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November 26, 2025

New Mexico Environment Department
Air Quality Bureau
Permits Section
525 Camino de los Marquez, Suite 1
Sante Fe, New Mexico 87505-1816

Re: New Minor Source Construction Permit
GCC Sun City Materials, LLC
10795 Las Alturas Drive
Mesquite, New Mexico 88048

To Whom It May Concern:

EnSafe Inc., on behalf of GCC Sun City Materials, LLC, (GCC) is submitting the attached application for a new minor source construction permit under New Mexico Administrative Code (NMAC) 20.2.72.200.A to consolidate all site operations at GCC's Vado Site, located at 10795 Las Alturas Drive, Mesquite, New Mexico 88048, into a single permit. The new construction permit will authorize the replacement and relocation onsite of the existing rock crushing operations (minor NSR permits 942 and 2112, and GCP-2-4384) and modification of the existing hot mix asphalt operations (GCP-3-4449) to allow for continuous (24/7) operations. The project will also serve to cease operations of the existing concrete batch plant (minor NSR permit 943). Upon issuance of the new permit, the existing permits can be voided.

EnSafe looks forward to interacting with the New Mexico Environment Department during the processing of this application. Should there be any questions, please do not hesitate to contact the undersigned at 832-561 5336 or Ms. Samantha Kretz, Environmental Manager – South Region, GCC Sun City Materials, LLC, at 505-377-5288.

Sincerely,

EnSafe Inc.

By: Shawn Haven
Senior Project Manager

Enclosed: New minor source construction permit application

Universal Air Quality Permit Application
Form UA1

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

Universal Air Quality Permit Application

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

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

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

Acknowledgements:

☒ I acknowledge that a pre-application meeting is available to me upon request. ☐ Title V Operating, Title IV Acid Rain, and NPR applications have no fees.

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

☒ Check No.: 000000749 in the amount of $500

☒ I acknowledge the required submittal format for the hard copy application is printed double sided 'head-to-toe', 2-hole punched (except the Sect. 2 landscape tables is printed 'head-to-head'), numbered tab separators. Incl. a copy of the check on a separate page.

☒ I acknowledge there is an annual fee for permits in addition to the permit review fee: www.env.nm.gov/air-quality/permit-fees-2/.

☐ This facility qualifies for the small business fee reduction per 20.2.75.11.C. NMAC. The full $500.00 filing fee is included with this application and I understand the fee reduction will be calculated in the balance due invoice. The Small Business Certification Form has been previously submitted or is included with this application. (Small Business Environmental Assistance Program Information: www.env.nm.gov/air-quality/small-biz-eap-2/.)

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

Section 1 – Facility Information

Section 1-A: Company Information

		AI # if known:	Updating Permit/NOI #:
1	Facility Name: **GCC Vado Site**	Plant primary SIC Code (4 digits): **1422** Plant NAIC code (6 digits): **212312**	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): **10795 Las Alturas Drive, Mesquite, New Mexico 88048**		
2	Plant Operator Company Name: **GCC Sun City Materials, LLC**	Phone/Fax: **(915) 564-1653**	
a	Plant Operator Address: **#1 McKelligon Canyon Rd., El Paso, TX. 79930**		

b	Plant Operator's New Mexico Corporate ID or Tax ID:	
3	Plant Owner(s) name(s): **Frank Mayfield**	Phone/Fax: **(915) 565-4681**
a	Plant Owner(s) Mailing Address(s): **#1 McKelligon Canyon Rd., El Paso, TX. 79930**	
4	Bill To (Company): **GCC Sun City Materials, LLC**	Phone/Fax: **(915) 564-1653**
a	Mailing Address: **#1 McKelligon Canyon Rd., El Paso, TX. 79930**	E-mail: **fmayfield@gcc.com**
5	☐ Preparer: ☒ Consultant: **Shawn Haven, EnSafe Inc.**	Phone/Fax: **832-561-5336**
a	Mailing Address: **580 Westlake Park Boulevard, Suite 100, Houston, Texas 77079**	E-mail: **shaven@ensafe.com**
6	Plant Operator Contact:	Phone/Fax:
a	Address:	E-mail:
7	Air Permit Contact: **Samantha Kretz**	Title: **Environmental Manager – South Region**
a	E-mail: **skretz@gcc.com**	Phone/Fax: **(505)-377-5288**
b	Mailing Address: **#1 McKelligon Canyon Rd., El Paso, TX. 79930**	
c	The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau.	

Section 1-B: Current Facility Status

1.a	Has this facility already been constructed? ☒ Yes ☐ No The crushing plant has not been constructed at the time of this permit application. The asphalt plant has already been constructed.	1.b If yes to question 1.a, is it currently operating in New Mexico? ☒ Yes ☐ No The asphalt plant is currently operating in New Mexico.
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? ☐ Yes ☒ No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? ☒ Yes ☐ No
3	Is the facility currently shut down? ☐ Yes ☒ No	If yes, give month and year of shut down (MM/YY):
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? ☐ Yes ☒ No	
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? ☐ Yes ☐ No ☒ N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? ☐ Yes ☒ No	If yes, the permit No. is: P-
7	Has this facility been issued a No Permit Required (NPR)? ☐ Yes ☒ No	If yes, the NPR No. is:
8	Has this facility been issued a Notice of Intent (NOI)? ☐ Yes ☒ No	If yes, the NOI No. is:
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☒ Yes ☐ No	If yes, the permit No. is: - Two rock crushing lines (2112-M1 and 942- M1-R1) to be replaced/relocated under this permit application. One concrete batch plant (943) to be shutdown.
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☒ Yes ☐ No	If yes, the register No. is: - Recycled asphalt product (RAP)/rock crusher (GCP-2-4384) - Hot mix asphalt plant (GCP-3-4449)

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) **See Section 20 for Asphalt Plant, Ready-Mix Plant, and Crushing Plant maximum input capacity**			
a	Current	Hourly:	Daily:	Annually:

b	Proposed	Hourly:	Daily:	Annually:
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required) **See Section 20 for Asphalt Plant, Ready-Mix Plant, and Crushing Plant maximum production capacity**			
a	Current	Hourly:	Daily:	Annually:
b	Proposed	Hourly:	Daily:	Annually:

Section 1-D: Facility Location Information

1	Latitude (decimal degrees): **32.140399°**	Longitude (decimal degrees): **-106.636592°**	County: **Dona Ana**	Elevation (ft): **4013**
2	UTM Zone: ☐ 12 or ☒ 13	Datum: ☒ NAD 83 ☐ WGS 84		
a	UTM E (in meters, to nearest 10 meters): **345642.25**	UTM N (in meters, to nearest 10 meters): **3557171.5**		
3	Name and zip code of nearest New Mexico town: **Vado 88048**			
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): **From Vado, Drive East on County Road 227, turn left (North) on Las Alturas Drive. The facility is located East of Las Alturas Drive.**			
5	The facility is **9** (distance) miles **NNW** (direction) of **Anthony** (nearest town).			
6	Land Status of facility (check one): ☒ Private ☐ Indian/Pueblo ☐ Government ☐ BLM ☐ Forest Service ☐ Military			
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: **Dona Ana County, Town of Anthony**			
8	**20.2.72** NMAC applications **only**: Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see www.env.nm.gov/air-quality/modeling-publications/)? ☒ Yes ☐ No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers: **14 kilometers approximately from State of Texas**			
9	Name nearest Class I area: **Guadalupe Mountains National Park**			
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): **152 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: **530 m**			
12	Method(s) used to delineate the Restricted Area: "**Restricted Area**" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.			
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? ☐ Yes ☒ No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.			
14	Will this facility operate in conjunction with other air regulated parties on the same property? ☒ No ☐ Yes If yes, what is the name and permit number (if known) of the other facility?			

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

1	Facility **maximum** operating ($\frac{\text{hours}}{\text{day}}$): **24**	($\frac{\text{days}}{\text{week}}$): **7**	($\frac{\text{weeks}}{\text{year}}$): **52**	($\frac{\text{hours}}{\text{year}}$): **8760**		
2	Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$)? Start: **N/A**		☐AM ☐PM	End: **N/A**	☐AM ☐PM	
3	Month and year of anticipated start of construction: **New Crushing Operations – April 2025.** **Asphalt Plant (including RAP Plant) - Existing**					

4	Month and year of anticipated construction completion: **Crushing Operations July 2025.**
5	Month and year of anticipated startup of new or modified facility: **Crushing Operations July 2025.**
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: **N/A**		NOV Tracking No: **N/A**
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: **N/A**		
c	Document Title: **N/A**	Date: **N/A**	Requirement # (or page # and paragraph #): **N/A**
d	Provide the required text to be inserted in this permit: **N/A**		
2	Is air quality dispersion modeling or modeling waiver 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)		
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? ☐ Yes ☒ No		
a	If yes, include the name of company providing commercial electric power to the facility: _____ Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

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

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

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

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

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC):		Phone:
a	R.O. Title:	R.O. e-mail:	
b	R. O. Address:		
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC):		Phone:
a	A. R.O. Title:	A. R.O. e-mail:	
b	A. R. O. Address:		
3	Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship):		
4	Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.):		
a	Address of Parent Company:		

5	Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.):
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations:
7	Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: 15 kilometers approximately from State of Texas

Section 1-I – Submittal Requirements

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

Hard Copy Submittal Requirements:

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

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

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

Electronic files sent by (check one):

☐ CD/DVD attached to paper application

☐ Secure electronic transfer. Air Permit Contact Name_____, Email_____ Phone number _____.

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

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

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

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

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

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

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

2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc,), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.

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

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

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Tables
Form UA2

Table 2-A: Regulated Emission Sources

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

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
CPCR1	Crushing Plant HSI Crusher	Superior Industries/Sentry	SS5565			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPCR2	Crushing Plant Cone Crusher Patriot 300	Superior Industries/Patriot	P300			300 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPCR3	Crushing Plant Cone Crusher Patriot 200	Superior Industries/Patriot	P200			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPSCRN1	Crushing Plant Screen Guardian 6202	Superior Industries/Guardian	6202-TH32			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPSCRN2	Crushing Plant Screen Guardian 8203	Superior Industries/Guardian	8203-TH38			501 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPSCRN3	Crushing Plant Screen Patriot 200	Superior Industries/Patriot	P200			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR1	Crushing Plant transfer to Conveyor 2	Superior Industries/ Stackable Plus	36" X 60'			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR2	Crushing Plant transfer to Conveyor 1	Superior Industries/ Stackable Plus	36" X 60'			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR3	Crushing Plant transfer to Stacker 1	Superior Industries/ Powerstacker Conveyor	36" X 125'			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR4	Crushing Plant transfer to Stacker 2	Superior Industries/ Powerstacker Conveyor	36" X 150'			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR5	Crushing Plant transfer to Conveyor 3	Superior Industries/ Stackable Plus	36" X 60'			501 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR6	Crushing Plant transfer to Conveyor 4	Superior Industries/ Stackable Plus	36" X 60'			501 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR7	Crushing Plant transfer to Conveyor 5	Superior Industries/ Stackable Plus	36" X 60'			501 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR8	Crushing Plant transfer to Stacker 3	Superior Industries/ Stackable	36" X 60'			501 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR9	Crushing Plant transfer to Stacker 4	Superior Industries/ Stackable	36" X 60'			501 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
CPTR10	Crushing Plant transfer to Stacker 5	Superior Industries/ Stackable	36" X 60'			501 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR11	Crushing Plant transfer to Conveyor 6	Superior Industries/ Stackable Plus	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR12	Crushing Plant transfer to Conveyor 7	Superior Industries/ Stackable Plus	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR13	Crushing Plant transfer to Conveyor 8	Superior Industries/ Stackable Plus	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR14	Crushing Plant transfer to Stacker 6	Superior Industries/ Stackable	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR15	Crushing Plant transfer to Stacker 7	Superior Industries/ Stackable	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR16	Crushing Plant transfer to Stacker 8	Superior Industries/ Stackable	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR17	Tunnel Conveyor Transfer to Crusher 3 Feed Conveyor	Superior Industries/ Stackable	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CPTR18	Tunnel Conveyor Transfer to Screen 2 Feed Conveyor	Superior Industries/ Stackable	36" X 60'			201 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CRSTK1	Crushing Plant transfer from Stacker 1	Superior Industries/ Powerstacker Conveyor	36" X 125'			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CRSTK2	Crushing Plant transfer from Stacker 2	Superior Industries/ Powerstacker Conveyor	36" X 150'			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CRSTK 3	Crushing Plant transfer from Stacker 3	Superior Industries/ Stackable	36" X 60'			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CRSTK 4	Crushing Plant transfer from Stacker 4	Superior Industries/ Stackable	36" X 60'			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CRSTK 5	Crushing Plant transfer from Stacker 5	Superior Industries/ Stackable	36" X 60'			600 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
CRSTK 6	Crushing Plant transfer from Stacker 6	Superior Industries/ Stackable	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CRSTK 7	Crushing Plant transfer from Stacker 7	Superior Industries/ Stackable	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
CRSTK 8	Crushing Plant transfer from Stacker 8	Superior Industries/ Stackable	36" X 60'			200 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
WASHTR1	Wash Plant Feed Hopper	Superior Industries	8'x 17' Skid Mounted			300 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
WASHTR2	Wash Plant Feed Conveyor	Superior Industries				300 tph	2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR1	Asphalt Plant Aggregate and Sand Cold Feed Bins (5)	Gencor		V5BCF-159858-08-NA		340 tph aggregate/80 tph sand	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR2	Asphalt Plant Transfer to Conveyor 1	Gencor				340 tph aggregate/80 tph sand	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR3	Asphalt Plant Transfer to Conveyor 2	Gencor				340 tph aggregate/80 tph sand	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR4	Asphalt Plant Conveyor 2 transfer into Pugmill	Gencor				340 tph aggregate/80 tph sand	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR5	Asphalt Plant Transfer to Conveyor 3	Gencor		V3070SC-159858-08-NA		340 tph aggregate/80 tph sand	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR6	Asphalt Plant Transfer to Conveyor 4	Gencor		V3070SC-159858-08-NA		340 tph aggregate/80 tph sand	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR7	Asphalt Plant RAP cold Feed bin	Gencor				40 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR8	Asphalt Plant RAP Transfer to Conveyor 5	Gencor				40 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR9	Asphalt Plant RAP Transfer to Conveyor 6	Gencor				40 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR10	Asphalt Plant Slat Transfer to Conveyor 7	Astec				400 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR11	Asphalt Plant Storage Silos Filling (3)	Astec				400 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
APTR12	Asphalt Plant Truck Loadout	N/A	N/A	N/A	N/A	400 tph	N/A	N/A		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTR13	Asphalt Plant Transfer to Conveyor 8	Gencor				30.6 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APSCRN1	Asphalt Plant Scalping Screen	Deisters		V510SD-159858-08-NA		400 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APSCRN2	Asphalt Plant RAP Screen					40 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APCR1	Asphalt Plant RAP Crusher (Gator)	Gencor				40 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APBH1	Asphalt Plant Baghouse and Stack	Gencor		151BH-159858-08-NA		400 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APPMILL	Asphalt Plant Pugmill	shop made				400 tph	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APH1	Asphalt Plant Hot Oil Heater and Stack	Gencor	Hy-Way	RA3146		2.5 MMBtu/hr	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APDC1	Asphalt Plant Versabind/Lime Silo & dust collector (APDC1)	shop made				30.6 tph	2012	APDC1		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
DM	Asphalt Plant Dum Mixer	Gencor		300UDS-159858-08-NA		N/A	2012	APBH1		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
PC	Asphalt Plant Primary Collector	Gencor		300PCS-159858-08-NA		N/A	2012	APBH1		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
DB	Asphalt Plant Drier Burner	Gencor	EQUINOX or ULTRA II			N/A	2012	APBH1		☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTK1	Asphalt Cement Tank 22	Burke		1916-01-BCT-30V		210000 gallons per year	2014			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTK2	Asphalt Cement Tank 23	Gencor		30CTS-1552-08		210000 gallons per year	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
APTK3	Asphalt Cement Tank 24	Gencor		30CTS-1553-08		210000 gallons per year	2012			☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufacturer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
US	Wash plant Under Screen Aggedry Twin Dewatering Washer	Superior Industries	48"				2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
UA	Wash PlantAggredry Dewatering Washer Under Auger	Superior Industries	36"				2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
SCR	Wash Plant Wet Screen	Superior Industries	5162 Horizontal Screen				2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
ST1	Wash Plant Stacker 1	Superior Industries	30" x 100" Portable Radial				2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
ST2	Wash Plant Stacker 2	Superior Industries	30" x 80' Portable Radial				2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
ST3	Wash Plant Stacker 3	Superior Industries	30" x 80' Portable Radial				2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
JC	Wash Plant Jumper Conveyor	Superior Industries	30" x 60' Jump				2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		
AWR	Wash Plant Auger Wash Rock	Superior Industries	24" x 18' Single Coarse Washer				2025			☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced		

[1] Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

[2] Specify dates required to determine regulatory applicability.

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

[4] "4SLB" means four stroke lean burn engine, "4SRB" means four stroke rich burn engine, "2SLB" means two stroke lean burn engine, "CI" means compression ignition, and "SI" means spark ignition

Table 2-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
APBH1	Asphalt Plant Baghouse Stack	2009	PM, PM_{10}, $PM_{2.5}$	Drum Mixer (DM), Primary Collector (PC), Drier Burner (DB)	99.9 PM 99.6 PM_{10}	AP-42
APDC1	Asphalt Plant Versabind/Lime Silo dust collector	2009	PM, PM10, PM2.5	Versabind/Lime Silo	99.9	design
	Water Sprays / Wet Material	2009	PM, PM_{10}, $PM_{2.5}$	Asphalt Plant aggregate feed system (APTR1, APTR2, APTR3, APTR4, APTR5, APTR6)	95	AP-42
	Partial Enclosures (shielding to block wind at transfer points, screens, and crushers)	2025	PM, PM10, PM2.5	Asphalt Plant aggregate feed system (APTR1, APTR2, APTR3, APTR4, APTR5, APTR6), Crushing Plant (CPCR1, CPCR2, CPCR3, CPSCRN1, CPSCRN2, CPSCRN3, CPTR1, CPTR2, CPTR3, CPTR4, CPTR5, CPTR6, CPTR7, CPTR8, CPTR9, CPTR10, CPTR11, CPTR12, CPTR13, CPTR14, CPTR15, CPTR16, CPTR17, CPTR18, WASHTR1, WASHTR2)	85.0	Approved control efficiency (Texas Commission on Environmental Quality)
	Wet Material	2025	PM, PM_{10}, $PM_{2.5}$	CRSTK1, CRSTK2, CRSTK3, CRSTK4, CRSTK5, CRSTK6, CRSTK7, CRSTK8	40	AP-42

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

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

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

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

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
APBH1	7.80	7.80	39.00	39.00	9.60	9.60	1.02	1.02	8400.00	8400.00	1950.00	1950.00	295.23	295.23	-	-	0.00027	0.00027
APH1	0.25	1.07	0.21	0.90	0.01	0.06	0.001	0.01	0.02	0.08	0.02	0.08	0.02	0.08	-	-	-	-
APDC1	-	-	-	-	-	-	-	-	96.08	0.19	33.66	0.07	33.66	0.07	-	-	-	-
APTK1	-	-	-	-	30.7896	0.02	-	-	-	-	-	-	-	-	-	-	-	-
APTK2	-	-	-	-	30.7896	0.02	-	-	-	-	-	-	-	-	-	-	-	-
APTK3	-	-	-	-	30.7896	0.02	-	-	-	-	-	-	-	-	-	-	-	-
APPMILL	-	-	-	-	-	-	-	-	7.50	7.50	2.61	2.61	0.18	0.18	-	-	-	-
APSCRN1	-	-	-	-	-	-	-	-	7.50	7.50	2.61	2.61	0.18	0.18	-	-	-	-
APSCRN2	-	-	-	-	-	-	-	-	1.00	0.02	0.35	0.01	0.02	0.0004	-	-	-	-
APCR1	-	-	-	-	-	-	-	-	0.22	0.004	0.10	0.002	0.02	0.0003	-	-	-	-
APTR1	-	-	-	-	-	-	-	-	0.89	0.89	0.34	0.34	0.09	0.09		-	-	-
APTR2	-	-	-	-	-	-	-	-	0.89	0.89	0.34	0.34	0.09	0.09	-	-	-	-
APTR3	-	-	-	-	-	-	-	-	0.89	0.89	0.34	0.34	0.09	0.09	-	-	-	-
APTR4	-	-	-	-	-	-	-	-	0.89	0.89	0.34	0.34	0.09	0.09	-	-	-	-
APTR5	-	-	-	-	-	-	-	-	0.89	0.89	0.34	0.34	0.09	0.09	-	-	-	-
APTR6	-	-	-	-	-	-	-	-	0.89	0.89	0.34	0.34	0.09	0.09	-	-	-	-
APTR7	-	-	-	-	-	-	-	-	0.12	0.002	0.04	0.001	0.01	0.0002	-	-	-	-
APTR8	-	-	-	-	-	-	-	-	0.12	0.002	0.04	0.001	0.01	0.0002	-	-	-	-
APTR9	-	-	-	-	-	-	-	-	0.12	0.002	0.04	0.001	0.01	0.0002	-	-	-	-
APTR10	-	-	0.40	0.40	1.25	1.25	-	-	0.16	0.16	0.14	0.14	0.04	0.04	-	-	-	-
APTR11	-	-	0.35	0.35	3.66	3.66	-	-	0.18	0.18	0.14	0.14	0.08	0.08	-	-	-	-
APTR12	-	-	0.40	0.40	1.25	1.25	-	-	0.16	0.16	0.13	0.13	0.08	0.08	-	-	-	-
APTR13	-	-	-	-	-	-	-	-	96.08	0.19	33.66	0.07	33.66	0.07	-	-	-	-

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
CPCR1	-	-	-	-	-	-	-	-	2.70	11.83	1.20	5.26	0.18	0.80	-	-	-	-
CPCR2	-	-	-	-	-	-	-	-	1.62	7.10	0.72	3.15	0.11	0.48	-	-	-	-
CPCR3	-	-	-	-	-	-	-	-	1.08	4.73	0.48	2.10	0.07	0.32	-	-	-	-
CPSCRN1	-	-	-	-	-	-	-	-	12.50	54.75	4.35	19.05	0.66	2.89	-	-	-	-
CPSCRN2	-	-	-	-	-	-	-	-	12.51	54.81	4.36	19.08	0.66	2.89	-	-	-	-
CPSCRN3	-	-	-	-	-	-	-	-	5.00	21.90	1.74	7.62	0.26	1.15	-	-	-	-
CPTR1	-	-	-	-	-	-	-	-	0.75	3.29	0.28	1.20	0.04	0.18	-	-	-	-
CPTR2	-	-	-	-	-	-	-	-	0.75	3.29	0.28	1.20	0.04	0.18	-	-	-	-
CPTR3	-	-	-	-	-	-	-	-	0.75	3.29	0.28	1.20	0.04	0.18	-	-	-	-
CPTR4	-	-	-	-	-	-	-	-	0.75	3.29	0.28	1.20	0.04	0.18	-	-	-	-
CPTR5	-	-	-	-	-	-	-	-	0.50	2.19	0.18	0.80	0.03	0.12	-	-	-	-
CPTR6	-	-	-	-	-	-	-	-	0.50	2.19	0.18	0.80	0.03	0.12	-	-	-	-
CPTR7	-	-	-	-	-	-	-	-	0.50	2.19	0.18	0.80	0.03	0.12	-	-	-	-
CPTR8	-	-	-	-	-	-	-	-	0.50	2.19	0.18	0.80	0.03	0.12	-	-	-	-
CPTR9	-	-	-	-	-	-	-	-	0.50	2.19	0.18	0.80	0.03	0.12	-	-	-	-
CPTR10	-	-	-	-	-	-	-	-	0.50	2.19	0.18	0.80	0.03	0.12	-	-	-	-
CPTR11	-	-	-	-	-	-	-	-	0.20	0.88	0.07	0.32	0.01	0.05	-	-	-	-
CPTR12	-	-	-	-	-	-	-	-	0.20	0.88	0.07	0.32	0.01	0.05	-	-	-	-
CPTR13	-	-	-	-	-	-	-	-	0.20	0.88	0.07	0.32	0.01	0.05	-	-	-	-
CPTR14	-	-	-	-	-	-	-	-	0.20	0.88	0.07	0.32	0.01	0.05	-	-	-	-
CPTR15	-	-	-	-	-	-	-	-	0.20	0.88	0.07	0.32	0.01	0.05	-	-	-	-
CPTR16	-	-	-	-	-	-	-	-	0.20	0.88	0.07	0.32	0.01	0.05	-	-	-	-
CPTR17	-	-	-	-	-	-	-	-	0.60	1.75	0.22	0.64	0.03	0.10	-	-	-	-
CPTR18	-	-	-	-	-	-	-	-	0.60	1.75	0.22	0.64	0.03	0.10	-	-	-	-
CRSTK1	-	-	-	-	-	-	-	-	1.65	1.58	0.78	0.75	0.12	0.11	-	-	-	-
CRSTK2	-	-	-	-	-	-	-	-	1.65	1.58	0.78	0.75	0.12	0.11	-	-	-	-
CRSTK3	-	-	-	-	-	-	-	-	1.10	1.06	0.52	0.50	0.08	0.08	-	-	-	-
CRSTK4	-	-	-	-	-	-	-	-	1.10	1.06	0.52	0.50	0.08	0.08	-	-	-	-
CRSTK5	-	-	-	-	-	-	-	-	1.10	1.06	0.52	0.50	0.08	0.08	-	-	-	-
CRSTK6	-	-	-	-	-	-	-	-	0.44	0.42	0.21	0.20	0.03	0.03	-	-	-	-
CRSTK7	-	-	-	-	-	-	-	-	0.44	0.42	0.21	0.20	0.03	0.03	-	-	-	-
CRSTK8	-	-	-	-	-	-	-	-	0.44	0.42	0.21	0.20	0.03	0.03	-	-	-	-
WASHTR1	-	-	-	-	-	-	-	-	0.90	3.94	0.33	1.45	0.05	0.22	-	-	-	-
WASHTR2	-	-	-	-	-	-	-	-	0.90	3.94	0.33	1.45	0.05	0.22	-	-	-	-

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
SP9	-	-	-	-	-	-	-	-	0.53	0.51	0.25	0.24	0.04	0.04	-	-	-	-
SP10	-	-	-	-	-	-	-	-	1.51	1.45	0.71	0.68	0.11	0.10	-	-	-	-
SP11	-	-	-	-	-	-	-	-	0.35	0.34	0.17	0.16	0.03	0.02	-	-	-	-
SP12	-	-	-	-	-	-	-	-	0.38	0.37	0.18	0.17	0.03	0.03	-	-	-	-
SP13	-	-	-	-	-	-	-	-	0.26	0.01	0.12	0.002	0.02	0.0004	-	-	-	-
SP18	-	-	-	-	-	-	-	-	0.26	0.01	0.12	0.002	0.02	0.0004	-	-	-	-
HR3	-	-	-	-	-	-	-	-							-	-	-	-
HR4	-	-	-	-	-	-	-	-							-	-	-	-
HR5	-	-	-	-	-	-	-	-							-	-	-	-
HR6	-	-	-	-	-	-	-	-							-	-	-	-
HR7	-	-	-	-	-	-	-	-	0.56	0.03	0.14	0.01	0.01	0.001	-	-	-	-
HR8	-	-	-	-	-	-	-	-							-	-	-	-
HR9	-	-	-	-	-	-	-	-	3.19	0.09	0.81	0.02	0.08	0.002	-	-	-	-
HR10	-	-	-	-	-	-	-	-							-	-	-	-
HR11	-	-	-	-	-	-	-	-							-	-	-	-
HR12	-	-	-	-	-	-	-	-							-	-	-	-
HR13	-	-	-	-	-	-	-	-	0.81	0.05	0.21	0.01	0.02	0.001	-	-	-	-
Totals	8.05	8.87	40.37	41.07	108.13	15.86	1.02	1.03	8676.00	8629.82	2048.64	2034.80	367.16	308.18	0.00	0.00	0.0003	0.0003

Note - HR8, HR10, and HR12 are paved haul roads HR11 is to be paved; emissions from paved haul roads are considered controlled emissions and were excluded from Table 2-D.

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

Table 2-E: Requested Allowable Emissions

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

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
APBH1	7.80	7.80	39.00	39.00	9.60	9.60	1.02	1.02	9.90	9.9	2.82	2.82	0.43	0.43	-	-	0.0003	0.00027
APH1	0.25	1.07	0.21	0.90	0.01	0.06	0.001	0.01	0.02	0.08	0.02	0.08	0.02	0.08	-	-	-	-
APDC1	-	-	-	-	-	-	-	-	0.10	0.0002	0.03	0.00007	0.03	0.00007	-	-	-	-
APTK1	-	-	-	-	30.79	0.02	-	-	-	-	-	-	-	-	-	-	-	-
APTK2	-	-	-	-	30.79	0.02	-	-	-	-	-	-	-	-	-	-	-	-
APTK3	-	-	-	-	30.79	0.02	-	-	-	-	-	-	-	-	-	-	-	-
APPMILL	-	-	-	-	-	-	-	-	0.66	0.66	0.22	0.22	0.02	0.02	-	-	-	-
APSCRN1	-	-	-	-	-	-	-	-	0.66	0.66	0.22	0.22	0.02	0.02	-	-	-	-
APSCRN2	-	-	-	-	-	-	-	-	0.09	0.002	0.03	0.001	0.002	0.00004	-	-	-	-
APCR1	-	-	-	-	-	-	-	-	0.05	0.001	0.02	0.0004	0.004	0.00007	-	-	-	-
APTR1	-	-	-	-	-	-	-	-	0.02	0.02	0.01	0.01	0.002	0.002	-	-	-	-
APTR2	-	-	-	-	-	-	-	-	0.02	0.02	0.01	0.01	0.002	0.002	-	-	-	-
APTR3	-	-	-	-	-	-	-	-	0.02	0.02	0.01	0.01	0.002	0.002	-	-	-	-
APTR4	-	-	-	-	-	-	-	-	0.02	0.02	0.01	0.01	0.002	0.002	-	-	-	-
APTR5	-	-	-	-	-	-	-	-	0.02	0.02	0.01	0.01	0.002	0.002	-	-	-	-
APTR6	-	-	-	-	-	-	-	-	0.02	0.02	0.01	0.01	0.002	0.002	-	-	-	-
APTR7	-	-	-	-	-	-	-	-	0.01	0.0001	0.002	0.00003	0.001	0.00001	-	-	-	-
APTR8	-	-	-	-	-	-	-	-	0.01	0.0001	0.002	0.00003	0.001	0.00001	-	-	-	-
APTR9	-	-	-	-	-	-	-	-	0.01	0.0001	0.002	0.00003	0.001	0.00001	-	-	-	-
APTR10	-	-	0.40	0.40	1.25	1.25	-	-	0.16	0.16	0.14	0.14	0.04	0.04	-	-	-	-
APTR11	-	-	0.35	0.35	3.66	3.66	-	-	0.18	0.18	0.14	0.14	0.08	0.08	-	-	-	-
APTR12	-	-	0.40	0.40	1.25	1.25	-	-	0.16	0.16	0.13	0.13	0.08	0.08	-	-	-	-
APTR13	-	-	-	-	-	-	-	-	0.27	0.001	0.15	0.0003	0.15	0.0003	-	-	-	-

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
CPCR1	-	-	-	-	-	-	-	-	0.09	0.26	0.04	0.12	0.01	0.02	-	-	-	-
CPCR2	-	-	-	-	-	-	-	-	0.05	0.16	0.02	0.07	0.005	0.01	-	-	-	-
CPCR3	-	-	-	-	-	-	-	-	0.04	0.11	0.02	0.05	0.003	0.01	-	-	-	-
CPSCRN1	-	-	-	-	-	-	-	-	0.17	0.48	0.06	0.16	0.004	0.01	-	-	-	-
CPSCRN2	-	-	-	-	-	-	-	-	0.17	0.48	0.06	0.16	0.004	0.01	-	-	-	-
CPSCRN3	-	-	-	-	-	-	-	-	0.07	0.19	0.02	0.06	0.002	0.004	-	-	-	-
CPTR1	-	-	-	-	-	-	-	-	0.01	0.02	0.002	0.01	0.0005	0.001	-	-	-	-
CPTR2	-	-	-	-	-	-	-	-	0.01	0.02	0.002	0.01	0.0005	0.001	-	-	-	-
CPTR3	-	-	-	-	-	-	-	-	0.01	0.02	0.002	0.01	0.0005	0.001	-	-	-	-
CPTR4	-	-	-	-	-	-	-	-	0.01	0.02	0.002	0.01	0.0005	0.001	-	-	-	-
CPTR5	-	-	-	-	-	-	-	-	0.004	0.01	0.001	0.003	0.0003	0.001	-	-	-	-
CPTR6	-	-	-	-	-	-	-	-	0.004	0.01	0.001	0.003	0.0003	0.001	-	-	-	-
CPTR7	-	-	-	-	-	-	-	-	0.004	0.01	0.001	0.003	0.0003	0.001	-	-	-	-
CPTR8	-	-	-	-	-	-	-	-	0.004	0.01	0.001	0.003	0.0003	0.001	-	-	-	-
CPTR9	-	-	-	-	-	-	-	-	0.004	0.01	0.001	0.003	0.0003	0.001	-	-	-	-
CPTR10	-	-	-	-	-	-	-	-	0.004	0.01	0.001	0.003	0.0003	0.001	-	-	-	-
CPTR11	-	-	-	-	-	-	-	-	0.001	0.004	0.0005	0.001	0.0001	0.0004	-	-	-	-
CPTR12	-	-	-	-	-	-	-	-	0.001	0.004	0.0005	0.001	0.0001	0.0004	-	-	-	-
CPTR13	-	-	-	-	-	-	-	-	0.001	0.004	0.0005	0.001	0.0001	0.0004	-	-	-	-
CPTR14	-	-	-	-	-	-	-	-	0.001	0.004	0.0005	0.001	0.0001	0.0004	-	-	-	-
CPTR15	-	-	-	-	-	-	-	-	0.001	0.004	0.0005	0.001	0.0001	0.0004	-	-	-	-
CPTR16	-	-	-	-	-	-	-	-	0.001	0.004	0.0005	0.001	0.0001	0.0004	-	-	-	-
CPTR17	-	-	-	-	-	-	-	-	0.004	0.01	0.001	0.004	0.0004	0.001	-	-	-	-
CPTR18	-	-	-	-	-	-	-	-	0.004	0.01	0.001	0.004	0.0004	0.001	-	-	-	-
CRSTK1	-	-	-	-	-	-	-	-	0.99	0.63	0.47	0.30	0.07	0.05	-	-	-	-
CRSTK2	-	-	-	-	-	-	-	-	0.99	0.63	0.47	0.30	0.07	0.05	-	-	-	-
CRSTK3	-	-	-	-	-	-	-	-	0.66	0.42	0.31	0.20	0.05	0.03	-	-	-	-
CRSTK4	-	-	-	-	-	-	-	-	0.66	0.42	0.31	0.20	0.05	0.03	-	-	-	-
CRSTK5	-	-	-	-	-	-	-	-	0.66	0.42	0.31	0.20	0.05	0.03	-	-	-	-
CRSTK6	-	-	-	-	-	-	-	-	0.26	0.42	0.12	0.20	0.02	0.01	-	-	-	-
CRSTK7	-	-	-	-	-	-	-	-	0.26	0.42	0.12	0.20	0.02	0.01	-	-	-	-
CRSTK8	-	-	-	-	-	-	-	-	0.26	0.42	0.12	0.20	0.02	0.01	-	-	-	-
WASHTR1	-	-	-	-	-	-	-	-	0.01	0.01	0.002	0.002	0.001	0.001	-	-	-	-
WASHTR2	-	-	-	-	-	-	-	-	0.01	0.01	0.002	0.002	0.001	0.001	-	-	-	-

Unit No.	NOx		CO		VOC		SOx		PM[1]		PM10[1]		PM2.5[1]		H_2S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
SP9	-	-	-	-	-	-	-	-	0.32	0.30	0.15	0.14	0.02	0.02	-	-	-	-
SP10	-	-	-	-	-	-	-	-	0.90	0.87	0.43	0.41	0.06	0.06	-	-	-	-
SP11	-	-	-	-	-	-	-	-	0.21	0.20	0.10	0.10	0.02	0.01	-	-	-	-
SP12	-	-	-	-	-	-	-	-	0.23	0.22	0.11	0.10	0.02	0.02	-	-	-	-
SP13	-	-	-	-	-	-	-	-	0.16	0.003	0.07	0.001	0.01	0.0002	-	-	-	-
SP18	-	-	-	-	-	-	-	-	0.16	0.003	0.07	0.001	0.01	0.0002	-	-	-	-
HR3	-	-	-	-	-	-	-	-	0.74	0.74	0.15	0.15	0.04	0.04	-	-	-	-
HR4	-	-	-	-	-	-	-	-	0.67	0.67	0.13	0.13	0.03	0.03	-	-	-	-
HR5	-	-	-	-	-	-	-	-	0.11	0.11	0.02	0.02	0.01	0.01	-	-	-	-
HR6	-	-	-	-	-	-	-	-	0.49	0.49	0.10	0.10	0.02	0.02	-	-	-	-
HR7	-	-	-	-	-	-	-	-	0.06	0.003	0.01	0.001	0.001	0.0001	-	-	-	-
HR8	-	-	-	-	-	-	-	-	1.14	2.98	0.23	0.60	0.06	0.15	-	-	-	-
HR9	-	-	-	-	-	-	-	-	0.55	0.02	0.13	0.004	0.02	0.001	-	-	-	-
HR10	-	-	-	-	-	-	-	-	3.53	12.32	0.71	2.46	0.17	0.60	-	-	-	-
HR11	-	-	-	-	-	-	-	-	1.90	5.43	0.38	1.09	0.09	0.27	-	-	-	-
HR12	-	-	-	-	-	-	-	-	0.20	0.51	0.04	0.10	0.01	0.03	-	-	-	-
HR13	-	-	-	-	-	-	-	-	0.08	0.005	0.02	0.001	0.002	0.0001	-	-	-	-
Totals	**8.05**	**8.87**	**40.37**	**41.07**	**108.13**	**15.86**	**1.02**	**1.03**	**29.24**	**42.50**	**9.34**	**11.73**	**1.84**	**2.32**	**-**	**-**	**0.0003**	**0.0003**

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

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

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

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

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

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

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

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

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

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

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

Table 2-H: Stack Exit Conditions

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

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H-Horizontal V=Vertical)	Rain Caps (Yes or No)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
						(acfs)	(dscfs)			
APBH1	Drum Mixer (DM), Primary Collector (PC), Drier Burner (DB)	V	No	43	156	2363			223.41	3.67
APH1	Asphalt Plant Hot Oil Heater (APH1)	V	No	10	609	66			67.86	1.11
APDC1	Versabind/Lime Silo (APDC1)	V	No	39	ambient	39			37.50	1.15

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
APBH1	DM, PC, DB	1.59	1.59																
APH1	APH1	0.005	0.02																
Totals:		1.59	1.61																

Table 2-J: Fuel

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

Unit No.	Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, …)	Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Specify Units				
			Lower Heating Value	Hourly Usage	Annual Usage	% Sulfur	% Ash
APH1	Natural Gas	Pipeline Quality Natural Gas	1020 MMBtu/MMscf	2.5 MMBtu/hr	21,900 MMBtu/year		
APBH1	Natural Gas	Pipeline Quality Natural Gas	1020 MMBtu/MMscf	150 MMBtu/hr	328,125 MMBtu/yr		

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)
APTK1	3-05-002-12	Asphalt cement		~0.95	84	~325	~0.1	325.33	~0.11
APTK2	3-05-002-12	Asphalt cement		~0.95	84	~325	~0.11	325.33	~0.11
APTK3	3-05-002-12	Asphalt cement		~0.95	84	~325	~0.11	325.33	~0.11

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			
APTK1	2014	Asphalt cement		FX: Fixed Roof	609		3.3528	0.6096	LG: Light gray	LG: Light gray	Good	210,000	8.21
APTK2	2012	Asphalt cement		FX: Fixed Roof	559		3.3528	0.6096	LG: Light gray	LG: Light gray	Good	210,000	8.95
APTK3	2012	Asphalt cement		FX: Fixed Roof	559		3.3528	0.6096	LG: Light gray	LG: Light gray	Good	210,000	8.95

Table 2-P: Greenhouse Gas Emissions

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

☑ By checking this box, the applicant acknowledges the total CO2e emissions are less than 75,000 tons per year.

		CO_2 ton/yr	N_2O ton/yr	CH_4 ton/yr	SF_6 ton/yr	PFC/HFC ton/yr[2]									Total GHG Mass Basis ton/yr[4]	Total CO_2e ton/yr[5]
Unit No.	**GWPs [1]**	**1**	**298**	**25**	**22,800**	**footnote 3**										
APBH1	**mass GHG**	12588.011	23.122725	238.16407											12849.2983	25432.685
	CO_2e															
APH1	**mass GHG**	1280.91	2.3528839	24.234704											1307.49759	2587.937
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO_2e															
	mass GHG															
	CO2e															
Total	**mass GHG**	13868.921	25.475609	262.39877											14156.80	28020.622
	CO_2e															

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

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

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

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

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

Application Details
Form UA3

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

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

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

Application Summary

EnSafe Inc., on behalf of GCC Sun City Materials, LLC, (GCC), is submitting the enclosed minor source construction permit application under 20.2.72.200.A to modify operations at the Vado Site at 10795 Las Alturas Drive, Mesquite, Dona Ana County, New Mexico (Site). GCC produces asphalt and crushed rock at the Vado Site.

The current Site permits are as follows:

- One recycled asphalt product (RAP)/rock crusher (GCP-2-4384) plant
- One hot mix asphalt plant (GCP-3-4449); and,
- Two rock crushing lines (minor source permit numbers 2112-M1 and 942- M1-R1)

Note that concrete batch plant with permit number 0943-R1 will be decommissioned.

The proposed changes at the Site include:

- Replacement of equipment and reconfiguration of the crushing operations currently authorized by permits 2112-M1 and 942-M1-R1
- Ability for all Site operations to operate on a 24-hours per day, 7-days per week, 52 weeks a year, operating schedule
- Addition of a sand and rock wash plant
- Decommissioning of the existing concrete batch plant.

Upon issuance of the new permit, the current permits will be voided. Proposed emissions include particulate matter (PM), PM with an equivalent aerodynamic diameter of 10 microns or less (PM_{10}), PM with an equivalent aerodynamic diameter of 2.5 microns or less ($PM_{2.5}$), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), and volatile organic compounds (VOCs) .

Process Summary

The Asphalt Plant consists of aggregate/sand and recycled asphalt Pavement (RAP) cold feed bins, conveyors, pugmill, screens, drum mixer, crusher, silos, and mix truck loading operations.

Crushing operations at the crushing plant will be performed by three crushers and associated screens, tunnel belts, conveyors, and stackers. The wash plant in the crushing plant operations area will include a feed hopper and a feed conveyor to be permitted. Additionally , the wash plant includes a screen, wash equipment and stackers that do not require permitting given that the material to be processed is wet.

A detailed process description is provided in Section 10.

Startup, Shutdown, and Maintenance (SSM)

Startup, Shutdown, and Maintenance (SSM) emissions are not considered a separate operation from normal operations.

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.

Process flow diagrams for the Asphalt/RAP Plant, Crushing Plant, and Wash Plant are provided in Figures 1A, 1B,and 1C, respectively, in the following pages.

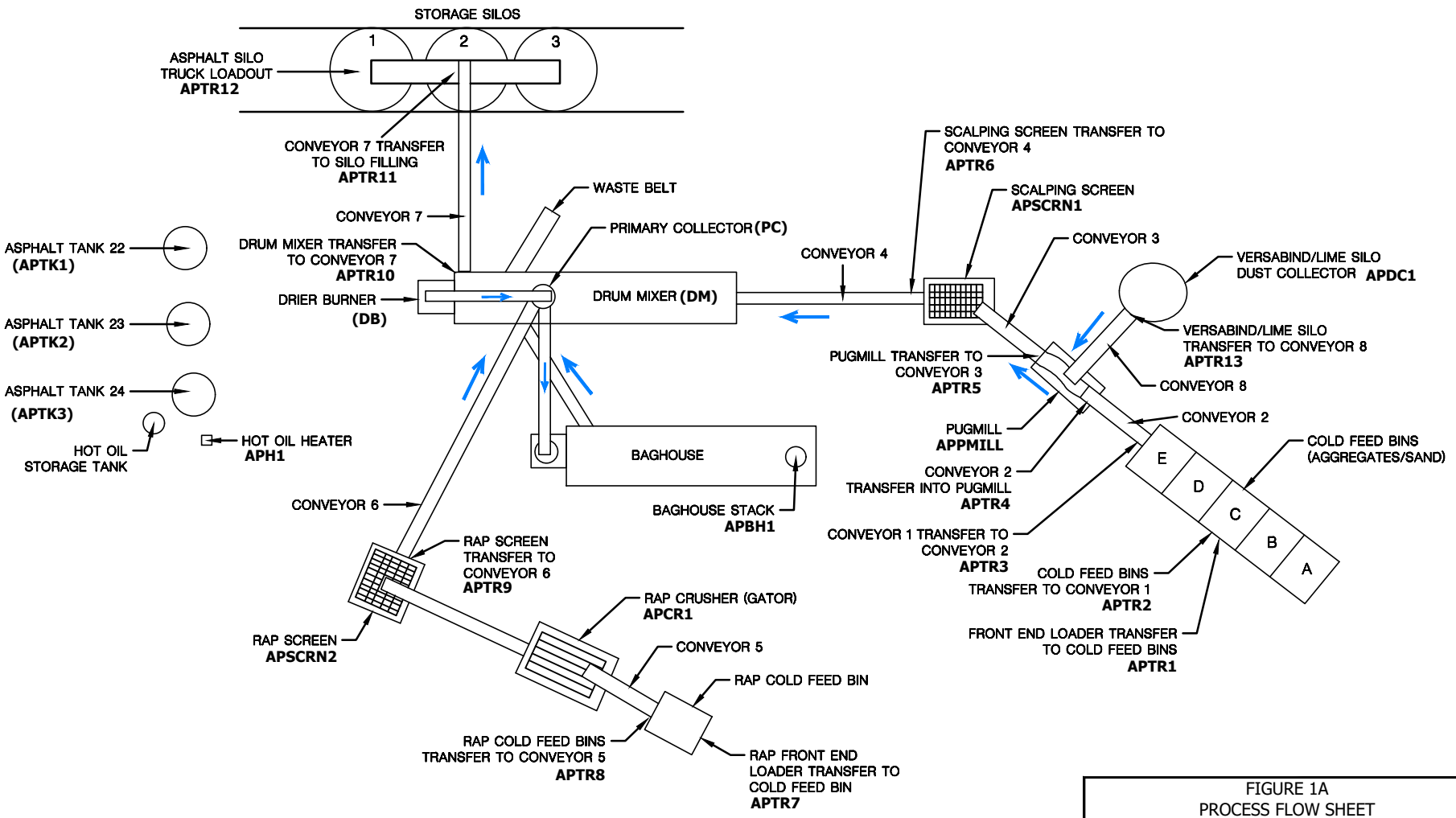


FIGURE 1A
PROCESS FLOW SHEET
ASPHALT PLANT - VADO SITE
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

NOTES

- CONVEYOR 1 IS UNDERNEATH THE COLD FEED BINS A-E
- RAP = RECYCLED ASPHALT PAVEMENT
- EMISSION CONTROL: WET MATERIAL IS PROCESSED AT BINS/HOPPERS, CONVEYOR BELTS, RAP SCREEN AND RAP GATOR CRUSHER. VERSABIND/LIME SILO UTILIZES A DUST COLLECTOR. PUGMILL AND SCALPING SCREEN ARE COVERED. DRUM MIXER UTILIZES A BAGHOUSE.

NOT TO SCALE

REQUESTED BY:	PC
DRAWN BY:	KMB
DATE:	7/24/2024
PROJECT:	0888837490

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I:\CAD PROJECTS\GCC Sun Materials\37490\Plans\37490_B001_PROCESS FLOW_ASPHALT PLANT_NM.dwg

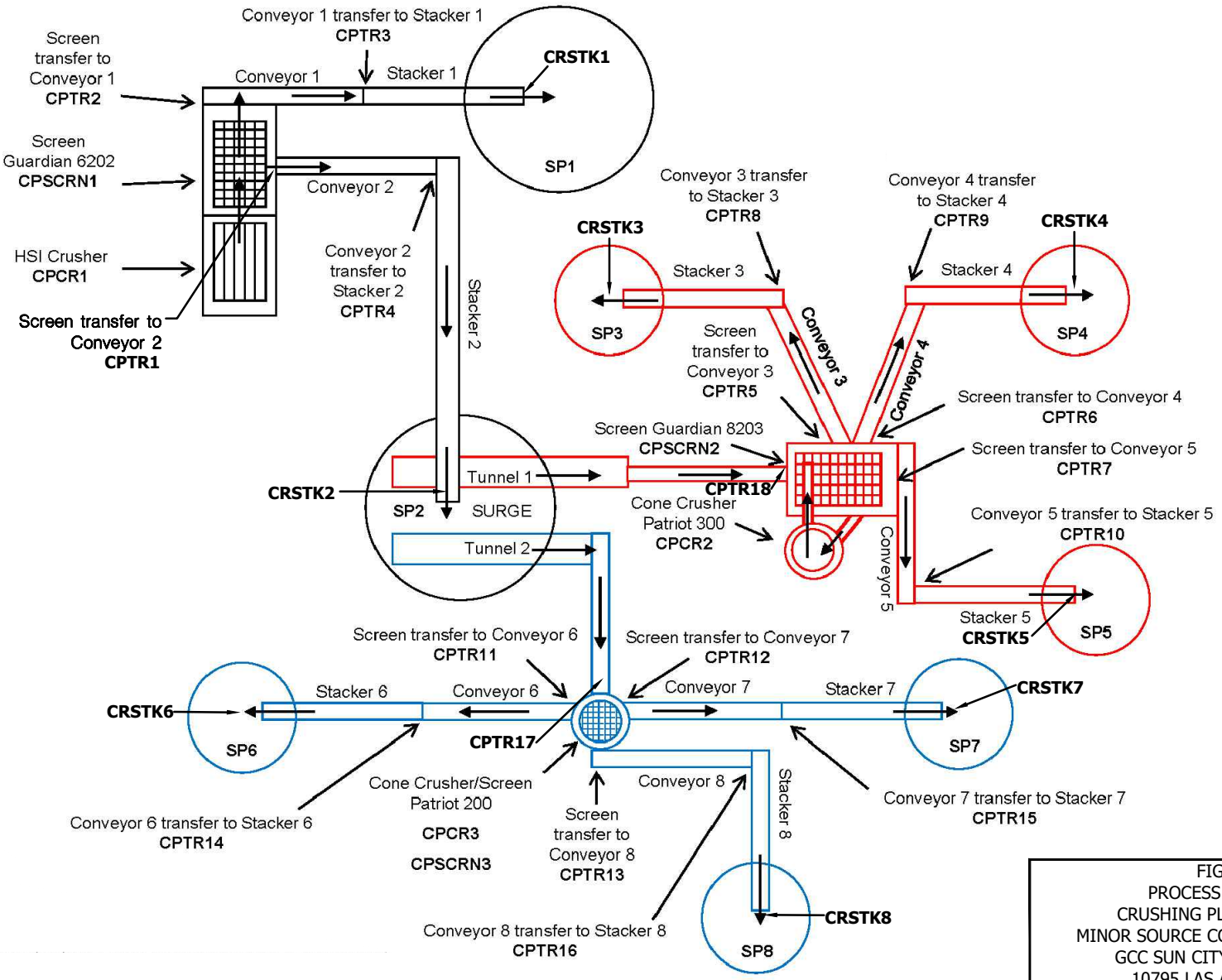


FIGURE 1B
PROCESS FLOW SHEET
CRUSHING PLANT - VADO SITE
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

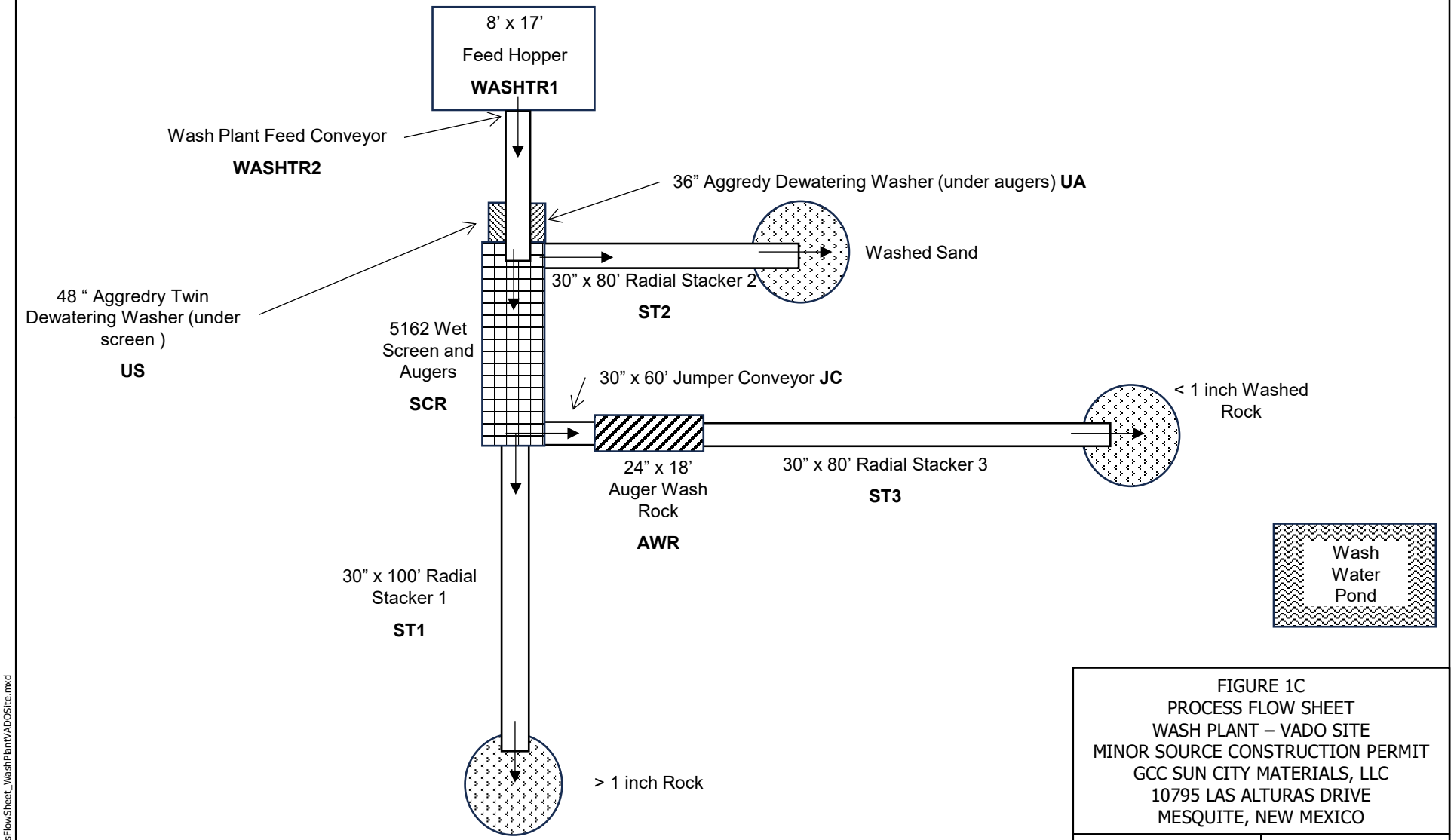
NOTES
- SP = STOCKPILE
- WATER SPRAYS ARE USED AS EMISSION CONTROL AT CRUSHERS, SCREENS, SURGE/SIDE FEED HOPPERS, CONVEYOR BELTS AND STACKERS.

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FIGURE 1C
PROCESS FLOW SHEET
WASH PLANT – VADO SITE
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

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X:\GCC\Fig1C_ProcessFlowSheet_WashPlantVADOSite.mxd

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.

Plot plans for the entire site, Asphalt/RAP Plant, and Crushing Plant (including the Wash Plant) are provided in figures 2, 2A, and 2B, respectively, in the following pages. Also, plot plans for the haul roads are provided in figures 2C to 2E, in the following pages.

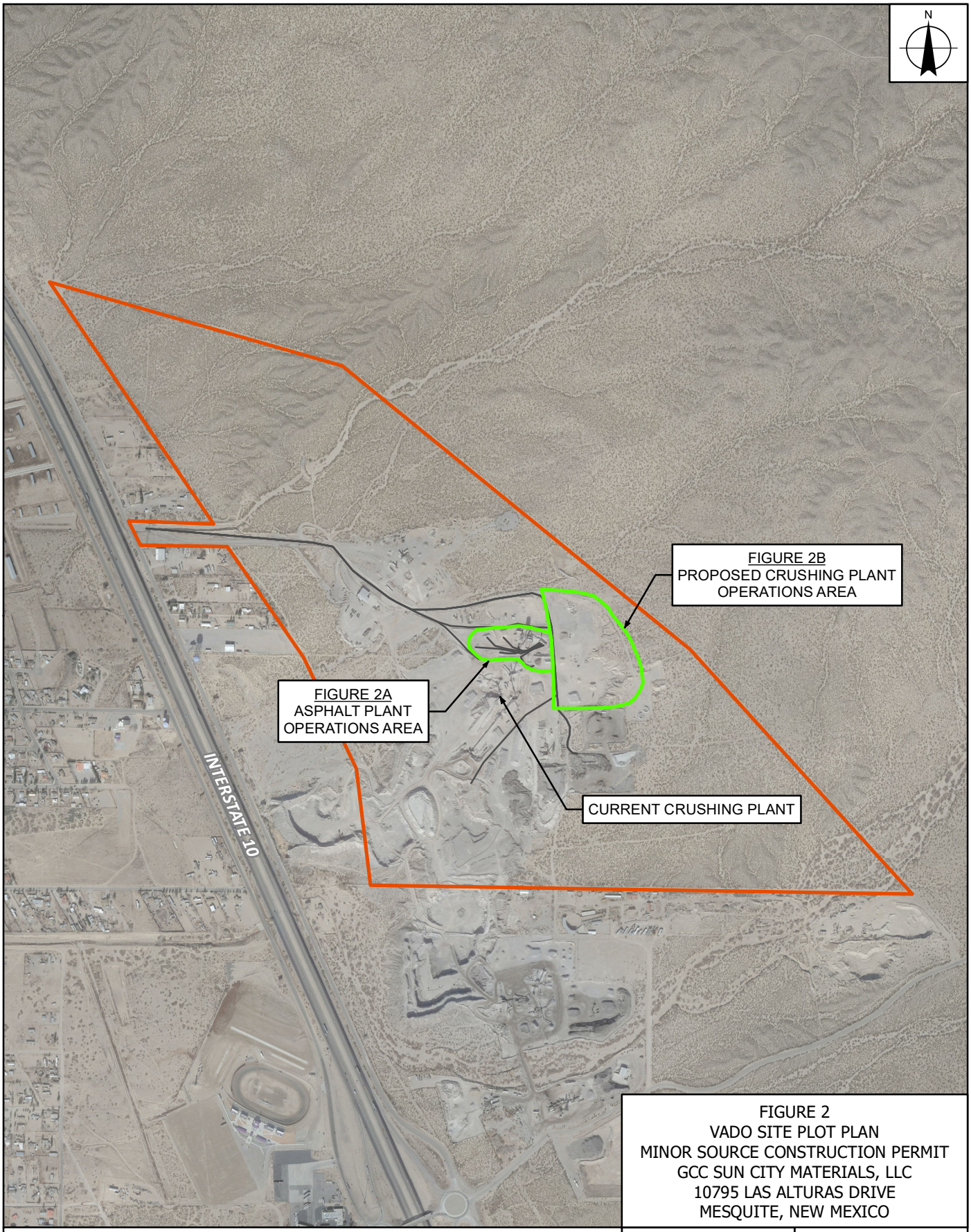


FIGURE 2
VADO SITE PLOT PLAN
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

LEGEND
HAUL ROADS
APPROXIMATE PROPERTY BOUNDARY

NAD 1983 (2011) STATE PLANE
NEW MEXICO CENTRAL FEET
0 600 1,200
SCALE IN FEET

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Source: Google Earth Pro Imagery - 12/20/2020

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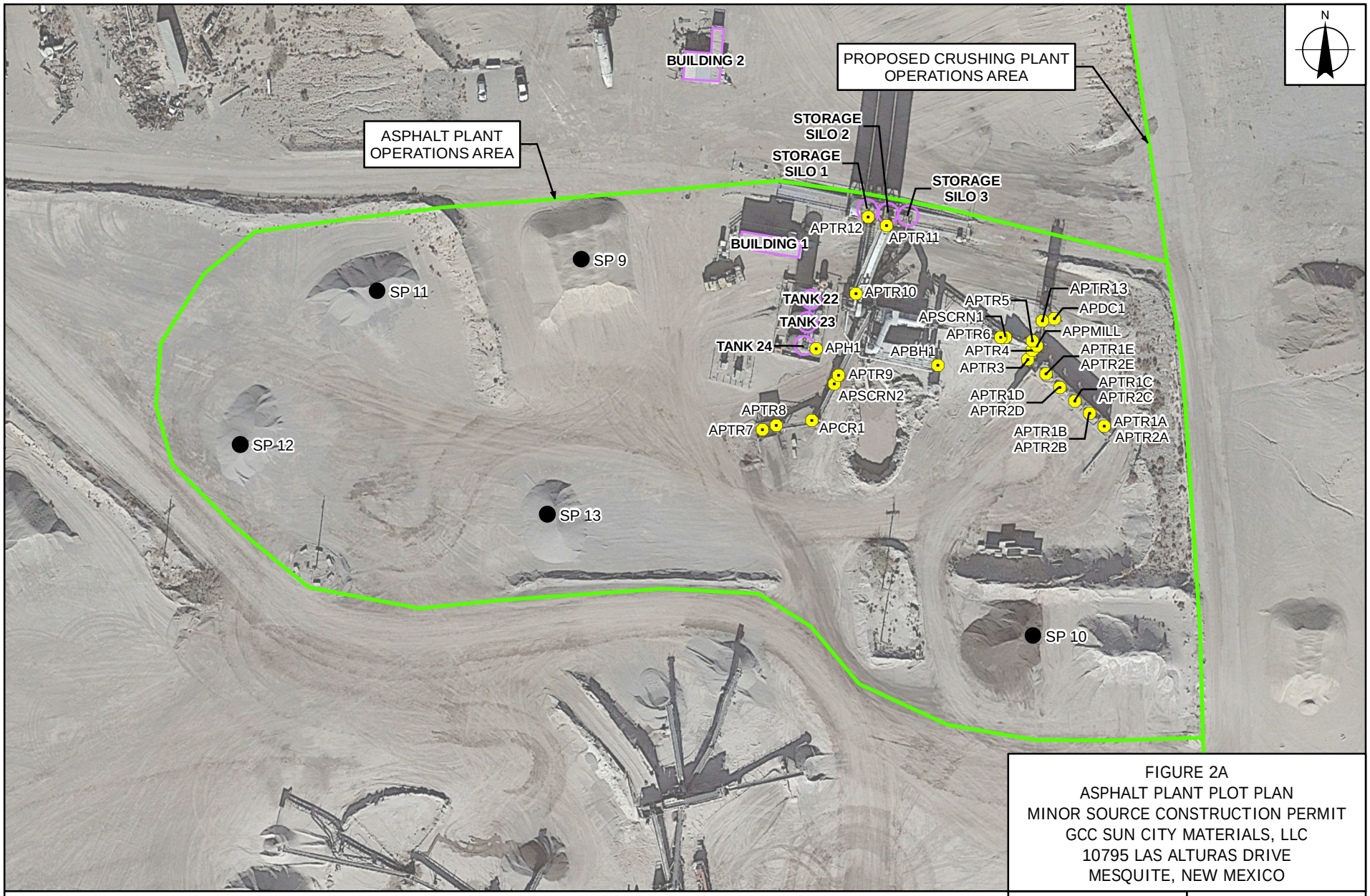


FIGURE 2A
ASPHALT PLANT PLOT PLAN
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

LEGEND
- AIR EMISSION SOURCE
- STOCKPILES
- DOWNWASH STRUCTURES

NAD 1983 (2011) STATE PLANE NEW MEXICO CENTRAL FEET

0 50 100

SCALE IN FEET

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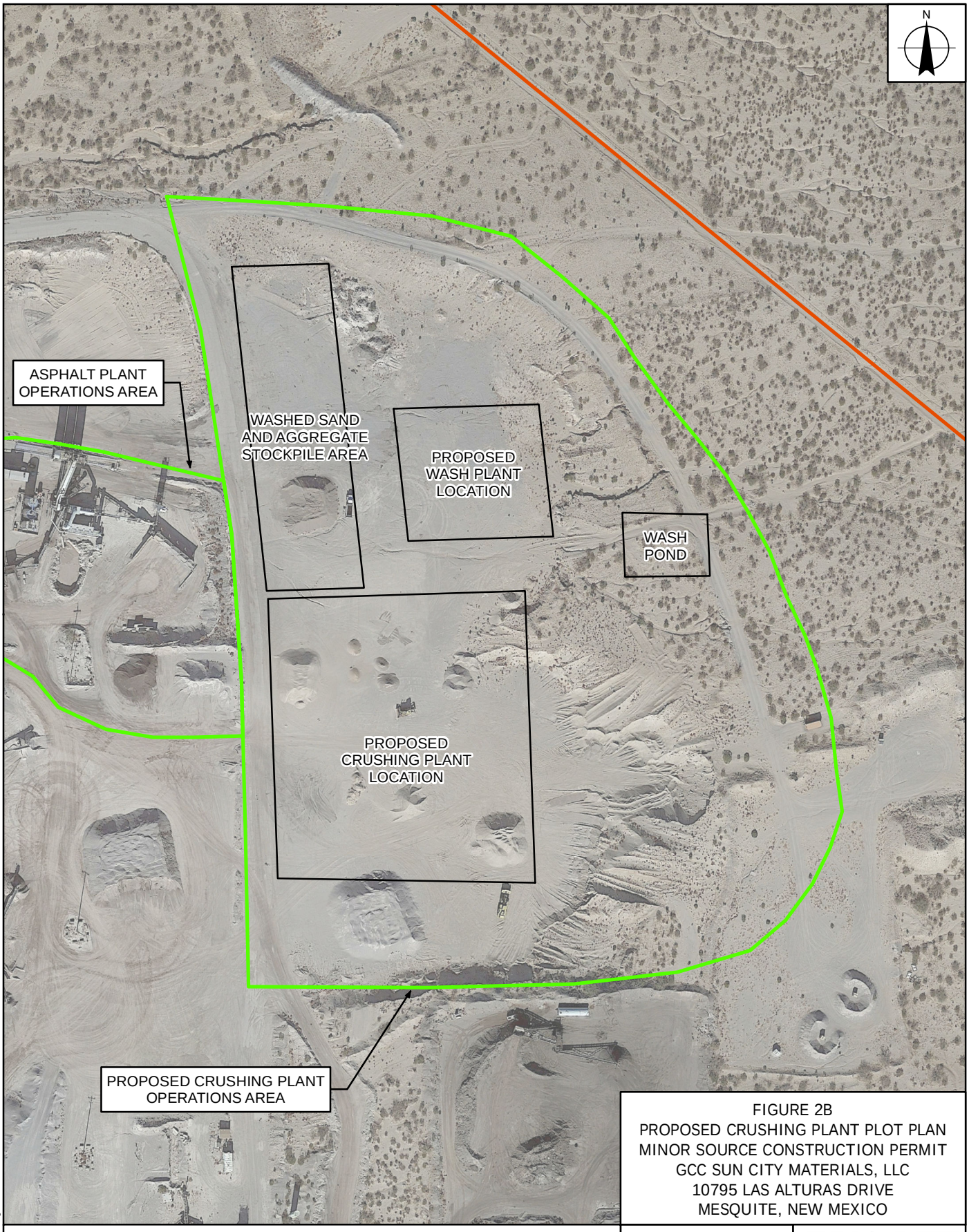


FIGURE 2B
PROPOSED CRUSHING PLANT PLOT PLAN
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

LEGEND

APPROXIMATE PROPERTY BOUNDARY

NAD 1983 (2011) STATE PLANE
NEW MEXICO CENTRAL FEET

0 90 180

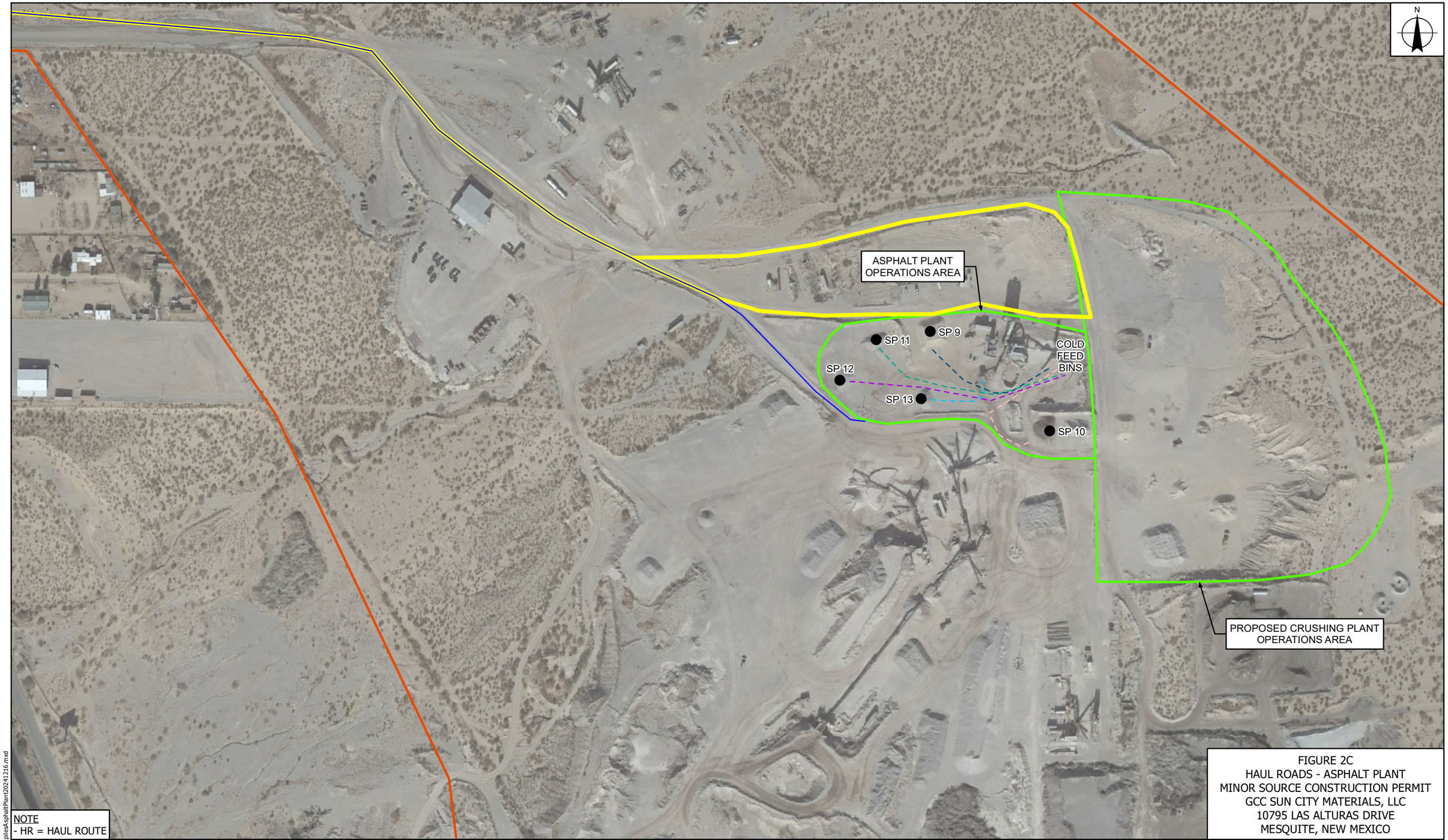
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X:\GCC\ProposedCrushingPlantPlot20241216.mxd



NOTE
- HR = HAUL ROUTE

LEGEND

- STOCKPILES
- TRUCKS HAULING MATERIAL FROM STOCKPILE 12 TO COLD FEED BINS, PAVED (HR3)
- TRUCKS HAULING MATERIAL FROM STOCKPILE 11 TO COLD FEED BINS, PAVED (HR4)
- TRUCKS HAULING MATERIAL FROM STOCKPILE 9 TO COLD FEED BINS, PAVED (HR5)
- TRUCKS HAULING MATERIAL FROM STOCKPILE 10 TO COLD FEED BINS, PAVED (HR6)
- TRUCKS HAULING MATERIAL FROM STOCKPILE 13 TO RAP BIN (HR7)
- ASPHAULT TRUCKS (HR8)
- TRUCKS HAULING OFFSITE MATERIALS INTO SITE (HR12)
- APPROXIMATE PROPERTY BOUNDARY

NAD 1983 (2011) STATE PLANE
NEW MEXICO CENTRAL FEET

0 125 250

SCALE IN FEET

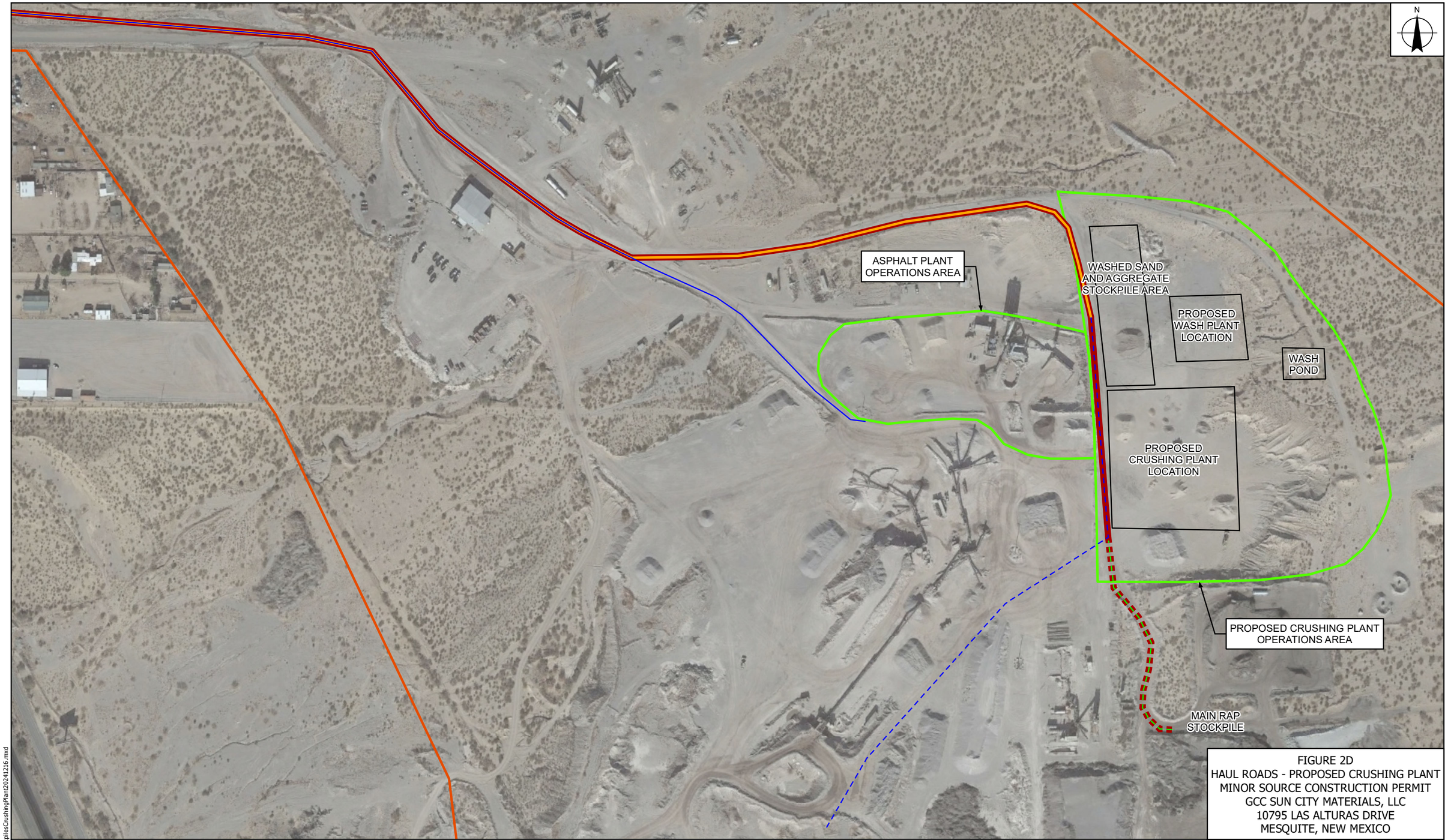
FIGURE 2C
HAUL ROADS - ASPHALT PLANT
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

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X:\GCC\HaulRds_StockpilesCrushingPlant20241216.mxd

LEGEND

- TRUCKS HAULING RAP FROM OFFSITE TO RAP STOCKPILE (HR9), DASHED WHERE UNPAVED
- TRUCKS HAULING OFFSITE AGGREGATES SALE (HR10)
- TRUCKS TO THE QUARRY PIT, PAVED (HR11)
- TRUCKS HAULING OFFSITE MATERIALS INTO SITE (HR12)
- LOADERS FROM MAIN RAP STOCKPILE TO CRUSHING (HR13)
- APPROXIMATE PROPERTY BOUNDARY

NOTE
- HR = HAUL ROUTE
- RAP = RECYCLED ASPHALT PAVEMENT

NAD 1983 (2011) STATE PLANE NEW MEXICO CENTRAL FEET

0 125 250

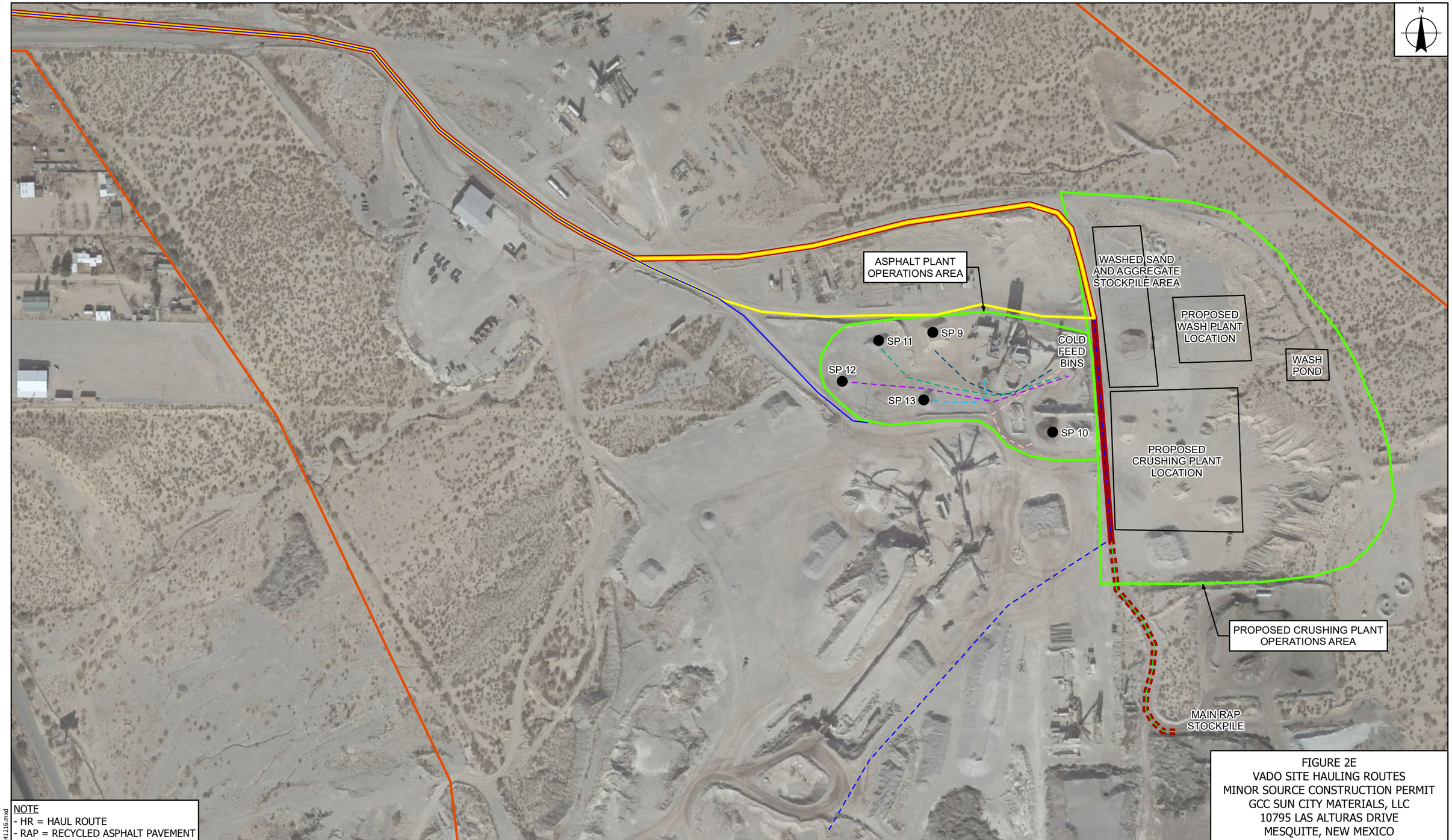
SCALE IN FEET

FIGURE 2D
HAUL ROADS - PROPOSED CRUSHING PLANT
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

REQUESTED BY:	PC
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DATE:	7/21/2025
PROJECT:	0888837490

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NOTE
- HR = HAUL ROUTE
- RAP = RECYCLED ASPHALT PAVEMENT

LEGEND

- STOCKPILES
- TRUCKS HAULING MATERIAL FROM STOCKPILE 12 TO COLD FEED BINS, PAVED (HR3)
- TRUCKS HAULING MATERIAL FROM STOCKPILE 11 TO COLD FEED BINS, PAVED (HR4)
- TRUCKS HAULING MATERIAL FROM STOCKPILE 9 TO COLD FEED BINS, PAVED (HR5)
- TRUCKS HAULING MATERIAL FROM STOCKPILE 10 TO COLD FEED BINS, PAVED (HR6)
- TRUCKS HAULING MATERIAL FROM STOCKPILE 13 TO RAP BIN (HR7)
- ASPHALT TRUCKS (HR8)
- TRUCKS HAULING RAP FROM OFFSITE TO RAP STOCKPILE (HR9), DASHED WHERE UNPAVED
- TRUCKS HAULING OFFSITE AGGREGATES SALE (HR10)
- TRUCKS TO THE QUARRY PIT, PAVED (HR11)
- TRUCKS HAULING OFFSITE MATERIALS INTO SITE (HR12)
- LOADERS FROM MAIN RAP STOCKPILE TO CRUSHING (HR13)
- PROPERTY BOUNDARY

NAD 1983 (2011) STATE PLANE NEW MEXICO CENTRAL FEET

0 125 250

SCALE IN FEET

FIGURE 2E
VADO SITE HAULING ROUTES
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

REQUESTED BY:	PC
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DATE:	9/15/2025
PROJECT:	0888837490

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Section 6

All Calculations

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

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

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

The calculations have been included in the entirety in the UA2 workbook. Print-outs from the calculations in the workbook are provided in the following pages.

Crushing Plant Calculations

GCC Sun City Materials, LLC
Vado Crushing Plant
2024 Controlled Emission Calculations

Plant Throughput	tph	tons per year
CPCR1	500	2921460
CPCR2	300	1752876
CPCR3	200	1168584
WASH PLT	300	700800

Factor
0.500000

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	3.4	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 =	0.00145 lbs/ton
E(PM10) Annual Hour =	0.00068 lbs/ton
E(PM2.5) Annual Hour =	0.00010 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"
	0.00018	0.00008	0.00002	AP-42 Table 11.19.2-2 "Tertiary Crushing Controlled", TCEQ Approved 85% Reduction
Screen	0.00220 lbs/ton	0.00074 lbs/ton	0.00005 lbs/ton	AP-42 Table 11.19.2-2 "Screening Controlled"
	0.00033	0.00011	0.00001	AP-42 Table 11.19.2-2 "Screening Controlled", TCEQ Approved 85% Reduction
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"
	0.00002	0.00001	0.000002	AP-42 Table 11.19.2-2 "Conveyor Transfer Point Controlled", TCEQ Approved 85% Reduction
Stacker Max Hour	0.00396 lbs/ton	0.00187 lbs/ton	0.00028 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=11.0 MPH;M=2.88%
Stacker Annual Hour	0.00087 lbs/ton	0.00041 lbs/ton	0.00006 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH;M=2.88%

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	**3.4**	**Ave MPH**
		% AP-42 Section 11.19.2 Table 11.19.2-2
M	**2.88**	**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 =	**0.00028 lbs/ton**
E(TSP) Annual Hour =	**0.00087 lbs/ton**
E(PM10) Annual Hour =	**0.00041 lbs/ton**
E(PM2.5) Annual Hour =	**0.00006 lbs/ton**

			PTE				PTE		
Process Unit #	Process Unit Description	% of Throughput	Process Rate	TSP	TSP	PM10	PM10	PM2.5	PM2.5
			tph	lbs/hr	ton/yr	lbs/hr	ton/yr	lbs/hr	ton/yr
CPCR1	CP HSI Crusher	100.00	500	0.09	0.26	0.04	0.12	0.01	0.02
CPCR2	CP Cone Crusher Patriot 300	100.00	300	0.05	0.16	0.02	0.07	0.005	0.01
CPCR3	CP Cone Crusher Patriot 200	100.00	200	0.04	0.11	0.02	0.05	0.003	0.01
CPSCRN1	CP Screen Guardian 6202	100.00	500	0.17	0.48	0.06	0.16	0.004	0.01
CPSCRN2	CP Screen Guardian 8203	100.00	501	0.17	0.48	0.06	0.16	0.004	0.01
CPSCRN3	CP Screen Patriot 200	100.00	200	0.07	0.19	0.02	0.06	0.002	0.004
CPTR1	CP Screen Guardian 6202 transfer to Conveyor 2	100.00	500	0.01	0.03	0.003	0.01	0.001	0.003
CPTR2	CP Screen Guardian 6202 transfer to Conveyor 1								
CPTR3	CP Conveyor 1 transfer to Stacker 1	100.00	500	0.01	0.03	0.003	0.01	0.001	0.003
CPTR4	CP Conveyor 2 transfer to Stacker 2								
CPTR5	CP Screen Guardian 8203 transfer to Conveyor 3	100.00	501	0.01	0.03	0.003	0.01	0.001	0.003
CPTR6	CP Screen Guardian 8203 transfer to Conveyor 4								
CPTR7	CP Screen Guardian 8203 transfer to Conveyor 5								
CPTR8	CP Conveyor 3 transfer to Stacker 3	100.00	501	0.01	0.03	0.003	0.01	0.001	0.003
CPTR9	CP Conveyor 4 transfer to Stacker 4								
CPTR10	CP Conveyor 5 transfer to Stacker 5								
CPTR11	CP Screen Patriot 200 transfer to Conveyor 6	100.00	200	0.004	0.01	0.001	0.004	0.0004	0.001
CPTR12	CP Screen Patriot 200 transfer to Conveyor 7								
CPTR13	CP Screen Patriot 200 transfer to Conveyor 8								
CPTR14	CP Conveyor 6 transfer to Stacker 6	100.00	200	0.004	0.01	0.001	0.004	0.0004	0.001
CPTR15	CP Conveyor 7 transfer to Stacker 7								
CPTR16	CP Conveyor 8 transfer to Stacker 8								
CPTR17	Tunnel Conveyor Transfer to Crusher 3 Feed Conveyor	100.00	200	0.004	0.01	0.001	0.004	0.0004	0.001
CPTR18	Tunnel Conveyor Transfer to Screen 2 Feed Conveyor	100.00	201	0.004	0.01	0.001	0.004	0.0004	0.001
CRSTK1	CP Stacker 1 Transfer into Stockpile 1	100.00	500	1.98	1.27	0.94	0.60	0.14	0.09
CRSTK2	CP Stacker 2 Transfer into Stockpile 2								
CRSTK3	CP Stacker 3 Transfer into Stockpile 3	100.00	500	1.98	1.27	0.94	0.60	0.14	0.09
CRSTK4	CP Stacker 4 Transfer into Stockpile 4								
CRSTK5	CP Stacker 5 Transfer into Stockpile 5								
CRSTK6	CP Stacker 6 Transfer into Stockpile 6	100.00	200	0.79	1.27	0.37	0.60	0.06	0.04
CRSTK7	CP Stacker 7 Transfer into Stockpile 7								
CRSTK8	CP Stacker 8 Transfer into Stockpile 8								
WASHTR1	WP Transfer to Wash Plant Feed Hopper	100.00	300	0.01	0.01	0.002	0.002	0.001	0.001
WASHTR2	WP Transfer from Feed Hopper to Wash Plant Feed Conveyor	100.00	300	0.01	0.01	0.002	0.002	0.001	0.001

Total PM Crushing Equipment (tons/yr)	5	6	2	2	0	0

TSP Total	5.67	tons/yr
PM10 Total	2.48	tons/yr
PM2.5 Total	0.31	tons/yr

GCC Sun City Materials, LLC
Vado Crushing Plant
2024 Uncontrolled Emission Calculations

Crushing Plant Throughput	500	tph
Wash Plant Throughput	300	tph
Uncontrolled Hours Operation	8760	hours/yr

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 Maximum	11.0	Max MPH
U Annual	3.4	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 =	0.00145	lbs/ton
E(PM10) Annual Hour =	0.00068	lbs/ton
E(PM2.5) Annual Hour =	0.00010	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"
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	0.000473 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH;M=2%
Stacker Annual Hour	0.00145 lbs/ton	0.00068 lbs/ton	0.00010 lbs/ton	AP-42 Section 13.2.4 "Aggregate Handling" w=8.3 MPH;M=2%

Process Unit #	Process Unit Description	Hour	% of Throughput	Process Rate	TSP	TSP	PM10	PM10	PM2.5	PM2.5
				tph	lbs/hr	ton/yr	lbs/hr	ton/yr	lbs/hr	ton/yr
CPCR1	CP HSI Crusher	8760	100	500	2.70	11.83	1.20	5.26	0.18	0.80
CPCR2	CP Cone Crusher Patriot 300	8760	100	300	1.62	7.10	0.72	3.15	0.11	0.48
CPCR3	CP Cone Crusher Patriot 200	8760	100	200	1.08	4.73	0.48	2.10	0.07	0.32
CPSCRN1	CP Screen Guardian 6202	8760	100	500	12.50	54.75	4.35	19.05	0.66	2.89
CPSCRN2	CP Screen Guardian 8203	8760	100	501	12.51	54.81	4.36	19.08	0.66	2.89
CPSCRN3	CP Screen Patriot 200	8760	100	200	5.00	21.90	1.74	7.62	0.26	1.15
CPTR1	CP Screen Guardian 6202 transfer to Conveyor 2	8760	100	500	1.50	6.57	0.55	2.41	0.08	0.37
CPTR2	CP Screen Guardian 6202 transfer to Conveyor 1	8760								
CPTR3	CP Conveyor 1 transfer to Stacker 1	8760	100	500	1.50	6.57	0.55	2.41	0.08	0.37
CPTR4	CP Conveyor 2 transfer to Stacker 2	8760								
CPTR5	CP Screen Guardian 8203 transfer to Conveyor 3	8760	100	501	1.50	6.58	0.55	2.41	0.08	0.37
CPTR6	CP Screen Guardian 8203 transfer to Conveyor 4	8760								
CPTR7	CP Screen Guardian 8203 transfer to Conveyor 5	8760								
CPTR8	CP Conveyor 3 transfer to Stacker 3	8760	100	501	1.50	6.58	0.55	2.41	0.08	0.37
CPTR9	CP Conveyor 4 transfer to Stacker 4	8760								
CPTR10	CP Conveyor 5 transfer to Stacker 5	8760								
CPTR11	CP Screen Patriot 200 transfer to Conveyor 6	8760	100	200	0.60	2.63	0.22	0.96	0.03	0.15
CPTR12	CP Screen Patriot 200 transfer to Conveyor 7									
CPTR13	CP Screen Patriot 200 transfer to Conveyor 8									
CPTR14	CP Conveyor 6 transfer to Stacker 6	8760	100	200	0.60	2.63	0.22	0.96	0.03	0.15
CPTR15	CP Conveyor 7 transfer to Stacker 7	8760								
CPTR16	CP Conveyor 8 transfer to Stacker 8	8760								
CPTR17	Tunnel Conveyor Transfer to Crusher 3 Feed Conveyor	8760	100	200	0.60	1.75	0.22	0.64	0.03	0.10
CPTR18	Tunnel Conveyor Transfer to Screen 2 Feed Conveyor	8760	100	201	0.60	1.75	0.22	0.64	0.03	0.10
CRSTK1	CP Stacker 1 Transfer into Stockpile 1	8760	100	500	3.30	3.17	1.56	1.50	0.24	0.23
CRSTK2	CP Stacker 2 Transfer into Stockpile 2	8760								
CRSTK3	CP Stacker 3 Transfer into Stockpile 3	8760	100	500	3.30	3.17	1.56	1.50	0.24	0.23
CRSTK4	CP Stacker 4 Transfer into Stockpile 4	8760								
CRSTK5	CP Stacker 5 Transfer into Stockpile 5	8760								
CRSTK6	CP Stacker 6 Transfer into Stockpile 6	8760	100	200	1.32	1.27	0.62	0.60	0.09	0.09
CRSTK7	CP Stacker 7 Transfer into Stockpile 7	8760								
CRSTK8	CP Stacker 8 Transfer into Stockpile 8	8760								
WASHTR1	WP Transfer to Wash Plant Feed Hopper	8760	100	300	0.90	3.94	0.33	1.45	0.05	0.22
WASHTR2	WP Transfer from Feed Hopper to Wash Plant Feed Conveyor	8760	100	300	0.90	3.94	0.33	1.45	0.05	0.22
	Total PM Crushing Equipment (tons/yr)				52	198	20	73	3	11

TSP Total	197.77	tons/yr
PM10 Total	72.7	tons/yr
PM2.5 Total	11.0	tons/yr

Asphalt Plant Calculations

GCC Sun City Materials, LLC
Vado Asphalt Plant
2024 Emission Calculations

Baghouse Stack (APBH1)

Basis and Assumptions
Asphalt plant dryer fires natural gas

300	Hourly Production, tons/hr
600,000	Annual Production, tpy
8,760	Annual Hours of Operation, hr/yr

Emission Factors

28	PM emission factor (uncontrolled), lb/ton product (AP-42 Table 11.1-3)	-0.9988
0.033	PM emission factor (controlled), lb/ton product (AP-42 Table 11.1-3 - Fabric Filter)	
6.5	PM_{10} emission factor (uncontrolled), lb/ton product (AP-42 Table 11.1-3)	-0.9986
0.009412	PM_{10} emission factor (controlled), lb/ton product (AP-42 Table 11.1-3 - Fabric Filter)	
0.9841	$PM_{2.5}$ emission factor (uncontrolled), lb/ton product (assumed 15.14% of uncontrolled PM $_{10}$)	-0.9986
0.001424977	$PM_{2.5}$ emissionfactor (controlled), lb/ton product (assumed 15.14% of controlled PM $_{10}$)	
0.13	CO emission factor, lb/ton product (AP-42 Table 11.1-7)	
0.026	NOx emission factor, lb/ton product (AP-42 Table 11.1-7)	
0.0034	SO_2 emission factor, lb/ton product (AP-42 Table 11.1-7)	
0.032	VOC emission factor, lb/ton product (AP-42 Table 11.1-8)	
0.00000089	Lead emission factor, lb/ton product (AP-42 Table 11.1-11)	
0.00529	Total HAP emission factor, lb/ton product (AP-42 Table 11.1-10) [1]	

Emission Estimates
Baghouse Stack (APBH1)

	Controlled		Uncontrolled	
	lb/hr	tpy	lb/hr	tpy
PM	9.90	9.90	8400.00	8400.00
PM_{10}	2.82	2.82	1950.00	1950.00
$PM_{2.5}$	0.43	0.43	295.23	295.23
CO	N/A	N/A	39.00	39.00
NOx	N/A	N/A	7.80	7.80
SO_2	N/A	N/A	1.02	1.02
VOC	N/A	N/A	9.60	9.60
Lead	N/A	N/A	0.0003	0.0003
Total HAPs	N/A	N/A	1.59	1.59

Emission Calculation Equations
Emissions (lb/hr) = Emission factor (lb/ton) * Production (ton/hr)
Emissions (ton/yr) = Emission Factor (lb/ton) * Production (ton/yr) / 2000 (lb/ton)

Notes:
1. Total HAP emission factor was estimated by adding the total non-PAH HAPs (0.0051 lb/ton) and total PAH HAPs (0.00019 lb/ton) in AP-42 Table 11.1-10

GCC Sun City Materials, LLC
Vado Asphalt Plant
2024 Emission Calculations

Hot Oil Heater Stack (APH1)

Basis and Assumptions

1020 Average Natural Gas (NG) Heating Value, MMBtu/MMscf (AP-42 Section 1.4)
2.5 Firing Rate, MMBtu/hr
8760 Annual Operating Hours
Assume that PM = PM_{10} = $PM_{2.5}$

Emission Factors

7.6 PM emission factor, lb/MMscf fired (AP-42 Table 1.4-2)

84 CO emission factor, lb/MMscf fired (AP-42 Table 1.4-1)

100 NOx emission factor, lb/MMscf fired (AP-42 Table 1.4-1)

0.6 SO_2 emission factor, lb/MMscf fired (AP-42 Table 1.4-2)

5.5 VOC emission factor, lb/MMscf fired (AP-42 Table 1.4-2)

1.89 Total HAP emission factor, lb/MMscf fired (AP-42 Table 1.4-3 and 1.4-4)[1]

Emissions Estimates
Hot Oil Heater Stack (APH1)

	Controlled		Uncontrolled	
	lb/hr	tpy	lb/hr	tpy
PM	N/A	N/A	0.02	0.08
PM_{10}	N/A	N/A	0.02	0.08
$PM_{2.5}$	N/A	N/A	0.02	0.08
CO	N/A	N/A	0.21	0.90
NOx	N/A	N/A	0.25	1.07
SO_2	N/A	N/A	0.001	0.01
VOC	N/A	N/A	0.01	0.06
HAP	N/A	N/A	0.005	0.02

Emission Calculation Equations
Emissions (lb/hr) = Emission Factor (lb/MMscf) / Average NG Heating Value (MMBtu/MMscf) * Firing Rate (MMBtu/hr)
Emissions (tpy) = Emissions (lb/hr) * Operating Hours (hr/yr) / 2000 (lb/ton)

Note:
1. Total HAP emission factor was estimated by adding the HAPs in Tables 1.4-2, 1.4-3, and 1.4-4.

Tables 1.4-2, 1.4-3 and 1.4-4 Emission Factors (HAPs)

2- Methylnaphthalene		2.40E-05
3- Methylcholanthrene		1.80E-06
7,12-Dimethylbenz(a)anthracene		1.60E-05
Acenaphthene		1.80E-06
Acenaphthylene		1.80E-06
Anthracene		2.40E-06
Benz(a)anthracene		1.80E-06
Benzene		2.10E-03
Benzo(a)pyrene		1.20E-06
Benzo(b)fluoranthene		1.80E-06
Benzo(g,h,i)perylene		1.20E-06
Benzo(k)fluoranthene		1.80E-06
Chrysene		1.80E-06
Dibenzo(a,h)anthracene		1.20E-06
Dichlorobenzene		1.20E-03
Fluoranthene		3.00E-06
Fluorene		2.80E-06
Formaldehyde		7.50E-02
Indeno(1,2,3-cd)pyrene		1.80E-06
Naphthalene		6.10E-04
Phenanathrene		1.70E-05
Pyrene		5.00E-06
Toluene		3.40E-03
Arsenic		2.00E-04
Beryllium		1.20E-05
Cadmium		1.10E-03
Chromium		1.40E-03
Cobalt		8.50E-04
Manganese		3.80E-04
Mercury		2.60E-04
Nickel		2.10E-03
Selenium		2.40E-05
Lead		5.00E-04
	TOTAL	1.89E+00

GCC Sun City Materials, LLC
Vado Asphalt Plant
2024 Emission Calculations

Drum Mixer Loadout, Silo Filling, and Truck Loadout Emissions

Basis and Assumptions

300 Hourly production, ton/hr
600,000 Annual Production, tpy
-0.5 Asphalt volatility (assumed, worst-case)
325 Typical Asphalt Temperature, deg. F
Assume that PM10 is 90% of PM for Drum Mixer Transfer to Silo Conveyor and 80% for Silo Filling and Loadout
Assume that PM2.5 is 30% of PM10 for Drum Mixer Transfer to Silo Conveyor and 60% for Silo Filling and Loadout
Emission Factors from AP-42 Table 11.1-14

Emission Factors (Drum Mix Loadout and Truck Loadout)

0.001 PM emission factor, lb/ton product = 0.000181 + 0.00141(-V)e^((0.0251*(T+460)-20.43))
0.001 CO emission factor, lb/ton product = 0.00558(-V)e^((0.0251*(T+460)-20.43))
0.004 VOC emission factor, lb/ton product = 0.0172(-V)e^((0.0251*(T+460)-20.43)) (TOC as propane)

Emission Factors (Silo Filling)

0.001 PM emission factor, lb/ton product = 0.000332 + 0.00105(-V)e^((0.0251*(T+460)-20.43))
0.001 CO emission factor, lb/ton product = 0.00488(-V)e^((0.0251*(T+460)-20.43))
0.012 VOC emission factor, lb/ton product = 0.0504(-V)e^((0.0251*(T+460)-20.43)) (TOC as propane)

Emissions Estimates

	Drum mixer Transfer to Silo Conveyor 7 (APTR10)		Conveyor 7 Transfer to Silo filling (APTR11)		Silo truck loadout (APTR12)	
PM10% of PM	90		80		80	
PM2.5% of PM10	30		60		60	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
PM	0.16	0.16	0.18	0.18	0.16	0.16
PM_{10}	0.14	0.14	0.14	0.14	0.13	0.13
$PM_{2.5}$	0.04	0.04	0.08	0.08	0.08	0.08
CO	0.40	0.40	0.35	0.35	0.40	0.40
VOC	1.25	1.25	3.66	3.66	1.25	1.25

Emissions Calculations Equations

Emissions (lb/hr) = Emission Factor (lb/ton) * Production (ton/hr)
Emissions (ton/yr) = Emission Factor (lb/ton) * Production (ton/yr) / 2000 (lb/ton)

Note:
Controlled and uncontrolled emission estimates are the same.

GCC Sun City Materials, LLC
Vado Asphalt Plant
2024 Emission Calculations

Pugmill and Scalping Screen

Basis and Assumptions

300	Hourly Production, ton/hr (Aggregate + Sand) - Pugmill
300	Hourly Production, ton/hr (Aggregate + Sand) - Scalping Screen
600,000	Maximum Annual Production, tpy (Aggregate + Sand) - Pugmill
600,000	Maximum Annual Production, tpy (Aggregate + Sand) - Scalping Screen

Emission Factors

0.025	PM emission factor, lb/ton (AP-42, Table 11.19.2-2, Uncontrolled Screening)
0.0022	PM emission factor, lb/ton (AP-42, Table 11.19.2-2, Controlled Screening)
0.0087	PM_{10} emission factor, lb/ton (AP-42, Table 11.19.2-2, Uncontrolled Screening)
0.00074	PM_{10} emission factor, lb/ton (AP-42, Table 11.19.2-2, Controlled Screening)
0.000588	[1]$PM_{2.5}$ emission factor, lb/ton (Uncontrolled Screening)
0.000050	$PM_{2.5}$ emission factor, lb/ton (AP-42, Table 11.19.2-2, Controlled Screening)

* AP-42 does not have emissions factors for pugmills (mixers), so screening emission factors are utilized.

Emissions Estimates

Emission Source		Pugmill (APPMILL)	Scalping Screen (Cold Aggregate Feed System) (APSCRN1)
Material / Basis for Emission Factor		aggregate + sand	aggregate + sand
AP, Actual Hourly Throughput / Production (ton/hr)		300	300
AP, Actual Annual Throughput / Production (ton/yr)		600,000	600,000
Controlled	**EF,** emission factor PM (lb/ton)	0.0022	0.00220
	EF, emission factor PM_{10} (lb/ton)	0.00074	0.00074
	EF, emission factor $PM_{2.5}$ (lb/ton)	0.000050	0.000050
Uncontrolled	**EF,** emission factor PM (lb/ton)	0.025	0.025
	EF, emission factor PM_{10} (lb/ton)	0.0087	0.0087
	EF, emission factor $PM_{2.5}$ (lb/ton)	0.000588	0.000588
Controlled	**PM** (lb/hr)	0.66	0.66
	PM_{10} (lb/hr)	0.22	0.22
	$PM_{2.5}$ (lb/hr)	0.02	0.02
	PM (ton/yr)	0.66	0.66
	PM_{10} (ton/yr)	0.22	0.22
	$PM_{2.5}$ (ton/yr)	0.02	0.02
Uncontrolled	**PM** (lb/hr)	7.50	7.50
	PM_{10} (lb/hr)	2.61	2.61
	$PM_{2.5}$ (lb/hr)	0.18	0.18
	PM (ton/yr)	7.50	7.50
	PM_{10} (ton/yr)	2.61	2.61
	$PM_{2.5}$ (ton/yr)	0.18	0.18

Emissions Calculations Equations

Emissions (lb/hr) = Emission Factor (lb/ton) * Production (ton/hr)
Emissions (ton/yr) = Emission Factor (lb/ton) * Production (ton/yr) / 2000 (lb/ton)

Note:
1. The uncontrolled $PM_{2.5}$ emission factor was calculated based on a ratio of controlled $PM_{2.5}$ and controlled PM_{10} as follows:
0.000588 lb/ton = 0.0087 lb/ton *(0.000050 lb/ton / 0.00074 lb/ton)

GCC Sun City Materials, LLC
Vado Asphalt Plant
2024 Emission Calculations

Recycled Asphalt (RAP)

Basis and Assumptions

40	Hourly throughput, tons/hr
1,400	Annual throughput, tpy

*Due to low dust content of RAP, transfer emissions are estimated using conveyor transfer factors

Emission Factors

0.003	PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Uncontrolled)
0.00014	PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Controlled)
0.0011	PM_{10} emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Uncontrolled)
0.000046	PM_{10} emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Controlled)
0.00031	[1]$PM_{2.5}$ emission factor, lb/ton (Conveyor, Uncontrolled)
0.000013	$PM_{2.5}$ emission factor, lb/ton (AP-42 Table 11.19.2-2, Conveyor, Controlled)
0.0054	PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Crushing, Uncontrolled)
0.0012	PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Crushing, Controlled)
0.0024	PM_{10} emission factor, lb/ton (AP-42 Table 11.19.2-2, Crushing, Uncontrolled)
0.00054	PM_{10} emission factor, lb/ton (AP-42 Table 11.19.2-2, Crushing, Controlled)
0.00044	[2]$PM_{2.5}$ emission factor, lb/ton (Crusher, Uncontrolled)
0.0001	$PM_{2.5}$ emission factor, lb/ton (AP-42 Table 11.19.2-2, Crusher, Controlled)
0.025	PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Uncontrolled)
0.0022	PM emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Controlled)
0.0087	PM_{10} emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Uncontrolled)
0.00074	PM_{10} emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Controlled)
0.00059	[3]$PM_{2.5}$ emission factor, lb/ton (Screening, Uncontrolled)
0.00005	$PM_{2.5}$ emission factor, lb/ton (AP-42 Table 11.19.2-2, Screening, Controlled)

Emissions Estimates

Emission Source		Material Transfer (FEL Transfer to Cold Feed Bin) (APTR7)	Material Transfer (Cold Feed Bin transfer to Conveyor 5) (APTR8)	RAP Gator Crushing (APCR1)	RAP Screen (APSCRN2)	Material Transfer (RAP Screen Transfer to Conveyor 6) (APTR9)
Material / Basis for Emission Factor		RAP	RAP	RAP	RAP	RAP
AP, Actual Hourly Throughput / Production (ton/hr)		40	40	40	40	40
AP, Actual Annual Throughput / Production (ton/yr)		1,400	1,400	1,400	1,400	1,400
Controlled	**EF,** emission factor PM (lb/ton)	0.00014	0.000140	0.0012	0.0022	0.00014
	EF, emission factor PM10 (lb/ton)	0.000046	0.000046	0.00054	0.00074	0.000046
	EF, emission factor $PM_{2.5}$ (lb/ton)	0.000013	0.000013	0.0001	0.00005	0.000013
Uncontrolled	**EF,** emission factor PM (lb/ton)	0.003	0.003	0.0054	0.025	0.003
	EF, emission factor PM_{10} (lb/ton)	0.0011	0.0011	0.0024	0.0087	0.0011
	EF, emission factor $PM_{2.5}$ (lb/ton)	0.00031	0.00031	0.00044	0.00059	0.00031
Controlled	**PM** (lb/hr)	0.01	0.01	0.05	0.09	0.01
	PM_{10} (lb/hr)	0.002	0.002	0.02	0.03	0.002
	$PM_{2.5}$ (lb/hr)	0.001	0.001	0.004	0.002	0.001
	PM (ton/yr)	0.0001	0.0001	0.001	0.002	0.0001
	PM_{10} (ton/yr)	0.00003	0.00003	0.0004	0.001	0.00003
	$PM_{2.5}$ (ton/yr)	0.00001	0.00001	0.00007	0.00004	0.00001
Uncontrolled	**PM** (lb/hr)	0.12	0.12	0.22	1.00	0.12
	PM_{10} (lb/hr)	0.04	0.04	0.10	0.35	0.04
	$PM_{2.5}$ (lb/hr)	0.01	0.01	0.02	0.02	0.01
	PM (ton/yr)	0.002	0.002	0.004	0.02	0.002
	PM_{10} (ton/yr)	0.001	0.001	0.002	0.01	0.001
	$PM_{2.5}$ (ton/yr)	0.0002	0.0002	0.0003	0.0004	0.0002

Emissions Calculations Equations

Emissions (lb/hr) = Emission Factor (lb/ton) * Hourly Throughput (ton/hr)

Emissions (ton/yr) = Emission Factor (lb/ton) * Annual Throughput (ton/yr) / 2000 (lb/ton)

Notes:

1. The uncontrolled $PM_{2.5}$ emission factor for the conveyors was calculated based on a ratio of controlled $PM_{2.5}$ and controlled PM_{10} as follows:

0.00031 lb/ton = 0.0011 lb/ton *(0.000013 lb/ton / 0.000046 lb/ton)

2. The uncontrolled $PM_{2.5}$ emission factor for crushing operations was calculated based on a ratio of controlled $PM_{2.5}$ and controlled PM_{10} as follows:

0.00044 lb/ton = 0.0024 lb/ton *(0.0001 lb/ton / 0.00054 lb/ton)

3. The uncontrolled $PM_{2.5}$ emission factor for screening was calculated based on a ratio of controlled $PM_{2.5}$ and controlled PM_{10} as follows:

0.00059 lb/ton = 0.0087 lb/ton *(0.00005 lb/ton / 0.00074 lb/ton)

GCC Sun City Materials, LLC
Vado Asphalt Plant
2024 Emission Calculations

Material Handling (Cold Aggregate Feed) - Conveyors

Basis and Assumptions

8760	Hours of Operation
255	Hourly Aggregate Transferred, ton/hr
60	Hourly Sand Transferred, ton/hr
510,000	Annual Aggregate Transferred, tpy
120,000	Annual Sand Transferred, tpy
	Additional Control for Partial Enclosures

Emission Factors (Conveyor Transfers)

0.003	PM emission factor (Aggregate, Conveyor, Uncontrolled), lb/ton transferred (AP-42 Table 11.19.2-2)
0.00014	PM emission factor (Aggregate, Conveyor, Controlled), lb/ton transferred (AP-42 Table 11.19.2-2)
0.000021	PM emission factor (Aggregate, Conveyor, Controlled with Partial Enclosure), lb/ton transferred (AP-42 Table 11.19.2-2, TCEQ Approved 85% Reduction)
0.0011	PM_{10} emission factor (Aggregate, Conveyor, Uncontrolled), lb/ton transferred (AP-42 Table 11.19.2-2)
0.000046	PM_{10} emission factor (Aggregate, Conveyor, , Controlled), lb/ton transferred (AP-42 Table 11.19.2-2)
0.0000069	PM_{10} emission factor (Aggregate, Conveyor, Controlled with Partial Enclosure), lb/ton transferred (AP-42 Table 11.19.2-2 , TCEQ Approved 85% Reduction)
0.00031	[1]$PM_{2.5}$ emission factor (Aggregate, Conveyor, Uncontrolled), lb/ton transferred
0.000013	$PM_{2.5}$ emission factor (Aggregate, Conveyor, Controlled), lb/ton transferred (AP-42 Table 11.19.2-2)
0.00000195	$PM_{2.5}$ emission factor (Aggregate, Conveyor, Controlled with Partial Enclosure), lb/ton transferred (AP-42 Table 11.19.2-2, TCEQ Approved 85% Reduction)
0.0021	PM emission factor (Sand, Conveyor, Uncontrolled), lb/ton transferred (AP-42 Table 11.12-2)
0.0021	PM emission factor (Sand, Conveyor, Controlled), lb/ton transferred
0.000315	PM emission factor (Sand, Conveyor, Controlled with Partial Enclosure), lb/ton transferred, TCEQ Approved 85% Reduction
0.00099	PM_{10} emission factor (Sand, Conveyor, Uncontrolled), lb/ton transferred (AP-42 Table 11.12-2)
0.00099	PM_{10} emission factor (Sand, Conveyor, Controlled), lb/ton transferred
0.0001485	PM_{10} emission factor (Sand, Conveyor, Controlled with Partial Enclosure), lb/ton transferred, TCEQ Approved 85% Reduction
0.00015	$PM_{2.5}$ emission factor (Sand, Conveyor, Uncontrolled), lb/ton transferred, (PM_{10} EF Sand Conveyor Uncontrolled AP-42 Table 11.12-2) * $k(PM_{2.5})/k(PM_{10})$
0.00015	$PM_{2.5}$ emission factor (Sand, Conveyor, Controlled), lb/ton transferred
2.24871E-05	$PM_{2.5}$ emission factor (Sand, Conveyor, Controlled with Partial Enclosure), lb/ton transferred, TCEQ Approved 85% Reduction
	$k(PM_{2.5})$ = 0.053 and $k(PM_{10})$ = 0.35 (AP-42 - 13.2.4 Aerodynamic Particle Size Multiplier)

Emissions Estimates

Emission Source		Material Transfers (Front-end-loader drop into bins) (APTR1)		Material Transfers (Cold Feed Bin Transfer to Conveyor 1) (APTR2)		Material Transfers (Conveyor 1 Transfer to Conveyor 2) (APTR3)		Material Transfers (Conveyor 2 Transfer into Pugmill) (APTR4)		Material Transfers (Pugmill Transfer to Conveyor 3) (APTR5)		Material Transfers (Scalping Screen Transfer to Conveyor 4) (APTR6)		Material Transfer (Versabind/Lime Transfer to Conveyor 8) (APTR13)
Material / Basis for Emission Factor		Aggregate	Sand	Aggregate	Sand	Aggregate	Sand	Aggregate	Sand	Aggregate	Sand	Aggregate	Sand	Versabind/Lime
AP, Actual Hourly Throughput / Production (ton/hr)		255	60	255	60	255	60	255	60	255	60	255	60	30.6
AP, Actual Annual Throughput / Production (ton/yr)		510,000	120,000	510,000	120,000	510000	120000	510000	120000	510000	120000	510000	120000	120
Controlled	**EF,** emission factor PM (lb/ton)	0.00002	0.000315	0.00002	0.000315	0.000021	0.000315	0.000021	0.000315	0.000021	0.000315	0.000021	0.000315	0.0089
	EF, emission factor PM_{10} (lb/ton)	0.000007	0.0001485	0.000007	0.0001485	0.0000069	0.0001485	0.0000069	0.0001485	0.0000069	0.0001485	0.0000069	0.0001485	0.0049
	EF, emission factor $PM_{2.5}$ (lb/ton)	0.000002	0.00002	0.000002	0.00002	0.00000195	0.00002	0.00000195	0.00002	0.00000195	0.00002	0.00000195	0.00002	0.0049
Uncontrolled	**EF,** emission factor PM (lb/ton)	0.003	0.0021	0.003	0.0021	0.003	0.0021	0.003	0.0021	0.003	0.0021	0.003	0.0021	3.14
	EF, emission factor PM_{10} (lb/ton)	0.0011	0.00099	0.0011	0.00099	0.0011	0.00099	0.0011	0.00099	0.0011	0.00099	0.0011	0.00099	1.1
	EF, emission factor $PM_{2.5}$ (lb/ton)	0.00031	0.00015	0.00031	0.00015	0.00031	0.00015	0.00031	0.00015	0.00031	0.00015	0.00031	0.00015	1.1
Controlled	**PM** (lb/hr)	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.27
	PM_{10} (lb/hr)	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.15
	$PM_{2.5}$ (lb/hr)	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.15
	PM (ton/yr)	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.001
	PM_{10} (ton/yr)	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.000
	$PM_{2.5}$ (ton/yr)	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000
Uncontrolled	**PM** (lb/hr)	0.77	0.13	0.77	0.13	0.77	0.13	0.77	0.13	0.77	0.13	0.77	0.13	96.08
	PM_{10} (lb/hr)	0.28	0.06	0.28	0.06	0.28	0.06	0.28	0.06	0.28	0.06	0.28	0.06	33.66
	$PM_{2.5}$ (lb/hr)	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	33.66
	PM (ton/yr)	0.77	0.13	0.77	0.13	0.77	0.13	0.77	0.13	0.77	0.13	0.77	0.13	0.19
	PM_{10} (ton/yr)	0.28	0.06	0.28	0.06	0.28	0.06	0.28	0.06	0.28	0.06	0.28	0.06	0.07
	$PM_{2.5}$ (ton/yr)	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	0.08	0.01	0.07

Emission Summary

Emission Source		Material Transfers (Front-end-loader drop into bins) (APTR1)	Material Transfers (Cold Feed Bin Transfer to Conveyor 1) (APTR2)	Material Transfers (Conveyor 1 Transfer to Conveyor 2) (APTR3)	Material Transfers (Conveyor 2 Transfer into Pugmill) (APTR4)	Material Transfers (Pugmill Transfer to Conveyor 3) (APTR5)	Material Transfers (Scalping Screen Transfer to Conveyor 4) (APTR6)	Material Transfer (Versabind/Lime Transfer to Conveyor 8) (APTR13)
Material / Basis for Emission Factor		Aggregate + Sand	Aggregate + Sand	Aggregate + Sand	Aggregate + Sand	Aggregate + Sand	Aggregate + Sand	Versabind/Lime
Controlled	**PM** (lb/hr)	0.02	0.02	0.02	0.02	0.02	0.02	0.27
	PM_{10} (lb/hr)	0.01	0.01	0.01	0.01	0.01	0.01	0.15
	$PM_{2.5}$ (lb/hr)	0.002	0.002	0.002	0.002	0.002	0.002	0.15
	PM (ton/yr)	0.02	0.02	0.02	0.02	0.02	0.02	0.001
	PM_{10} (ton/yr)	0.01	0.01	0.01	0.01	0.01	0.01	0.0003
	$PM_{2.5}$ (ton/yr)	0.002	0.002	0.002	0.002	0.002	0.002	0.0003
Uncontrolled	**PM** (lb/hr)	0.89	0.89	0.89	0.89	0.89	0.89	96.08
	PM_{10} (lb/hr)	0.34	0.34	0.34	0.34	0.34	0.34	33.66
	$PM_{2.5}$ (lb/hr)	0.09	0.09	0.09	0.09	0.09	0.09	33.66
	PM (ton/yr)	0.89	0.89	0.89	0.89	0.89	0.89	0.19
	PM_{10} (ton/yr)	0.34	0.34	0.34	0.34	0.34	0.34	0.07
	$PM_{2.5}$ (ton/yr)	0.09	0.09	0.09	0.09	0.09	0.09	0.07

Emissions Calculations Equations

Emissions Aggregate (lb/hr) = Emission Factor (lb/ton) * Aggregate Transferred (ton/hr)
Emissions Sand (lb/hr) = Emission Factor (lb/ton) * Sand Transferred (ton/hr)
Total Emissions (lb/hr) = Emissions Aggregate (lb/hr) + Emissions Sand (lb/hr)

Emissions Aggregate (ton/yr) = Emission Factor (lb/ton) * Aggregate Transferred (ton/yr) / 2000 (lb/ton)
Emissions Sand (ton/yr) = Emission Factor (lb/ton) * Sand Transferred (ton/yr) / 2000 (lb/ton)
Total Emissions (ton/yr=) = Emissions Aggregate (ton/yr) + Emissions Sand (ton/yr)

1. The uncontrolled $PM_{2.5}$ emission factor for the conveyors (APTR2 - APTR6) was calculated based on a ratio of controlled $PM_{2.5}$ and controlled PM_{10} as follows:
0.00031 lb/ton = 0.0011 lb/ton *(0.000013 lb/ton / 0.000046 lb/ton)
2. Emission factors for the Versabind and/or Lime conveyor (APTR13) was taken from AP-42, 5th Ed., Table 11.12-2 (concrete Batching). Factor is for fly ash due to lack of an emission factor for Versabind and/or lime. Assume $PM_{2.5} = PM_{10}$

GCC Sun City Materials, LLC
Vado Asphalt Plant
2024 Emission Calculations

Versabind/Lime Silo Dust Collector (APDC1)

Material / Basis for Emission Factor	Versabind / Lime
AP, Actual Hourly Throughput / Production (ton/hr)	30.6
AP, Actual Annual Throughput / Production (ton/yr)	120
Control Efficiency %	99.9
EF, emission factor PM (lb/ton)[1]	3.14
EF, emission factor PM_{10} (lb/ton)[1]	1.1
EF, emission factor $PM_{2.5}$ (lb/ton)[1]	1.1

Versabind/Lime Silo Dust Collector (APDC1)

	Controlled		Uncontrolled	
	lb/hr	tpy	lb/hr	tpy
PM	0.10	0.0002	96.08	0.19
PM_{10}	0.03	0.00007	33.66	0.07
$PM_{2.5}$	0.03	0.00007	33.66	0.07

Emissions Calculations Equations

Emissions (lb/hr) = Emission factor (lb/ton) * Throughput/Production (ton/hr) * (1-Control Eff%/100)
Emissions (tpy) = Emissions factor (lb/ton) * Throughput/Production (ton/yr) * (1-Control Eff% / 100) / 2000 (lb/ton)

Note

1. Emission factors from AP-42, 5th Ed., Table 11.12-2 (concrete Batching). Factor is for fly ash due to lack of an emission factor for Versabind and/or lime. Assume $PM_{2.5} = PM_{10}$

GCC Sun City Materials, LLC
Emissions Ashpalt Tank 22 (APTK1)
AP-42 Calculation (Normal Operations)
2024 Emission Calculations

[1] ***ANNUAL***	gals		210,000.00
11	ft	D	Shell Diameter
38	ft	H_S	Shell Height
36	ft	H_L	Average Liquid Height
0.001	ft/ft	SR	Tank Cone Roof Slope
25,591	gals	V	Working Volume
8.21		N	Turnovers per year
5,000.00	bbl/yr	Q	Throughput
28,070.00	ft3/yr	V_Q	Net Throughput
1		K_P	Working Loss Product Factor (VOL = 1; Crude Oils = 0.75)
1.000		K_N	Working Loss Turnover Factor
0.0055	ft	H_R	Tank Roof Height
0.00	ft	H_{RO}	Roof Outage
2.00	ft	H_{VO}	Vapor Space Outage
190.24	ft^3	V_V	Tank Vapor Space Volume
10.731	psia-ft3 / lb-mol-R	R	Ideal Gas Constant
0.1		α	Solar absorptance factor
1906.50	Btu/ft^2-d	I	Daily Total Solar Insolation on a Horizontal Surface
785.00	R	T_B	Liquid Bulk Temperature
785.00	R	T_{LA}	Daily Average Liquid Surface Temperature
0.11	psia	P_{VA}	Vapor Pressure at Daily Average Liquid Surface Temp
12.76	psia	P_A	Atmospheric Pressure
84.00	g/mol	M_V	Molecular Weight
0.001	lb/ft^3	W_V	Vapor Density
0.00	R	ΔT_A	Daily Ambient Temperature Range (0 since tank is heated)
0.00	R	ΔT_V	Daily Vapor Temperature Range (0 since tank is heated)
785.01	R	T_{LX}	Maximum Liquid Temperature
784.99	R	T_{LN}	Minimum Liquid Temperature
0.11	psia	P_{VX}	Vapor Pressure at the daily maximum liquid temperature
0.11	psia	P_{VN}	Vapor Pressure at the daily minimum liquid temperature
0.00	psia	ΔP_V	Daily Vapor Pressure Range
0.00	psig	P_{BP}	Breather Vent Pressure Setting
0.00	psig	P_{BV}	Breather Vent Vacuum Setting
0.00	psig	ΔP_B	Breather Vent Pressure
0.0000		K_E	Vapor Space Expansion Factor
0.9885		K_S	Vented Vapor Space Saturation Factor
1		K_B	Vent Setting Correction Factor
		FRm	Maximum Pump Rate, gal/hr

VOC emissions Tank 22 (APTK1):

-	**lb/yr**	**Standing Storage Losses**
30.79	**lb/yr**	**Working Losses**
30.79	**lb/yr**	**Total Losses**
0.02	**Ton/yr**	**Total Losses**

Note
1. The maximum asphalt cement annual throughput will be 630,000 gallons (APTK1 + APTK2 + APTK3)

GCC Sun City Materials, LLC
Emissions Ashpalt Tank 23 (APTK2) and Tank 24 (APTK3) - (EACH TANK) -
AP-42 Calculation (Normal Operations)
2024 Emission Calculations

[1] ***ANNUAL***	gals		210000
11	ft	D	Shell Diameter
35	ft	H_S	Shell Height
33	ft	H_L	Average Liquid Height
0.001	ft/ft	SR	Tank Cone Roof Slope
23,458	gals	V	Working Volume
8.95		N	Turnovers per year
5,000.00	bbl/yr	Q	Throughput
28070	ft3/yr	V_Q	Net Throughput
1		K_P	Working Loss Product Factor (VOL = 1; Crude Oils = 0.75)
1.000		K_N	Working Loss Turnover Factor
0.0055	ft	H_R	Tank Roof Height
0.00	ft	H_{RO}	Roof Outage
2.00	ft	H_{VO}	Vapor Space Outage
190.24	ft^3	V_V	Tank Vapor Space Volume
10.731	psia-ft3 / lb-mol-R	R	Ideal Gas Constant
0.1		α	Solar absorptance factor
1906.50	Btu/ft^2-d	I	Daily Total Solar Insolation on a Horizontal Surface
785.00	R	T_B	Liquid Bulk Temperature
785.00	R	T_{LA}	Daily Average Liquid Surface Temperature
0.11	psia	P_{VA}	Vapor Pressure at Daily Average Liquid Surface Temp
12.76	psia	P_A	Atmospheric Pressure
84.00	g/mol	M_V	Molecular Weight
0.001	lb/ft^3	W_V	Vapor Density
0.00	R	ΔT_A	Daily Ambient Temperature Range (0 since tank is heated)
0.00	R	ΔT_V	Daily Vapor Temperature Range (0 since tank is heated)
785.01	R	T_{LX}	Maximum Liquid Temperature
784.99	R	T_{LN}	Minimum Liquid Temperature
0.11	psia	P_{VX}	Vapor Pressure at the daily maximum liquid temperature
0.11	psia	P_{VN}	Vapor Pressure at the daily minimum liquid temperature
0.00	psia	ΔP_V	Daily Vapor Pressure Range
0.00	psig	P_{BP}	Breather Vent Pressure Setting
0.00	psig	P_{BV}	Breather Vent Vacuum Setting
0.00	psig	ΔP_B	Breather Vent Pressure
0.0000		K_E	Vapor Space Expansion Factor
0.9885		K_S	Vented Vapor Space Saturation Factor
1		K_B	Vent Setting Correction Factor

VOC emissions Tank 23 (APTK2) and Tank 24 (APTK3) - each tank

-	**lb/yr**	**Standing Storage Losses**
30.79	**lb/yr**	**Working Losses**
30.79	**lb/yr**	**Total Losses**
0.02	**Ton/yr**	**Total Losses**

Note
1. The maximum asphalt cement annual throughput will be 630,000 gallons (APTK1 + APTK2 + APTK3)

Stockpile Calculations

GCC Sun City Materials, LLC
Vado Site Stockpiles
2024 Emission Calculations

E= Emission Factor (lb/ton)			AP-42 Section 13.2.4 "Aggregate Handling and Storage Piles" (ver 11/2006
E = k x (0.0032) x (U/5)^1.3 / (M/2)^1.4			
k PM	0.74		
k PM_{10}	0.35		
k $PM_{2.5}$	0.053		
U Max Hour	11.0	Max MPH	
U Annual Hour	3.4	Ave MPH	
M uncontrolled emissions	2.00	%	
M controlled emissions	2.88	%	AP-42 Section 11.19.2 Table 11.19.2-2 Note b: High Controlled Moisture

	Emission Factors (uncontrolled)	Emission Factors (controlled)
E(PM) Max Hour (lb/ton) =	0.00660	0.00396
E(PM_{10}) Max Hour (lb/ton) =	0.00312	0.00187
E($PM_{2.5}$) Max Hour (lb/ton) =	0.00047	0.00028
E(PM) Annual Hour (lb/ton) =	0.00145	0.00087
E(PM_{10}) Annual Hour (lb/ton) =	0.00068	0.00041
E($PM_{2.5}$) Annual Hour (lb/ton) =	0.00010	0.00006

	Area (m^2)	%
SP10	1034.8	67%
SP11	243.2	16%
SP12	262.68	17%
Total area Aggregate SP Asphalt plant	1540.68	100%

Stockpiles Emission Calculation

lb/hr = Emission factor Max Hour (lb/ton) * Hourly throughput (ton/hr) * percent of throughput

tpy = Emission factor Annual Hour (lb/ton) * Annual throughput (ton/yr) * 1 ton/2000 lb * percent of throughput

		Asphalt Plant					Crushing Plant[2]
	Source ID	SP9	SP10	SP11	SP12	SP13	SP18
	Material	Sand	Aggregate	Aggregate	Aggregate	RAP	RAP
	Hourly throughput (ton/hr)	80	340	340	340	40	40
	Annual throughput (ton/yr)	700800	2978400	2978400	2978400	7000	7000
	[1]Percent of throughput	100%	67%	16%	17%	100%	100%
Uncontrolled Emissions	PM (lb/hr)	0.53	1.51	0.35	0.38	0.26	0.26
	PM (ton/yr)	0.51	1.45	0.34	0.37	0.01	0.01
	PM_{10} (lb/hr)	0.25	0.71	0.17	0.18	0.12	0.12
	PM_{10} (ton/yr)	0.24	0.68	0.16	0.17	0.002	0.002
	$PM_{2.5}$ (lb/hr)	0.04	0.11	0.03	0.03	0.02	0.02
	$PM_{2.5}$ (ton/yr)	0.04	0.10	0.02	0.03	0.0004	0.0004
Controlled Emissions	PM (lb/hr)	0.32	0.90	0.21	0.23	0.16	0.16
	PM (ton/yr)	0.30	0.87	0.20	0.22	0.003	0.003
	PM_{10} (lb/hr)	0.15	0.43	0.10	0.11	0.07	0.07
	PM_{10} (ton/yr)	0.14	0.41	0.10	0.10	0.001	0.001
	$PM_{2.5}$ (lb/hr)	0.02	0.06	0.02	0.02	0.01	0.01
	$PM_{2.5}$ (ton/yr)	0.02	0.06	0.01	0.02	0.0002	0.0002

Note 1: Percent of throughput for the aggregate stockpiles at the asphalt plant may vary.

Note 2: Calculations for transfers from stackers to stockpiles for crushing operations (CPSTK1 to CPSTK8) can be found in the Crushing Plant emission calculation sheet.

Haul Road Calculations

GCC Sun City Materials, LLC
Vado Site Haul Roads
2024 Emission Calculations (Rev 09/2025)

UNPAVED ROADS	
AP-42 13.2.2 (ver 11/2006) "Unpaved Roads" Table 13.2.2-1 and Table 13.2.2-2	
Equation Emission Factor:	
E = k(s/12)^a*(W/3)^b	
Equation Vehicle Miles Traveled:	
VMT = T * L	
Equation Emission Rate:	
Uncontrolled emissions = E * VMT	
Controlled emissions = E * VMT * (1-CE)	
NMED accepted control efficiency - base coarse and surfactant:	90%
k PM	4.9
k PM10	1.5
k PM2.5	0.15
a PM	0.7
a PM10	0.9
a PM2.5	0.9
b PM	0.45
b PM10	0.45
b PM2.5	0.45
s, % Silt Content	4.8

PAVED ROADS	
AP-42 13.2.1 (ver 1/2011) "Paved Road" Table 13.2.1-1 and Table 13.2.1-3	
Equation Emission Factor:	
E =k(sL)^0.91*(W)^1.02	
Equation Vehicle Miles Traveled:	
VMT = T * L	
Equation Emission Rate:	
Uncontrolled emissions = E * VMT	
Controlled emissions = E * VMT * (1-CE)	
NMED accepted control efficiency - paved and swept:	95%
k PM	0.011
k PM10	0.0022
k PM2.5	0.00054
sL, Road surface s	12 g/m^2

	Empty weight (ton)	Capacity (ton)	Operating Weight (ton)	Avg Weight (ton)
Loader	21.4385	12	33.4385	27.4385
Super 16	11.18	23	34.18	22.68
Super 18	14.67	24	38.67	26.67
Pit/Cement/Agg	15	32	47	31.00

		tpy	Tons per truck/load	Trucks per year	Trucks per hour		
	ASPHALT PLANT						
	Sand transferred						
loader		120000	12	10000	5	HR5	Trucks hauling material from Stockpile 9 to cold feed bins
					3	HR5_N	
	Aggregate						
loader	transferred	510000	12	42500	21	HR3, HR4, HR6	Trucks hauling material from Stockpile 12, 11, 10 to cold feed
					11	HR3_N, HR4_N, HR6_N	
	RAP Throughput						
loader		1400	12	117	1.0	HR7	Trucks hauling material from Stockpile 13 to RAP bin
	Asphalt						
Super 16/18	production	600000	23	26087	5.0	HR8	Asphalt trucks
Super 16/18			23	5217	1.0	HR12	Trucks hauling offsite materials into site

	CRUSHING PLANT	tpy	Tons per truck/load	Trucks per year	Trucks per hour		
Pit truck	Plant throughput	2921460	32	91296	16	HR11	Trucks to the Quarry Pit (Daytime)
					0	HR11_N	Trucks to the Quarry Pit (Nighttime)
Super 16/18	Leftover aggregat	2411460	23	104846	15.0	HR10	Trucks hauling offsite aggregates sale
Super 18	RAP Throughput	1400	24	58	1.0	HR9	Trucks hauling RAP from offsite to RAP Stockpile
loader	RAP Crushing	1400	12	117	1.0	HR13	RAP Transport from SP to RAP Crushing

			Unpaved Haul Roads			Paved Haul Roads												
	Source ID		HR7	HR9 unpaved segment	HR13	HR3	HR3_N	HR4	HR4_N	HR5	HR5_N	HR6	HR6_N	HR8	HR9 paved segment	HR10	HR11	HR12
	Model ID		HR7	H9U	H13	HR3	HR3_N	HR4	HR4_N	HR5	HR5_N	HR6	HR6_N	HR8	H9P	H10	H11	H12
T hourly	Trucks per hour		1	1	1	21	11	21	11	5	3	21	11	5	1	15	16	1
T annual	Trucks per year		117	58	117	42500		42500		10000		42500		26087	58	104846	91296	5217
L	Total length traveled per truck	(meters)	129	745	187	361	361	330	330	232	232	242	242	2449	2511	2517	1057	2091
L	Total length traveled per truck	(miles)	0.08	0.46	0.12	0.22	0.22	0.21	0.21	0.14	0.14	0.15	0.15	1.52	1.56	1.56	0.66	1.30
VMT hourly	Vehicle Miles Traveled per Hour	(VMT/hr)	0.08	0.46	0.12	4.77	2.39	4.36	2.18	0.72	0.36	3.19	1.59	7.58	1.56	23.46	10.51	1.30
VMT annual	Vehicle Miles Traveled Per Year	(VMT/year)	9.38	26.99	13.60	9540.25		8716.84		1443.07		6378.13		39698.65	91.03	163947.10	59955.19	6778.70
W	Avg Vehicle Weight	(tons)	27	27	27	27	27	27	27	27	27	27	27	27	27	27	32	27
E	PM EmissionFactor	(lb/VMT)	6.99	6.90	6.99	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.01	3.01	3.01	3.62	3.01
	PM Emission Rate (Uncontrolled)	lb/hr	0.56	3.19	0.81	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PM Emission Rate (Uncontrolled)	tpy	0.03	0.09	0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PM Controlled Emission Rate	lb/hr	0.06	0.32	0.08	0.74	0.37	0.67	0.34	0.11	0.06	0.49	0.25	1.14	0.23	3.53	1.90	0.20
	PM Controlled Emission Rate	tpy	0.003	0.01	0.005	0.74	0.00	0.67	0.00	0.11	0.00	0.49	0.00	2.98	0.007	12.32	5.43	0.51
E	PM10 Emission Factor	(lb/VMT)	1.78	1.76	1.78	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.60	0.60	0.60	0.72	0.60
	PM10 Emission Rate (Uncontrolled)	lb/hr	0.14	0.81	0.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PM10 Emission Rate (Uncontrolled)	tpy	0.01	0.02	0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PM 10 Controlled Emission Rate	lb/hr	0.01	0.08	0.02	0.15	0.07	0.13	0.07	0.02	0.01	0.10	0.05	0.23	0.05	0.71	0.38	0.04
	PM 10 Controlled Emission Rate	tpy	0.001	0.002	0.001	0.15	0.00	0.13	0.00	0.02	0.00	0.10	0.00	0.60	0.001	2.46	1.085	0.10
	# Sources modeled		8	42	21	21	21	19	19	13	13	14	14	184	140	140	59	117
	PM10 Controlled Emission Rate modeled per source	(lb/hr)	0.002	0.002	0.001	0.007	0.0035	0.007	0.0035	0.0017	0.0009	0.007	0.0035	0.001	0.0003	0.005	0.006	0.0003
E	PM2.5 Emission Factor	(lb/VMT)	0.18	0.18	0.18	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.18	0.15
	PM2.5 Emission Rate (Uncontrolled)	lb/hr	0.01	0.08	0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PM2.5 Emission Rate (Uncontrolled)	tpy	0.001	0.002	0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PM2.5 Controlled Emission Rate	lb/hr	0.001	0.01	0.00	0.04	0.02	0.03	0.02	0.01	0.00	0.02	0.01	0.06	0.01	0.17	0.09	0.01
	PM2.5 Controlled Emission Rate	tpy	0.0001	0.0002	0.0001	0.04	0.00	0.03	0.00	0.01	0.00	0.02	0.00	0.15	0.000	0.60	0.266	0.03
	# Sources modeled		8	42	21	21	21	19	19	13	13	14	14	184	140	140	59	117
	PM2.5 Controlled Emission Rate modeled per source	(lb/hr)	0.0002	0.0002	0.0001	0.0017	0.0009	0.0017	0.0009	0.0004	0.0002	0.0017	0.0009	0.0003	0.0001	0.0012	0.0016	0.0001

Note 1 - Haul road HR9 has an unpaved and paved segment. Haul roads HR7, and HR13 are unpaved. Haul roads HR8, HR10, and HR12 are paved. HR3, HR4, HR5, HR6, and HR11 will be paved.

Emissions Summary - Haul Roads

Plant:		Asphalt Plant						Crushing Plant				Site
Source ID:		HR3	HR4	HR5	HR6	HR7	HR8	HR9	HR10	HR11	HR13	HR12
Source Description:		Trucks hauling material from Stockpile 12 to cold feed bins	Trucks hauling material from Stockpile 11 to cold feed bins	Trucks hauling material from Stockpile 9 to cold feed bins	Trucks hauling material from Stockpile 10 to cold feed bins	Trucks hauling material from Stockpile 13 to RAP bin	Asphalt Trucks	Trucks hauling RAP from offsite to Main RAP Stockpile	Trucks hauling offsite aggregates sale	Trucks to the Quarry Pit	Loaders from Main RAP Stockpile to Crushing	Trucks hauling offsite materials into site
PM Emission Rate (Uncontrolled):	lb/hr	N/A	N/A	N/A	N/A	0.56	N/A	3.19	N/A	N/A	0.81	N/A
PM Emission Rate (Uncontrolled):	tpy	N/A	N/A	N/A	N/A	0.03	N/A	0.09	N/A	N/A	0.05	N/A
PM Controlled Emission Rate:	lb/hr	0.74	0.67	0.11	0.49	0.06	1.14	0.55	3.53	1.90	0.08	0.20
PM Controlled Emission Rate:	tpy	0.74	0.67	0.11	0.49	0.003	2.98	0.02	12.32	5.43	0.005	0.51
PM10 Emission Rate (Uncontrolled):	lb/hr	N/A	N/A	N/A	N/A	0.14	N/A	0.81	N/A	N/A	0.21	N/A
PM10 Emission Rate (Uncontrolled):	tpy	N/A	N/A	N/A	N/A	0.01	N/A	0.02	N/A	N/A	0.01	N/A
PM 10 Controlled Emission Rate:	lb/hr	0.15	0.13	0.02	0.10	0.01	0.23	0.13	0.71	0.38	0.02	0.04
PM 10 Controlled Emission Rate:	tpy	0.15	0.13	0.02	0.10	0.001	0.60	0.004	2.46	1.09	0.001	0.10
PM2.5 Emission Rate (Uncontrolled):	lb/hr	N/A	N/A	N/A	N/A	0.01	N/A	0.08	N/A	N/A	0.02	N/A
PM2.5 Emission Rate (Uncontrolled):	tpy	N/A	N/A	N/A	N/A	0.001	N/A	0.002	N/A	N/A	0.001	N/A
PM2.5 Controlled Emission Rate:	lb/hr	0.04	0.03	0.01	0.02	0.001	0.06	0.02	0.17	0.09	0.002	0.01
PM2.5 Controlled Emission Rate:	tpy	0.04	0.03	0.01	0.02	0.0001	0.15	0.001	0.60	0.27	0.0001	0.03

Section 6.a

Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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

Calculating GHG Emissions:

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

Sources for Calculating GHG Emissions:

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

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

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

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

Section 7

Information Used to Determine Emissions

Information Used to Determine Emissions shall include the following:

- ☐ If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.
- ☐ If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
- ☒ 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.

The following sources for emission factors are used in the calculations.

- AP-42 Section 1.4 Natural Gas Combustion Table 1.4-1, Table 1.4-2, Table 1.4-3, and Table 1.4-4
- AP-42 Section 11.1 Hot Mix Asphalt Plants (version 03/2004) Table 11.1-3, Table 11.1-7, Table 11.1-8, Table 11.1-10, Table 11.1-11, and Table 11.1-14
- AP-42 Section 11.12 Concrete Batching (version 06/2006)Table 11.12-2
- AP-42 Section 11.19.2 Crushed Stone Processing and Pulverized Mineral Processing (version 08/2004) Table 11.19.2-2 and Note b: High Controlled Moisture Content
- AP-42 Section 13.2.1 Paved Roads (version 01/2011) Table 13.2.1-1 and Table 13.2.1-3
- AP-42 Section 13.2.2 Unpaved Roads (version 11/2006) Table 13.2.2-1 and Table 13.2.2-2
- AP-42 Section 13.2.4 Aggregate Handling and Storage Piles (version 11/2006)

The page extracts from AP-42 sections are provided next.

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

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

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

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

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

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

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

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

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

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

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

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

CAS No.	Pollutant	Emission Factor ($lb/10^6$ scf)	Emission Factor Rating
91-57-6	2-Methylnaphthalene[b, c]	2.4E-05	D
56-49-5	3-Methylcholanthrene[b, c]	<1.8E-06	E
	7,12-Dimethylbenz(a)anthracene[b,c]	<1.6E-05	E
83-32-9	Acenaphthene[b,c]	<1.8E-06	E
203-96-8	Acenaphthylene[b,c]	<1.8E-06	E
120-12-7	Anthracene[b,c]	<2.4E-06	E
56-55-3	Benz(a)anthracene[b,c]	<1.8E-06	E
71-43-2	Benzene[b]	2.1E-03	B
50-32-8	Benzo(a)pyrene[b,c]	<1.2E-06	E
205-99-2	Benzo(b)fluoranthene[b,c]	<1.8E-06	E
191-24-2	Benzo(g,h,i)perylene[b,c]	<1.2E-06	E
207-08-9	Benzo(k)fluoranthene[b,c]	<1.8E-06	E
106-97-8	Butane	2.1E+00	E
218-01-9	Chrysene[b,c]	<1.8E-06	E
53-70-3	Dibenzo(a,h)anthracene[b,c]	<1.2E-06	E
25321-22-6	Dichlorobenzene[b]	1.2E-03	E
74-84-0	Ethane	3.1E+00	E
206-44-0	Fluoranthene[b,c]	3.0E-06	E
86-73-7	Fluorene[b,c]	2.8E-06	E
50-00-0	Formaldehyde[b]	7.5E-02	B
110-54-3	Hexane[b]	1.8E+00	E
193-39-5	Indeno(1,2,3-cd)pyrene[b,c]	<1.8E-06	E
91-20-3	Naphthalene[b]	6.1E-04	E
109-66-0	Pentane	2.6E+00	E
85-01-8	Phenanathrene[b,c]	1.7E-05	D
74-98-6	Propane	1.6E+00	E

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

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

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

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

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

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

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

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

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

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

Table 11.1-3. PARTICULATE MATTER EMISSION FACTORS FOR DRUM MIX HOT MIX ASPHALT PLANTS[a]

Process	Filterable PM				Condensable PM[b]				Total PM			
	PM[c]	EMISSION FACTOR RATING	PM-10[d]	EMISSION FACTOR RATING	Inorganic	EMISSION FACTOR RATING	Organic	EMISSION FACTOR RATING	PM[e]	EMISSION FACTOR RATING	PM-10[f]	EMISSION FACTOR RATING
Dryer[g] (SCC 3-05-002-05,-55 to -63)												
Uncontrolled	28[h]	D	6.4	D	0.0074[j]	E	0.058[k]	E	28	D	6.5	D
Venturi or wet scrubber	0.026[m]	A	ND	NA	0.0074[n]	A	0.012[p]	A	0.045	A	ND	NA
Fabric filter	0.014[q]	A	0.0039	C	0.0074[n]	A	0.012[p]	A	0.033	A	0.023	C

[a] Factors are lb/ton of product. SCC = Source Classification Code. ND = no data. NA = not applicable. To convert from lb/ton to kg/Mg, multiply by 0.5.

[b] Condensable PM is that PM collected using an EPA Method 202, Method 5 (analysis of "back-half" or impingers), or equivalent sampling train.

[c] Filterable PM is that PM collected on or before the filter of an EPA Method 5 (or equivalent) sampling train.

[d] Particle size data from Reference 23 were used in conjunction with the filterable PM emission factors shown.

[e] Total PM is the sum of filterable PM, condensable inorganic PM, and condensable organic PM.

[f] Total PM-10 is the sum of filterable PM-10, condensable inorganic PM, and condensable organic PM.

[g] Drum mix dryer fired with natural gas, propane, fuel oil, and waste oil. The data indicate that fuel type does not significantly effect PM emissions.

[h] References 31, 36-38, 340.

[j] Because no data are available for uncontrolled condensable inorganic PM, the emission factor is assumed to be equal to the maximum controlled condensable inorganic PM emission factor.

[k] References 36-37.

[m] Reference 1, Table 4-14. Average of data from 36 facilities. Range: 0.0036 to 0.097 lb/ton. Median: 0.020 lb/ton. Standard deviation: 0.022 lb/ton.

[n] Reference 1, Table 4-14. Average of data from 30 facilities. Range: 0.0012 to 0.027 lb/ton. Median: 0.0051 lb/ton. Standard deviation: 0.0063 lb/ton.

[p] Reference 1, Table 4-14. Average of data from 41 facilities. Range: 0.00035 to 0.074 lb/ton. Median: 0.0046 lb/ton. Standard deviation: 0.016 lb/ton.

[q] Reference 1, Table 4-14. Average of data from 155 facilities. Range: 0.00089 to 0.14 lb/ton. Median: 0.010 lb/ton. Standard deviation: 0.017 lb/ton.

Table 11.1-7. EMISSION FACTORS FOR CO, CO_2, NO_x, AND SO_2 FROM DRUM MIX HOT MIX ASPHALT PLANTS[a]

Process	CO[b]	EMISSION FACTOR RATING	CO_2[c]	EMISSION FACTOR RATING	NO_x	EMISSION FACTOR RATING	SO_2[c]	EMISSION FACTOR RATING
Natural gas-fired dryer (SCC 3-05-002-55,-56,-57)	0.13	B	33[d]	A	0.026[e]	D	0.0034[f]	D
No. 2 fuel oil-fired dryer (SCC 3-05-002-58,-59,-60)	0.13	B	33[d]	A	0.055[g]	C	0.011[h]	E
Waste oil-fired dryer (SCC 3-05-002-61,-62,-63)	0.13	B	33[d]	A	0.055[g]	C	0.058[j]	B
Coal-fired dryer[k] (SCC 3-05-002-98)	ND	NA	33[d]	A	ND	NA	0.19[m]	E

[a] Emission factor units are lb per ton of HMA produced. SCC = Source Classification Code. ND = no data available. NA = not applicable. To convert from lb/ton to kg/Mg, multiply by 0.5.

[b] References 25, 44, 48, 50, 149, 154, 197, 214, 229, 254, 339-342, 344, 346, 347, 390. The CO emission factors represent normal plant operations without scrutiny of the burner design, operation, and maintenance. Information is available that indicates that attention to burner design, periodic evaluation of burner operation, and appropriate maintenance can reduce CO emissions. Data for dryers firing natural gas, No. 2 fuel oil, and No. 6 fuel oil were combined to develop a single emission factor because the magnitude of emissions was similar for dryers fired with these fuels.

[c] Emissions of CO_2 and SO_2 can also be estimated based on fuel usage and the fuel combustion emission factors (for the appropriate fuel) presented in AP-42 Chapter 1. The CO_2 emission factors are an average of all available data, regardless of the dryer fuel (emissions were similar from dryers firing any of the various fuels). Fifty percent of the fuel-bound sulfur, up to a maximum (as SO_2) of 0.1 lb/ton of product, is expected to be retained in the product, with the remainder emitted as SO_2.

[d] Reference 1, Table 4-15. Average of data from 180 facilities. Range: 2.6 to 96 lb/ton. Median: 31 lb/ton. Standard deviation: 13 lb/ton.

[e] References 44-45, 48, 209, 341, 342.

[f] References 44-45, 48.

[g] References 25, 50, 153, 214, 229, 344, 346, 347, 352-354.

[h] References 50, 119, 255, 340

[j] References 25, 299, 300, 339, 345, 351, 371-377, 379, 380, 386-388.

[k] Dryer fired with coal and supplemental natural gas or fuel oil.

[m] References 88, 108, 189-190.

Table 11.1-8. EMISSION FACTORS FOR TOC, METHANE, VOC, AND HCl FROM DRUM MIX HOT MIX ASPHALT PLANTS[a]

Process	TOC[b]	EMISSION FACTOR RATING	CH_4[c]	EMISSION FACTOR RATING	VOC[d]	EMISSION FACTOR RATING	HCl[e]	EMISSION FACTOR RATING
Natural gas-fired dryer (SCC 3-05-002-55, -56,-57)	0.044[f]	B	0.012	C	0.032	C	ND	NA
No. 2 fuel oil-fired dryer (SCC 3-05-002-58, -59,-60)	0.044[f]	B	0.012	C	0.032	C	ND	NA
Waste oil-fired dryer (SCC 3-05-002-61, -62,-63)	0.044[f]	E	0.012	C	0.032	E	0.00021	D

[a] Emission factor units are lb per ton of HMA produced. SCC = Source Classification Code. ND = no data available. NA = not applicable. To convert from lb/ton to kg/Mg, multiply by 0.5.

[b] TOC equals total hydrocarbons as propane as measured with an EPA Method 25A or equivalent sampling train plus formaldehyde.

[c] References 25, 44-45, 48, 50, 339-340, 355. Factor includes data from natural gas-, No. 2 fuel oil, and waste oil-fired dryers. Methane measured with an EPA Method 18 or equivalent sampling train.

[d] The VOC emission factors are equal to the TOC factors minus the sum of the methane emission factors and the emission factors for compounds with negligible photochemical reactivity shown in Table 11.1-10; differences in values reported are due to rounding.

[e] References 348, 374, 376, 379, 380.

[f] References 25, 44-45, 48, 50, 149, 153-154, 209-212, 214, 241, 242, 339-340, 355.

Table 11.1-10. EMISSION FACTORS FOR ORGANIC POLLUTANT EMISSIONS FROM DRUM MIX HOT MIX ASPHALT PLANTS[a]

Process	Pollutant		Emission Factor, lb/ton	Emission Factor Rating	Ref. No.
	CASRN	Name			
Natural gas-fired dryer with fabric filter[b] (SCC 3-05-002-55, -56,-57)	Non-PAH hazardous air pollutants[c]				
	71-43-2	Benzene[d]	0.00039	A	25,44,45,50, 341, 342, 344-351, 373, 376, 377, 383, 384
	100-41-4	Ethylbenzene	0.00024	D	25,44,45
	50-00-0	Formaldehyde[e]	0.0031	A	25,35,44,45,50, 339-344, 347-349, 371-373, 384, 388
	110-54-3	Hexane	0.00092	E	339-340
	540-84-1	Isooctane (2,2,4-trimethylpentane)	4.0×10^{-5}	E	339-340
	71-55-6	Methyl chloroform[f]	4.8×10^{-5}	E	35
	108-88-3	Toluene	0.00015	D	35,44,45
	1330-20-7	Xylene	0.00020	D	25,44,45
		Total non-PAH HAPs	0.0051		
	PAH HAPs				
	91-57-6	2-Methylnaphthalene[g]	7.4×10^{-5}	D	44,45,48
	83-32-9	Acenaphthene[g]	1.4×10^{-6}	E	48
	208-96-8	Acenaphthylene[g]	8.6×10^{-6}	D	35,45,48
	120-12-7	Anthracene[g]	2.2×10^{-7}	E	35,48
	56-55-3	Benzo(a)anthracene[g]	2.1×10^{-7}	E	48
	50-32-8	Benzo(a)pyrene[g]	9.8×10^{-9}	E	48
	205-99-2	Benzo(b)fluoranthene[g]	1.0×10^{-7}	E	35,48
	192-97-2	Benzo(e)pyrene[g]	1.1×10^{-7}	E	48
	191-24-2	Benzo(g,h,i)perylene[g]	4.0×10^{-8}	E	48
	207-08-9	Benzo(k)fluoranthene[g]	4.1×10^{-8}	E	35,48
	218-01-9	Chrysene[g]	1.8×10^{-7}	E	35,48
	206-44-0	Fluoranthene[g]	6.1×10^{-7}	D	35,45,48
	86-73-7	Fluorene[g]	3.8×10^{-6}	D	35,45,48,163
	193-39-5	Indeno(1,2,3-cd)pyrene[g]	7.0×10^{-9}	E	48
	91-20-3	Naphthalene[g]	9.0×10^{-5}	D	35,44,45,48,163
	198-55-0	Perylene[g]	8.8×10^{-9}	E	48
	85-01-8	Phenanthrene[g]	7.6×10^{-6}	D	35,44,45,48,163
	129-00-0	Pyrene[g]	5.4×10^{-7}	D	45,48
		Total PAH HAPs	0.00019		

Table 11.1-11. EMISSION FACTORS FOR METAL EMISSIONS FROM BATCH MIX HOT MIX ASPHALT PLANTS[a]

Process	Pollutant	Emission Factor, lb/ton	Emission Factor Rating	Reference Numbers
Dryer, hot screens, and mixer[b] (SCC 3-05-002-45,-46,-47)	Arsenic[c]	4.6×10^{-7}	D	34, 40, 226
	Barium	1.5×10^{-6}	E	24
	Beryllium[c]	1.5×10^{-7}	E	34, 226
	Cadmium[c]	6.1×10^{-7}	D	24, 34, 226
	Chromium[c]	5.7×10^{-7}	D	24, 34, 226
	Hexavalent chromium[c]	4.8×10^{-8}	E	34, 226
	Copper	2.8×10^{-6}	D	24, 34, 226
	Lead[c]	8.9×10^{-7}	D	24, 34, 226
	Manganese[c]	6.9×10^{-6}	D	24, 34, 226
	Mercury[c]	4.1×10^{-7}	E	34, 226
	Nickel[c]	3.0×10^{-6}	D	24, 34, 226
	Selenium[c]	4.9×10^{-7}	E	34, 226
	Zinc	6.8×10^{-6}	D	24, 34, 226

[a] Emission factor units are lb/ton of HMA produced. Emissions controlled by a fabric filter. SCC = Source Classification Code. To convert from lb/ton to kg/Mg, multiply by 0.5.

[b] Natural gas-, propane-, No. 2 fuel oil-, or waste oil-/drain oil-/No. 6 fuel oil-fired dryer. For waste oil-/drain oil-/No. 6 fuel oil-fired dryer, use a lead emission factor of 1.0×10^{-5} lb/ton (References 177 and 321, Emission factor rating: E) in lieu of the emission factor shown.

[c] Arsenic, beryllium, cadmium, chromium, hexavalent chromium, lead, manganese, mercury, nickel, and selenium are HAPs as defined in the 1990 CAAA.

Table 11.1-14. PREDICTIVE EMISSION FACTOR EQUATIONS FOR LOAD-OUT AND SILO FILLING OPERATIONS[a]

EMISSION FACTOR RATING: C

Source	Pollutant	Equation
Drum mix or batch mix plant load-out (SCC 3-05-002-14)	Total PM[b]	$EF = 0.000181 + 0.00141(-V)e^{((0.0251)(T + 460) - 20.43)}$
	Organic PM[c]	$EF = 0.00141(-V)e^{((0.0251)(T + 460) - 20.43)}$
	TOC[d]	$EF = 0.0172(-V)e^{((0.0251)(T + 460) - 20.43)}$
	CO	$EF = 0.00558(-V)e^{((0.0251)(T + 460) - 20.43)}$
Silo filling (SCC 3-05-002-13)	Total PM[b]	$EF = 0.000332 + 0.00105(-V)e^{((0.0251)(T + 460) - 20.43)}$
	Organic PM[c]	$EF = 0.00105(-V)e^{((0.0251)(T + 460) - 20.43)}$
	TOC[d]	$EF = 0.0504(-V)e^{((0.0251)(T + 460) - 20.43)}$
	CO	$EF = 0.00488(-V)e^{((0.0251)(T + 460) - 20.43)}$

[a] Emission factor units are lb/ton of HMA produced. SCC = Source Classification Code. To convert from lb/ton to kg/Mg, multiply by 0.5. EF = emission factor; V = asphalt volatility, as determined by ASTM Method D2872-88 "Effects of Heat and Air on a Moving Film of Asphalt (Rolling Thin Film Oven Test - RTFOT)," where a 0.5 percent loss-on-heating is expressed as "-0.5." Regional- or site-specific data for asphalt volatility should be used, whenever possible; otherwise, a default value of -0.5 should be used for V in these equations. T = HMA mix temperature in °F. Site-specific temperature data should be used, whenever possible; otherwise a default temperature of 325°F can be used. Reference 1, Tables 4-27 through 4-31, 4-34 through 4-36, and 4-38 through 4-41.

[b] Total PM, as measured by EPA Method 315 (EPA Method 5 plus the extractable organic particulate from the impingers). Total PM is assumed to be predominantly PM-2.5 since emissions consist of condensed vapors.

[c] Extractable organic PM, as measured by EPA Method 315 (methylene chloride extract of EPA Method 5 particulate plus methylene chloride extract of impinger particulate).

[d] TOC as propane, as measured with an EPA Method 25A sampling train or equivalent sampling train.

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

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

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

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

13.2.1.3 Predictive Emission Factor Equations[10,29]

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

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

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

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

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

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

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

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

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

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

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

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

Table 13.2.1-3 (Metric And English Units). TYPICAL SILT CONTENT AND LOADING VALUES FOR PAVED ROADS AT INDUSTRIAL FACILITIES [a]

Industry	No. of Sites	No. Of Samples	Silt Content (%)		No. of Travel Lanes	Total Loading x 10^{-3}			Silt Loading (g/m^2)	
			Range	Mean		Range	Mean	Units[b]	Range	Mean
Copper smelting	1	3	15.4-21.7	19.0	2	12.9 - 19.5 45.8 - 69.2	15.9 55.4	kg/km lb/mi	188-400	292
Iron and steel production	9	48	1.1-35.7	12.5	2	0.006 - 4.77 0.020 -16.9	0.495 1.75	kg/km lb/mi	0.09-79	9.7
Asphalt batching	1	3	2.6 - 4.6	3.3	1	12.1 - 18.0 43.0 - 64.0	14.9 52.8	kg/km lb/mi	76-193	120
Concrete batching	1	3	5.2 - 6.0	5.5	2	1.4 - 1.8 5.0 - 6.4	1.7 5.9	kg/km lb/mi	11-12	12
Sand and gravel processing	1	3	6.4 - 7.9	7.1	1	2.8 - 5.5 9.9 - 19.4	3.8 13.3	kg/km lb/mi	53-95	70
Municipal solid waste landfill	2	7		-	2	-			1.1-32.0	7.4
Quarry	1	6		-	2	-			2.4-14	8.2
Corn wet mills	3	15		-	2	-			0.05 – 2.9	1.1

[a] References 1-2,5-6,11-13. Values represent samples collected from *industrial* roads. Public road silt loading values are presented in Table-13.2.1-2. Dashes indicate information not available. [b] Multiply entries by 1000 to obtain stated units; kilograms per kilometer (kg/km) and pounds per mile (lb/mi).

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.

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

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

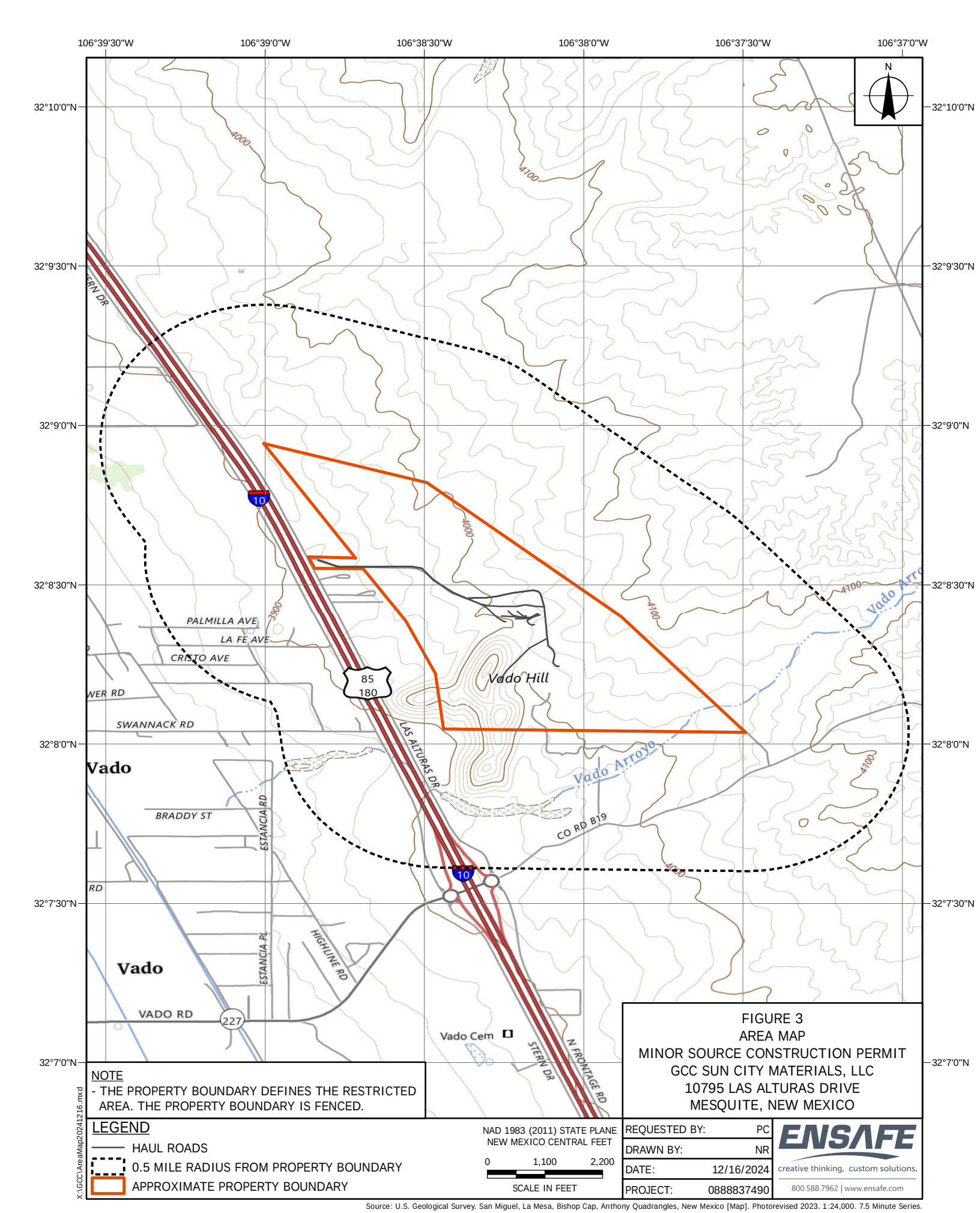
Section 8

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	

A map is provided as Figure 3 in the following page.



NOTE
- THE PROPERTY BOUNDARY DEFINES THE RESTRICTED AREA. THE PROPERTY BOUNDARY IS FENCED.

LEGEND
- HAUL ROADS
- 0.5 MILE RADIUS FROM PROPERTY BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY

NAD 1983 (2011) STATE PLANE NEW MEXICO CENTRAL FEET

0 1,100 2,200

SCALE IN FEET

FIGURE 3
AREA MAP
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

REQUESTED BY:	PC
DRAWN BY:	NR
DATE:	12/16/2024
PROJECT:	0888837490

ENSAFE
creative thinking. custom solutions.
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X:\GCC\AreaMap20241216.mxd

Source: U.S. Geological Survey. San Miguel, La Mesa, Bishop Cap, Anthony Quadrangles, New Mexico [Map]. Photorevised 2023. 1:24,000. 7.5 Minute Series.

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.

All Public Notice Documentation can be found on the following pages.

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Postmark Here

HOUSTON, TX 77079

Sent To: Shannon Reynolds, County Commissioner
Street and Apt. No., or PO Box No.: 845 N. Motel Blvd.
City, State, ZIP+4®: Las Cruces, NM 88007

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 2383 2723 23

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

Certified Mail Fee $

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

Postage $

Total Postage and Fees $

Postmark Here

FLEETWOOD STATION
DEC 18 2024
HOUSTON, TX 77079

Sent To: Susana Chaparro, County Commissioner
Street and Apt. No., or PO Box No.: 845 N. Motel Blvd.
City, State, ZIP+4®: Las Cruces, NM 88007

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 2383 2723 30

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee
$

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

Postage
$

Total Postage and Fees
$

Postmark Here

TX770 HOUSTON DEC 8 2024

Sent To
Manuel A. Sanchez
County Commissioner
Street and Apt. No., or PO Box No.
845 N. Motel Blvd.
City, State, ZIP+4®
Las Cruces, NM 88007

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

GCC Sun City Materials, LLC.
Vado Site

A list of the public places where the public notice has been posted is as follows:

GCC Vado Facility
10795 Las Alturas Dr.
Mesquite, New Mexico 88048

Mesquite Post Office
295 Highway 228
Mesquite, New Mexico 88048

Valero Truck Stop
16320 Stern Dr. #7298
Vado, New Mexico 88072

Vado Elementary
330 Holguin Road
Vado, New Mexico 88072

List of places where the public notice was posted.

Facility entrance on December 17, 2024
GCC Vado Aggregates Facility
10795 Las Alturas Dr.
Mesquite, New Mexico 88048





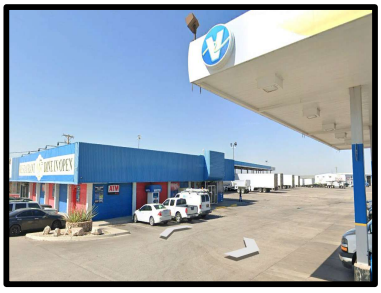
Mesquite Post Office December 17, 2024
295 Highway 228
Mesquite, New Mexico 88048



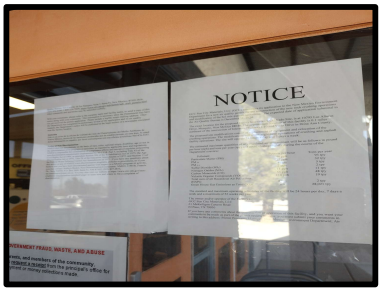


Valero Truck Stop December 17, 2024
16320 Stern Dr. #7298
Vado, New Mexico 88072





Vado Elementary School December 17, 2024
330 Holguin Road
Vado, New Mexico 88072







NOTICE

GCC Sun City Materials, LLC (GCC) announces its application to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

The exact location for the proposed facility known as, GCC Vado Site, is at 10795 Las Alturas Drive, Mesquite, New Mexico 88048. The approximate location of this facility is 0.1 miles northeast of the intersection of Interstate Highway I-10 and Vado Drive in Dona Ana County.

The proposed site modifications consist of replacement of equipment and relocation of the crushing operations. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week.

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

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	46 pph	93 tpy
PM_{10}	21 pph	32 tpy
$PM_{2.5}$	4 pph	5 tpy
Sulfur Dioxide (SO_2)	2 pph	2 tpy
Nitrogen Oxides (NO_x)	11 pph	11 tpy
Carbon Monoxide (CO)	54 pph	48 tpy
Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO_{2e}	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is:
GCC Sun City Materials, LLC
#1 McKelligon Canyon Road
El Paso, TX 79930

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

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

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

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





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MISSING
LUCIO MARTIN HERNANDEZ
AGE: 51
SEX: MALE
HEIGHT: 5'7"
WEIGHT: 170 LB
HAIR: BLACK / DARK BROWN
EYES: BROWN
OUTFIT: Grey sweatpants, white polo, no shoes
Retired Army Vet, Multiple tattoos
LAST SEEN:
WE BUY JUNK
CARS • TRUCKS • VANS
(575) 312-1389
COMPRO CARROS PARA YONKE
DINERO RAPIDO
HAND
SANATIZER
NOTICE
HANDGUNS PROHIBIT
PURSUANT TO SECTION 30.06, PENAL
(TRESPASS BY HOLDER OF LICENSE TO CAR
CONCEALED HANDGUN), A PERSON LICENSED U
SUBCHAPTER H, CHAPTER 411, GOVERNMENT
(CONCEALED HANDGUN LAW), MAY NOT ENTER
PROPERTY WITH A CONCEALED HANDGUN.
CONFORME A LA SECCIÓN 30.06 DEL CÓDIGO P
(TRASPASAR PORTANDO ARMAS DE F
PERSONAS CON LICENCIA BAJO DEL SUB-CAPITU
CAPITULO 411, CODIGO DE GOBIERNO (LEY DE PO
ARMAS), NO DEBEN ENTRAR A ESTA PROPI
PORTANDO UN ARMA DE FUEGO.
FOR USE BY
CAMINO REAL
MEDIA ONLY
Ruffles
Doritos
Lay's
Barbecue
BIMBO
Marinela
Fun & Flav


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Total sum of all Hazardous Air Pollutants (HAPs)
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46 pph
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32 tpy
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5 tpy
2 pph
2 tpy
11 pph
11 tpy
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STAMP OUT GOVERNMENT FRAUD, WASTE, AND ABUSE
Students, parents, and members of the community,
ease remember to request a receipt from the principal's office for
any payment or money collections made.

Property Record Card

Doña Ana Assessor

UNITED STATES OF AMERICA

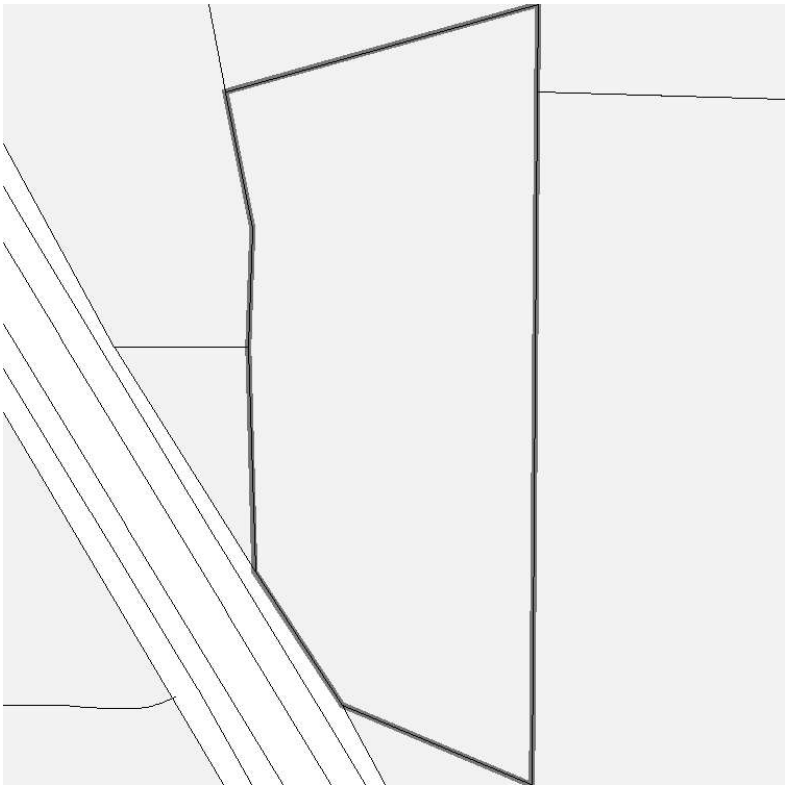
1800 MARQUESS
LAS CRUCES, NM 88005-3371

Account: R1702853
Tax Area: 16OUT_NR - 16OUT_NR
Acres: 45.300

Parcel: 4-014-146-490-121
Situs Address:

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 8 T: 25S R: 3E



Land Occurrence 1

Property Code	9200 - EXEMPT NON-RESIDENTIAL LAND	Electricity	OE - OVER-ELECTRC
Measure	PA - PER-ACRE	Street Code	A - ASPHALT
Topography Code	R - ROLLING	Acres	45.3
Zoning	REM - REMOTE-MESA		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Total				

Assessment History

Type	Actual	Assessed
Exempt Land	$9,060	$3,020
Actual (2024)	$9,060	
Primary Taxable		$3,020
Exempt		($3,020)
Adjusted Taxable Total		$0

Property Record Card

Doña Ana Assessor

UNITED STATES OF AMERICA

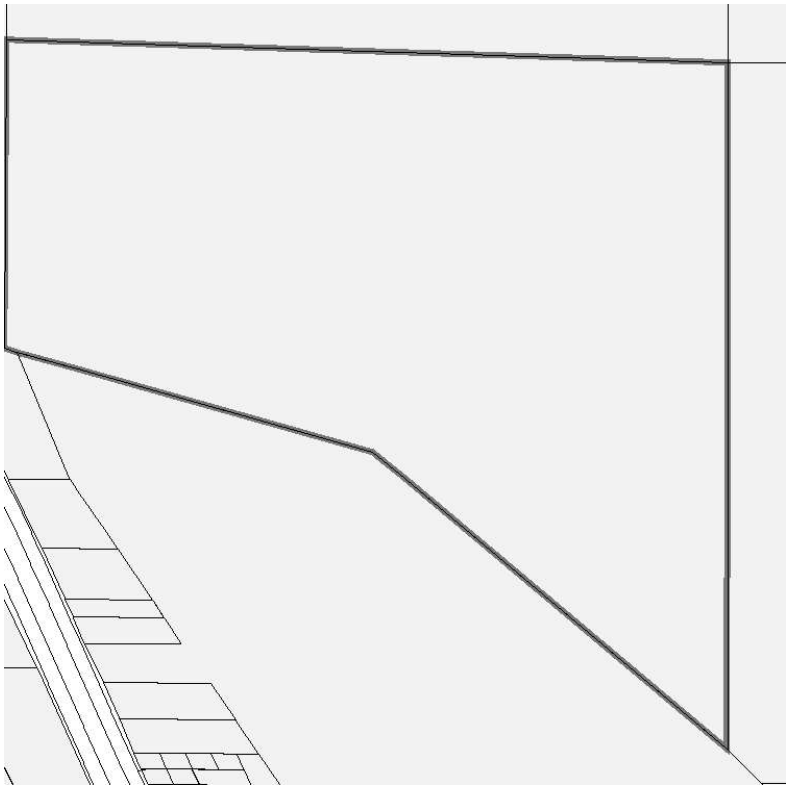
1800 MARQUESS
LAS CRUCES, NM 88005-3371

Account: R1704077
Tax Area: 16OUT_NR - 16OUT_NR
Acres: 360.070

Parcel: 4-015-146-270-154
Situs Address:

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 9 T: 25S R: 3E NHF & NE PT OF SEQTR



Land Occurrence 1

Property Code	9200 - EXEMPT NON-RESIDENTIAL LAND	Measure	PA - PER-ACRE
Topography Code	L - LEVEL	Acres	360.07
Zoning	REM - REMOTE-MESA		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Total				

Assessment History

Type	Actual	Assessed
Exempt Land	$72,014	$24,005
Actual (2024)	$72,014	
Primary Taxable		$24,005
Exempt		($24,005)
Adjusted Taxable Total		$0

Property Record Card

Doña Ana Assessor

UNITED STATES OF AMERICA

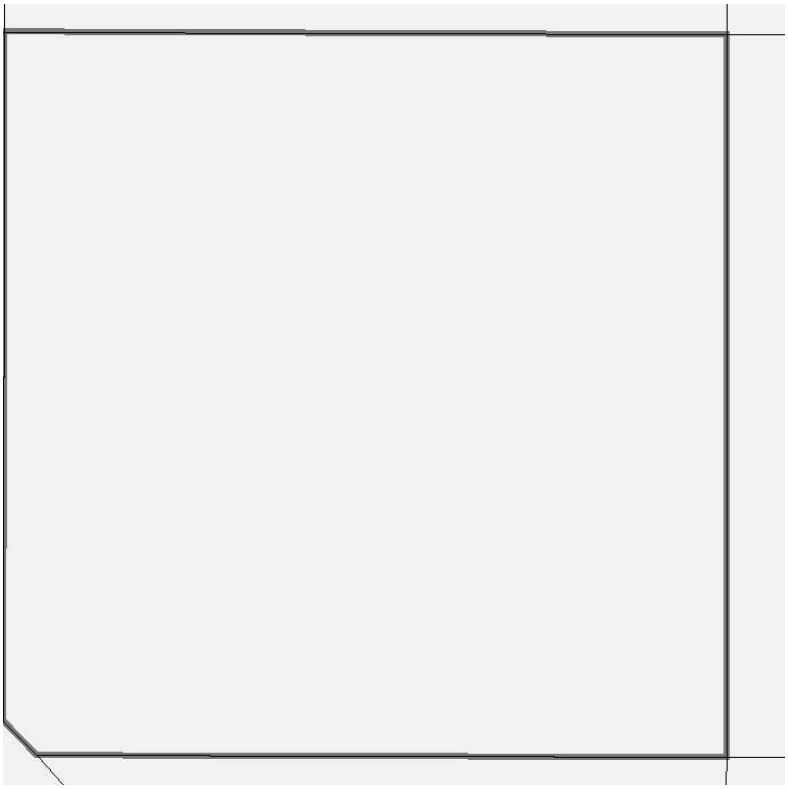
1800 MARQUESS
LAS CRUCES, NM 88005-3371

Account: R1705125
Tax Area: 16OUT_NR - 16OUT_NR
Acres: 640.000

Parcel: 4-016-146-264-263
Situs Address:

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 10 T: 25S R: 3E



Land Occurrence 1

Property Code	9200 - EXEMPT NON-RESIDENTIAL LAND	Measure	PA - PER-ACRE
Topography Code	R - ROLLING	Acres	640
SQFT	27878400	Zoning	REM - REMOTE-MESA

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Sq Ft				
Total				

Assessment History

Type	Actual	Assessed
Exempt Land	$128,000	$42,667
Actual (2024)	$128,000	
Primary Taxable		$42,667
Exempt		($42,667)
Adjusted Taxable Total		$0

Property Record Card

Doña Ana Assessor

UNITED STATES OF AMERICA

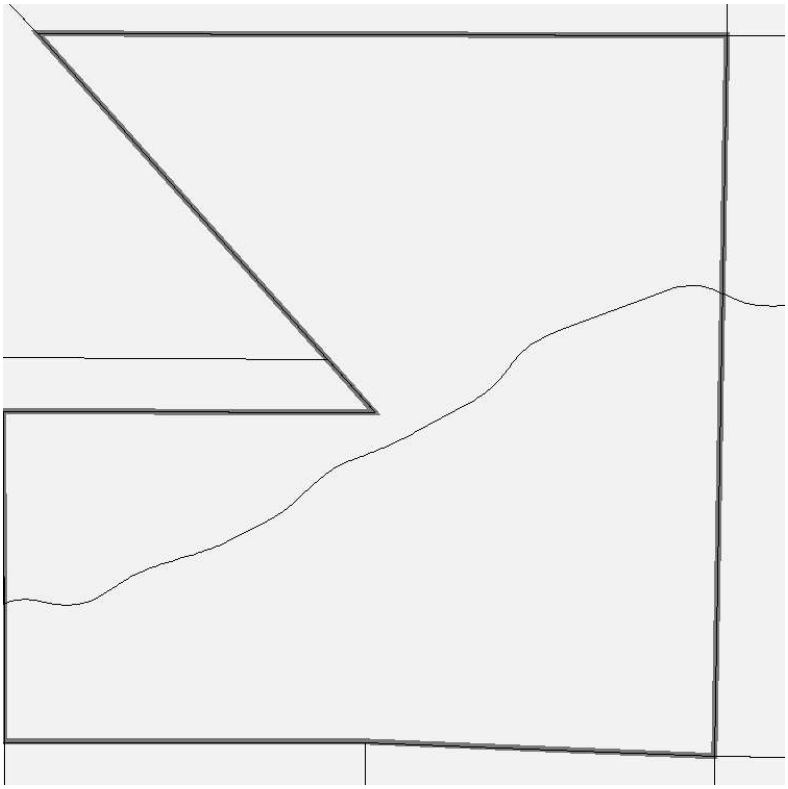
1800 MARQUESS
LAS CRUCES, NM 88005-3371

Account: R1705126
Tax Area: 16OUT_NR - 16OUT_NR
Acres: 525.680

Parcel: 4-016-147-320-230
Situs Address:

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 15 T: 25S R: 3E NEQTRSEQTR PT SWQTR PT NWQT



Land Occurrence 1

Property Code	9200 - EXEMPT NON-RESIDENTIAL LAND	Electricity	E - ELECTRIC
Measure	PA - PER-ACRE	Street Code	A - ASPHALT
Topography Code	R - ROLLING	Acres	525.68
Zoning	REM - REMOTE-MESA		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Total				

Assessment History

Type	Actual	Assessed
Exempt Land	$105,136	$35,045
Actual (2024)	$105,136	
Primary Taxable		$35,045
Exempt		($35,045)
Adjusted Taxable Total		$0

Property Record Card

Doña Ana Assessor

GUILLEN DANIEL S
4007 MISSION BELL
LAS CRUCES, NM 88011-9612

Account: R1704111
Tax Area: 16OUT_R - 16OUT_R
Acres: 52.690

Parcel: 4-015-147-368-262
Situs Address:
1301 EL PEDREGAL RD #1-16
Mesquite, 88048

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 16 T: 25S R: 3E E OF INTERSTATE HWY 10





Land Occurrence 1

Property Code	0100 - RESIDENTIAL LAND	Electricity	OE - OVER-ELECTRC
Gas	P - PROPANE	Measure	PA - PER-ACRE
Sewer Type	ST - SEPTIC-TANK	Street Code	D - DIRT
Topography Code	L - LEVEL	Acres	52.69
Zoning	DM - MOBILE HOME PARK		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Total				

Residential Occurrence 1

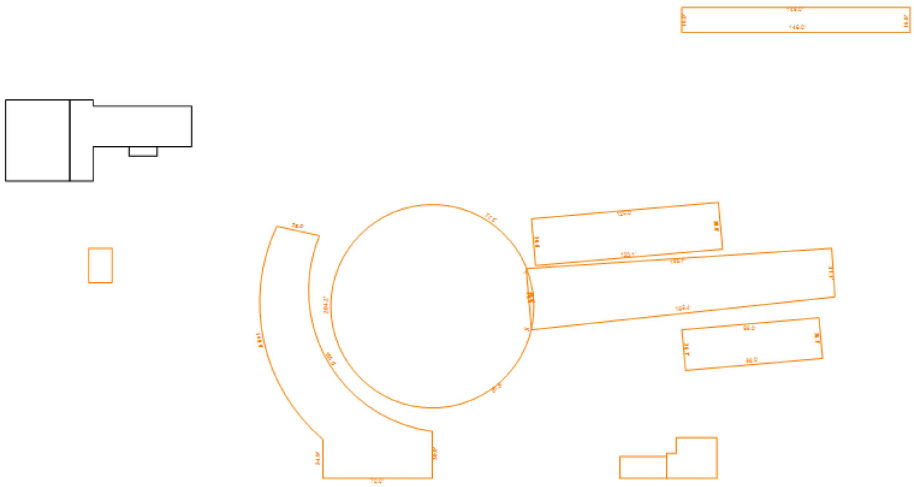
Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	1988
Air Conditioning	E - EVAP-COOLER	Architectural Style	CN - CONVENTIONAL
Baths	2	Bedrooms	4
Building Type	PS - PRNCPL-SNGLE	Condition	FAIR
Construction Quality	A - AVERAGE	Heating Fuel	P - PROPANE
Heating Type	FC - FORCED-CIRCU	Roof Cover	PR - PR-ROLL
Roof Structure	F - FLAT	Stories	1.0
Exterior Wall	AS - ADOBE-STUCOD	Percent	100
Interior Wall	SR - SHEETROCK		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
GLA1 - First Floor	2418.0	2418.0	2418.0	2418.0
OP - Open Porch	108.0	108.0		108.0
STG - Attached Storage	2132.0	2132.0		2132.0

Property Record Card

Doña Ana Assessor

Residential Occurrence 1



Residential Occurrence 2

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Condition	GOOD
Construction Quality	P - POOR	Description	MOBILE HOME HOOKUPS
Percent Complete	100	Units	9

Commercial/Ag Occurrence 1

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Calculated MS Occupancy	340 - Market

Commercial/Ag Occurrence 2

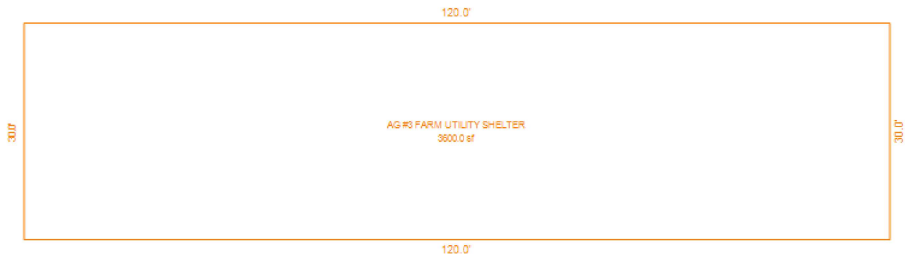
Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	1977
Architectural Style	0 - MISCELANEOUS	Condition	A - AVERAGE
Foundation	Y	Percent Complete	100
Description	TOOL SHED	Calculated MS Occupancy	456 - Tool Shed



Property Record Card

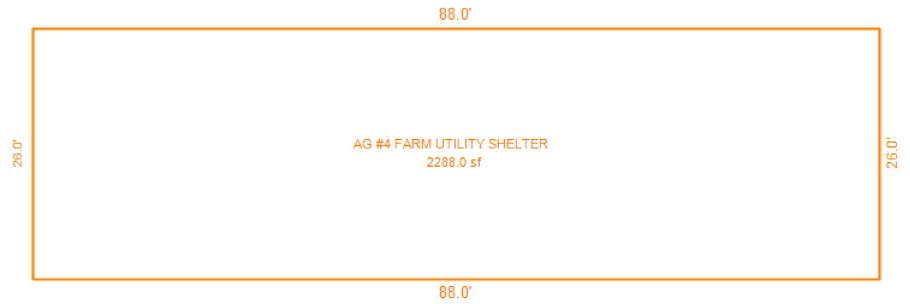
Doña Ana Assessor

Commercial/Ag Occurrence 3



Commercial/Ag Occurrence 4

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	1990
Architectural Style	0 - MISCELANEOUS	Condition	A - AVERAGE
Foundation	Y	Percent Complete	100
Description	FARM UTILITY SHELTER	Calculated MS Occupancy	565 - Farm Utility Shelter



Commercial/Ag Occurrence 5

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	1990
Architectural Style	0 - MISCELANEOUS	Condition	A - AVERAGE
Foundation	Y	Percent Complete	100
Description	FARM UTILITY SHELTER	Calculated MS	565 - Farm Utility Shelter

Property Record Card

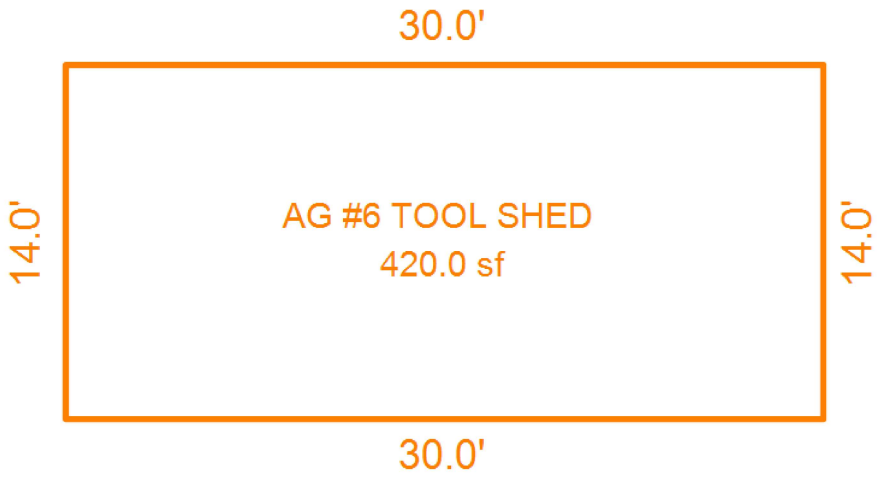
Doña Ana Assessor

Commercial/Ag Occurrence 5



Commercial/Ag Occurrence 6

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	1990
Architectural Style	0 - MISCELANEOUS	Condition	A - AVERAGE
Foundation	Y	Percent Complete	100
Description	TOOL SHED	Calculated MS Occupancy	456 - Tool Shed



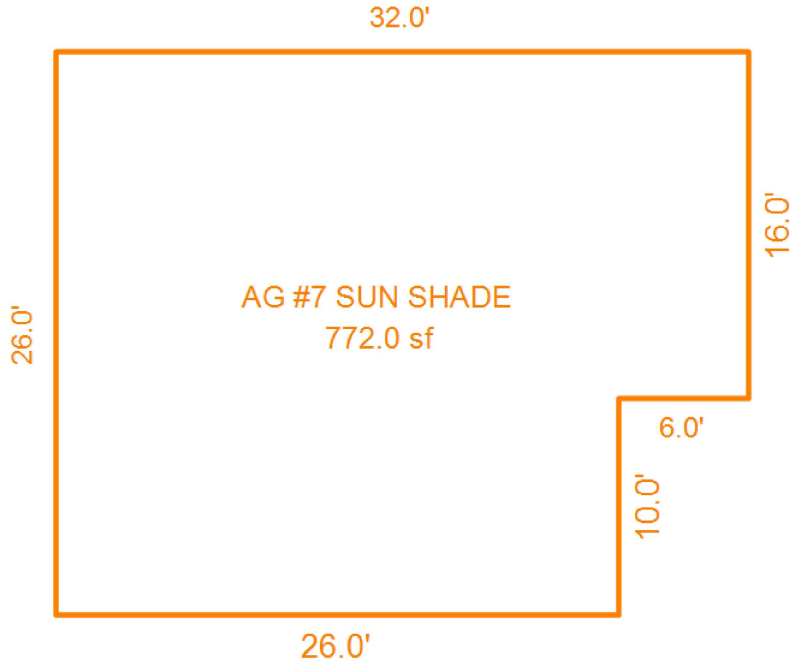
Commercial/Ag Occurrence 7

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	1990
Architectural Style	0 - MISCELANEOUS	Condition	A - AVERAGE
Foundation	Y	Percent Complete	100
Description	SUN SHADE	Calculated MS	566 - Farm Sun Shade Shelter

Property Record Card

Doña Ana Assessor

Commercial/Ag Occurrence 7



Commercial/Ag Occurrence 8

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	1990
Architectural Style	0 - MISCELANEOUS	Condition	A - AVERAGE
Foundation	Y	Percent Complete	100
Description	ARENA SHELTER	Calculated MS Occupancy	184 - Arena Shelter

Assessment History

Type	Actual	Assessed
Residential Land	$147,532	$49,177
Residential Improvement	$274,800	$91,600
Actual (2024)	$422,332	
Primary Taxable		$140,777

Property Record Card

Doña Ana Assessor

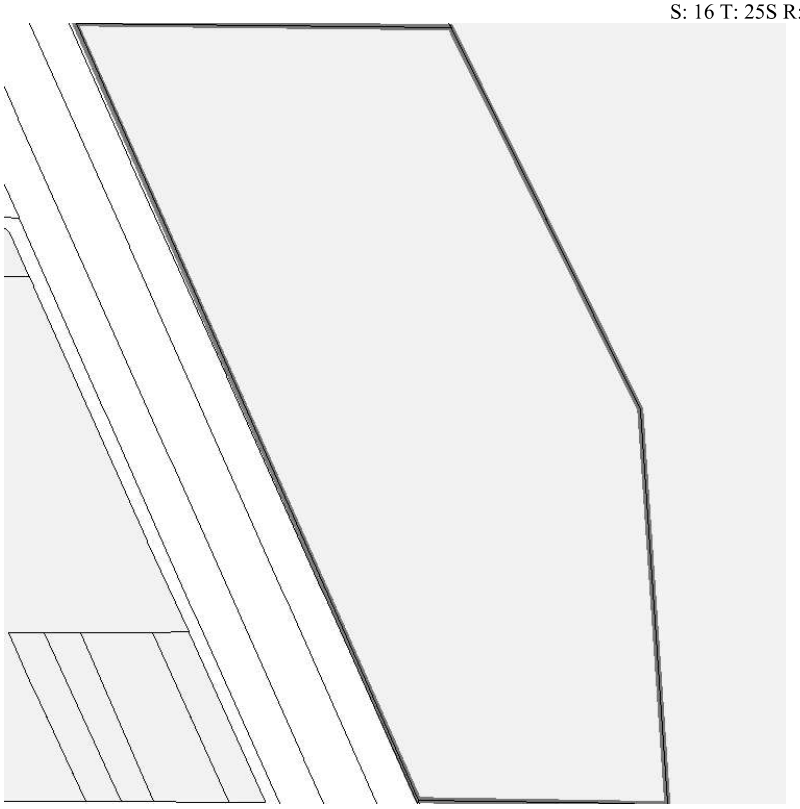
DANIEL S GUILLEN INC
4007 MISSION BELL
LAS CRUCES, NM 88011-9612

Account: R1704109
Tax Area: 16OUT_NR - 16OUT_NR
Acres: 55.440

Parcel: 4-015-147-202-152
Situs Address:
12201 LAS ALTURAS DR

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 16 T: 25S R: 3E E OF INTERSTATE HWY 10



Land Occurrence 1

Property Code	0200 - NON-RESIDENTIAL LAND	Electricity	OE - OVER-ELECTRC
Measure	PA - PER-ACRE	Street Code	D - DIRT
Topography Code	L - LEVEL	Acres	55.44
Zoning	I3 - HEAVY INDUSTRIAL		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Total				

Assessment History

Type	Actual	Assessed
Non-Residential Land	$110,880	$36,960
Actual (2024)	$110,880	
Primary Taxable		$36,960

Property Record Card

Doña Ana Assessor

WALL ISAAC J
WALL SARAH K

12038 VANGOGH DR
EL PASO, TX 79936

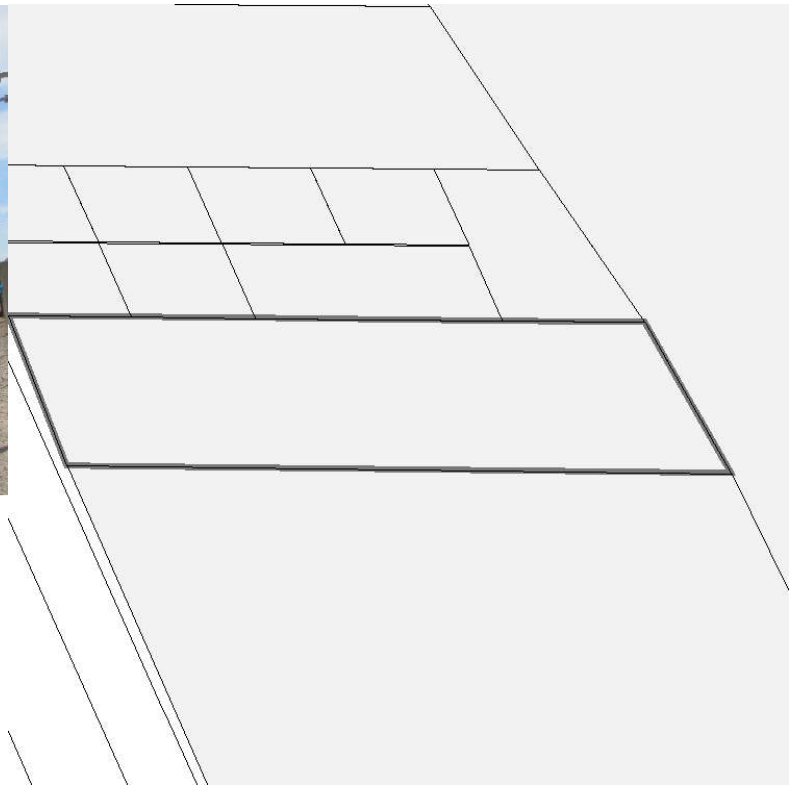
Account: R1704107
Tax Area: 16OUT_R - 16OUT_R
Acres: 5.000

Parcel: 4-015-147-143-038
Situs Address:
12195 LAS ALTURAS DR #1 & 2
Mesilla Park, 88048

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 16 T: 25S R: 3E E OF INTERSTATE HWY 10





Land Occurrence 1

Property Code	0100 - RESIDENTIAL LAND	Electricity	UE - UNDER-ELECTR
Gas	NG - NATURAL-GAS	Measure	PA - PER-ACRE
Sewer Type	ST - SEPTIC-TANK	Street Code	A - ASPHALT
Topography Code	L - LEVEL	Acres	5
SQFT	217800	Zoning	MU - MIXED USE

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Sq Ft				
Total				

Residential Occurrence 1

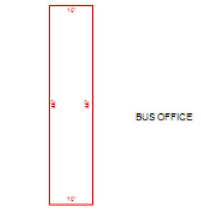
Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	2019
Air Conditioning	R - REFRIG-AIR	Architectural Style	OT - OTHER
Baths	2	Bedrooms	2
Building Type	PS - PRNCPL-SNGLE	Condition	GOOD
Construction Quality	A - AVERAGE	Heating Fuel	G - GAS
Heating Type	FC - FORCED-CIRCU	Percent Complete	100
Roof Cover	MT - METAL	Roof Structure	G - GABLE

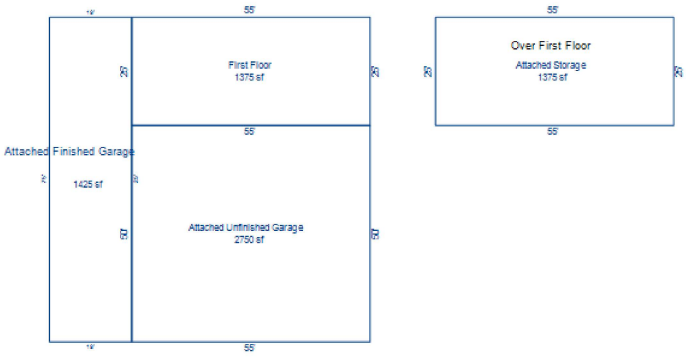
SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
GLA1 - First Floor	1375.0	1375.0	1375.0	1375.0
STG - Attached Storage	1375.0	1375.0		1375.0
GAR_FN - Attached	1425.0	1425.0		1425.0

Property Record Card

Doña Ana Assessor

Residential Occurrence 1





Commercial/Ag Occurrence 1

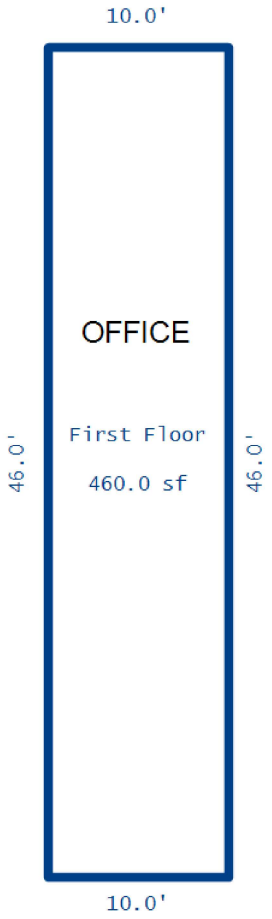
Property Code	0220 - NON-RESIDENTIAL IMPROVEMENT	Actual Year Built	2022
Architectural Style	4 - OF/MD/BNK/GT	Building Type	S - METAL FRAME
Condition	A - AVERAGE	Foundation	Y
Percent Complete	100	Description	DBA: RED BARN TRAILERS
Calculated MS Occupancy	344 - Office Building		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
GBA1 - First Floor	460.0	460.0	460.0	460.0
Total	460.00	460.00	460.00	460.00

Property Record Card

Doña Ana Assessor

Commercial/Ag Occurrence 1



Assessment History

Type	Actual	Assessed
Residential Land	$77,500	$25,833
Residential Improvement	$348,429	$116,143
Non-Residential Improvement	$57,326	$19,109
Actual (2023)	$483,255	
Primary Taxable		$161,085

Property Record Card

Doña Ana Assessor

VASQUEZ JUAN CARLOS
16 EL SUSPIRO CT # 1
MESQUITE, NM 88048-9112

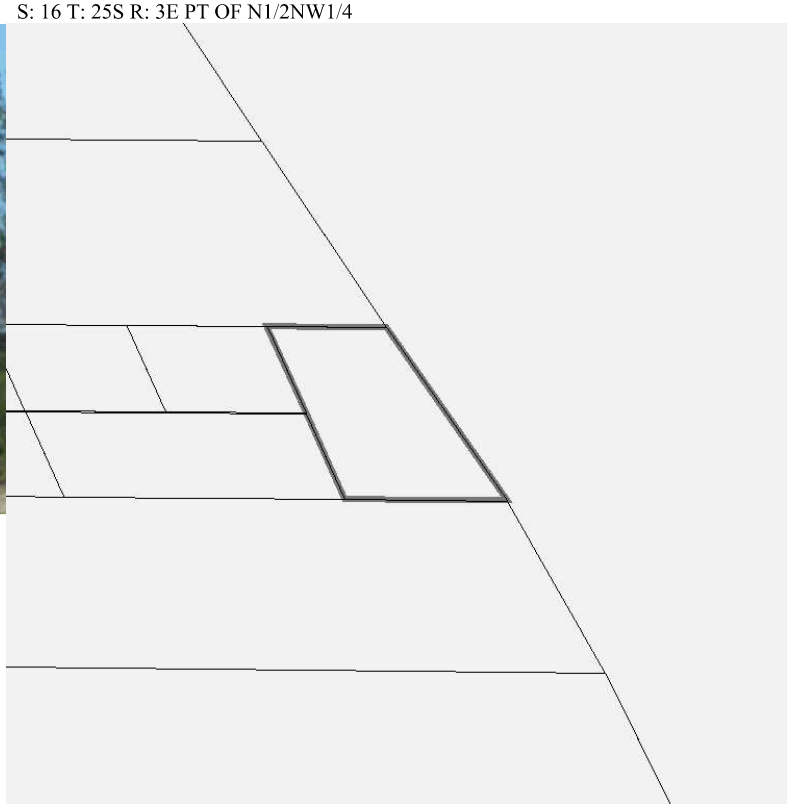
Account: R1712511
Tax Area: 16OUT_R - 16OUT_R
Acres: 1.000

Parcel: 4-015-147-170-028
Situs Address:
16 EL SUSPIRO CT #1

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 16 T: 25S R: 3E PT OF N1/2NW1/4





Land Occurrence 1

Property Code	0100 - RESIDENTIAL LAND	Gas	P - PROPANE
Measure	PA - PER-ACRE	Sewer Type	ST - SEPTIC-TANK
Street Code	D - DIRT	Topography Code	R - ROLLING
Acres	1	SQFT	43560
Zoning	MU - MIXED USE		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Sq Ft				
Total				

Commercial/Ag Occurrence 1

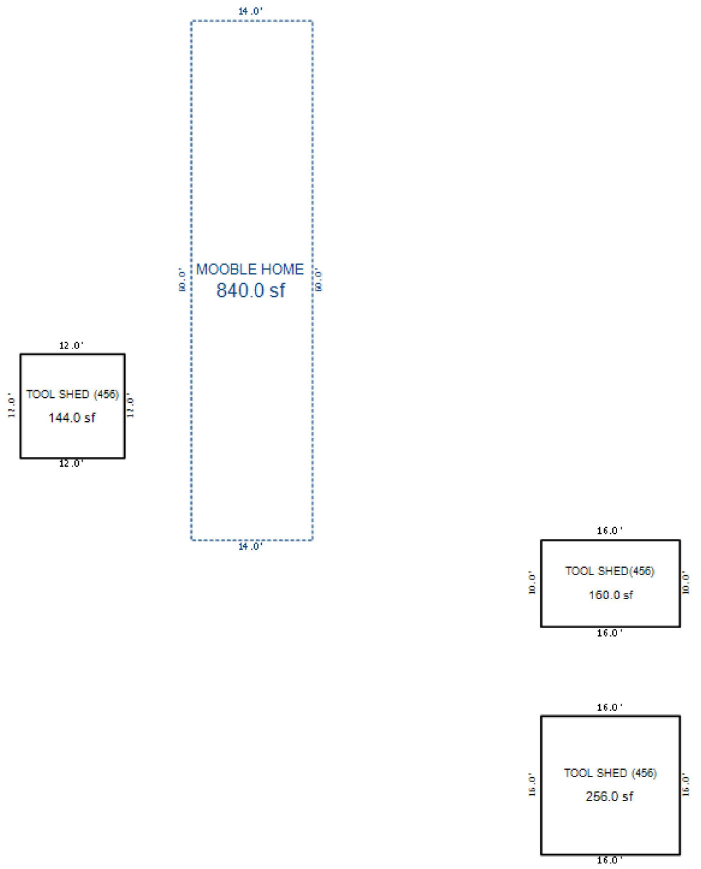
Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	2009
Architectural Style	0 - MISCELANEOUS	Condition	F - FAIR
Foundation	Y	Percent Complete	100
Description	TOOL SHED	Units	1
Calculated MS Occupancy	456 - Tool Shed		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
NCA - Courtyard Area	840.0	840.0		840.0
Total	840.00	840.00		840.00

Property Record Card

Doña Ana Assessor

Commercial/Ag Occurrence 1



Commercial/Ag Occurrence 2

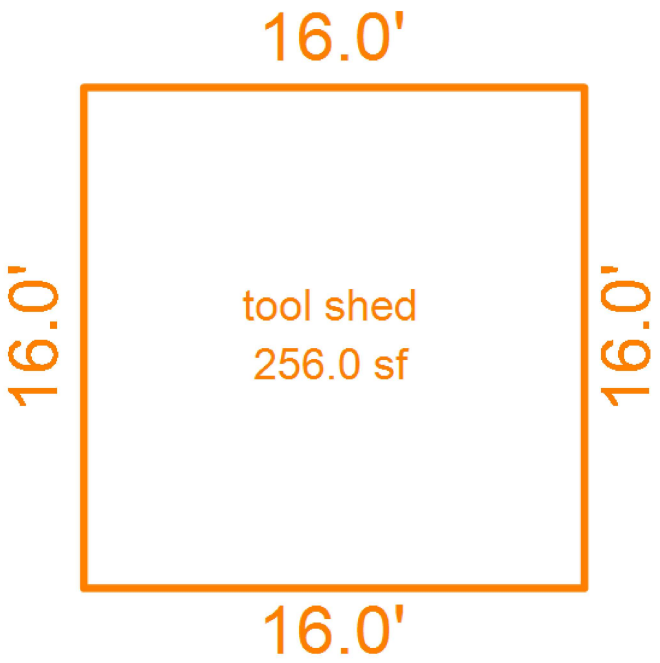
Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	2009
Architectural Style	0 - MISCELANEOUS	Condition	F - FAIR
Foundation	Y	Percent Complete	100
Description	TOOL SHED	Calculated MS Occupancy	456 - Tool Shed



Property Record Card

Doña Ana Assessor

Commercial/Ag Occurrence 3



Assessment History

Type	Actual	Assessed
Residential Land	$15,500	$5,167
Residential Improvement	$3,576	$1,192
Actual (2024)	$19,076	
Primary Taxable		$6,359

Property Record Card

Doña Ana Assessor

DOMINGUEZ DELIA
DOMINGUEZ DAVID JR
SORIANO LORRAINE D
SORIANO EDUARDO

Account: R1704106
Tax Area: 16OUT_R - 16OUT_R
Acres: 5.000

Parcel: 4-015-147-119-006
Situs Address:
11171 LAS ALTURAS DR

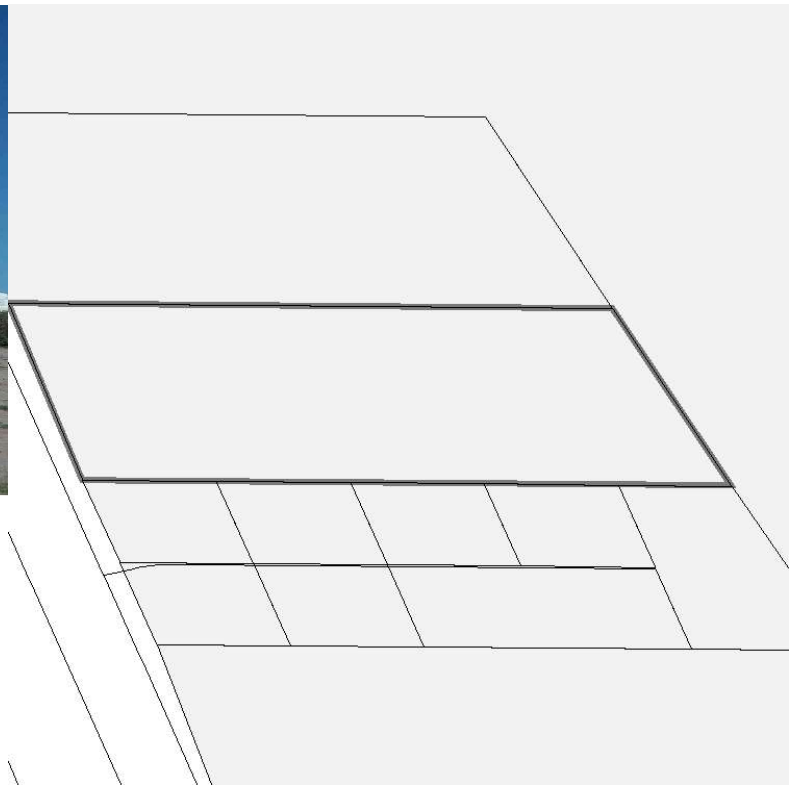
2610 TUSCAN HILLS LANE
LAS CRUCES, NM 88011

Neighborhood 155 - MESA-LD-ANTH

Legal Description

S: 16 T: 25S R: 3E E OF INTERSTATE HWY 10 INSTRUMENT #2109749





Land Occurrence 1

Property Code	0100 - RESIDENTIAL LAND	Electricity	E - ELECTRIC
Gas	P - PROPANE	Measure	PA - PER-ACRE
Sewer Type	ST - SEPTIC-TANK	Street Code	D - DIRT
Topography Code	L - LEVEL	Acres	5
SQFT	217800	Zoning	MU - MIXED USE

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Sq Ft				
Total				

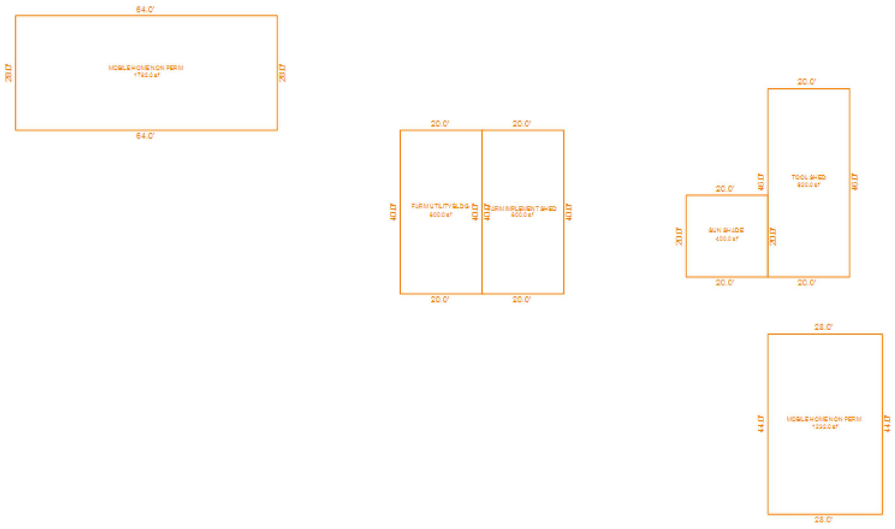
Commercial/Ag Occurrence 1

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	1998
Architectural Style	0 - MISCELANEOUS	Condition	F - FAIR
Foundation	N	Percent Complete	100
Description	FARM UTILITY BLDG	Calculated MS Occupancy	477 - Farm Utility Building

Property Record Card

Doña Ana Assessor

Commercial/Ag Occurrence 1



Commercial/Ag Occurrence 2

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	1998
Architectural Style	0 - MISCELANEOUS	Condition	F - FAIR
Foundation	N	Percent Complete	100
Description	FRAM IMPLEMENT SHED	Calculated MS Occupancy	478 - Farm Implement Shed

Commercial/Ag Occurrence 3

Property Code	0120 - RESIDENTIAL IMPROVEMENT	Calculated MS Occupancy	456 - Tool Shed

Property Record Card

Doña Ana Assessor

Commercial/Ag Occurrence 4

Occupancy

Assessment History

Type	Actual	Assessed
Residential Land	$77,500	$25,833
Residential Improvement	$8,612	$2,871
Actual (2024)	$86,112	
Primary Taxable		$28,704

Property Record Card

Doña Ana Assessor

HERRMANN DAVID
5845 ONIX DR STE 300
EL PASO, TX 79912

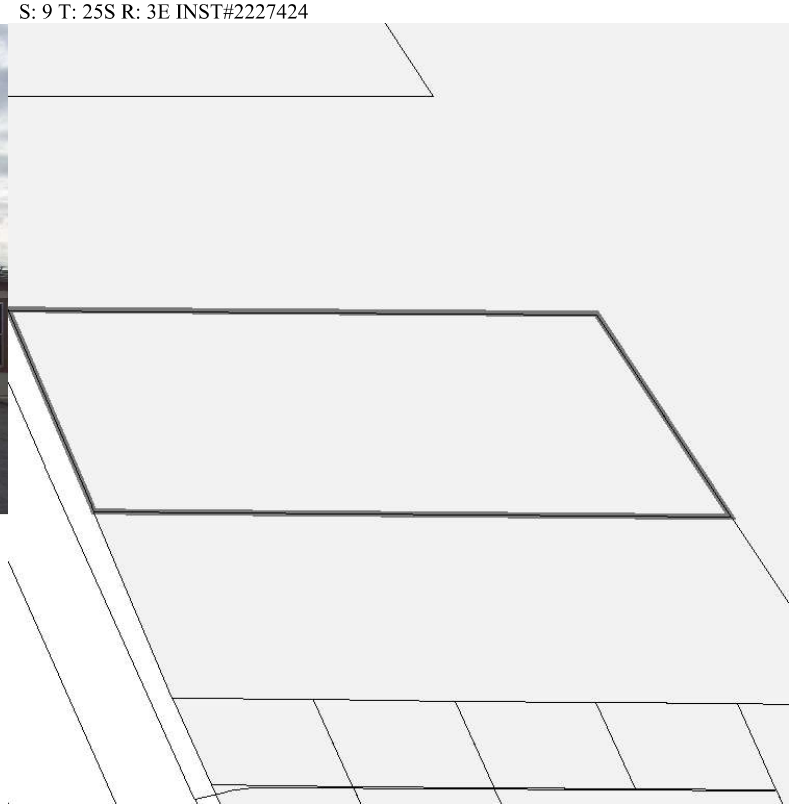
Account: R1704075
Tax Area: 16OUT_NR - 16OUT_NR
Acres: 4.980

Parcel: 4-015-146-105-508
Situs Address:
11091 LAS ALTURAS DR

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 9 T: 25S R: 3E INST#2227424

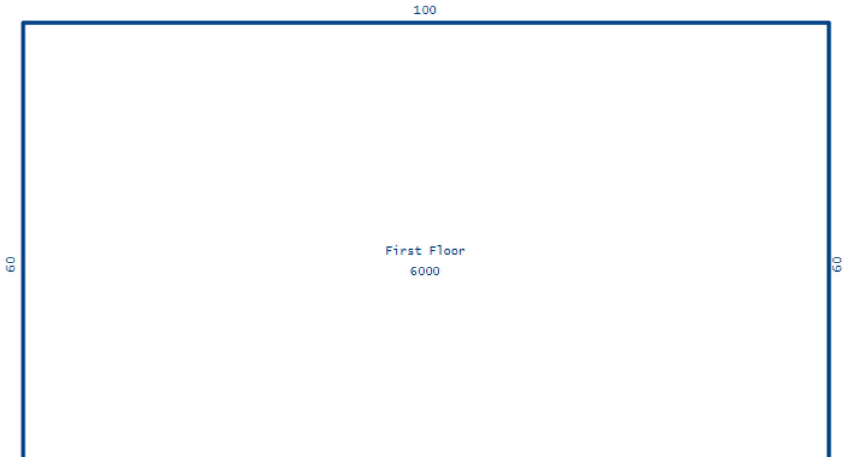




Commercial/Ag Occurrence 1

Property Code	0220 - NON-RESIDENTIAL IMPROVEMENT	Actual Year Built	2001
Architectural Style	3 - INDUSTRIAL	Building Type	S - METAL FRAME
Condition	A - AVERAGE	Construction Quality	A
Foundation	Y	Perimeter	320
Stories	1	Exterior Wall	ML
Percent	100	Calculated MS Occupancy	406 - Storage Warehouse

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
GBA1 - First Floor	8000.0	8000.0	8000.0	8000.0
Total	8,000.00	8,000.00	8,000.00	8,000.00



Property Record Card

Doña Ana Assessor

Land Occurrence 1

Sewer Type	ST - SEPTIC-TANK	Street Code	A - ASPHALT
Topography Code	L - LEVEL	Acres	4.98
Zoning	MU - MIXED USE		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Total				

Assessment History

Type	Actual	Assessed
Non-Residential Land	$77,190	$25,730
Non-Residential Improvement	$343,383	$114,461
Actual (2023)	$420,573	
Primary Taxable		$140,191

Property Record Card

Doña Ana Assessor

DOMINGUEZ EDDIE L & MARIA J

PO BOX 505
MESQUITE, NM 88048

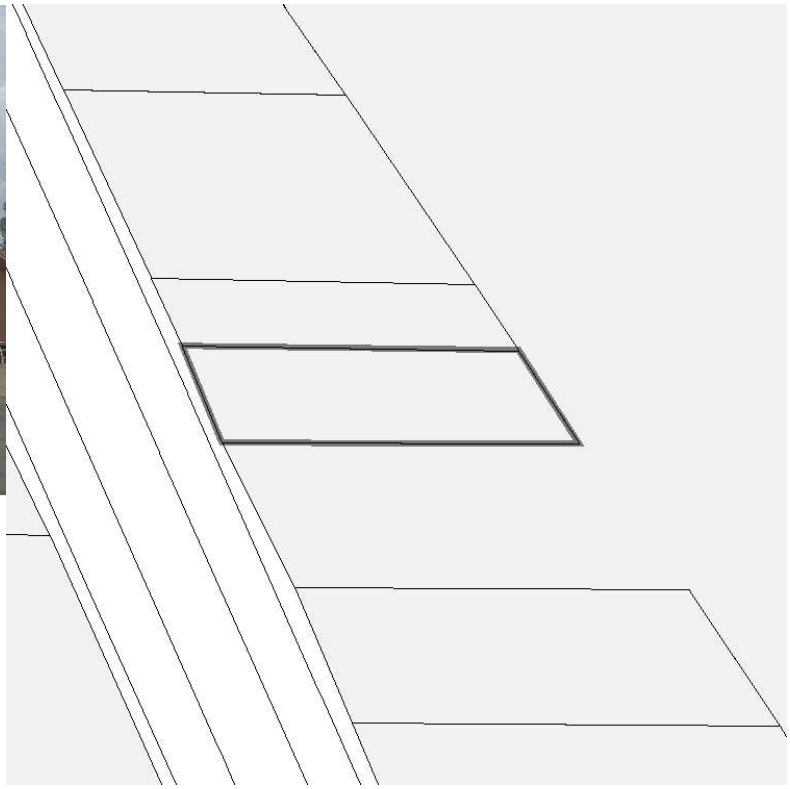
Account: R1716753
Tax Area: 16OUT_R - 16OUT_R
Acres: 3.000

Parcel: 4-015-146-075-453
Situs Address:
10591 LAS ALTURAS DR #1
Mesquite, 88048

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 9 T: 25S R: 3E





Land Occurrence 1

Property Code	0100 - RESIDENTIAL LAND	Electricity	OE - OVER-ELECTRC
Measure	PA - PER-ACRE	Sewer Type	ST - SEPTIC-TANK
Street Code	A - ASPHALT	Topography Code	L - LEVEL
Acres	3	SQFT	130680
Zoning	MU - MIXED USE		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Sq Ft				
Total				

Residential Occurrence 1

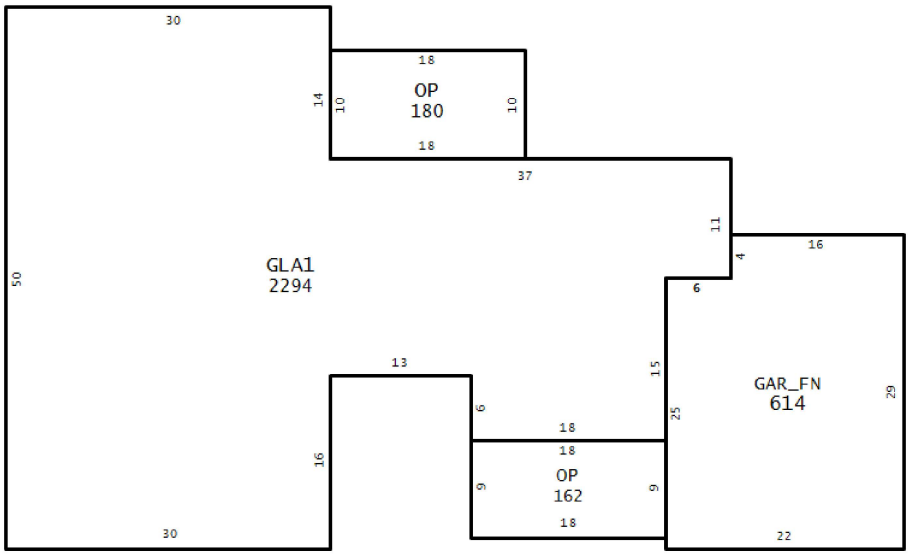
Property Code	0120 - RESIDENTIAL IMPROVEMENT	Actual Year Built	2001
Air Conditioning	E - EVAP-COOLER	Architectural Style	RN - RANCH
Baths	2	Bedrooms	4
Building Type	PS - PRNCPL-SNGLE	Condition	AVERAGE
Construction Quality	A - AVERAGE	Heating Fuel	P - PROPANE
Heating Type	FC - FORCED-CIRCU	Roof Cover	SH - SHINGLE
Roof Structure	G - GABLE	Stories	1.0
Exterior Wall	SF - STUCCO-FRAME	Percent	100
Interior Wall	SR - SHEETROCK		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
GLA1 - First Floor	2294.0	2294.0	2294.0	2294.0

Property Record Card

Doña Ana Assessor

Residential Occurrence 1



Assessment History

Type	Actual	Assessed
Residential Land	$44,945	$14,982
Residential Improvement	$182,690	$60,897
Actual (2024)	$227,635	
Primary Taxable		$75,879

Property Record Card

Doña Ana Assessor

GANDARA JOSE A & ANA VELIA

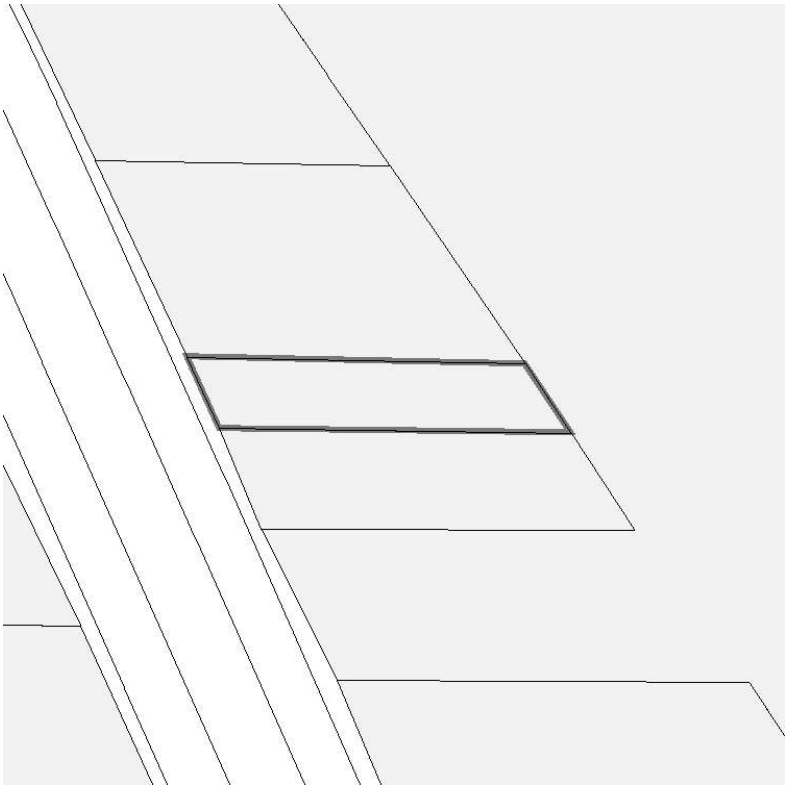
955 LOMA VERDE
EL PASO, TX 79936

Account: R1716754
Tax Area: 16OUT_R - 16OUT_R
Acres: 2.000

Parcel: 4-015-146-070-435
Situs Address:

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 9 T: 25S R: 3E



Land Occurrence 1

Property Code	0100 - RESIDENTIAL LAND	Electricity	OE - OVER-ELECTRC
Measure	PA - PER-ACRE	Sewer Type	ST - SEPTIC-TANK
Street Code	A - ASPHALT	Topography Code	L - LEVEL
Acres	2	SQFT	87120
Zoning	MU - MIXED USE		

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Sq Ft				
Total				

Assessment History

Type	Actual	Assessed
Residential Land	$31,000	$10,333
Actual (2024)	$31,000	
Primary Taxable		$10,333

Property Record Card

Doña Ana Assessor

ENRIQUEZ MIGUEL
LARA MARIA
SALAS FELIPE
SALAS ALEJANDRA
DOMINGUEZ ANTONIO
DOMINGUEZ BLANCA

Account: R1712339
Tax Area: 16OUT_NR - 16OUT_NR
Acres: 5.000

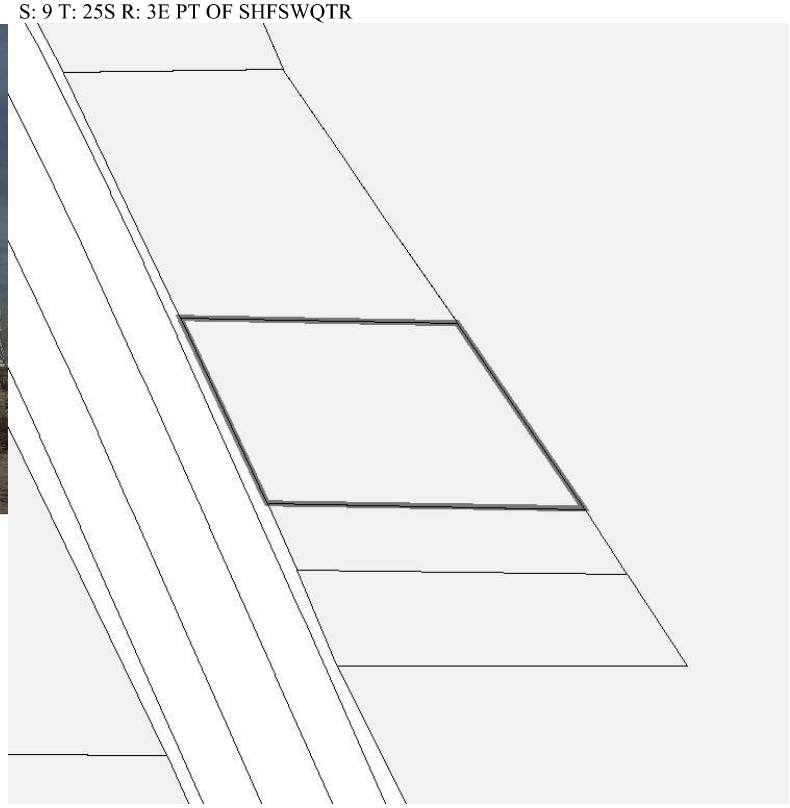
Parcel: 4-015-146-054-414
Situs Address:
10581 LAS ALTURAS DR

PO BOX 325
MESQUITE, NM 88048

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 9 T: 25S R: 3E PT OF SHFSWQTR





Land Occurrence 1

Property Code	0200 - NON-RESIDENTIAL LAND	Electricity	OE - OVER-ELECTRC
Measure	PA - PER-ACRE	Street Code	A - ASPHALT
Topography Code	R - ROLLING	Acres	5
SQFT	217800	Zoning	MU - MIXED USE

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Sq Ft				
Total				

Assessment History

Type	Actual	Assessed
Non-Residential Land	$77,500	$25,833
Actual (2024)	$77,500	
Primary Taxable		$25,833

Property Record Card

Doña Ana Assessor

ENRIQUEZ MIGUEL
LARA MARIA
SALAS FELIPE
SALAS ALEJANDRA
DOMINGUEZ ANTONIO
DOMINGUEZ BLANCA

Account: R1704072
Tax Area: 16OUT_R - 16OUT_R
Acres: 5.740

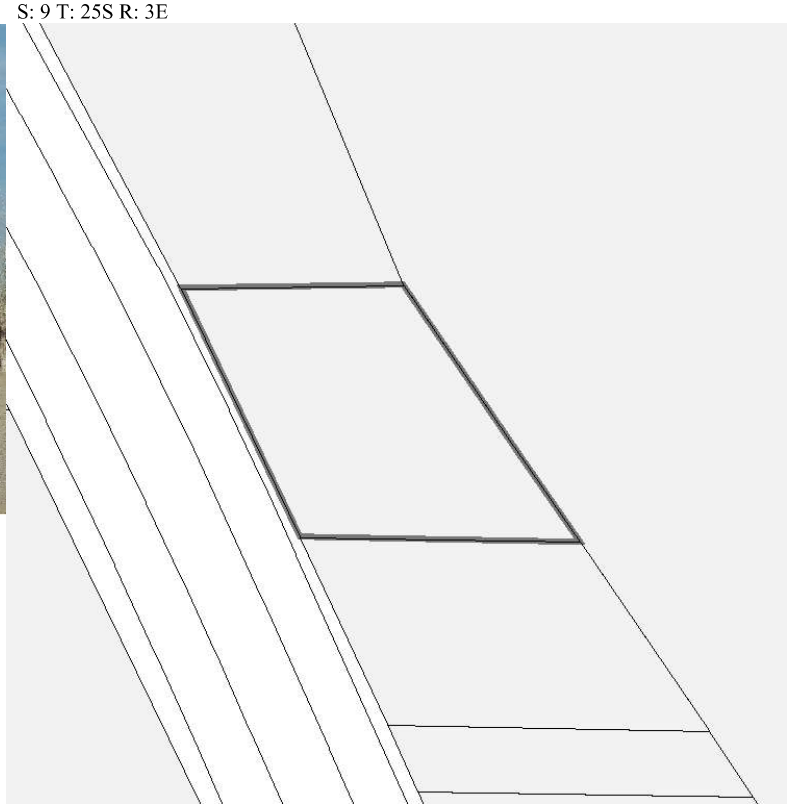
Parcel: 4-015-146-048-402
Situs Address:

PO BOX 325
MESQUITE, NM 88048

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 9 T: 25S R: 3E





Land Occurrence 1

Property Code	0100 - RESIDENTIAL LAND	Electricity	E - ELECTRIC
Gas	P - PROPANE	Measure	PA - PER-ACRE
Sewer Type	ST - SEPTIC-TANK	Topography Code	R - ROLLING
Acres	5.74	Zoning	MU - MIXED USE

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Total				

Assessment History

Type	Actual	Assessed
Residential Land	$88,970	$29,657
Actual (2024)	$88,970	
Primary Taxable		$29,657

Property Record Card

Doña Ana Assessor

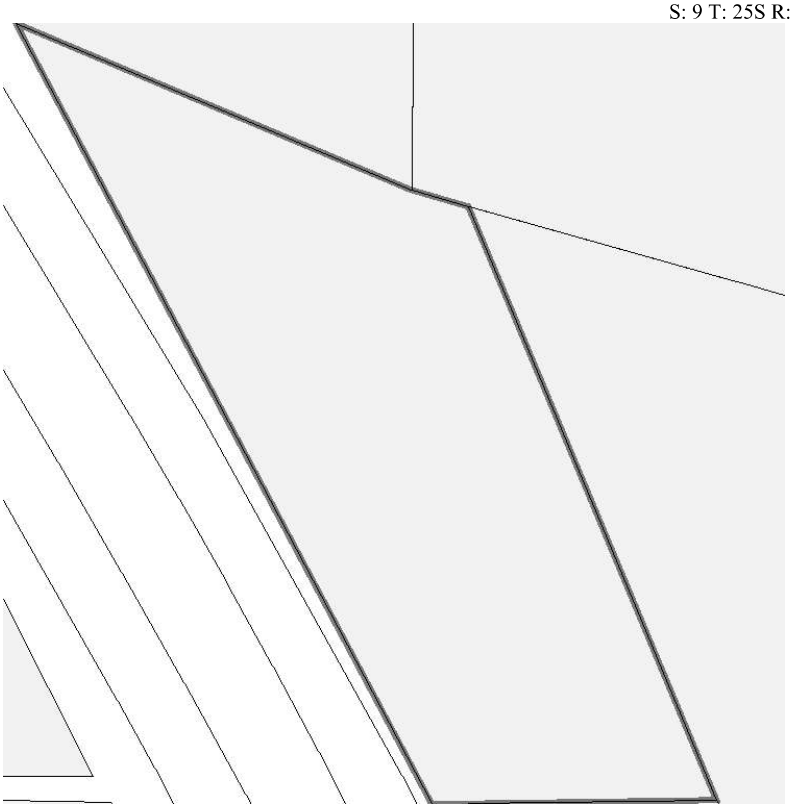
DOMINGUEZ FARMS INC
PO BOX 21
MESQUITE, NM 88048-0021

Account: R1704071
Tax Area: 16OUT_NR - 16OUT_NR
Acres: 11.000

Parcel: 4-015-146-014-290
Situs Address:

Neighborhood 155 - MESA-LD-ANTH

Legal Description
S: 9 T: 25S R: 3E BRM 19 TR 4



Land Occurrence 1

Property Code	0200 - NON-RESIDENTIAL LAND	Measure	PA - PER-ACRE
Street Code	A - ASPHALT	Topography Code	R - ROLLING
Acres	11	Zoning	I2 - MEDIUM INDUSTRIAL

SubArea	ACTUAL	EFFECTIVE	HEATED	FOOTPRINT
Acres				
Total				

Assessment History

Type	Actual	Assessed
Non-Residential Land	$55,000	$18,333
Actual (2024)	$55,000	
Primary Taxable		$18,333

December 18, 2024

United States of America
Bureau of Land Management Las Cruces District Office
1800 Marquess
Las Cruces, New Mexico 88005-3371

CERTIFIED MAIL 9589 0710 5270 1280 4773 12
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

To Whom is May Concern,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to property owners within 100 feet from GCC's site property boundary as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,



By: Shawn Haven
Senior Project Manager

Enclosure:
Notice to Municipalities, County, and Property Owners

Notice to Municipalities, County, and Property Owners

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number)
RETURN RECEIPT REQUESTED

To Whom it May Concern:

GCC Sun City Materials, LLC (GCC) announces its application submittal to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

The exact location for the proposed facility known as, GCC Vado Site, is at 10795 Las Alturas Drive, Mesquite, New Mexico 88048. The approximate location of this facility is 0.1 miles northeast of the intersection of Interstate Highway I-10 and Vado Drive in Dona Ana County.

The proposed site modifications consist of replacement of equipment and relocation of the crushing operations. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week.

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

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	46 pph	93 tpy
PM_{10}	21 pph	32 tpy
$PM_{2.5}$	4 pph	5 tpy
Sulfur Dioxide (SO_2)	2 pph	2 tpy
Nitrogen Oxides (NO_x)	11 pph	11 tpy
Carbon Monoxide (CO)	54 pph	48 tpy
Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO_2e	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include:
GCC Sun City Materials, LLC
#1 McKelligon Canyon Road
El Paso, TX 79930

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

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return 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.

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Sincerely,
GCC Sun City Materials, LLC
10795 Las Alturas Drive
Mesquite, New Mexico 88048

Notice of Non-Discrimination
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December 18, 2024

Daniel S. Guillen
4007 Mission Bell
Las Cruces, New Mexico 88011-9612

CERTIFIED MAIL 9589 0710 5270 1280 4773 29
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Guillen,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to property owners within 100 feet from GCC's site property boundary as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,



By: Shawn Haven
Senior Project Manager

Enclosure:
Notice to Municipalities, County, and Property Owners

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CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number)
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Green House Gas Emissions as Total CO_2e	n/a	28,021 tpy

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Owners and operators of the facility include:
GCC Sun City Materials, LLC
#1 McKelligon Canyon Road
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ENSAFE
creative thinking. custom solutions. ®

December 18, 2024

Isaac J. & Sarah K Wall
12038 Van Gogh Drive
El Paso, Texas 79936

CERTIFIED MAIL 9589 0710 5270 1280 4773 36
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Wall,

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Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,



By: Shawn Haven
Senior Project Manager

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December 18, 2024

Juan Carlos Vasquez
16 El Suspiro Court #1
Mesquite, New Mexico 88048-9112

CERTIFIED MAIL 9589 0710 5270 1280 4772 44
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

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Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven
Senior Project Manager

Enclosure:
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December 18, 2024

David Jr. & Delia Dominguez
Eduardo & Lorraine Soriano
2610 Tuscan Hills Lane
Las Cruces, New Mexico 88011

CERTIFIED MAIL 9589 0710 5270 1280 4772 51
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

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Sincerely,

By: Shawn Haven
Senior Project Manager

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December 18, 2024

David Herrmann
5845 Onix Drive Suite 300
El Paso, Texas 79912

CERTIFIED MAIL 9589 0710 5270 1280 4772 99
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creative thinking. custom solutions. ®

December 18, 2024

Eddie L & Maria J Dominguez
PO Box 505
Mesquite, New Mexico 88048

CERTIFIED MAIL 9589 0710 5270 1280 4773 05
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Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,



By: Shawn Haven
Senior Project Manager

Enclosure:
Notice to Municipalities, County, and Property Owners

Notice to Municipalities, County, and Property Owners

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number)
RETURN RECEIPT REQUESTED

To Whom it May Concern:

GCC Sun City Materials, LLC (GCC) announces its application submittal to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

The exact location for the proposed facility known as, GCC Vado Site, is at 10795 Las Alturas Drive, Mesquite, New Mexico 88048. The approximate location of this facility is 0.1 miles northeast of the intersection of Interstate Highway I-10 and Vado Drive in Dona Ana County.

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Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO_2e	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include:
GCC Sun City Materials, LLC
#1 McKelligon Canyon Road
El Paso, TX 79930

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

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December 18, 2024

Jose Gandara
Ana Velia
955 Loma Verde
El Paso, Texas 79936

CERTIFIED MAIL 9589 0710 5270 2383 2722 79
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

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Senior Project Manager

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December 18, 2024

Miguel Enriquez
Maria Lara
Felipe & Alejandra Salas
Antonio & Blanca Dominguez
PO Box 325
Mesquite, New Mexico 880048

CERTIFIED MAIL 9589 0710 5270 2383 2722 86
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

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Senior Project Manager

Enclosure:
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December 18, 2024

Dominguez Farms Incorporated
PO Box 21
Mesquite, New Mexico 88048-0021

CERTIFIED MAIL 9589 0710 5270 2383 2723 78
RETURN RECEIPT REQUESTED

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By: Shawn Haven
Senior Project Manager

Enclosure:
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December 18, 2024

Diana Murillo
Mayor – Anthony, NM
820 Highway 478
Anthony, New Mexico 88021

CERTIFIED MAIL 9589 0710 5270 2383 2723 85
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

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Senior Project Manager

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December 18, 2024

Eric Enriquez
Mayor – Las Cruces, NM
700 N. Main Street
Las Cruces, New Mexico 88001

CERTIFIED MAIL 9589 0710 5270 2383 2723 92
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Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return 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.

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Sincerely,
GCC Sun City Materials, LLC
10795 Las Alturas Drive
Mesquite, New Mexico 88048

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

December 18, 2024

Commissioner – District 1
Christopher Schaljo-Hernandez
845 North Motel Boulevard
Las Cruces, New Mexico 88007

CERTIFIED MAIL 9589 0710 5270 2383 2722 93
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Hernandez,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven
Senior Project Manager

Enclosure:
Notice to Municipalities, County, and Property Owners

Notice to Municipalities, County, and Property Owners

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number)
RETURN RECEIPT REQUESTED

To Whom it May Concern:

GCC Sun City Materials, LLC (GCC) announces its application submittal to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

The exact location for the proposed facility known as, GCC Vado Site, is at 10795 Las Alturas Drive, Mesquite, New Mexico 88048. The approximate location of this facility is 0.1 miles northeast of the intersection of Interstate Highway I-10 and Vado Drive in Dona Ana County.

The proposed site modifications consist of replacement of equipment and relocation of the crushing operations. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week.

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Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO_2e	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

Owners and operators of the facility include:
GCC Sun City Materials, LLC
#1 McKelligon Canyon Road
El Paso, TX 79930

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December 18, 2024

Commissioner – District 2
Diana Murillo
845 North Motel Boulevard
Las Cruces, New Mexico 88007

CERTIFIED MAIL 9589 0710 5270 2383 2723 09
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Ms. Murillo,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven
Senior Project Manager

Enclosure:
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Notice to Municipalities, County, and Property Owners

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number)
RETURN RECEIPT REQUESTED

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December 18, 2024

Commissioner – District 3
Shannon Reynolds
845 North Motel Boulevard
Las Cruces, New Mexico 88007

CERTIFIED MAIL 9589 0710 5270 2383 2723 16
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Reynolds,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven
Senior Project Manager

Enclosure:
Notice to Municipalities, County, and Property Owners

Notice to Municipalities, County, and Property Owners

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number)
RETURN RECEIPT REQUESTED

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December 18, 2024

Commissioner – District 4
Susana Chaparro
845 North Motel Boulevard
Las Cruces, New Mexico 88007

CERTIFIED MAIL 9589 0710 5270 2383 2723 23
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Ms. Chaparro,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

Should there be any questions, please contact Mr. Octavio Holguin Jr. at 915-564-1653 or the undersigned at 832-561-5336.

Sincerely,

By: Shawn Haven
Senior Project Manager

Enclosure:
Notice to Municipalities, County, and Property Owners

Notice to Municipalities, County, and Property Owners

CERTIFIED MAIL (Refer to Cover Letter for Certified Mail Number)
RETURN RECEIPT REQUESTED

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ENSAFE
creative thinking. custom solutions. ®

December 18, 2024

Commissioner – District 5
Manuel A. Sanchez
845 North Motel Boulevard
Las Cruces, New Mexico 88007

CERTIFIED MAIL 9589 0710 5270 2383 2723 30
RETURN RECEIPT REQUESTED

Re: Public Notice for New Construction Air Permit, Vado, New Mexico

Dear Mr. Sanchez,

EnSafe Inc., on behalf of GCC Sun City Materials, LLC (GCC), is submitting the required notice to Dona Ana County as required by New Mexico Administrative Code 20.2.72.203.B for a New Construction Air Permit for GCC's Vado rock crushing, hot mix asphalt, and recycled asphalt operations. The permit application will allow construction of new rock crushing operations, modification of hot mix asphalt operations, and the site to operate 24 hours a day and seven days a week. Please see the attached notification included with this letter.

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Sincerely,

By: Shawn Haven
Senior Project Manager

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General Posting of Notices – Certification

I, **Octavio Holguin, Jr.**, the undersigned, certify that on **December 17, 2024,** posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the City of **Vado, Dona Ana** County, State of New Mexico on the following dates:

1. GCC Vado Facility entrance - December 17, 2024
   10795 Las Alturas Dr.
   Mesquite, New Mexico 88048

2. Mesquite Post Office - December 17, 2024
   295 Highway 228
   Mesquite, New Mexico 88048

3. Valero Truck Stop - December 17, 2024
   16320 Stern Dr. #7298
   Vado, New Mexico 88072

4. Vado Elementary - December 17, 2024
   330 Holguin Road
   Vado, New Mexico 88072

Signed this 23 day of December, 2024.

Signature _____ Date 12/23/24

Printed Name Octavio Holguin, Jr.

Title Environmental Engineer

NOTICE

GCC Sun City Materials, LLC (GCC) announces its application to the New Mexico Environment Department for a new air quality permit for the construction of the new rock crushing operations and modification of the hot mix asphalt operations. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

The exact location for the proposed facility known as, GCC Vado Site, is at 10795 Las Alturas Drive, Mesquite, New Mexico 88048. The approximate location of this facility is 0.1 miles northeast of the intersection of Interstate Highway I-10 and Vado Drive in Dona Ana County.

The proposed site modifications consist of replacement of equipment and relocation of the crushing operations. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week.

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

Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	46 pph	93 tpy
PM_{10}	21 pph	32 tpy
$PM_{2.5}$	4 pph	5 tpy
Sulfur Dioxide (SO_2)	2 pph	2 tpy
Nitrogen Oxides (NO_x)	11 pph	11 tpy
Carbon Monoxide (CO)	54 pph	48 tpy
Volatile Organic Compounds (VOC)	114 pph	19 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	3 pph	2 tpy
Green House Gas Emissions as Total CO_2e	n/a	28,021 tpy

The standard and maximum operating schedules of the facility will be 24 hours per day, 7 days a week and a maximum of 52 weeks per year.

The owner and/or operator of the Facility is:
GCC Sun City Materials, LLC
#1 McKelligon Canyon Road
El Paso, TX 79930

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air

Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Other comments and questions may be submitted verbally.

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

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

Notice of Non-Discrimination
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GCC Sun City Materials, LLC
Vado Site

Table 1: Noticed Citizens

Parcel Number	Account Number	Direction	Owner	Owner Mailing Address	Certified Mail Receipt No.
4-014-146-490-121	R1702853	NW	United States of America	1800 MARQUESS LAS CRUCES, NM 88005-3371	9589 0710 5270 1280 4773 12
4-015-146-270-154	R1704077	N			
4-016-146-264-263	R1705125	NE			
4-016-147-320-230	R1705126	E			
4-015-147-368-262	R1704111	S	GUILLEN, DANIEL S	4007 MISSION BELL LAS CRUCES, NM 88011-9612	9589 0710 5270 1280 4773 29
4-015-147-202-152	R1704109	SW			
4-015-147-143-038	R1704107	W	WALL, ISAAC J WALL, SARAH K	12038 VANGOGH DR EL PASO, TX 79936	9589 0710 5270 1280 4773 36
4-015-147-170-028	R1712511	W	VASQUEZ, JUAN CARLOS	16 EL SUSPIRO CT #1 MESQUITE, NM 88048-9112	9589 0710 5270 1280 4772 44
4-015-147-119-006	R1704106	W	DOMINGUEZ, DELIA DOMINGUEZ, DAVID JR SORIANO, LORRAINE D SORIANO, EDUARDO	2610 TUSCAN HILLS LANE LAS CRUCES, NM 88011	9589 0710 5270 1280 4772 51
4-015-146-105-508	R1704075	W	HERRMANN, DAVID	5845 ONIX DR STE 300 EL PASO, TX 79912	9589 0710 5270 1280 4772 99
4-015-146-075-453	R1716753	W	DOMINGUEZ, EDDIE L & MARIA J	PO BOX 505 MESQUITE, NM 88048	9589 0710 5270 1280 4773 05
4-015-146-070-435	R1716754	W	GANDARA, JOSE A & ANA VELIA	955 LOMA VERDE EL PASO, TX 79936	9589 0710 5270 2383 2722 79
4-015-146-054-414	R1712339	W	ENRIQUEZ, MIGUEL LARA, MARIA SALAS, FELIPE SALAS, ALEJANDRA DOMINGUEZ, ANTONIO DOMINGUEZ, BLANCA	PO BOX 325 MESQUITE, NM 88048	9589 0710 5270 2383 2722 86
4-015-146-048-402	R1704072	W			
4-015-146-014-290	R1704071	W	DOMINGUEZ FARMS INC	PO BOX 21 MESQUITE, NM 88048-0021	9589 0710 5270 2383 2723 78

Table 2: Noticed County and Municipalities

Municipality/County	Title	Name	Mailing Address	Certified Mailing Receipt No.
Anthony	Mayor	Diana Murillo	820 Highway 478 Anthony, NM 88021	9589 0710 5270 2383 2723 85
Las Cruces	Mayor	Eric Enriquez	700 N. Main Street Las Cruces, NM 88001	9589 0710 5270 2383 2723 92
Dona Ana District 1	County Commissioner	Christopher Schaljo-Hernandez	845 N. Motel Blvd Las Cruces, NM 88007	9589 0710 5270 2383 2722 93
Dona Ana District 2	County Commissioner	Diana Murillo	845 N. Motel Blvd Las Cruces, NM 88007	9589 0710 5270 2383 2723 09
Dona Ana District 3	County Commissioner	Shannon Reynolds	845 N. Motel Blvd Las Cruces, NM 88007	9589 0710 5270 2383 2723 16
Dona Ana District 4	County Commissioner	Susana Chaparro	845 N. Motel Blvd Las Cruces, NM 88007	9589 0710 5270 2383 2723 23
Dona Ana District 5	County Commissioner	Manuel A. Sanchez	845 N. Motel Blvd Las Cruces, NM 88007	9589 0710 5270 2383 2723 30

Submittal of Public Service Announcement – Certification

I, **Octavio Holguin, Jr.**, the undersigned, certify that on **December 17, 2024**, submitted a public service announcement to **Adams Radio Group of Las Cruces** that serves the City of **Vado, Dona Ana County**, New Mexico, in which the source is or is proposed to be located and that **Adams Radio Group of Las Cruces RESPONDED THAT IT WOULD AIR THE ANNOUNCEMENT.**

Signed this 23 day of December, 2024.

Signature

12/23/24
Date

Octavio Holguin, Jr.
Printed Name

Environmental Engineer
Title

PSA
NOTICE OF AIR QUALITY PERMIT APPLICATION

GCC Sun City Materials, LLC (GCC), the principal owner and operator of the existing GCC Vado Site located at 10795 Las Alturas Drive, Mesquite, New Mexico 88048, is applying for a new air quality permit for the construction of new rock crushing operations and modification of the hot mix asphalt operations. The proposed site modifications consist of replacement of rock crushing equipment and relocation of the crushing operations within the existing site. The modifications will allow night-time operations of crushing and asphalt facility operations. The site will operate 24 hours a day and 7 days a week. The expected date of application submittal to the Air Quality Bureau is December 31, 2024.

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:

New Mexico Environment Department
Air Quality Bureau – Permitting Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816
(505) 476-4300

Copies of the public notice can be found at the following locations:

GCC Vado Facility
10795 Las Alturas Dr.
Mesquite, New Mexico 88048

Mesquite Post Office
295 Highway 228
Mesquite, New Mexico 88048

Valero Truck Stop
16320 Stern Dr. #7298
Vado, New Mexico 88072

Vado Elementary
330 Holguin Road
Vado, New Mexico 88072

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Signature

12/23/24
Date

Octavio Holguin, Jr.
Printed Name

Environmental Engineer
Title

LocaliQ
Texas/New Mexico
GANNETT

PO Box 631667 Cincinnati, OH 45263-1667

AFFIDAVIT OF PUBLICATION

Octavio Holguin
GCC Sun City Materials LLC
1 Mckelligon Canyon RD
El Paso TX 79930-2634

STATE OF WISCONSIN, COUNTY OF BROWN

The Las Cruces Sun News, a newspaper published in the city of Las Cruces, Dona Ana County, State of New Mexico, and personal knowledge of the facts herein state and that the notice hereto annexed was Published in said newspapers in the issue:

12/20/2024

and that the fees charged are legal.
Sworn to and subscribed before on 12/20/2024

Legal Clerk

Notary, State of WI, County of Brown

5·15·27

My commission expires

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NANCY HEYRMAN
Notary Public
State of Wisconsin

NOTICE OF AIR QUALITY PERMIT APPLICATION

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El Paso, TX 79930

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Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return 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 information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

Atención
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Notice of Non-Discrimination
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TX-40880178

LocaliQ
Texas/New Mexico
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PO Box 631667 Cincinnati, OH 45263-1667

AFFIDAVIT OF PUBLICATION

Octavio Holguin
GCC Sun City Materials LLC
1 Mckelligon Canyon RD
El Paso TX 79930-2634

STATE OF WISCONSIN, COUNTY OF BROWN

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and that the fees charged are legal.
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Legal Clerk

Notary, State of WI, County of Brown

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NANCY HEYRMAN
Notary Public
State of Wisconsin

NOTICE OF AIR QUALITY PERMIT APPLICATION

GCC Sun City Materials, LLC (GCC) anuncia la presentación de su solicitud al Departamento de Medio Ambiente de Nuevo México para un nuevo permiso de calidad del aire para la construcción de las nuevas operaciones de trituración de rocas y la modificación de las operaciones de mezcla asfáltica en caliente. La fecha prevista de presentación de la solicitud a la Oficina de Calidad del Aire es el 31 de diciembre de 2024.

La ubicación exacta de la instalación propuesta conocida como GCC Vado Site es 10795 Las Alturas Drive, Mesquite, Nuevo México 88048. La ubicación aproximada de esta instalación es 0.1 millas al noreste de la intersección de la autopista interestatal I-10 y Vado Drive en Condado de Doña Ana.

Las modificaciones propuestas al sitio consisten en el reemplazo de equipos y la reubicación de las operaciones de trituración. Las modificaciones permitirán operaciones nocturnas de trituración y operaciones de instalaciones de asfalto. El sitio funcionará las 24 horas del día y los 7 días de la semana.

Las cantidades máximas estimadas de cualquier contaminante del aire regulado serán las siguientes en libras por hora (pph) y toneladas por año (tpy) y podrían cambiar ligeramente durante el curso de la revisión del Departamento:

Pollutant:	Libras por hora	Toneladas por año
Materia Particulada (PM)	46 lph	93 tpa
PM_{10}	21 lph	32 tpa
$PM_{2.5}$	4 lph	5 tpa
Dióxido de azufre (SO_2)	2 lph	2 tpa
Óxidos de nitrógeno (NO_x)	11 lph	11 tpa
monóxido de carbono (CO)	54 lph	48 tpa
Compuestos orgánicos volátiles (VOC)	114 lph	19 tpa
Suma total de todos los contaminantes atmosféricos peligrosos (CAP)	3 lph	2 tpa
Emisiones de gases de efecto invernadero como CO2e total	n/a	28,021 tpa

Los horarios de funcionamiento estándar y máximo de la instalación serán de 24 horas al día, 7 días a la semana y un máximo de 52 semanas al año.

El propietario y/u operador de la Instalación es:
GCC Sun City Materials, LLC
#1 McKelligon Canyon Road
El Paso, TX 79930

Si tiene algún comentario sobre la construcción u operación de esta instalación y desea que sus comentarios se hagan como parte del proceso de revisión del permiso, debe enviar sus comentarios por escrito a esta dirección: Gerente de Programas de Permisos; Departamento de Medio Ambiente de Nuevo México; Oficina de Calidad del Aire; 525 Camino de los Márquez, Suite 1; Santa Fe, Nuevo México; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Otros comentarios y preguntas pueden enviarse verbalmente.

Consulte el nombre de la empresa y el nombre del sitio, o envíe una copia de este aviso junto con sus comentarios, ya que es posible que el Departamento aún no haya recibido la solicitud de permiso. Incluya una dirección postal de devolución legible con sus comentarios. Una vez que el Departamento haya realizado una revisión preliminar de la solicitud y sus impactos en la calidad del aire, el aviso del Departamento se publicará en la sección legal de un periódico que circule cerca de la ubicación de la instalación.

Puede encontrar información general sobre la calidad del aire y el proceso de obtención de permisos en el sitio web de la Oficina de Calidad del Aire. La regulación que trata sobre la participación pública en el proceso de revisión de permisos es 20.2.72.206 NMAC. Este reglamento se puede encontrar en la sección "Permisos" de este sitio web.

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TX-40880187

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Texas/New Mexico
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PO Box 631667 Cincinnati, OH 45263-1667

AFFIDAVIT OF PUBLICATION

Octavio Holguin
GCC Sun City Materials LLC
1 Mckelligon Canyon RD
El Paso TX 79930-2634

STATE OF WISCONSIN, COUNTY OF BROWN

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State of Wisconsin

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TX-40879890

LocaliQ
Texas/New Mexico
GANNETT

PO Box 631667 Cincinnati, OH 45263-1667

AFFIDAVIT OF PUBLICATION

Octavio Holguin
GCC Sun City Materials LLC
1 Mckelligon Canyon RD
El Paso TX 79930-2634

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State of Wisconsin

NOTICE OF AIR QUALITY PERMIT APPLICATION

GCC Sun City Materials, LLC (GCC) anuncia la presentación de su solicitud al Departamento de Medio Ambiente de Nuevo México para un nuevo permiso de calidad del aire para la construcción de las nuevas operaciones de trituración de rocas y la modificación de las operaciones de mezcla asfáltica en caliente. La fecha prevista de presentación de la solicitud a la Oficina de Calidad del Aire es el 31 de diciembre de 2024.

La ubicación exacta de la instalación propuesta conocida como GCC Vado Site es 10795 Las Alturas Drive, Mesquite, Nuevo México 88048. La ubicación aproximada de esta instalación es 0.1 millas al noreste de la intersección de la autopista interestatal I-10 y Vado Drive en Condado de Doña Ana.

Las modificaciones propuestas al sitio consisten en el reemplazo de equipos y la reubicación de las operaciones de trituración. Las modificaciones permitirán operaciones nocturnas de trituración y operaciones de instalaciones de asfalto. El sitio funcionará las 24 horas del día y los 7 días de la semana.

Las cantidades máximas estimadas de cualquier contaminante del aire regulado serán las siguientes en libras por hora (pph) y toneladas por año (tpy) y podrían cambiar ligeramente durante el curso de la revisión del Departamento:

Pollutant:	Libras por hora	Toneladas por año
Materia Particulada (PM)	46 lph	93 tpa
PM_{10}	21 lph	32 tpa
$PM_{2.5}$	4 lph	5 tpa
Dlóxido de azufre (SO_2)	2 lph	2 tpa
Óxidos de nitrógeno (NO_x)	11 lph	11 tpa
monóxido de carbono (CO)	54 lph	48 tpa
Compuestos orgánicos volátiles (VOC)	114 lph	19 tpa
Suma total de todos los contaminantes atmosféricos peligrosos (CAP)	3 lph	2 tpa
Emisiones de gases de efecto invernadero como CO2e total	n/a	28,021 tpa

Los horarios de funcionamiento estándar y máximo de la instalación serán de 24 horas al día, 7 días a la semana y un máximo de 52 semanas al año.

El propietario y/u operador de la Instalación es:
GCC Sun City Materials, LLC
#1 McKelligon Canyon Road
El Paso, TX 79930

Si tiene algún comentario sobre la construcción u operación de esta instalación y desea que sus comentarios se hagan como parte del proceso de revisión del permiso, debe enviar sus comentarios por escrito a esta dirección: Gerente de Programas de Permisos; Departamento de Medio Ambiente de Nuevo México; Oficina de Calidad del Aire; 525 Camino de los Márquez, Suite 1; Santa Fe, Nuevo México; 87505-1816; (505) 476-4300; 1 800 224-7009; https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html. Otros comentarios y preguntas pueden enviarse verbalmente.

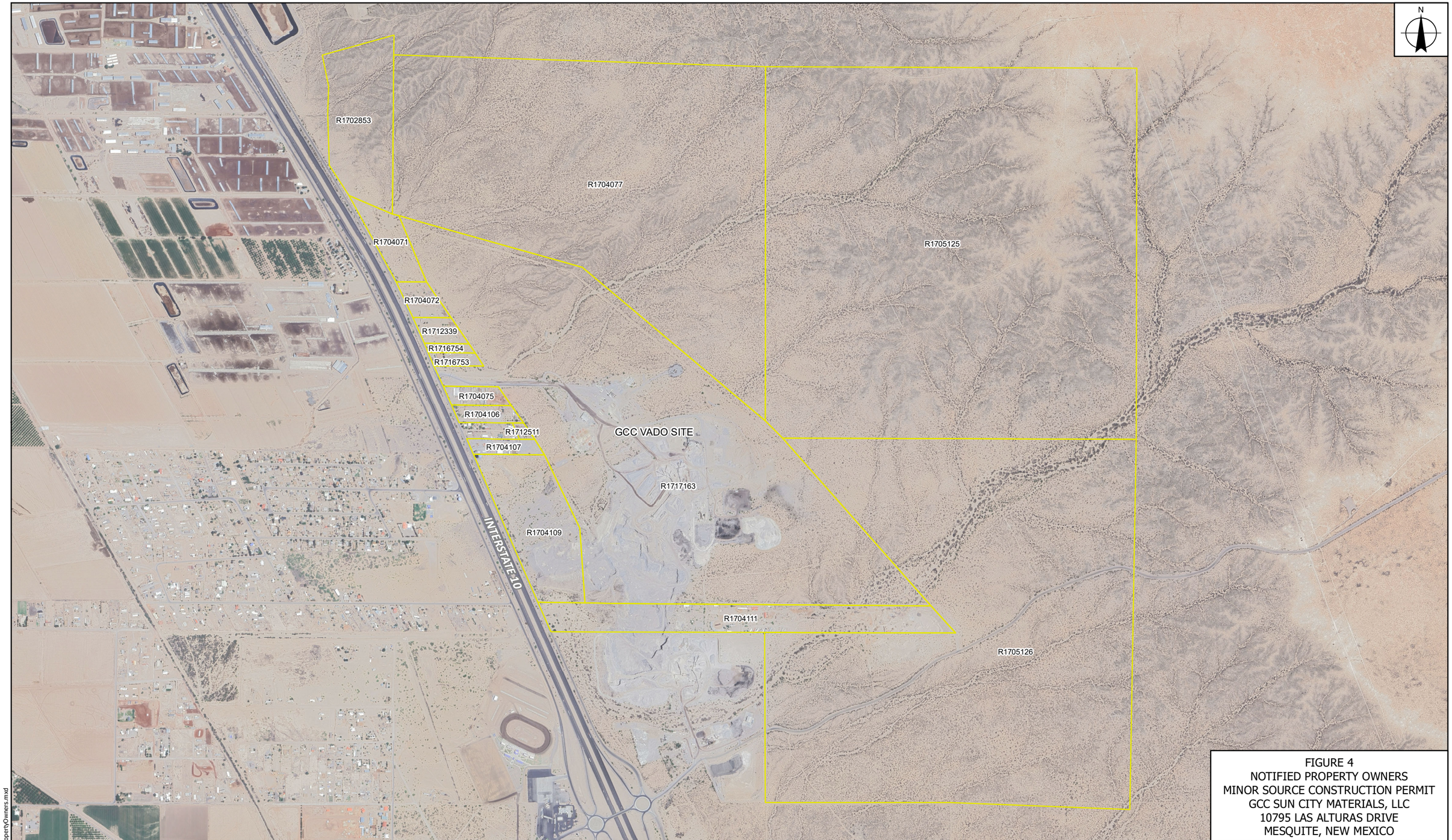
Consulte el nombre de la empresa y el nombre del sitio, o envíe una copia de este aviso junto con sus comentarios, ya que es posible que el Departamento aún no haya recibido la solicitud de permiso. Incluya una dirección postal de devolución legible con sus comentarios. Una vez que el Departamento haya realizado una revisión preliminar de la solicitud y sus impactos en la calidad del aire, el aviso del Departamento se publicará en la sección legal de un periódico que circule cerca de la ubicación de la instalación.

Puede encontrar información general sobre la calidad del aire y el proceso de obtención de permisos en el sitio web de la Oficina de Calidad del Aire. La regulación que trata sobre la participación pública en el proceso de revisión de permisos es 20.2.72.206 NMAC. Este reglamento se puede encontrar en la sección "Permisos" de este sitio web.

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

Aviso de no discriminación
NMED no discrimina por motivos de raza, color, origen nacional, discapacidad, edad o sexo en la administración de sus programas o actividades, según lo exigen las leyes y regulaciones aplicables. NMED es responsable de coordinar los esfuerzos de cumplimiento y recibir consultas relacionadas con los requisitos de no discriminación implementados por 40 C.F.R. Parte 7, incluido el Título VI de la Ley de Derechos Civiles de 1964, según enmendada; Sección 504 de la Ley de Rehabilitación de 1973; la Ley de Discriminación por Edad de 1975, el Título IX de las Enmiendas a la Educación de 1972 y la Sección 13 de las Enmiendas a la Ley Federal de Control de la Contaminación del Agua de 1972. Si tiene alguna pregunta sobre este aviso o cualquiera de los programas, políticas o procedimientos de no discriminación de NMED , o si cree que ha sido discriminado con respecto a un programa o actividad de NMED, puede comunicarse con: Kathryn Becker, Coordinadora de No Discriminación, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. También puede visitar nuestro sitio web en https://www.env.nm.gov/non-employee-discrimination-complaint-page/ para saber cómo y dónde presentar una queja por discriminación.

TX-40879997



LEGEND

NOTIFIED PROPERTY OWNER PARCELS

NAD 1983 (2011) STATE PLANE
NEW MEXICO CENTRAL FEET

0 650 1,300

SCALE IN FEET

FIGURE 4
NOTIFIED PROPERTY OWNERS
MINOR SOURCE CONSTRUCTION PERMIT
GCC SUN CITY MATERIALS, LLC
10795 LAS ALTURAS DRIVE
MESQUITE, NEW MEXICO

REQUESTED BY:	PC
DRAWN BY:	NR
DATE:	12/18/2024
PROJECT:	0888837490

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Source: Google Earth Pro Imagery - 05/20/2024; 2019 Dona Ana County Parcels - https://services7.arcgis.com/JMIoqakAkedEx0oU/arcgis/rest/services/2019_DAC_Parcel_Complete/FeatureServer

X:\GCC\Fig4_NotifiedPropertyOwners.mxd

Section 10

Written Description of the Routine Operations of the Facility

A written description of the routine operations of the facility. Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

The Vado Site consists of an asphalt plant, and a crushing plant with a wash plant which will operate 24 hours a day, 7 days a week, 52 weeks a year.

Asphalt Plant

The Asphalt Plant consists of aggregate/sand and recycled asphalt Pavement (RAP) cold feed bins, conveyors, pugmill, screens, drum mixer, crusher, silos, and mix truck loading operations. Aggregate and sand are loaded in the cold feed bins which feed underbin Conveyor 1 followed by Conveyor 2. Conveyor 2 drops the aggregate/sand into the pugmill to be mixed with the versabind/lime prior to being transferred to Conveyor 3. Conveyor 3 drops the material into a scalping screen to be segregated by size before being transferred into Conveyor 4 and introduced into the drum mixer. The drum mixer heats and dries the material and mixes the material with liquid asphalt cement from the asphalt tanks and RAP from the RAP line. The mixture is dropped into Conveyor 7 which feeds the hot mix asphalt storage silos.

Recycled Asphalt Pavement Line

RAP is loaded into the RAP cold feed bin and transferred by Conveyor 5 into the RAP crusher to be crushed into smaller sizes. Crushed RAP is screened and transferred by Conveyor 6 into the drum mixer.

Crushing Plant

Crushing operations at the crushing plant will be performed by the HSI Crusher, Patriot 300 Cone Crusher, and Patriot 200 Cone Crusher and associated screens, tunnel belts, conveyors, and stackers. A wash plant at the crushing plant operations area will wash sand and aggregates with water.

HSI Crusher

Raw material will be delivered to the HSI Crusher. The crushed material will pass through a screen (Guardian 6202) where material will be segregated by size before being dropped into either Conveyor 1 or Conveyor 2. Material dropped into Conveyor 1 will be sent to Stacker 1 to be stockpiled. Material dropped into Conveyor 2 will be sent to Stacker 2 and into the surge stockpile. The surge stockpile will feed material into the Patriot 300 Cone Crusher and Patriot 200 Cone Crusher operations and associated screens and conveyors.

Patriot 300 Cone Crusher

The surge stockpile will feed the Tunnel 1 belt which will load material into a screen (Guardian 8203) where material will be segregated by size. Oversized material will be crushed in the Patriot 300 Cone Crusher and recycled through the screen. Properly sized material will be dropped into either Conveyor 3, Conveyor 4, or Conveyor 5 and into dedicated stackers and stockpiles.

Patriot 200 Cone Crusher

The Patriot 200 Cone Crusher will be equipped with a built-in screen. The Patriot 200 Cone Crusher/Screen will receive material via the Tunnel 2 belt from the surge stockpile to be crushed/screened before being dropped into either Conveyor 6, Conveyor 7, or Conveyor 8 and into dedicated stackers and stockpiles.

Water sprays will be used as emission control at the crushers, screens, surge hoppers, conveyor belts and stackers.

Wash Plant

Unwashed/dry sand and aggregate will be delivered to a feed hopper and transferred into a feed conveyor. The sand and aggregate will be washed at the end of the feed conveyor and transferred into a wet screen. Washed aggregate greater than 1 inch in size will be dropped from the screen into stacker 1. Washed aggregate less than 1 inch in size will be dropped into a

jumper conveyor, followed by an auger wash rock and into Stacker 3. Washed sand will be dropped from the screen into stacker 2. No emissions are expected at the screen and after the screen given that material will be wet.

Section 11

Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, Single Source Determination Guidance, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

A. Identify the emission sources evaluated in this section (list and describe)**:**

B. Apply the 3 criteria for determining a single source:

SIC Code: Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, OR surrounding or associated sources that belong to different 2-digit SIC codes are support facilities for this source.

☐ **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:

X The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, 20.2.73, 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, 20.2.73, 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, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

Section 12

Section 12.A

PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

A PSD applicability determination for all sources. For sources applying for a significant permit revision, apply the applicable requirements of 20.2.74.AG and 20.2.74.200 NMAC and to determine whether this facility is a major or minor PSD source, and whether this modification is a major or a minor PSD modification. It may be helpful to refer to the procedures for Determining the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review Workshop Manual to determine if the revision is subject to PSD review.

A. This facility is:

- **X** **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 one of the listed 20.2.74.501 Table I – PSD Source Categories. The "project" emissions** for this modification are **not significant since the source is not an existing major source. The "project" emissions listed below represent the site-wide emissions. The site was not a major PSD source before the project and the project is not major in and of itself. The after-project emissions will continue to be minorwith respect to PSD permitting. The project emissions (before netting) for this project are as follows [see Table 2 in 20.2.74.502 NMAC for a complete list of significance levels]:**

a. **NOx: 10.17 TPY**
b. **CO: 47.76 TPY**
c. **VOC: 18.48 TPY**
d. **SOx: 1.20 TPY**
e. **PM: 91.83 TPY**
f. **PM10: 31.23 TPY**
g. **PM2.5: 4.91 TPY**
h. **Fluorides: N/A**
i. **Lead: 0.0003 TPY**
j. **Sulfur compounds (listed in Table 2): N/A**
k. **GHG: 14156.80 TPY**

C. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or 100 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered. **N/A, the site is not an existing major source.**

Section 13

Determination of State & Federal Air Quality Regulations

This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

Required Information for Specific Equipment:
For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply**. **For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

Required Information for Regulations that Apply to the Entire Facility:
See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

Regulatory Citations for Regulations That Do Not, but Could Apply:
If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example** if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example,** if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

Regulatory Citations for Emission Standards:
For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard. Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. **Here are examples:** a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

Federally Enforceable Conditions:
All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVENT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc: http://cfpub.epa.gov/adi/

To save paper and to standardize the application format, delete this sentence, and begin your submittal for this attachment on this page.

Example of a Table for State Regulations:

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQS	Yes	Facility	If subject, this would normally apply to the entire facility. 20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide. Title V applications, see exemption at 20.2.3.9 NMAC The TSP NM ambient air quality standard was repealed by the EIB effective November 30, 2018.
20.2.7 NMAC	Excess Emissions	Yes	Facility	If subject, this would normally apply to the entire facility. If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. This would not apply to Notices of Intent since these are not permits.
20.2.23 NMAC	Fugitive Dust Control	No for permitted facilities, possible for NOIs	Facility	This regulation may apply if, this is an application for a notice of intent (NOI) per 20.2.73 NMAC, if the activity or facility is a fugitive dust source listed at 20.2.23.108.A NMAC, **and** if the activity or facility is located in an area subject to a mitigation plan pursuant to 40 CFR 51.930. As of January 2019, the only areas of the State subject to a mitigation plan per 40 CFR 51.930 are in Doña Ana and Luna Counties. Sources exempt from 20.2.23 NMAC are activities and facilities subject to a permit issued pursuant to the NM Air Quality Control Act, the Mining Act, or the Surface Mining Act (20.2.23.108.B NMAC. **20.2.23.108 APPLICABILITY:** **A.** This part shall apply to persons owning or operating the following fugitive dust sources in areas requiring a mitigation plan in accordance with 40 CFR Part 51.930: **(1)** disturbed surface areas or inactive disturbed surface areas, or a combination thereof, encompassing an area equal to or greater than one acre; **(2)** any commercial or industrial bulk material processing, handling, transport or storage operations. **B.** The following fugitive dust sources are exempt from this part: **(1)** agricultural facilities, as defined in this part; **(2)** roadways, as defined in this part; **(3)** operations issued permits pursuant to the state of New Mexico Air Quality Control Act, Mining Act or Surface Mining Act; and **(4)** lands used for state or federal military activities. [20.2.23.108 NMAC - N, 01/01/2019]
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	Yes	APH1, APBH1	**This regulation does not apply to internal combustion equipment such as engines. It only applies to external combustion equipment such as heaters or boilers.** **Choose all that apply:** This facility has new gas burning equipment **(external combustion emission sources, such as gas fired boilers and heaters)** having a heat input of greater than 1,000,000 million British Thermal Units per year per unit This facility has existing gas burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per unit Note: "New gas burning equipment" means gas burning equipment, the construction or modification of which is commenced after February 17, 1972.

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.34 NMAC	Oil Burning Equipment: NO_2	N/A	N/A	**This regulation does not apply to internal combustion equipment such as engines. It only applies to external combustion equipment such as heaters or boilers.** This facility has oil burning equipment **(external combustion emission sources, such as oil fired boilers and heaters)** having a heat input of greater than 1,000,000 million British Thermal Units per year per unit.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	N/A	N/A	This regulation could apply to existing (prior to July 1, 1974) or new (on or after July 1, 1974) natural gas processing plants that use a Sulfur Recovery Unit to reduce sulfur emissions. **See 'Guidance and Clarification Regarding Applicability of 20.2.35 NMAC' located with the Air Quality Bureau's Permit Section website guidance documents.**
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	**These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.**
20.2.38 NMAC	Hydrocarbon Storage Facility	N/A	N/A	This regulation could apply to storage tanks at petroleum production facilities, processing facilities, tanks batteries, or hydrocarbon storage facilities.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	N/A	N/A	This regulation could apply to sulfur recovery plants that are not part of petroleum or natural gas processing facilities.
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants	N/A	N/A	This regulation establishes emission standards for volatile organic compounds (VOC) and oxides of nitrogen (NOx) for oil and gas production, processing, compression, and transmission sources. 20.2.50 NMAC subparts below: Include the construction status of applicable units as "New", "Existing", "Relocation of Existing", or "Reconstructed" as defined by this Part in your justification: Check the box for the subparts that are applicable: ☐113 – Engines and Turbines ☐114 – Compressor Seals ☐115 – Control Devices and Closed Vent Systems ☐116 – Equipment Leaks and Fugitive Emissions ☐ 117 – Natural Gas Well Liquid Unloading ☐ 118 – Glycol Dehydrators ☐ 119 – Heaters ☐ 120 – Hydrocarbon Liquid Transfers ☐121 – Pig Launching and Receiving ☐122 – Pneumatic Controllers and Pumps ☐ 123 – Storage Vessels ☐124 – Well Workovers ☐ 125 – Small Business Facilities ☐126 – Produced Water Management Unit ☐127 – Flowback Vessels and Preproduction Operations
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	APH1	This regulation that limits opacity to 20% applies to Stationary Combustion Equipment, such as engines, boilers, heaters, and flares unless your equipment is subject to another state regulation that limits particulate matter such as 20.2.19 NMAC (see 20.2.61.109 NMAC). **If equipment at your facility was subject to the repealed regulation 20.2.37 NMAC it is now subject to 20.2.61 NMAC.**
20.2.70 NMAC	Operating Permits	N/A	Facility	If subject, this would normally apply to the entire facility. Applies if your facility's potential to emit (PTE) is 100 tpy or more of any regulated air pollutant other than HAPs; and/or a HAPs PTE of 10 tpy or more for a single

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
				HAP or 25 or more tpy for combined HAPs; is subject to a 20.2.79 NMAC nonattainment permit; or is a facility subject to a federal regulation that requires you to obtain a Title V permit such as landfills or air curtain incinerators. Include both stack and fugitive emissions to determine the HAP's PTE regardless of the facility type. If your facility is one of those listed at 20.2.70.7(2)(a) through (aa) state which source type your facility is and count both fugitive and stack emissions to determine your PTE. If your facility is not in this (a) through (aa) list, count only stack emissions to determine your PTE. Landfills and Air Curtain Incinerators are not Title V Major Sources, but it would apply pursuant to 20.2.70.200.B NMAC.
20.2.71 NMAC	Operating Permit Fees	N/A	Facility	If subject to 20.2.70 NMAC and your permit includes numerical ton per year emission limits, you are subject to 20.2.71 NMAC and normally applies to the entire facility.
20.2.72 NMAC	Construction Permits	Yes	Facility	If subject, this would normally apply to the entire facility. Could apply if your facility's potential emission rate (PER) is greater than 10 pph or greater than 25 tpy for any pollutant subject to a state or federal ambient air quality standard (does not include VOCs or HAPs); if the PER of lead is 5 tpy or more; if your facility is subject to 20.2.72.400 NMAC; or if you have equipment subject to 40 CFR 60 Subparts I and OOO, 40 CFR 61 Subparts C and D. Include both stack and fugitive emissions to determine PER.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	If subject, this would normally apply to the entire facility. **A Notice of Intent application 20.2.73.200 NMAC** could apply if your facility's PER of <u>any</u> regulated air pollutant, including VOCs and HAPs, is 10 tpy or more or if you have lead emissions of 1 tpy or more. Include both fugitive and stack emissions to determine your PER. You could be required to submit **Emissions Inventory Reporting per** 20.2.73.300 NMAC if your facility is subject to 20.2.73.200, 20.2.72, or emits more than 1 ton of lead or 10 tons of PM10, PM2.5, SOx, NOx CO, or VOCs in any calendar year. All facilities that are a Title V Major Source as defined at 20.2.70.7.R NMAC, are subject to Emissions Inventory Reporting.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	N/A	Facility	If subject, this would normally apply to the entire facility. **If you are an existing PSD major source you are subject to the applicability determination requirements at 20.2.74.200 NMAC to determine if you are subject to a PSD permit, <u>before</u> commencing actual construction of any modifications at your facility.** Complete the applicability determination in Section 12 of the application. If you are constructing a new PSD major source or are proposing a major modification to an existing PSD major source, you must obtain a PSD permit. Minor NSR Exemptions at 20.2.72.200 NMAC nor Title V Insignificant Activities do not apply to the PSD permit regulation. **Choose which applies and delete the rest.** See NMACS 20.2.74.7.AE and AG Major Modification and Major Stationary Source, 20.2.74.200 Applicability, and 20.2.74.201 Exemptions. **20.2.74.7.AG(1)** A stationary source listed in Table 1 of this Part (20.2.74.501 NMAC) which emits, or has the potential to emit, emissions equal to or greater than one hundred (100) tons per year of any stack and fugitive emissions (as defined) of any regulated air pollutant; or **20.2.74.7.AG(2)** A stationary source not listed in Table 1 of this Part (20.2.74.501 NMAC) and which emits or has the potential to emit stack emissions of two hundred fifty (250) tons per year or more of any regulated pollutant; or **20.2.74.7.AG(3)** A physical change that would occur at a stationary source not otherwise qualifying under paragraphs (1) or (2) of subsection if the change would

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
				constitute a major stationary source by itself (e.g. an increase of 250 tpy or more); or **20.2.74.300.D** a source or modification that becomes a major stationary source or major modification solely due to a relaxation in any enforceable limitation established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then this part shall apply to the source or modification as through construction had not yet commenced. **20.2.74.200.7.AG(5)** The fugitive emissions of a stationary source shall not be included in determining for any of the purposes of this section whether it is a major stationary source, unless the source belongs to one of the stationary source categories found in Table 1 of this Part (20.2.74.501 NMAC) or any other stationary source category which, as of August 7, 1980, is being regulated under section 111 or 112 of the Act.
20.2.75 NMAC	Construction Permit Fees	Tes	Facility	If subject, this would apply to the entire facility. It is not necessary to include each low level regulatory citation for this regulation. This regulation applies if you are submitting an application pursuant to 20.2.72, 20.2.73, 20.2.74, and/or 20.2.79 NMAC. If this is a 20.2.73 NMAC application it is subject to the filing fee at 20.2.75.10 NMAC. If this is a 20.2.72, 20.2.74, and/or 20.2.79 NMAC application it is subject to 20.2.75.10, 11 permit fee, and 11.E annual fees. You are not subject to the 75.11.E annual fees if you are subject to 20.2.71 NMAC.
20.2.77 NMAC	New Source Performance	Yes	Units subject to 40 CFR 60	This is a stationary source which is subject to the requirements of 40 CFR Part 60.
20.2.78 NMAC	Emission Standards for HAPS	No	Units Subject to 40 CFR 61	This facility emits hazardous air pollutants which are subject to the requirements of 40 CFR Part 61.
20.2.79 NMAC	Permits – Nonattainment Areas	N/A	Facility	If subject, this would normally apply to the entire facility. **If you are an existing nonattainment major source pursuant to 20.2.79.7.V NMAC you are subject to the applicability determination requirements at 20.2.79.109 NMAC to determine if you are subject to a nonattainment permit, before commencing actual construction of any modifications at your facility.** If you are constructing a new nonattainment major source or are proposing a major modification to an existing nonattainment major source, you must obtain a nonattainment permit. Minor NSR Exemptions at 20.2.72.200 NMAC nor Title V Insignificant Activities do not apply to the nonattainment permit regulation. **Choose which applies and delete the rest.** See NMACS 20.2.79.7.U Major Modification and 7.V Major Stationary Source. **20.2.79.109.A(1)** A major stationary source or major modification that will be located within a nonattainment area so designated pursuant to Section 107 of the Federal Act and will emit a pollutant subject to a National Ambient Air Quality Standard for which it is major and which the area is designated nonattainment; or **20.2.79.109.A(2)** A major stationary source or major modification that will be located within an area designated attainment or unclassifiable pursuant to Section 107 of the Federal Act and will emit a regulated pollutant subject to a National Ambient Air Quality Standard for which it is major and the ambient impact of such pollutant would exceed any of the significance levels in 20.2.79.119.A NMAC at any location that does not meet any national ambient air quality standard for the same pollutant.

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification: (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.80 NMAC	Stack Heights			Usually not applicable for TV If applies: Cited as applicable in NSR Permit XXX.
20.2.82 NMAC	MACT Standards for source categories of HAPS	N/A	Units Subject to 40 CFR 63	This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63.

Example of a Table for Applicable Federal Regulations (Note: This is not an exhaustive list):

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR 50	NAAQS	Yes	Facility	If subject, this would normally apply to the entire facility. This applies if you are subject to 20.2.70, 20.2.72, 20.2.74, and/or 20.2.79 NMAC.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	Units subject to 40 CFR 60	Applies if any other Subpart in 40 CFR 60 applies.
NSPS 40 CFR60.90, Subpart I	Subpart I, Standards of Performance for **Hot Mix Asphalt Facilities**	Yes		(a) The affected facility to which the provisions of this subpart apply is each hot mix asphalt facility. For the purpose of this subpart, a hot mix asphalt facility is comprised only of any combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for loading, transferring, and storing mineral filler, systems for mixing hot mix asphalt; and the loading, transfer, and storage systems associated with emission control systems. (b) Any facility under paragraph (a) of this section that commences construction or modification after June 11, 1973, is subject to the requirements of this subpart.
NSPS 40 CFR60.670 Subpart OOO	Subpart OOO, Standards of Performance for **Nonmetallic Mineral Processing Plants**	Yes	Crushers Screens conveyors	(a) 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.

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.

Section 15

Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

Alternative Operating Scenarios: Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

Construction Scenarios: When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: www.env.nm.gov/air-quality/permitting-section-procedures-and-guidance/. Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title “Construction Scenarios”, specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc.

No alternative operating scenarios are expected.

Section 16

Air Dispersion Modeling

1) Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau's Dispersion Modeling Guidelines found on the Planning Section's modeling website. If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.
2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau's dispersion modeling section. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications (http://www.env.nm.gov/aqb/permit/app_form.html) for more detailed instructions on SSM emissions modeling requirements.
3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC). See #1 above. **Note:** Neither modeling nor a modeling waiver is required for VOC emissions.	X
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	
Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3 above.	
Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC)	
Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements.	
Other: i.e. SSM modeling. See #2 above.	
This application does not require modeling since this is a No Permit Required (NPR) application.	
This application does not require modeling since this is a Notice of Intent (NOI) application (20.2.73 NMAC).	
This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4), 20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau's Modeling Guidelines.	

Check each box that applies:

☐ See attached, approved modeling **waiver for all** pollutants from the facility.

☐ See attached, approved modeling **waiver for some** pollutants from the facility.

☒ Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.

☐ Attached in UA4 is a **modeling report for some** pollutants from the facility.

☐ No modeling is required.

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.

Not applicable since this is a 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.

Relevant information for Section 1-C in form UA1: Facility Input Capacity & Production Rate

Asphalt Plant

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: 400 tons**	**Daily: 4800 tons (as modeled)**	**Annually: 700,000 tons**
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: 400 tons**	**Daily: 4800 tons (as modeled)**	**Annually: 700,000 tons**

Recycled Asphalt (RAP) Plant (Part of Crushing Plant)

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: 40 tons**	**Daily: 624 tons (as modeled)**	**Annually: 1400 tons**
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: 40 tons**	**Daily: 624 tons (as modeled)**	**Annually: 1400 tons**

Crushing Plant

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: 600 tons**	**Daily: 9360 tons (as modeled)**	**Annually: 3,505,752 tons**
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: 600 tons**	**Daily: 9360 tons (as modeled)**	**Annually: 3,505,752 tons**

Wash Plant

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: 300 tons**	**Daily: 4680 tons (as modeled)**	**Annually: 700,800 tons**
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: 300 tons**	**Daily: 4680 tons (as modeled)**	**Annually: 700,800 tons**

Section 22: Certification

Company Name: GCC Sun City Materials, LLC

I, SARAH VANCE, 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 12 day of December, 2025 upon my oath or affirmation, before a notary of the State of New Mexic.

*Signature

12/12/2025
Date

SARAH VANCE
Printed Name

VA, EHS
Title

Scribed and sworn before me on this 12 day of December, 2025

My authorization as a notary of the State of New Mexico expires on the 2 day of May, 2027.

SAMANTHA J KRETZ
Notary Public - State of New Mexico
Commission # 1111869
My Comm. Expires May 2, 2027

Notary's Signature

12/12/2025
Date

Samantha J. Kretz
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.

Air Dispersion Modeling Report
Form UA4

Universal Application 4

Air Dispersion Modeling Report

Refer to and complete Section 16 of the Universal Application form (UA3) to assist your determination as to whether modeling is required. If, after filling out Section 16, you are still unsure if modeling is required, e-mail the completed Section 16 to the AQB Modeling Manager for assistance in making this determination. If modeling is required, a modeling protocol would be submitted and approved prior to an application submittal. The protocol should be emailed to the modeling manager. A protocol is recommended but optional for minor sources and is required for new PSD sources or PSD major modifications. Fill out and submit this portion of the Universal Application form (UA4), the "Air Dispersion Modeling Report", only if air dispersion modeling is required for this application submittal. This serves as your modeling report submittal and should contain all the information needed to describe the modeling. No other modeling report or modeling protocol should be submitted with this permit application.

16-A: Identification

1	Name of facility:	GCC Vado Site
2	Name of company:	GCC Sun City Materials, LLC
3	Current Permit number:	Existing Operations - Two rock crushing lines (2112-M1 and 942- M1-R1) - Recycled asphalt product (RAP)/rock crusher (GCP-2-4384) - Hot mix asphalt plant (GCP-3-4449) - Concrete batch plant (0943-R1) – To be Decommissioned To be consolidated into a single minor source permit (Permit # To be Determined)
4	Name of applicant's modeler:	Shawn Haven
5	Phone number of modeler:	832-561-5336
6	E-mail of modeler:	shaven@ensafe.com

16-B: Brief

1	Was a modeling protocol submitted and approved?	Yes☒	No☐
2	Why is the modeling being done? Demonstrate compliance as part of minor NSR construction permit	Other (describe below)	
3	Describe the permit changes relevant to the modeling.		
	- Replacement of equipment and reconfiguration of crushing operations currently authorized by permits 2112-M1 and 942-M1-R1		

	- Ability for Asphalt Plant operations to operate 24 hours a day, 7 days a week, 52 weeks a year (Daytime operations 6am to 7pm, Nighttime operations 7pm to 7am – Reduced production for Asphalt operations at night). - Ability for Crushing Plant operations to operate extended hours - 18 hours a day, 7 days a week, 52 weeks a year (Daytime operations 6am to 7pm, Nighttime operations 7pm to 12am – Reduced production for Crushing operations at night).		
4	What geodetic datum was used in the modeling?	NAD83	
5	How long will the facility be at this location?	Permanent	
6	Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?	Yes☐	No☒
7	Identify the Air Quality Control Region (AQCR) in which the facility is located	153	
8	List the PSD baseline dates for this region (minor or major, as appropriate).		
	NO_2	08/02/1995 (minor source)	
	SO_2	None	
	PM10	06/16/2000 (minor source)	
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).		
	There are no Class I areas within 50 km of the facility.		
10	Is the facility located in a non-attainment area? If so describe below	Yes☐	No☒
11	Describe any special modeling requirements, such as streamline permit requirements.		
	None		

16-C: Modeling History of Facility

Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMAAQS), and PSD increments modeled. (Do not include modeling waivers).

1

Pollutant	Latest permit and modification number that modeled the pollutant facility-wide.	Date of Permit	Comments
CO	N/A		
NO_2	N/A		
SO_2	N/A		
H_2S	N/A		
PM2.5	2112-M1	9/17/2013	
PM10	2112-M1	9/17/2013	
Lead	N/A		
Ozone (PSD only)	N/A		

	NM Toxic Air Pollutants (20.2.72.402 NMAC)	N/A		

16-D: Modeling performed for this application

For each pollutant, indicate the modeling performed and submitted with this application.
Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed.

	Pollutant	ROI	Cumulative analysis	Culpability analysis	Waiver approved	Pollutant not emitted or not changed.
1	CO	☒	☐	☐	☐	☐
	NO_2	☐	☒	☐	☐	☐
	SO_2	☒	☐	☐	☐	☐
	H_2S	☐	☐	☐	☐	☒
	PM2.5	☐	☐	☒	☐	☐
	PM10	☐	☐	☒	☐	☐
	Lead	☐	☐	☐	☐	☐
	Ozone	☐	☐	☐	☐	☒
	State air toxic(s) (20.2.72.402 NMAC)	☐	☐	☐	☐	☒

16-E: New Mexico toxic air pollutants modeling

1 List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application.
None

2 List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.
None

Pollutant	Emission Rate (pounds/hour)	Emission Rate Screening Level (pounds/hour)	Stack Height (meters)	Correction Factor	Emission Rate/ Correction Factor

16-F: Modeling options

1	Was the latest version of AERMOD used with regulatory default options? If not explain below.	Yes☐	No☒
	AERMOD VERSION 24142 was used with regulatory default options. Dry depletion of PM10 and PM2.5 was allowed during the cumulative / culpability analysis.		

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	08/01/2024
2	If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.	

AQB Source ID	Description of Corrections
Multiple	Sources 138E15, 138E25, 138E26, 138E27, 138E33, 138E34, 138E35, 138E40, 138E41, 138E42, 138E43, 138E44, and 138E45 were removed as these were located over 200 km from the site.
Neighboring Sources	Sources 30659@1, 26765E13, 26765E12, 26765E7, 26765E3, 26894A2, 26894A3, 26894E10, 26894E9, 26894E8, 26894E7, 26894E6, 26894E5, 26894E4, 26894E3, 26894E2 were removed from Culp 1 (PM2.5 and PM10) scenario.

16-H: Building and structure downwash

1	How many buildings are present at the facility?	2 buildings at the Asphalt Plant. 2 buildings at the Ready-Mix Plant.	
2	How many above ground storage tanks are present at the facility?	7 tanks at the Asphalt Plant. 2 tanks in the Ready-Mix Plant.	
3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes☐	No☒
	The versabind silo at the Asphalt plant was not modeled as a downwash structure given it has an air gap underneath it.		
4	Building comments		

16-I: Receptors and modeled property boundary

1	"Restricted Area" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility. Describe the fence or other physical barrier at the facility that defines the restricted area.		
	Wire fence		
2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?	Yes☐	No☒
3	Are restricted area boundary coordinates included in the modeling files? The fenceline coordinates included in the modeling files corresponded to the restricted area boundary coordinates.	Yes☒	No☐
	Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.		

4	Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comments
	Fenceline Grid	Irregular polygon	50 meters (m)	0 m	0 m	
	Fine Grid	Irregular polygon	50 m	50 m	100 m	
	Medium Grid	Irregular polygon	100 m	100 m	1,000 m	
	Course Grid	Irregular polygon	500 m	1,000 m	5,000 m	
5	Describe receptor spacing along the fence line.					
	Receptors along the fenceline follow the fenceline and are spaced 50 meters between receptors.					
6	Describe the PSD Class I area receptors.					
	None					

16-J: Sensitive areas

1	Are there schools or hospitals or other sensitive areas near the facility? If so describe below. This information is optional (and purposely undefined) but may help determine issues related to public notice.	Yes☐	No☒
3	The modeling review process may need to be accelerated if there is a public hearing. Are there likely to be public comments opposing the permit application?	Yes☐	No☒

16-K: Modeling Scenarios

1				Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).
				Base scenario – normal operations at maximum hourly rates and maximum annual rates. Hour of day scalar factors were applied for 24-hour and annual averaging periods for PM10 and PM2.5 for sources operated at night at a reduced rate.
2				Which scenario produces the highest concentrations? Why?
				Base scenario

3				Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.) Surrounding sources used HROFDY as received from NMED	Yes☒	No☐
4				If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.) Sources:		

5

Hour of Day	Asphalt Plant Factor (Night)	Asphalt Plant Factor (Day)	Crushing Plant Factor (Night)	Crushing Plant Factor (Day)	Hour of Day	Asphalt Plant Factor (Night)	Asphalt Plant Factor (Day)	Crushing Plant Factor (Night)	Crushing Plant Factor (Day)	
1	1	-	-	-	13	-	1	-	1	
2	1	-	-	-	14	-	1	-	1	
3	1	-	-	-	15	-	1	-	1	
4	1	-	-	-	16	-	1	-	1	
5	1	-	-	-	17	-	1	-	1	
6	1	-	-	-	18	-	1	-	1	
7	-	1	-	1	19	-	1	-	1	
8	-	1	-	1	20	1	-	1		
9	-	1	-	1	21	1	-	1		
10	-	1	-	1	22	1	-	1		
11	-	1	-	1	23	1	-	1		
12	-	1	-	1	24	1	-	1		

			If hourly, variable emission rates were used that were not described above, describe them below.		
6			Were different emission rates used for short-term and annual modeling? If so describe below.	Yes☐	No☒
			Annual emissions were based on maximum annual emissions, not on maximum hourly emissions x 8,760.		

16-L: NO_2 Modeling

1	Which types of NO_2 modeling were used? Check all that apply.	
	☒	ARM2
	☐	100% NO_X to NO_2 conversion
	☐	PVMRM
	☐	OLM
	☐	Other:
	Describe the NO_2 modeling.	

2	Two sources at the Asphalt Plant emit NOx – the baghouse stack (Source ID APBH1) and hot oil heater stack (Source ID APH1). 1-hour and annual averaging periods were modeled.		
3	Were default NO_2/NO_X ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not describe and justify the ratios used below.	Yes☒	No☐
4	Describe the design value used for each averaging period modeled.		
	1-hour: High eighth high Annual: One Year Annual Average		

16-M: Particulate Matter Modeling

1	Select the pollutants for which plume depletion modeling was used.	
	☒	PM2.5 (Cumulative and Culpability analysis)
	☒	PM10 (Cumulative and Culpability analysis)
	☐	None
2	Describe the particle size distributions used. Include the source of information.	
	AP-42 particle size distribution for asphalt plants and particle size distribution for aggregate handling.	

3	Does the facility emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2? Sources that emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2 are considered to emit significant amounts of precursors and must account for secondary formation of PM2.5.	Yes☐	No☒
4	Was secondary PM modeled for PM2.5?	Yes☐	No☒

5	If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.			
	NO_X (ton/yr)	SO_2 (ton/yr)	$[PM2.5]_{annual}$	$[PM2.5]_{24\text{-}hour}$

16-N: Setback Distances

1	Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location.
	Not applicable
2	Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.
	Not applicable

16-O: PSD Increment and Source IDs

1	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below.	Yes☐	No☒

Unit Number in UA-2	Unit Number in Modeling Files
See Table 3: Cross-reference of Identification Numbers	

2	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.	Yes☒	No☐
3	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?	Yes☐	No☒

4 Which units consume increment for which pollutants?

Unit ID	NO_2	SO_2	PM10	PM2.5
GCC Site (all except haul roads, which are existing)			X	

5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).	

6	Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☒	No☐

16-P: Flare Modeling

1 For each flare or flaring scenario, complete the following

Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)

16-Q: Volume and Related Sources

1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines? If not please explain how increment consumption status is determined for the missing installation dates below.	Yes☐	No☒
	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		

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Table 3: Cross-refrence of Identification Numbers

Plant	Unit Number/Source ID	Model ID[1]	Description
Asphalt Plant	APBH1	APBH1, APBH1_N	Baghouse stack
	APH1	APH1, APH1_N	Hot oil heater stack
	APDC1	APDC1, APDC1_N	Versabind/Lime Silo dust collector
	APTK1	N/A	Asphalt Tank 22
	APTK2	N/A	Asphalt Tank 23
	APTK3	N/A	Asphalt Tank 24
	APPMILL	APPMILL, APPMILL_N	Pugmill
	APSCRN1	APSCRN1, APSCRN1_N	Scalping Screen
	APSCRN2	APSCRN2, APSCRN2_N	RAP Screen
	APCR1	APCR1, APCR1_N	RAP Gator Crusher
	APTR1	APTR1A, APTR1A_N	FEL transfer to cold feed bin A
		APTR1B, APTR1B_N	FEL transfer to cold feed bin B
		APTR1C, APTR1C_N	FEL transfer to cold feed bin C
		APTR1D, APTR1D_N	FEL transfer to cold feed bin D
		APTR1E, APTR1E_N	FEL transfer to cold feed bin E
	APTR2	APTR2A, APTR2A_N	Cold Feed Bin A Transfer to Conveyor 1
		APTR2B, APTR2B_N	Cold Feed Bin B Transfer to Conveyor 1
		APTR2C, APTR2C_N	Cold Feed Bin C Transfer to Conveyor 1
		APTR2D, APTR2D_N	Cold Feed Bin D Transfer to Conveyor 1
		APTR2E, APTR2E_N	Cold Feed Bin E Transfer to Conveyor 1
	APTR3	APTR3, APTR3_N	Conveyor 1 Transfer to Conveyor 2
	APTR4	APTR4, APTR4_N	Conveyor 2 Transfer into Pugmill
	APTR5	APTR5, APTR5_N	Pugmill Transfer to Conveyor 3
	APTR6	APTR6, APTR6_N	Scalping Screen Transfer to Conveyor 4
	APTR7	APTR7, APTR7_N	RAP FEL Transfer to Cold Feed Bin
	APTR8	APTR8, APTR8_N	RAP Cold Feed Bin transfer to Conveyor 5
	APTR9	APTR9, APTR9_N	RAP Screen Transfer to Conveyor 6
	APTR10	APTR10, APTR10_N	Drum mixer Transfer to Silo Conveyor 7
	APTR11	APTR11, APTR11_N	Conveyor 7 Transfer to Silo filling
	APTR12	APTR12, APTR12_N	Silo truck loadout
	APTR13	APTR13, APTR13_N	AP Versabind/Lime Silo transfer To Conveyor 8

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Table 3: Cross-refrence of Identification Numbers

Plant	Unit Number/Source ID	Model ID[1]	Description
Crushing Plant	CPCR1	CPCR1, CPCR1_N	CP HSI Crusher
	CPCR2	CPCR2, CPCR2_N	CP Cone Crusher Patriot 300
	CPCR3	CPCR3, CPCR3_N	CP Cone Crusher Patriot 200
	CPSCRN1	CPSCRN1, CPSCRN1_N	CP Screen Guardian 6202
	CPSCRN2	CPSCRN2, CPSCRN2_N	CP Screen Guardian 8203
	CPSCRN3	CPSCRN3, CPSCRN3_N	CP Screen Patriot 200
	CPTR1	CPTR1, CPTR1_N	CP Screen Guardian 6202 transfer to Conveyor 2
	CPTR2	CPTR2, CPTR2_N	CP Screen Guardian 6202 transfer to Conveyor 1
	CPTR3	CPTR3, CPTR3_N	CP Conveyor 1 transfer to Stacker 1
	CPTR4	CPTR4, CPTR4_N	CP Conveyor 2 transfer to Stacker 2
	CPTR5	CPTR5, CPTR5_N	CP Screen Guardian 8203 transfer to Conveyor 3
	CPTR6	CPTR6, CPTR6_N	CP Screen Guardian 8203 transfer to Conveyor 4
	CPTR7	CPTR7, CPTR7_N	CP Screen Guardian 8203 transfer to Conveyor 5
	CPTR8	CPTR8, CPTR8_N	CP Conveyor 3 transfer to Stacker 3
	CPTR9	CPTR9, CPTR9_N	CP Conveyor 4 transfer to Stacker 4
	CPTR10	CPTR10, CPTR10_N	CP Conveyor 5 transfer to Stacker 5
	CPTR11	CPTR11, CPTR11_N	CP Screen Patriot 200 transfer to Conveyor 6
	CPTR12	CPTR12, CPTR12_N	CP Screen Patriot 200 transfer to Conveyor 7
	CPTR13	CPTR13, CPTR13_N	CP Screen Patriot 200 transfer to Conveyor 8
	CPTR14	CPTR14, CPTR14_N	CP Conveyor 6 transfer to Stacker 6
	CPTR15	CPTR15, CPTR15_N	CP Conveyor 7 transfer to Stacker 7
	CPTR16	CPTR16, CPTR16_N	CP Conveyor 8 transfer to Stacker 8
	CPTR17	CPTR17, CPTR17_N	Tunnel Conveyor Transfer to Crusher 3 Feed Conveyor
	CPTR18	CPTR18, CPTR18_N	Tunnel Conveyor Transfer to Screen 2 Feed Conveyor
	CRSTK1	CRSTK1, CRSTK1_N	CP Stacker 1 Transfer into Stockpile 1
	CRSTK2	CRSTK2, CRSTK2_N	CP Stacker 2 Transfer into Stockpile 2
	CRSTK3	CRSTK3, CRSTK3_N	CP Stacker 3 Transfer into Stockpile 3
	CRSTK4	CRSTK4, CRSTK4_N	CP Stacker 4 Transfer into Stockpile 4
	CRSTK5	CRSTK5, CRSTK5_N	CP Stacker 5 Transfer into Stockpile 5
	CRSTK6	CRSTK6, CRSTK6_N	CP Stacker 6 Transfer into Stockpile 6
	CRSTK7	CRSTK7, CRSTK7_N	CP Stacker 7 Transfer into Stockpile 7
	CRSTK8	CRSTK8, CRSTK8_N	CP Stacker 8 Transfer into Stockpile 8

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Table 3: Cross-refrence of Identification Numbers

Plant	Unit Number/Source ID	Model ID[1]	Description
	WASHTR1		WP Transfer to Wash Plant Feed Hopper
	WASHTR2		WP Transfer from Feed Hopper to Wash Plant Feed Conveyor
Stockpiles	SP9		Stockpile 9 (Asphalt Plant - Sand)
	SP10		Stockpile 10 (Asphalt Plant - Aggregate)
	SP11		Stockpile 11 (Asphalt Plant - Aggregate)
	SP12		Stockpile 12 (Asphalt Plant - Aggregate)
	SP13		Stockpile 13 (Asphalt Plant - RAP)
	SP18		Stockpile 18 (Main RAP Stockpile)
Haul Roads	HR3	HR3, HR3_N	Trucks hauling material from Stockpile 12 to cold feed bins - paved road
	HR4	HR4, HR4_N	Trucks hauling material from Stockpile 11 to cold feed bins - paved road
	HR5	HR5, HR5_N	Trucks hauling material from Stockpile 9 to cold feed bins - paved road
	HR6	HR6, HR6_N	Trucks hauling material from Stockpile 10 to cold feed bins - paved road
	HR7		Trucks hauling material from Stockpile 13 to RAP bin - unpaved road
	HR8		Asphalt Trucks - paved road
	HR9	H9U	Trucks hauling RAP from offsite to Main RAP Stockpile - unpaved segment
		H9P	Trucks hauling offsite aggregates sale - paved segment
	HR10	H10	Trucks hauling offsite aggregates sale - paved road
	HR11	H11	Trucks to the Quarry Pit - paved road
	HR12	H12	Trucks hauling offsite materials into site - paved road
	HR13	H13	Loaders from Main RAP Stockpile to Crushing - unpaved road

Notes:

1. "_N" at the end of Model IDs was used to identify night time operations.

FEL = Front-end-loader

RAP = Recycled Asphalt Pavement

2	Sigma-Y for multiple adjacent volume sources, the apparent length of the volume was divided by 2.15. Sigma-Y for single volume sources, the apparent length was divided by 4.3. Sigma-Z for elevated volume sources, the volume height was divided by 4.3
3	Describe how the volume sources are related to unit numbers. Or say they are the same.
	They are the same.
4	Describe any open pits.
	None
5	Describe emission units included in each open pit.
	None

16-R: Background Concentrations

1	Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used.	Yes☒	No☒
	CO: N/A		
	NO_2: Sunland Park (350130021)		
	PM2.5: Las Cruces Distric Office (350130025)		
	PM10: Anthony (350130016)		
	SO_2: Bloomfield(350450009)		
	Other:		
	Comments: PM2.5 background was based on 2021-2023 data from the same monitor listed in Section 16-R.1		
2	Were background concentrations refined to monthly or hourly values? If so describe below.	Yes☐	No☒

16-S: Meteorological Data

1	Was NMED provided meteorological data used? If so select the station used. Las Cruces	Yes☒	No☐
2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		

16-T: Terrain

1	Was complex terrain used in the modeling? If not, describe why below.	Yes☒	No☐
2	What was the source of the terrain data?		
	USGS (https://apps.nationalmap.gov/downloader/#/)		

16-U: Modeling Files

Describe the modeling files:

	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
1	GCC Vado Repermitting_CO ROI	CO-1Hr and 8-Hr	ROI
	GCC Vado Repermitting_NO2 ROI	NO_2-1Hr and Annual	ROI
	GCC Vado Repermitting_NO2 Cumulative	NO_2-1Hr	Cumulative
	GCC Vado Repermitting_NO2 PSD Incr	NO_2-Annual	PSD Increment
	GCC Vado Repermitting_PM2.5_24hr5yr_ROI	$PM_{2.5}$-24hr and Annual	ROI
	GCC Vado Repermitting_PM2.5_24hr5yr_Cum	$PM_{2.5}$-24hr and Annual	Cumulative
	GCC Vado Repermitting_PM2.5_24hr5yr_Culp1	$PM_{2.5}$-24hr and Annual	Culpability
	GCC Vado Repermitting_PM2.5_24hr5yr_Culp2	$PM_{2.5}$-24hr and Annual	Culpability
	GCC Vado Repermitting_PM10_24hr5yr	PM_{10}-24Hr and Annual	ROI
	GCC Vado Repermitting_PM2.5_24hr5yr_Cum	PM_{10}-24Hr and Annual	Cumulative
	GCC Vado Repermitting_PM10_24hr5yr Culp1	PM_{10}-24Hr and Annual	Culpability, PSD Increment
	GCC Vado Repermitting_PM10_24hr5yr Culp2	PM_{10}-24Hr and Annual	Culpability, PSD Increment
	GCC Vado Repermitting_SO2 ROI	SO2-1Hr, 3Hr, 24Hr, and Annual	ROI

16-V: PSD New or Major Modification Applications

1	A new PSD major source or a major modification to an existing PSD major source requires additional analysis. Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)?	Yes☐	No☐
2	If not, did AQB approve an exemption from preconstruction monitoring?	Yes☐	No☐
3	Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes☐	No☐

16-W: Modeling Results

1	If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below.	Yes☒	No☐
	The culpability analysis found that the receptors with exceedances were caused by emission sources on the same property. Those emission sources and receptors on the same property are not "ambient air" for the purposes of the modeling analysis. The culpability analysis removed those sources; and, the corresponding receptors were no longer exceeding the standards.		
2	Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary.		

Pollutant, Time Period and Standard	Modeled Facility Conc. (µg/m3)	Modeled Conc. with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Conc. (µg/m3)	Cumulative Conc. (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (ft)
CO, 1-Hr, SIL	279.9	N/A	N/A	N/A	N/A	2000	14	345900	3557350	1233.93
CO, 8-Hr, SIL	66.74	N/A	N/A	N/A	N/A	500	13	345750	3557500	1233.52
SO2, 1-Hr, NAAQS	3.58	N/A	N/A	N/A	N/A	7.8	49	345900	3557350	1233.93
SO2, 3-Hr, SIL	3.43	N/A	N/A	N/A	N/A	25	14	345750	3557450	1230.89
SO2, 24-Hr, SIL	0.74	N/A	N/A	N/A	N/A	5	15	346058.9	3557182	1241.26
SO2, Annual, SIL	0.07	N/A	N/A	N/A	N/A	1	7	345831.53	3557372.19	1230.85
NO2, 1-Hr, NAAQS		14.73	N/A	89.0	103.73	188.03	55	346650	3557650	1269.98
NO2, Annual, SIL	0.57	N/A	N/A	N/A	N/A	1	57	345869.4	3557341	1232.91
NO2, Annual, PSD Increment		17.35	N/A	N/A	N/A	25	69	345212.6	3556802	1200.49

Pollutant, Time Period and Standard	Modeled Facility Conc. (µg/m3)	Modeled Conc. with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Conc. (µg/m3)	Cumulative Conc. (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (ft)
PM2.5, Annual, NAAQS		3.99	N/A	5.0	8.99	9	99	345550	3556050	1198.36
PM2.5, 24-Hr, NAAQS		20.51	N/A	13	33.5	35	96	345700	3556100	1206.08
PM10, Annual, PSD Increment		13.34	N/A	N/A	N/A	17	78	345850	3555850	1204.51
PM10, 24-Hr, NAAQS		31.84	N/A	117.3	149.1	150	99	345900	3555650	1201.37
PM10, 24-Hr PSD Increment		29.99	N/A	N/A	N/A	30	100	345900	3555800	1200.43

16-X: Summary/conclusions

	A statement that modeling requirements have been satisfied and that the permit can be issued.
1	The modeling was performed following the requirements in the NMED Air Dispersion Modeling Guidelines Revised July 2024. The modeled emission concentrations are below the standards as shown in Table 16-W Modeling Results. The modeling requirements have been satisfied and the permit can be issued.