fee (Endorsement Required)	0.00
Total Postage & Fees	$ 6.25

0885
05
Postmark Here
AUG 01 2012
08/01/2012

Sent To: Otero County Assessor
Street, Apt. No.; or PO Box No.: 1104 White Sands Blvd Suite B
City, State, ZIP+4: Alamogordo, NM 88310

PS Form 3800, August 2006 See Reverse for Instructions

7011 3500 0002 3802 3636

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Village of Ruidoso Downs
Attn Mayor
122 Downs Dr
Ruidoso Downs NM
88346

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Annette Walters ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☑ Yes
If YES, enter delivery address below: ☐ No
P.O. Box 348

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7011 3500 0002 3802 3643

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

CERTIFIED MAIL. RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.
RUIDOSO DOWNS NM 88346

OFFICIAL USE

Postage	$ $0.45	0885
Certified Fee	2.95	06
Return Receipt Fee (Endorsement Required)	$2.35	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ 5.75	08/01/2012

Sent To Village of Ruidoso Downs
Street, Apt. No.; or PO Box No. 122 Downs Drive
City, State, ZIP+4 Ruidoso Downs, NM 88346

PS Form 3800, August 2006 See Reverse for Instructions

7011 3500 0002 3802 3643

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Village of Ruidoso
Mayor of Village of Rdso
313 Cree Meadows Dr
Ruidoso, NM 88345

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☑ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
S. Wade 8-2-12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7011 3500 0002 3802 3629

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

U.S. Postal Service
CERTIFIED MAIL. RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.
RUIDOSO NM 88345

OFFICIAL USE

Postage	$ $0.45	0885
Certified Fee	2.95	06
Return Receipt Fee (Endorsement Required)	2.35	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ 5.75	08/01/2012

Sent To Village of Ruidoso
Street, Apt. No.; or PO Box No. 313 Cree Meadows Dr
City, State, ZIP+4 Ruidoso NM 88345

PS Form 3800, August 2006 See Reverse for Instructions

7011 3500 0002 3802 3629

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Village of Capitan
Mayor of Capitan
P.O. Box 246
Capitan, NM 88316

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 8/2/12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7011 3500 0002 3802 3612

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

7011 3500 0002 3802 3612

U.S. Postal Service
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

CAPITAN, NM 88316 OFFICIAL USE

Postage	$ $0.45	0885
Certified Fee	2.95	06
Return Receipt Fee (Endorsement Required)	2.35	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ 5.75 $5.75	08/01/2012

Sent To: Village of Capitan
Street, Apt. No.; or PO Box No.: P.O. Box 246
City, State, ZIP+4: Capitan, NM 88316

PS Form 3800, August 2006 See Reverse for Instructions

U.S. Postal Service

STATE OF NEW MEXICO

County of Lincoln

I, Sandi Aguilar
General Manager

Of the Ruidoso Free Press, a weekly Newspaper published at Ruidoso, New Mexico do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:
one time with the issue dated

Date 8/7/12

Price $148.27

Cause NO:

General Manager

Notary Public Kim Smith

Commissions Expires December 16 2014

NOTICE OF AIR QUALITY PERMIT APPLICATION

Ruidoso Sand and Gravel, a Division of Southwest Paving and Grading, Inc. announces its intent to apply to the New Mexico Environment Department for an air quality permit for the construction of its aggregate crusher facility that will be identified as Rio Bonita Crusher. The expected date of application submittal to the Air Quality Bureau is August 10, 2012. This notice is a requirement according to New Mexico air quality regulations.

The exact location for the proposed facility known as, Rio Bonita Crusher, will be at latitude 33 deg, 27 min, 43.4 sec and longitude -105 deg, 38 min, 17.9 sec. The approximate location of this facility is 1.7 miles northeast of the intersection of Highways 37 and 48 in Angus, New Mexico in Lincoln County.

The proposed construction consists of an aggregate crushing plant powered by a 600 kilowatt diesel-fired generator. The aggregate crushing plant will consists of a quarry, an aggregate grizzly feeder with primary crusher, aggregate feeder, screen, secondary crusher, and assorted conveyors and stackers.

The estimated maximum quantities of any regulated air contaminants will be:
These emission estimates could change slightly during the course of the Department's review of the application.

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	12 pph	17 tpy
PM_{10}	5 pph	7 tpy
$PM_{2.5}$	1.5 pph	2.5 tpy
Sulfur Dioxide (SO_2)	1 pph	1 tpy
Nitrogen Oxides (NO_x)	22 pph	50 tpy
Carbon Monoxide (CO)	10 pph	23 tpy
Volatile Organic Compounds (VOC)	1 pph	3 tpy

The standard operating schedule of the facility will be 8 am to 5 pm, 5 days a week, and 40 weeks per year. The maximum operating schedule will be daylight hours, 7 days a week and a maximum of 52 weeks per year. Maximum aggregate production will be 2,000 tons per day and 730,000 tons per year. Truck traffic hours of operation could be as much as 24 hours a day.

The owner and/or operator of the Facility is:
Ruidoso Sand and Gravel
A Division of Southwest Paving and Grading, Inc.
321 Granite Dr.
Ruidoso, New Mexico 88345-7711

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

Permit Programs Manager
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507-3113
(505) 476-4300

Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice. Please include a legible mailing address with your comments. Once the Department has performed a 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. (505) 476-4300 or 1 800 224-7009 Fax: (505) 476-4375

STATE OF NEW MEXICO
County of Lincoln

I, Sandi Aguilar
General Manager

Of the Ruidoso Free Press, a weekly Newspaper published at Ruidoso, New Mexico do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of: one time with the issue dated

Date 8/7/12

Price $55.94

Cause NO:

General Manager

Notary Public Kim Smith

Commissions Expires December 16 2014

NOTICE OF AIR QUALITY PERMIT APPLICATION

Ruidoso Sand and Gravel, a Division of Southwest Paving and Grading, Inc. announces its intent to apply to the New Mexico Environment Department for an air quality permit for the construction of its aggregate crusher facility that will be identified as Rio Bonita Crusher. The expected date of application submittal to the Air Quality Bureau is August 10, 2012. This notice is a requirement according to New Mexico air quality regulations.

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The proposed construction consists of an aggregate crushing plant powered by a 600 kilowatt diesel-fired generator. The aggregate crushing plant will consists of a quarry, an aggregate grizzly feeder with primary crusher, aggregate feeder, screen, secondary crusher, and assorted conveyors and stackers.

The estimated maximum quantities of any regulated air contaminants will be:

These emission estimates could change slightly during the course of the Department's review of the application.

Pollutant:	*Lbs/hr*	*Tons/yr*
Total Suspended Particulates (TSP)	12 pph	17 tpy
PM_{10}	5 pph	7 tpy
$PM_{2.5}$	1.5 pph	2.5 tpy
Sulfur Dioxide (SO_2)	1 pph	1 tpy
Nitrogen Oxides (NO_x)	22 pph	50 tpy
Carbon Monoxide (CO)	10 pph	23 tpy
Volatile Organic Compounds (VOC)	1 pph	3 tpy

The standard operating schedule of the facility will be 8 am to 5 pm, 5 days a week, and 40 weeks per year. The maximum operating schedule will be daylight hours, 7 days a week and a maximum of 52 weeks per year. Maximum aggregate production will be 2,000 tons per day and 730,000 tons per year. Truck traffic hours of operation could be as much as 24 hours a day.

The owner and/or operator of the facility is:

Ruidoso Sand and Gravel
A Division of Southwest Paving and Grading, Inc.
321 Granite Dr.
Ruidoso, New Mexico 88345-7711

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

Permit Programs Manager
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507-3113
(505) 476-4300

Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, as used in this notice of send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice. Please include a legible mailing address with your comments. Once the Department has performed a 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. (505) 476-4300 or 1 800 224-7009 Fax (505) 476-4375

NOTICE OF AIR QUALITY PERMIT APPLICATION

Ruidoso Sand and Gravel, a Division of Southwest Paving and Grading, Inc. announces its intent to apply to the New Mexico Environment Department for an air quality permit for the construction of its aggregate crusher facility that will be identified as Rio Bonita Aggregate. The expected date of application submittal to the Air Quality Bureau is August 10, 2012. This notice is a requirement according to New Mexico air quality regulations.

The exact location for the proposed facility known as, Rio Bonita Aggregate, will be at latitude 33 deg, 27 min, 43.4 sec and longitude -105 deg, 38 min, 17.9 sec. The approximate location of this facility is 1.7 miles northeast of the intersection of Highways 37 and 48 in Angus, New Mexico in Lincoln County.

The proposed construction consists of an aggregate crushing plant powered by a 600 kilowatt diesel-fired generator. The aggregate crushing plant will consists of a quarry, an aggregate grizzly feeder with primary crusher, aggregate feeder, screen, secondary crusher, and assorted conveyors and stackers.

The estimated maximum quantities of any regulated air contaminants will be:
These emission estimates could change slightly during the course of the Department's review of the application.

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	12 pph	17 tpy
PM_{10}	5 pph	7 tpy
$PM_{2.5}$	1.5 pph	2.5 tpy
Sulfur Dioxide (SO_2)	1 pph	1 tpy
Nitrogen Oxides (NO_x)	22 pph	50 tpy
Carbon Monoxide (CO)	10 pph	23 tpy
Volatile Organic Compounds (VOC)	1 pph	3 tpy

The standard operating schedule of the facility will be 8 am to 5 pm, 5 days a week, and 40 weeks per year. The maximum operating schedule will be daylight hours, 7 days a week and a maximum of 52 weeks per year. Maximum aggregate production will be 2,000 tons per day and 730,000 tons per year. Truck traffic hours of operation could be as much as 24 hours a day.

The owner and/or operator of the Facility is:

Ruidoso Sand and Gravel
A Division of Southwest Paving and Grading, Inc.
321 Granite Dr.
Ruidoso, New Mexico 88345-7711

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

Permit Programs Manager
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507-3113
(505) 476-4300

Other comments and questions may be submitted verbally.

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

Submittal of Public Service Announcement – Certification

I, D'Aura Lee, the undersigned, certify that on 8/1/12 submitted a public service announcement to MID Inc that serves the City\Town\Village of **Ruidoso, Lincoln** County, New Mexico, in which the source is or is proposed to be located and that MID INC **RESPONDED THAT IT WOULD AIR THE ANNOUNCEMENT}.**

Signed this 1 day of August, 2012

D'Aura Lee
Signature

8/1/12
Date

D'Aura Lee
Printed Name

Officer
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

MTD INC
PO BOX 2010
RUIDOSO DOWNS, NM 88346-2010
575-258-9922 /FAX 575-258-2363

Advertiser: Ruidoso Sand And Gravel
Co-Op: Ruidoso Sand and Gravel
ScriptID: Public Notice
Length: 2:00

PUBLIC SERVICE ANNOUNCEMENT

Ruidoso Sand and Gravel, a Division of Southwest Paving and Grading, Inc. announces its intent to apply to the New Mexico Environment Department for an air quality permit for the construction of its aggregate crusher facility that will be identified as Rio Bonita Aggregate. The expected date of application submittal to the Air Quality Bureau is August 10, 2012. This notice is a requirement according to New Mexico air quality regulations.

The exact location for the proposed facility known as, Rio Bonita Aggregate, will be at latitude 33 deg, 27 min, 43.4 sec and longitude -105 deg, 38 min, 17.9 sec. The approximate location of this facility is 1.7 miles northeast of the intersection of Highways 37 and 48 in Angus, New Mexico in Lincoln County.

The proposed construction consists of an aggregate crushing plant powered by a 600 kilowatt diesel-fired generator. The aggregate crushing plant will consists of a quarry, an aggregate grizzly feeder with primary crusher, aggregate feeder, screen, secondary crusher, and assorted conveyors and stackers.
Public notices have been posted in the following locations for review by the public:
1. Ruidoso Downs Post Office on 342 Highway 70
2. Ruidoso Post Office on 418 Highway 70
3. Alto Post Office on 100 Sun Valley Rd,
4. At the entrance to the proposed location of the facility. Hwy 48 Copper Ridge

The owner and/or operator of the Facility is:
Ruidoso Sand and Gravel
A Division of Southwest Paving and Grading, Inc.
321 Granite Dr.
Ruidoso, New Mexico 88345-7711

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

Permit Programs Manager
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507-3113
(505) 476-4300

Other comments and questions may be submitted verbally.

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

PUBLIC SERVICE ANNOUNCEMENT

Ruidoso Sand and Gravel, a Division of Southwest Paving and Grading, Inc. announces its intent to apply to the New Mexico Environment Department for an air quality permit for the construction of its hot mix asphalt facility that will be identified as Rio Bonita HMA. The expected date of application submittal to the Air Quality Bureau is August 10, 2012. This notice is a requirement according to New Mexico air quality regulations.

The exact location for the proposed facility known as, Rio Bonita HMA, will be at latitude 33 deg, 27 min, 38 sec and longitude -105 deg, 38 min, 6.6 sec. The approximate location of this facility is 1.7 miles northeast of the intersection of Highways 37 and 48 in Angus, New Mexico in Lincoln County.

The proposed construction consists of a hot mix asphalt (HMA) plant powered by a 700 kilowatt diesel-fired generator. The HMA plant consists of aggregate feeders, scalping screen, pug mill, mineral-filler silo with particulate control baghouse, asphalt drum mixer with particulate control baghouse, asphalt silo, and assorted conveyors.
Public notices have been posted in the following locations for review by the public:
1. Ruidoso Downs Post Office on 342 Highway 70
2. Ruidoso Post Office on 418 Highway 70
3. Alto Post Office at 100 Sun Valley Rd, Alto.
4. At the entrance to the proposed location of the facility HWY 48 Copper Ridge

The owner and/or operator of the Facility is:
Ruidoso Sand and Gravel
A Division of Southwest Paving and Grading, Inc.
321 Granite Dr.
Ruidoso, New Mexico 88345-7711

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

Permit Programs Manager
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road, Building B

Santa Fe, New Mexico 87507-3113
(505) 476-4300

Other comments and questions may be submitted verbally.

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

Station Documentation Statement

This announcement was broadcast _1_ times, as entered in the station's program log. The times this announcement was broadcast were billed to this station's client on our invoice number 9416a_ dated 8/2/12 at his earned rate of: _____

Station Official Signature

_____ each for _____ announcements, for a total _____
_____ each for _____ announcements, for a total _____
_____ each for _____ announcements, for a total _____
For a total of 1 PSA

State of NEW MEXICO
County of LINCOLN
Subscribed and sworn before me this 7 day of Aug 2012

_____ NOTARY PUBLIC
KIM SMITH
COMMISSIONS EXPIRE
DECEMBER 16TH 2014

PUBLIC SERVICE ANNOUNCEMENT

Ruidoso Sand and Gravel, a Division of Southwest Paving and Grading, Inc. announces its intent to apply to the New Mexico Environment Department for an air quality permit for the construction of its aggregate crusher facility that will be identified as Rio Bonita Aggregate. The expected date of application submittal to the Air Quality Bureau is August 10, 2012. This notice is a requirement according to New Mexico air quality regulations.

The exact location for the proposed facility known as, Rio Bonita Aggregate, will be at latitude 33 deg, 27 min, 43.4 sec and longitude -105 deg, 38 min, 17.9 sec. The approximate location of this facility is 1.7 miles northeast of the intersection of Highways 37 and 48 in Angus, New Mexico in Lincoln County.

The proposed construction consists of an aggregate crushing plant powered by a 600 kilowatt diesel-fired generator. The aggregate crushing plant will consists of a quarry, an aggregate grizzly feeder with primary crusher, aggregate feeder, screen, secondary crusher, and assorted conveyors and stackers.

Public notices have been posted in the following locations for review by the public:

1. Ruidoso Downs Post Office at 342 Highway 70
2. Ruidoso Post Office at 418 Highway 70
3. Alto Post Office on Highway 48
4. At the entrance to the proposed location of the facility.

The owner and/or operator of the Facility is:

Ruidoso Sand and Gravel
A Division of Southwest Paving and Grading, Inc.
321 Granite Dr.
Ruidoso, New Mexico 88345-7711

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

Permit Programs Manager
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507-3113
(505) 476-4300

Other comments and questions may be submitted verbally.

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

General Posting of Notices – Certification

I, D'Anna Lucero, the undersigned, certify that on **8/1/12** posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the **{CITY\TOWN\VILLAGE}** of **Lincoln** County, State of New Mexico on the following dates:

1. Facility entrance 102 Copper Ridge Hwy 48, 8/1/12
2. Ruidoso Downs Post Office 342 Hwy 70, 8/1/12
3. Ruidoso Post Office 418 Hwy 70, 8/1/12
4. Alto Post Office 100 Sun Valley Rd, 8/1/12

Signed this 1 day of August, 2012.

D'Anna Lucero
Signature

Date August 1, 2012

D'Anna Lucero
Printed Name

Officer
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

NOTICE

Ruidoso Sand and Gravel, a Division of Southwest Paving and Grading, Inc. announces its intent to apply to the New Mexico Environment Department for an air quality permit for the construction of its aggregate crusher facility that will be identified as Rio Bonita Aggregate. The expected date of application submittal to the Air Quality Bureau is August 10, 2012. This notice is a requirement according to New Mexico air quality regulations.

The exact location for the proposed facility known as, Rio Bonita Aggregate, will be at latitude 33 deg, 27 min, 43.4 sec and longitude -105 deg, 38 min, 17.9 sec. The approximate location of this facility is 1.7 miles northeast of the intersection of Highways 37 and 48 in Angus, New Mexico in Lincoln County.

The proposed construction consists of an aggregate crushing plant powered by a 600 kilowatt diesel-fired generator. The aggregate crushing plant will consists of a quarry, an aggregate grizzly feeder with primary crusher, aggregate feeder, screen, secondary crusher, and assorted conveyors and stackers.

The estimated maximum quantities of any regulated air contaminants will be:
These emission estimates could change slightly during the course of the Department's review of the application.

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	12 pph	17 tpy
PM_{10}	5 pph	7 tpy
$PM_{2.5}$	1.5 pph	2.5 tpy
Sulfur Dioxide (SO_2)	1 pph	1 tpy
Nitrogen Oxides (NO_x)	22 pph	50 tpy
Carbon Monoxide (CO)	10 pph	23 tpy
Volatile Organic Compounds (VOC)	1 pph	3 tpy

The standard operating schedule of the facility will be 8 am to 5 pm, 5 days a week, and 40 weeks per year. The maximum operating schedule will be daylight hours, 7 days a week and a maximum of 52 weeks per year. Maximum aggregate production will be 2,000 tons per day and 730,000 tons per year. Truck traffic hours of operation could be as much as 24 hours a day.

The owner and/or operator of the Facility is:

Ruidoso Sand and Gravel
A Division of Southwest Paving and Grading, Inc.
321 Granite Dr.
Ruidoso, New Mexico 88345-7711

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

Permit Programs Manager
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Santa Fe, New Mexico 87507-3113
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Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, as used in this notice or send a copy of this notice along with your comments, since the Department may not have received the permit application at the time of this notice. Please include a legible mailing address with your comments. Once the Department has performed a 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. (505) 476-4300 or 1 800 224-7009 Fax: (505) 476-4375

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.

Ruidoso Sand & Gravel's Rio Bonita Aggregate will crush and size aggregate/recyclable material from quarries/stockpiles onsite. The Ruidoso Sand and Gravel's Rio Bonita Aggregate plant will consist of a quarry, storage material piles, an aggregate grizzly feeder with primary crusher, aggregate feeder (surge bin), screen/secondary crusher plant, ten (10) conveyors, two (2) stacker conveyors, and a 900 horsepower diesel-fired generator.

From a quarry onsite, a front-end loader dumps aggregate into the feeder (Unit 1). From the feeder, oversized material is loaded and crushed in the Primary Crusher (Unit 2). Crushed material from the primary crusher is transferred to the Feeder (surge bin) (Unit 4) by a conveyor (Unit 3). Material from the feeder is transferred to the Screen (Unit 6) for sizing by a conveyor (Unit 5). Oversized material from the screen is loaded and crushed by the Secondary Crusher (Unit 7). From the secondary crusher material is conveyed back to the screen for further sizing. Product from the screen is conveyed and stacked on one of two storage piles (AGGPILES). From the aggregate plant storage piles, material is transferred to the Finish Storage Piles (FPILES) or loaded into aggregate haul trucks by front-end loader.

Fugitive dust generated during aggregate processing will be controlled by the inherent moisture content of the material and a "Wet Dust Suppression System" to no more than 10% opacity at screening and conveyor transfer points and 15% opacity at crushing operations with units constructed, modified, or reconstructed on or after August 31, 1983 and before April 22, 2008 or to no more than 7% opacity at screening and conveyor transfer points and 12% opacity at crushing operations with units constructed, modified, or reconstructed on or after April 22, 2008. No fugitive dust controls are proposed for the feeder loading or aggregate storage piles.

The plant is powered by a 600 kW (900 hp) diesel-fired main plant generator (Unit 16). No emission controls are proposed for the generator.

A process flow diagram is presented as Figure 4-1 in Section 4. There are no pollution controls for the Grizzly Feeder (Unit 1), Aggregate Storage Piles (AGGPILES), Finish Storage Piles (FPILE), or Main Plant Generator (Unit 16).

All truck traffic travels to the aggregate plant on the access road. The road is controlled with base course and watering. All truck traffic leaves the same way. Aggregate materials come from the Quarry/Stockpiles (RAW) onsite.

Annual emissions are controlled by permit limits on annual production for processing equipment and hours of operation for generators.

Section 11
Source Determination

Source submitting under 20.2.70, 20.2.72, 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, 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)**:** Facilities evaluated include: Rio Bonita Aggregate producing aggregate material for the new permitted HMA plant (Rio Bonita HMA) owned and operated by Ruidoso Sand & Gravel and other clients.

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~~.

☐ **Yes** ✓ **No**

Common Ownership or Control: Surrounding or associated sources are under common ownership or control as this source.

✓ **Yes** ☐ **No**

Contiguous or Adjacent: Surrounding or associated sources are contiguous or adjacent with this source.

✓ **Yes** ☐ **No**

C. Make a determination:

✓ The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that is the subject of this application, all "**YES**" boxes should be checked. If in "A" above you evaluated other sources as well, you must check **AT LEAST ONE** of the boxes "**NO**" to conclude that the source, as described in the application, is the entire source for 20.2.70, 20.2.72, and 20.2.74 NMAC applicability purposes.

☐ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 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 minor PSD source before and after this modification (if so, delete C and D below).**
- ☐ **a major PSD source before this modification. This modification will make this a PSD minor source.**
- ☐ **an existing PSD Major Source that has never had a major modification requiring a BACT analysis.**
- ☐ **an existing PSD Major Source that has had a major modification requiring a BACT analysis**
- ☐ **a new PSD Major Source after this modification.**

B. **This facility is not one of the listed 20.2.74.501 Table I – PSD Source Categories. The project emissions for this project are as follows:**

a. **NOx: 37 TPY**
b. **CO: 17 TPY**
c. **VOC: 1 TPY**
d. **SOx: 0.6 TPY**
e. **TSP (PM): 16 TPY**
f. **PM10: 7 TPY**
g. **PM2.5: 2 TPY**

This facility is a new NSR minor source, which is not a PSD source, because it will be less than 250 tpy of any regulated pollutant and is not a PSD source category as listed in 20.2.74.501 Table I.

Section 13

Discussion Demonstrating Compliance With Each Applicable State & Federal Regulation

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Provide a discussion demonstrating compliance with applicable state & federal regulation. If there is a state or federal regulation (other than those listed here) for your facility's source category that does not apply to your facility, but seems on the surface that it should apply, add the regulation to the appropriate table below and provide the analysis. Examples of regulatory requirements that may or may not apply to your facility include 40 CFR 60 Subpart OOO (crushers), 40 CFR 63 Subpart HHH (HAPs), or 20.2.74 NMAC (PSD major sources). We don't want a discussion of every non-applicable regulation, but if there is questionable applicability, explain why it does not apply. All input cells should be filled in, even if the response is 'No' or 'N/A'.

In the "Justification" column, identify the criteria that are critical to the applicability determination, numbering each. For each unit listed in the "Applies to Unit No(s)" column, after each listed unit, include the number(s) of the criteria that made the regulation applicable. For example, TK-1 & TK-2 would be listed as: TK-1 (1, 3, 4), TK-2 (1, 2, 4). Doing so will provide the applicability criteria for each unit, while also minimizing the length of these tables.

As this table will become part of the SOB, please do not change the any formatting in the table, especially the width of the table.

If this application includes any proposed exemptions from otherwise applicable requirements, provide a narrative explanation of these proposed exemptions. These exemptions are from specific applicable requirements, which are spelled out in the requirements themselves, not exemptions from 20.2.70 NMAC or 20.2.72 NMAC.

Example of a Table for Applicable STATE REGULATIONS:

STATE REGU-LATIONS CITATION	Title	Applies to Entire Facility	Applies to Unit No(s).	Federally Enforce-able	Does Not Apply	JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m^3, 3. VOL)
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	X				20.2.3 NMAC is a SIP approved regulation that limits the maximum allowable concentration of Total Suspended Particulates, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. Title V applications, see exemption at 20.2.3.9 NMAC
20.2.7 NMAC	Excess Emissions		2,3,4,5,6 ,7,8,9,10 ,11,12, 13,14, 15,16 AGGPIL ES			All Title V major sources are subject to Air Quality Control Regulations, as defined in 20.2.7 NMAC, and are thus subject to the requirements of this regulation.
20.2.61.10 9 NMAC	Smoke & Visible Emissions		16			Engines and heaters are Stationary Combustion Equipment.
20.2.70 NMAC	Operating Permits				X	N/A
20.2.71 NMAC	Operating Permit Fees				X	N/A
20.2.72 NMAC	Construction Permits	X				This facility is subject to 20.2.72 NMAC
20.2.73 NMAC	NOI & Emissions Inventory Requirements	X				**Emissions Inventory Reporting:** 20.2.73.300 NMAC applies. All Title V major sources meet the applicability requirements of 20.2.73.300 NMAC.
20.2.74 NMAC	Permits – PSD				X	N/A

STATE REGU-LATIONS CITATION	Title	Applies to Entire Facility	Applies to Unit No(s).	Federally Enforce-able	Does Not Apply	JUSTIFICATION: Identify the applicability criteria, numbering each (i.e. 1. Post 7/23/84, 2. 75 m^3, 3. VOL)
20.2.75 NMAC	Construction Permit Fees	X				This facility is subject to 20.2.72 NMAC and is in turn subject to 20.2.75 NMAC. N/A if subject to 20.2.71 NMAC.
20.2.77 NMAC	New Source Performance		2,3,4,5,6 ,7,8,9,10 ,11,12, 13,14, 15,16 AGGPIL ES	X		This is a stationary source which is subject to the requirements of 40 CFR Part 60, as amended through January 31, 2009.
20.2.78 NMAC	Emission Standards for HAPS				X	N/A
20.2.79 NMAC	Permits – Nonattainment Areas				X	N/A
20.2.80 NMAC	Stack Heights				X	N/A
20.2.82 NMAC	MACT Standards for source categories of HAPS		16	X		This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, as amended through January 31, 2009.

Example of a Table for Applicable FEDERAL REGULATIONS (Note: This in not an exhaustive list):

FEDERAL REGU-LATIONS CITATION	Title	Applies to **Entire Facility**	Applies to **Unit No(s).**	**Federally Enforce-able**	**Does Not Apply**	**JUSTIFICATION:**
40 CFR 50	NAAQS	X				Defined as applicable at 20.2.70.7.E.11, Any national ambient air quality standard
NSPS 40 CFR 60, Subpart A	General Provisions		2,3,4,5,6,7, 8,9,10,11, 12,13,14, 15,16 AGGPILES	X		Applies if any other NSPS subpart applies.
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for **Volatile Organic Liquid Storage Vessels** for Which Construction, Reconstruction, or Modification Commenced **After** July 23, 1984				X	N/A
NSPS 40 CFR 60, Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines		16			The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE). Unit 16 is applicable to Subpart IIII.
NSPS 40 CFR Part 60 Subpart JJJJ					X	N/A
NSPS 40 CFR 60, Subpart 000	Standards of Performance for Nonmetallic Mineral Processing Plants		2,3,4,5,6,7, 8,9,10,11, 12,13,14, 15, AGGPILES	X		The provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart..
NESHAP 40 CFR 63 Subpart A	General Provisions		16	X		This part applies to the owner or operator of any stationary source for which a standard is prescribed under this part.
NESHAP 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines		16	X		Facilities are subject to this subpart if they own or operate stationary RICE, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

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 Source Emissions During Scheduled Maintenance, Malfunction, Startup, or Shutdown

Startup

For material processing equipment at the Ruidoso Sand & Gravel's Rio Bonita Aggregate plant, Ruidoso Sand & Gravel will follow normal industry practices in minimizing emissions during startup and shutdown. During startup of the plant all control devices (addition of moisture and/or water sprays) will be operating prior to beginning production. Prior to the shutdown of any control devices, material transfers for that system will end. Scheduled maintenance will occur during off production periods

Shutdown

All required control equipment will operate until all aggregate production ceases.

Maintenance

The water sprays 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 Units 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, repairs to water sprays control equipment will be made prior to the next operational day or within reasonable availability of replacement parts and man-hours.

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.

No alternative operating scenarios for this facility.

Section 16

Air Dispersion Modeling

NSR (20.2.72 NMAC) and PSD (20.2.74 NMAC) Modeling: Provide an air quality **dispersion modeling** demonstration (if applicable) as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines. If air dispersion modeling has been waived for this permit application, attach the AQB Modeling Section modeling waiver documentation.

SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions 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.nmenv.state.nm.us/aqb/permit/app_form.html) for more detailed instructions on SSM emissions modeling requirements.

Title V (20.2.70 NMAC) Modeling: Title V applications must specify the NSR Permit number for which air quality dispersion modeling was last submitted. Additionally, Title V facilities reporting new SSM emissions require modeling or a modeling waiver to demonstrate compliance with standards.

This dispersion modeling analysis is being conducted to support an application for a NSR permit for Ruidoso Sand & Gravel's Rio Bonita Aggregate. This application seeks to demonstrate compliance with the New Mexico Ambient Air Quality Standards (NMAAQS), the National Ambient Air Quality Standards (NAAQS), and PSD Class I and II Increment Standards. The aggregate plant will be co-located at its initial site with a new HMA plant that will be owned and operated by Ruidoso Sand & Gravel, identified as Rio Bonita HMA. Relocation setback modeling will be performed that will allow the Rio Bonita Aggregate to be co-located with any GCP3, GCP5, or Ruidoso Sand & Gravel's Rio Bonita HMA plant.

The Ruidoso Sand and Gravel's Rio Bonita Aggregate plant will consist of a quarry, storage material piles, an aggregate grizzly feeder with primary crusher, aggregate feeder (surge bin), screen/secondary crusher plant, ten (10) conveyors, two (2) stacker conveyors, and a 900 horsepower diesel-fired generator. Requested operating times with this permit will be seven days per week and 52 weeks per year. Requested daily operating hours will include operating during daylight hours. During the months of November through February, aggregate processing will be permitted for 1600 tons per day. During the months of March through October, aggregate processing will be permitted for 2000 tons per day. The annual aggregate processing limit will be 680,000 tons per year. The main plant generator will be permitted to operating 3400 hours per year. Since daily production will be limited to 1600 tons per day for the months of November through February and 2000 tons per day for the months of March through October with an average hourly processing rate or 200 tons, the maximum number of hours the facility can run at the maximum hourly throughput will be 8 hours per day for the months of November through February and 10 hours per day for the months of March through October.

Modeling was performed using two scenarios for hours of operation at maximum capacity for the aggregate plant. Dispersion modeling experience shows that worst-case hourly concentrations occur during early morning or evening hours. To address this in the modeling, two modeling scenarios will be performed, all hours of operation are during the morning hours until the daily production limits are met or all hours are in the evening until the daily production limit is met.

Co-located on site will be a new hot mix asphalt plant owned and operated by Ruidoso Sand & Gravel, identified as Rio Bonita HMA. This co-located source along with significant neighboring sources was included in the dispersion modeling CIA analysis. The neighboring source data was received from Eric Peters of the NMED ABQ Modeling Section.

The highest model results for operation of the Ruidoso Sand & Gravel's Rio Bonita Aggregate, co-located Rio Bonita HMA, and applicable neighboring sources are summarized below in Tables 16-1, 16-2,16-3, and 16-4. No SSM modeling was performed for this facility.

TABLE 16-1: Summary of Air Dispersion Modeling Results for Combustion Pollutant Sources

Parameter	Maximum Modeled Concentration ($\mu g/m^3$)	Maximum Modeled Concentration With Background ($\mu g/m^3$)	Lowest Applicable Standard ($\mu g/m^3$)	% of Standard
CO 1 Hr.	716.1	2608.2	11803.0	22.1
CO 8 Hr.	184.9	1536.4	7838.6	19.6
SO_2 3 Hr.	97.9	112.9	1309.6	8.6
SO_2 24 Hr.	21.2	36.2	205.9	17.6
SO_2 Annual	2.5	17.5	41.2	42.5
NO_2 24 Hr.	68.7	123.5	148.1	83.4
NO_2 Annual	32.7	40.1	74.0	54.2
Asphalt Fumes 8 Hr	14.2	***	50	28.4

Note: NO_X modeled concentrations were converted to NO_2 using fixed conversion rates of 75% for annual modeled concentrations and 40% for 24 hour modeled concentrations.

TABLE 16-2: Summary of Air Dispersion Modeling Results for Particulate Emitting Sources

Parameter	Maximum Modeled Concentration ($\mu g/m^3$)	Maximum Modeled Concentration With Background ($\mu g/m^3$)	Lowest Applicable Standard ($\mu g/m^3$)	% of Standard
$PM_{2.5}$ 24 Hr. 1^{th} Highest	***	31.6	35	90.3
$PM_{2.5}$ Annual	2.9	9.1	15	60.7
PM_{10} 24 Hr.	***	84.7	150	56.5
TSP 24 Hr.	***	138.0	150	92.0
TSP Annual	14.5	41.2	60	68.7

Note: Background concentrations based on "New Mexico Air Pollution Control Bureau, Dispersion Modeling Guidelines", revised July 29, 2011. Background is based on Roswell Monitoring Data. "***" background data included in model results.

TABLE 16-3: Summary of Air Dispersion Modeling Results for PSD Class I Increment

Parameter	Maximum Modeled Concentration ($\mu g/m^3$)	Increment Standard ($\mu g/m^3$)	% of Standard
NO_2 Annual Increment	0.025	2.5	1.0
PM_{10} Annual Increment	0.0094	4	<1.0
PM_{10} 24 Hr. Increment High 2^{nd} High	0.27	8	3.4

TABLE 16-4: Summary of Air Dispersion Modeling Results for PSD Class II Increment

Parameter	Maximum Modeled Concentration ($\mu g/m^3$)	Increment Standard ($\mu g/m^3$)	% of Standard
NO_2 Annual Increment	24.8	25	99.2
PM_{10} Annual Increment	7.1	17	41.8
PM_{10} 24 Hr. Increment High 2^{nd} High	29.2	30	97.3

Dispersion Model Report File Attached

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.

Compliance Test History Table

Unit No.	Test Description	Test Date
New Permit		

Section 20

Other Relevant Information

Other relevant information. 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.

N/A

Section 22

Green House Gas Applicability

(submitting under 20.2.70, 20.2.72, 20.2.73, 20.2.74 NMAC)

Title V (20.2.70 NMAC), NSR (20.2.72 NMAC), NOI (20.2.73 NMAC) and PSD (20.2.74 NMAC) applicants must determine if they are subject to Title V permitting and/or PSD permitting for green house gas (GHG) emissions. GHG emissions are the sum of the aggregate group of six green house gases that include carbon dioxide (CO_2), nitrous oxide (N_2O), methane (CH_4), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). There are two thresholds that must be computed to determine applicability. The first threshold is the sum of GHG mass emissions in TPY. GHG mass emissions are the sum of the total annual tons of green house gases without adjusting with the GWPs. The second threshold is the sum of CO_2 equivalent (CO_2e) emissions in TPY GHG. CO_2e emissions are the sum of the mass emissions of each individual GHG multiplied by its global warming potential (GWP) found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.

Green House Gas TV and PSD Applicability Determination:

☐ **Notice of Intent Sources** (20.2.73 NMAC): By checking this box and certifying this application the applicant certifies that the facility, based upon the quantity of stack emissions, including start up, shut down, and maintenance emissions, is not subject to 20.2.70 NMAC or 20.2.74 NMAC for Green House Gas (GHG) Emissions. The Department may request the emissions calculations and other documents supporting this determination.

Minor NSR (20.2.72 NMAC), PSD Major (20.2.74 NMAC), and Title V (20.2.70 NMAC) sources must complete the steps outlined below to determine GHG TV and/or PSD applicability.

1. Calculate existing mass GHG and CO_2e emissions from your source. For PSD purposes, if this is a modification to an existing source, you must also calculate the increase in mass GHG and CO_2e emissions due to the modification. Start up, shut down, and maintenance emissions must be included.
2. See Tables 1 and 2 below and compare your mass GHG and CO_2e emissions to the appropriate category for your source.
3. If your source meets all of the criteria within a category, then you must obtain a PSD permit and/or a Title V permit for green house gas emissions.
4. If this is a GHG Major source with an existing BACT or if this is a permit application for a PSD or Title V permit with GHG above the thresholds in Tables 1 or 2, include the emissions calculations and supporting documents in the appropriate sections of this application unless instructed otherwise in Tables 1 or 2. Report GHG mass and CO_2e emissions in Table 2-P of this application unless instructed otherwise in Tables 1 or 2. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).

NSR (20.2.72 NMAC), PSD Major (20.2.74 NMAC), and Title V (20.2.70 NMAC): Based upon the GHG applicability criteria in this section the applicant certifies that the source is (check all that apply):

✓ Title V Minor and PSD Minor for GHG Emissions [The Department may request the emissions calculations and other documents supporting this determination.]

☐ Title V Major for GHG Emissions

☐ PSD Major for GHG Emissions

Table 1 - Title V Applicability Criteria		
On or after July 1, 2011, newly constructed source, or existing source that does not have a Title V permit	**On or after July 1, 2011, modification or Renewal to Existing Title V Source**	**Requirement**
Source emits or has potential to emit (PTE) ≥ 100,000 TPY CO_2e **and** 100 TPY GHG mass basis	Source emits or has PTE of ≥100,000 TPY CO_2e **and** 100 TPY GHG mass basis	**For new sources:** For a source that meets the criteria on July 1, 2011, submit a Title V permit application no later than June 30, 2012.

Table 1 - Title V Applicability Criteria		
		For a source that meets the criteria after July 1, 2011, submit a Title V application within 12 months of becoming subject to the GHG operating permit program (12 months from commencement of operation of the new unit or modification that caused the source to be subject to Title V). **For existing sources:** Include GHG with the next Title V application for a renewal or modification. **For both new and existing sources:** Include in the TV application, GHG emissions calculations and supporting documents, report CO_2e and GHG emissions in Table 2-P, and address any applicable CAA requirements (e.g. PSD BACT, NSPS). If there are no applicable requirements and if GHG emissions have been reported to the Department under 20.2.73 NMAC, the requirements of the previous sentence do not apply, but changes in GHG emissions resulting in GHG emission limits must be calculated and reported in Table 2-P for Title V permit modifications. Typically GHG emission limits would be established only when there is an applicable requirement, such as a PSD GHG BACT or limits taken to be GHG synthetic minor.

Table 2 - PSD Applicability Criteria			
On or After July 1, 2011, New Source	**On or After July 1, 2011, Major Modification to Existing PSD Major Source**	**On or After July 1, 2011, Modification to Existing PSD Minor Source**	**Requirement**
Source is subject to PSD for another pollutant **and** GHG PTE is ≥ than 75,000 tpy CO_2e **or** GHG PTE is ≥ 100,000 TPY CO_2e **and** ≥ 100/250 TPY mass basis	Source is subject to PSD for another regulated pollutant **and** net GHG emissions increase is ≥ 75,000 tpy CO_2e and greater than zero TPY mass basis **or** existing source has GHG PTE ≥ 100,000 TPY CO_2e **and** ≥ 100/250 TPY mass basis **and** net emissions GHG increase is ≥ 75,000 TPY	Actual or potential emissions of GHGs from the modification is ≥ 100,000 TPY CO_2e **and** ≥ 100/250 TPY mass basis. Minor PSD sources cannot net out of PSD review.	The source is subject to PSD permitting for GHG emissions and other regulated pollutants that are significant. In the application include GHG emissions calculations and supporting documents, report CO_2e and GHG emissions in Table 2-P, complete a GHG BACT determination, and include the TPY CO_2e and GHG mass emissions in the public notice. **Note:** If a minor source permit is issued after January 2, 2011, but before July 1, 2011, and construction has not commenced by July 1, 2011, the permit must be

Table 2 - PSD Applicability Criteria			
	CO_2e and greater than zero TPY mass basis		cancelled, reopened, or an additional PSD permitting action taken, if the approved change/construction would trigger GHG PSD after July 1, 2011.

Additional Information:

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/
- Subparts C through UU of 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 and TV 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/ghgresources.html:
  - ENERGY STAR Industrial Sector Energy Guides and Plant Energy Performance Indicators (benchmarks) http://www.energystar.gov;
  - US EPA National Greenhouse Gas Inventory, http://epa.gov/climatechange/emissions/usinventoryreport.html;
  - EPA's Climate Leaders, http://www.epa.gov/climateleaders/index.html
  - EPA Voluntary Partnerships of GHG Reductions that include the landfill methane outreach program, the CHP partnership program, the Green Power Partnership, the Coalbed Methane Outreach program, the Natural Gas STAR program, and the Voluntary Aluminum Industrial Partnership.
  - SF Emission Reduction Partnership for the Magensium Industry http://www.epa.gov/highgwp/magnesium-sf6/index.html
  - PFC Reduction/Climate Partnership for the Semiconductor Industry http://www.epa.gov/highgwp/semiconductor-pfc/index.html

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. Please note that sources not subject to 40 CFR 98 and/or 20.2.300 NMAC may still be subject to the GHG PSD and/or TV permitting. 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 this part 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.O NMAC, 20.2.74.7.Y NMAC).** You may also find GHGs defined in 40 CFR 86.1818-12(a).

Short Tons:
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)

EPA's GHG Tailoring Rule:
To review EPA's final GHG Tailoring rule and pre-amble, See "Final GHG Tailoring Rule dated May 13, 2010 located on EPA's NSR Regulations Webpage or Federal Register June 3, 2010 Volume 75, No. 106
http://www.epa.gov/nsr/actions.html

EPA Permitting Guidance:
EPA's Permitting Guidance for GHG and other GHG information can be found on EPA's NSR Clear Air Act Permitting for Greenhouse Gases webpage.
http://www.epa.gov/nsr/ghgpermitting.html

Section 23: Certification

Company Name: Ruidoso Sand & Gravel, a Division of Southwest Paving and Grading, Inc.

I, D'Anna Wood, 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 9th day of August, 2012, upon my oath or affirmation, before a notary of the State of New Mexico.

D'Anna Wood
*Signature

August 9, 2012
Date

D'Anna Wood
Printed Name

Vice President
Title

Scribed and sworn before me on this 9th day of August, 2012.

My authorization as a notary of the State of New Mexico expires on the

27th day of January, 2015.

Colleen Weingard
Notary's Signature

8-9-12
Date

Colleen Weingard
Notary's Printed Name

*For Title V applications, the signature must be of the Responsible Official as defined in 20.2.70.7.AE NMAC.

OFFICIAL SEAL
Colleen Weingard
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 1-27-2015