NMED AIR QUALITY BUREAU
NSR SIGNIFICANT REVISION APPLICATION

FREEPORT-MCMORAN

Freeport-McMoRan Chino Mines Company | Chino Mine

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Air Quality Bureau

Prepared By:
Ellen Silk – Environmental Scientist II

Freeport McMoRan Chino Mines Company
P.O. Box 10
Bayard, NM 88023
(575) 912-5180

Adam Erenstein – Manager of Consulting Services

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February 2026

Trinity Consultants

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9400 Holly Ave NE, Bldg 3, Ste B, Albuquerque, NM 87122 / P 505.266.6611 / **trinityconsultants.com**

February 24, 2026

Permit Programs Manager
NMED Air Quality Bureau
525 Camino de los Marques, Suite 1
Santa Fe, NM 87505

RE: Application for Significant Revision to NSR Permit No. 0298-M11-R10
Freeport-McMoRan Chino Mines Company – Chino Mine

Dear Permit Programs Manager:

On behalf of Freeport-McMoRan Chino Mines Company (Freeport), Trinity Consultants (Trinity) is submitting this application for an NSR Significant Revision, pursuant to 20.2.72.219.D.(1)(a) NMAC, for the Chino Mine. This facility is located approximately 3.89 miles northeast of Bayard, New Mexico in Grant County. Chino Mine is currently authorized to operate under NSR Permit No. 0298-M11-R10.

In this significant revision, Freeport requests the authorization to construct, modify, and remove various emission units and activities at the Chino Mine. As part of this application, Freeport is also seeking to incorporate certain existing units and activities that have not been expressly included in prior versions of NSR Permit No. 0298-M11-R10 or were inadvertently omitted from prior applications. Lastly, as part of this application, Freeport requests changes to certain conditions in NSR Permit No. 0298-M11-R10 to better reflect underlying applicable requirements and to clearly set forth associated monitoring and recordkeeping requirements that provide a reasonable assurance of compliance with those requirements. A redlined version of NSR Permit No. 0298-M11-R10 with proposed changes is provided in Section 20 of this application for NMED's consideration.

The format and content of this application are consistent with the Bureau's current policy regarding NSR applications; it is a complete application package using the most current application forms. Enclosed is one hard copy and one working copy of the application, including the original certification page and an application check. Please feel free to contact me at (505) 266-6611 or by email at AErenstein@trinityconsultants.com if you have any questions regarding this application. Alternatively, you may contact Ellen Silk with Freeport-McMoRan Chino Mines Company at (575) 912-5180 or by email at ESilk@fmi.com.

Sincerely,

TRINITY CONSULTANTS

Adam Erenstein
Manager of Consulting Services

cc: Ellen Silk (Freeport-McMoRan Chino Mines Company)

Trinity Project File 233201.0142
Freeport Tracking No. 20260224-008

Air Permit Application
Compliance History Disclosure Form

Pursuant to Subsection 74-2-7(S) of the New Mexico Air Quality Control Act ("AQCA"), NMSA §§ 74-2-1 to -17, the New Mexico Environment Department ("Department") may deny any permit application or revoke any permit issued pursuant to the AQCA if, within ten years immediately preceding the date of submission of the permit application, the applicant met any one of the criteria outlined below. In order for the Department to deem an air permit application administratively complete, or issue an air permit for those permits without an administrative completeness determination process, the applicant must complete this Compliance History Disclosure Form as specified in Subsection 74-2-7(P). An existing permit holder (permit issued prior to June 18, 2021) shall provide this Compliance History Disclosure Form to the Department upon request.

Permittee/Applicant Company Name		**Expected Application Submittal Date**
Freeport-McMoRan Chino Mines Company		February 24, 2026
Permittee/Company Contact	**Phone**	**Email**
Ellen Silk	(575) 912-5180	esilk@fmi.com

	Within the 10 years preceding the expected date of submittal of the application, has the permittee or applicant:	
1	Knowingly misrepresented a material fact in an application for a permit?	☐ Yes ☒ No
2	Refused to disclose information required by the provisions of the New Mexico Air Quality Control Act?	☐ Yes ☒ No
3	Been convicted of a felony related to environmental crime in any court of any state or the United States?	☐ Yes ☒ No
4	Been convicted of a crime defined by state or federal statute as involving or being in restraint of trade, price fixing, bribery, or fraud in any court of any state or the United States?	☐ Yes ☒ No
5a	Constructed or operated any facility for which a permit was sought, including the current facility, without the required air quality permit(s) under 20.2.70 NMAC, 20.2.72 NMAC, 20.2.74 NMAC, 20.2.79 NMAC, or 20.2.84 NMAC?	☐ Yes ☒ No
5b	If "No" to question 5a, go to question 6. If "Yes" to question 5a, state whether each facility that was constructed or operated without the required air quality permit met at least one of the following exceptions: a. The unpermitted facility was discovered after acquisition during a timely environmental audit that was authorized by the Department; or b. The operator of the facility estimated that the facility's emissions would not require an air permit, **and** the operator applied for an air permit within 30 calendar days of discovering that an air permit was required for the facility.	☐ Yes ☐ No
6	Had any permit revoked or permanently suspended for cause under the environmental laws of any state or the United States?	☐ Yes ☒ No
7	For each "yes" answer, please provide an explanation and documentation.	

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.: 662715 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: **20.2.72.219.D.(1)(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: 526	Updating Permit/NOI #: 0298-M11-R10
1	Facility Name: Chino Mine	Plant primary SIC Code (4 digits): 1021	
		Plant NAIC code (6 digits): 212234	
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): 99 Santa Rita Mine Road, Vanadium, NM 88023		
2	Plant Operator Company Name: Freeport-McMoRan Chino Mines Company	Phone/Fax: (575) 912-5000 / (575) 537-8012	

a	Plant Operator Address: 99 Santa Rita Mine Road, Vanadium, NM 88023	
b	Plant Operator's New Mexico Corporate ID or Tax ID: Unknown	
3	Plant Owner(s) name(s): Freeport-McMoRan Chino Mines Company	Phone/Fax: (575) 912-5000 / (575) 537-8012
a	Plant Owner(s) Mailing Address(s): P.O. Box 10, Bayard, NM 88023	
4	Bill To (Company): Freeport-McMoRan Chino Mines Company	Phone/Fax: (575) 912-5000 / (575) 537-8012
a	Mailing Address: P.O. Box 10, Bayard, NM 88023	E-mail: SBurtkes@fmi.com
5	☐ Preparer: ☒ Consultant: Trinity Consultants	Phone/Fax: (505) 266-6611
a	Mailing Address: 9400 Holly Ave NE, Bldg. 3, Ste. B, Albuquerque, NM 87122	E-mail: AErenstein@trinityconsultants.com
6	Plant Operator Contact: Randy Ellison	Phone/Fax: (575) 912-5640 / (575) 912-5035
a	Address: P.O. Box 10, Bayard, NM 88023	E-mail: REllison@fmi.com
7	Air Permit Contact: Sherry Burt-Kested	Title: Manager Environmental Services
a	E-mail: SBurtkes@fmi.com	Phone/Fax: (575) 912-5927
b	Mailing Address: 99 Santa Rita Mine Road, Vanadium, NM 88023	
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	1.b If yes to question 1.a, is it currently operating in New Mexico? ☒ Yes ☐ No
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): N/A
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-066-R3M1
7	Has this facility been issued a No Permit Required (NPR)? ☐ Yes ☒ No	If yes, the NPR No. is: N/A
8	Has this facility been issued a Notice of Intent (NOI)? ☐ Yes ☒ No	If yes, the NOI No. is: N/A
9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? ☒ Yes ☐ No	If yes, the permit No. is: 0298-M11-R10
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? ☐ Yes ☒ No	If yes, the register No. is: N/A

Section 1-C: Facility Input Capacity & Production Rate

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: 41,666 tons (Santa Rita Pit) 5,250 (Hanover Mountain)	Daily: 1,000,000 tons (Santa Rita Pit) 126,000 tons (Hanover Mountain)	Annually: 365,000,000 tons (Santa Rita Pit) 45,990,000 (Hanover Mountain)
b	Proposed	Hourly: 41,666 tons (Santa Rita Pit) 5,250 (Hanover Mountain)	Daily: 1,000,000 tons (Santa Rita Pit) 126,000 tons (Hanover Mountain)	Annually: 365,000,000 tons (Santa Rita Pit) 45,990,000 (Hanover Mountain)
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: 41,666 tons (Santa Rita Pit) 5,250 (Hanover Mountain)	Daily: 1,000,000 tons (Santa Rita Pit) 126,000 tons (Hanover Mountain)	Annually: 365,000,000 tons (Santa Rita Pit) 45,990,000 (Hanover Mountain)
b	Proposed	Hourly: 41,666 tons (Santa Rita Pit) 5,250 (Hanover Mountain/ Continental)	Daily: 1,000,000 tons (Santa Rita Pit) 126,000 tons (Hanover Mountain/ Continental)	Annually: 365,000,000 tons (Santa Rita Pit) 45,990,000 (Hanover Mountain/Continental)

Section 1-D: Facility Location Information

1	Latitude (decimal degrees): 32.783594	Longitude (decimal degrees): -108.069194	County: Grant	Elevation (ft): 5,630
2	UTM Zone: ☒ 12 or ☐ 13	Datum: ☐ NAD 83 ☒ WGS 84		
a	UTM E (in meters, to nearest 10 meters): 774,500	UTM N (in meters, to nearest 10 meters): 3,631,100		
3	Name and zip code of nearest New Mexico town: Bayard, NM 88023			
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): From Bayard, NM head north on NM-356N/Central Avenue toward Coffey Street. Follow NM-356 N for 1.7 miles and then turn right onto Santa Rita Mine Rd. Continue on Santa Rita Mine Rd for 2.3 miles. Destination will be on the right.			
5	The facility is 3.89 miles northeast of Bayard, NM.			
6	Land Status of facility (check one): ☐ Private ☐ Indian/Pueblo ☐ Government ☒ BLM ☐ Forest Service ☐ Military The majority of the land is privately owned. Some of the land is owned by BLM, but leased to Freeport-McMoRan.			
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: **Municipalities:** Bayard, Santa Clara, Silver City, and Hurley. **Indian Tribes:** None. **Counties:** Grant County and Luna County			
8	**20.2.72** NMAC applications **only**: Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see www.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: Gila Wilderness Area (16.7 km north).			
9	Name nearest Class I area: Gila Wilderness Area			
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): 16.7 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: 60 m			
12	Method(s) used to delineate the Restricted Area: Controlled ownership of area with security gates at access points. "**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: TBD					
4	Month and year of anticipated construction completion: TBD					
5	Month and year of anticipated startup of new or modified facility: TBD					
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: N/A		
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:		
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: PNM 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): Randy Ellison	Phone: (575) 912-5640
a	R.O. Title: General Manager	R.O. e-mail: REllison@fmi.com
b	R. O. Address: P.O. Box 10 Bayard, NM 88023	
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): Laura Phelps	Phone: (575) 912-5206
a	A. R.O. Title: Senior Manager, New Mexico Administration	A. R.O. e-mail: LPhelps@fmi.com
b	A. R. O. Address: P.O. Box 10 Bayard, NM 88023	
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): Freeport-McMoRan Tyrone Inc.	
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.): Freeport-McMoRan, Inc.	
a	Address of Parent Company: 4340 E Cotton Center Blvd, Ste 110 Phoenix, AZ 85040	
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.): N/A	
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: N/A	

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: N/A

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: Adam Erenstein; Email: AErenstein@trinityconsultants.com; Phone number: (505) 266-6611.

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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Section 18: **Addendum for Streamline Applications (streamline applications only)**
Section 19: **Requirements for the Title V (20.2.70 NMAC) Program (Title V applications only)**
Section 20: **Other Relevant Information**
Section 21: **Addendum for Landfill Applications**
Section 22: **Certification Page**

Table 2-A: Regulated Emission Sources

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

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufact-urer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classi-fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
CB TLNGS	Cobre Mine Tailings Impoundment	N/A	N/A	N/A	142 acres	9 acres	N/A[5] / Pre-1970	N/A / N/A	30302408	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
CM TLNGS	Chino Mine Tailings Impoundment	N/A	N/A	N/A	4,074 acres	3,928 acres	N/A[5] / Pre-1970	N/A / N/A	30302408	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
CBM HR	Cobre Mine Haul Roads (Hanover/Continental Hauling)	N/A	N/A	N/A	118,990,000 ton/yr	118,990,000 ton/yr	N/A[5] / 2015	N/A / N/A	30388801	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
CM HR	Chino Mine Hauling	N/A	N/A	N/A	2,023,925,000 ton/yr	2,023,925,000 ton/yr	N/A[5] / Pre-1970	N/A / N/A	30388801	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
BORR_MH	Cobre Haul Road Borrow Pit Material Handling	N/A	N/A	N/A	350,000 tons/yr	350,000 tons/yr	N/A[5] / TBD (Not Constructed)	N/A / N/A	30302408	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
CBM MH	Cobre Mine Material Handling (Hanover/Continental Mining, Magnetite Handling)	N/A	N/A	N/A	47,632,500* tons/yr	47,632,500* tons/yr	N/A[5] / 2015	N/A / N/A	30302404	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
CM MH	Chino Mine Material Handling	N/A	N/A	N/A	631,450,000** tons/yr	631,450,000** tons/yr	N/A[5] / Pre-1970	N/A / N/A	30302404	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
IOS	Wind Erosion of IOS	N/A	N/A	N/A	2.6 acre	2.6 acre	N/A[5] / 1981	N/A / N/A	30302404	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
BDZR	Bulldozing	N/A	N/A	N/A	166,440 hr/yr****	166,440 hr/yr****	N/A[5] / Pre-1970	N/A / N/A	30302404	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
GRDR	Grading	N/A	N/A	N/A	43,800 hr/yr****	43,800 hr/yr****	N/A[5] / Pre-1970	N/A / N/A	30302404	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
BDZR TLNGS	Tailings Bulldozing	N/A	N/A	N/A	30,660 hr/yr****	30,660 hr/yr****	N/A[5] / Pre-1970	N/A / N/A	30302404	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
GRDR TLNGS	Tailings Grading	N/A	N/A	N/A	8,760 hr/yr****	8,760 hr/yr****	N/A[5] / Pre-1970	N/A / N/A	30302404	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
BORR_BLST	Cobre Haul Road Borrow Pit Blasting	N/A	N/A	N/A	60 tons ANFO/yr	60 tons ANFO/yr	N/A[5] / TBD (Not Constructed)	N/A / N/A	30388801	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
CBM BLST	Cobre Mine Hanover/Continental Blasting	N/A	N/A	N/A	26,000 tons ANFO/yr	26,000 tons ANFO/yr	N/A[5] / 2015	N/A / N/A	30388801	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
CM BLST	Chino Mine Blasting	N/A	N/A	N/A	52,000 tons ANFO/yr	52,000 tons ANFO/yr	N/A[5] / Pre-1970	N/A / N/A	30388801	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A

Table 2-A: Regulated Emission Sources

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

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufact-urer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classi-fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
CBM DRILL	Hanover/Continental Mine Drilling	N/A	N/A	N/A	8,418 holes/yr	8,418 holes/yr	N/A[5] Pre-1970	N/A N/A	30502010	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
CM DRILL	Chino Mine Drilling	N/A	N/A	N/A	23,095 holes/yr	23,095 holes/yr	N/A[5] Pre-1970	N/A N/A	30502010	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
F-2-1-1.4	Turbine	Westing-house	W251B12	4658139	455 MMBtu/hr	455 MMBtu/hr	2000 2000	N/A 009-A & 009-B	20200201	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
F-2-1-1.5	Heat Recovery Steam Generator with Duct Burner	HRSG	N/A	N/A	48.8 MMBtu/hr	48.8 MMBtu/hr	2000 2000	N/A 009-A	20100201	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
FLTR / BLND	Filter/Blending Plant	N/A	N/A	N/A	788,400 tons/yr	788,400 tons/yr	N/A Pre-1990	N/A N/A	30302408	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
GDF1	Gasoline Dispensing Facility (Crusher)	Steel Tank Institute	N/A	15493	16,744 gal	16,744 gal	Unknown 2011	N/A N/A	40301008	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
GDF2	Gasoline Dispensing Facility (Mill)	Brown Tank and Steel	N/A	SPCC-CHN-006	10,200 gal	10,200 gal	1991 1991	N/A N/A	40301008	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
GDF3	Gasoline Dispensing Facility (SXEW)	Nogales Hwy Iron & Steel Inc.	N/A	772642	1,086 gal	1,086 gal	Unknown 2025	N/A N/A	40301008	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
GDF4	Gasoline Dispensing Facility (Hurley)	Brown Tank and Steel	N/A	SPCC-CHN-070	15,200 gal	15,200 gal	1991 1991	N/A N/A	40301008	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
GDF5	Gasoline Dispensing Facility (Hamilton)	Kohlhaas Corporation	N/A	11727	4,001 gal	4,001 gal	2010 Apr-2010	N/A N/A	40301008	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
IC-01	Molybdenum Plant	N/A	N/A	N/A	N/A	N/A	Aug-2001 2001	MP SCRB S3	30301199	☐ Existing (unchanged) ☑ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
CTS-01	Conveyor Transfer (Beneath PC-01)	N/A	N/A	N/A	3,360 tons/hr	3,360 tons/hr	Jun-1981 Post Aug 1982	N/A N/A	30510198	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
CV-01A	Coarse Ore Conveyor Belt (Flight #1)	N/A	N/A	N/A	3,360 tons/hr	3,360 tons/hr	Jun-1981 Post Aug 1982	N/A N/A	30510198	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
CV-01B	Coarse Ore Conveyor Belt (Flight #1)	N/A	N/A	N/A	3,360 tons/hr	3,360 tons/hr	Jun-1981 Post Aug 1982	N/A N/A	30510198	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
CV-01C	Coarse Ore Conveyor Transfer (between CV-01A and CV-01B)	N/A	N/A	N/A	3,360 ton/hr	3,360 ton/hr	Jun-1981 Post Aug 1982	N/A N/A	30510198	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
LHS-01 (IC-06)	Lime Handling System	Ivanhoe Concentrator	N/A	N/A	46,428 ton/yr	46,428 ton/yr	6/6/1980 1980	CSLH-01 SCSLH-02	30501615	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A

Table 2-A: Regulated Emission Sources

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

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufact-urer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classi-fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
LUS-01	Lime Unloading System	Ivanhoe Concentrator	N/A	N/A	46,428 ton/yr	46,428 ton/yr	6/13/1981 1981	CSLU-01 SCSLU-02	30501615	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
PC DUMP	Primary Crusher Dump Pocket	N/A	N/A	N/A	3,360 ton/hr	3,360 ton/hr	6/13/1981 Post Aug 1982	N/A N/A	30302404	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
PC-01	Primary Crusher	N/A	N/A	N/A	3,300 tph	3,300 tph	6/13/1981 Post Aug 1982	PCBH-01 SPCBH-01	30501060	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
SAG-F1	SAG Mill Feeders	N/A	N/A	N/A	3300 ton/hr	3300 ton/hr	6/13/1981 Post Aug 1982	N/A N/A	30302404	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
SCDP	Stack Conveyor	N/A	N/A	N/A	3360 ton/hr	3360 ton/hr	6/13/1981 Post Aug 1982	N/A N/A	30510198	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
SAG	Underground SAG Mill Tunnel	N/A	N/A	N/A	3300 ton/hr	3300 ton/hr	1981 Post Aug 1982	SAG BH SAG BH	30399999	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
FLOAT	Sag Mill Floatation	N/A	N/A	N/A	6,180,500 lb/yr***	6,180,500 lb/yr***	N/A[5] 1981	N/A N/A	30388801	Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
RC-01	Recycle Crusher and Baghouse	Metso Minerals	Omnicone 1560	N/A	575 tph	575 tph	1992 1992	RCB-01 RC-01	30388801	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
CH SCRN	Screening Material Handling	PORTEC Kolberg	Unknown	Unknown	1,000 TPH	1,000 TPH	3/2/2012 Unknown	N/A N/A	30302404	☐ Existing (unchanged) ☑ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
CB SCRN	Screening Material Handling	Chieftain Powerscreen	2100X	PID00124TDGC34711-2012	450 ton/hr	450 ton/hr	3/2/2012 Unknown	N/A N/A	30302404	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
CH SCRN ENG	Screening Plant Diesel Engine	Deutz	BF4M2012	010106/04	96.5 HP	96.5 HP	8/1/2006 8/1/2006	N/A S9	20200102	☐ Existing (unchanged) ☑ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	CI	N/A
CB SCRN ENG	Screening Plant Diesel Engine	Caterpillar	C4.4 ATAAC-4 cylinder	BPKXL04.4NM1	175 hp	175 hp	2/1/2012 After 6/12/2006	N/A S10	20200102	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	CI	N/A
SXEW 8MST	SX/EW Plant Eight Mixer/ Settler Tanks	N/A	N/A	N/A	6 x 6,150 sqft 2 x 6,525 sqft	6 x 6,150 sqft 2 x 6,525 sqft	8/15/2000 2025	N/A N/A	30388801	☐ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☑ To Be Modified ☐ To be Replaced	N/A	N/A
SXEW Boiler No. 1	SXEW Plant Water Boiler No. 1	Lochinvar	CBL1257	H12H00242605	1.255 MMBtu/hr	1.255 MMBtu/hr	1996 1996	N/A S5	10201002	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
SXEW Boiler No. 2	SXEW Plant Water Boiler No. 2	Lochinvar	CBL1257	H12H00242604	1.255 MMBtu/hr	1.255 MMBtu/hr	1996 1996	N/A S6	10201002	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
SXEW Boiler No. 3	SXEW Plant Water Boiler No. 3	Weben-Jarco, Inc.	AJH140	AJH140.1067	1.4 MMBtu/hr	1.4 MMBtu/hr	1996 1996	N/A S7	10201002	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A

Table 2-A: Regulated Emission Sources

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

Unit Number[1]	Source Description	Make	Model #	Serial #	Manufact-urer's Rated Capacity[3] (Specify Units)	Requested Permitted Capacity[3] (Specify Units)	Date of Manufacture[2] / Date of Construction/ Reconstruction[2]	Controlled by Unit # / Emissions vented to Stack #	Source Classi-fication Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB)[4]	Replacing Unit No.
SXEW RT	SX/EW Plant Raffinate Tank	N/A	N/A	N/A	1 x 5,024 sqft	1 x 5,024 sqft	8/15/2000 2000	N/A N/A	30388801	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
SXEW SAT	SXEW Plant Acid Tankhouse	N/A	N/A	N/A	N/A	N/A	N/A[5] 1988	N/A SXEW SAT	30388801	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
WH Crush	White House Crushing Plant	Unknown	Unknown	Unknown	500 ton/hr	500 ton/hr	TBD TBD	N/A N/A	30501060	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
EVAP1	Evaporation System	Minetek	600/300	2407164928	36,000 gal/hr	36,000 gal/hr	11/1/2024 8/20/2025	N/A N/A	30388801	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
EVAP2	Evaporation System	Minetek	600/300	2407164929	36,000 gal/hr	36,000 gal/hr	11/1/2024 8/20/2025	N/A N/A	30388801	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
EVAP3	Evaporation System	Minetek	600/300	2407164927	36,000 gal/hr	36,000 gal/hr	11/1/2024 TBD	N/A N/A	30388801	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A
EVAP4	Evaporation System	Minetek	600/300	2407164926	36,000 gal/hr	36,000 gal/hr	11/1/2024 TBD	N/A N/A	30388801	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced	N/A	N/A

[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

[5] Emission unit represents emissions from an activity or building, not a piece of equipment. Date of Manufacture is not applicable to this type of emission unit.

* Total annual amount from material handling is based upon 1,346,800 tons/yr Magnetite, 45,990,000 tons/yr from Hanover Mountain.

** Total annual amount of material handling is based upon 365,000,000 tons/yr from the pit and stockpiles, 127,750,000 tons/yr from Lampbright North, 109,500,000 tons/yr from South Waste, 36,500,000 tons/yr from West Waste, 0 tons/yr from NSPS Waste, and 62,050,000 tons/yr from Crusher/Hill.

*** Total annual reagent usage is based upon 3,766,900 lb/yr QuadraFroth P-100, 718,500 lb/yr Nalco 9714, 319,400 lb/yr Cytec 7048, 472,600 lb/yr Magnafloc 10, 474,700 lb/yr 7310 Promoter, and 428,400 lb/yr Quadrafroth 222

****Rated and permitted capacities are based on the number of units running at a given time.

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

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

Unit Number	Source Description	Manufacturer	Model No. Serial No.	Max Capacity Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
EMERGENCY ENGINES/GENERATORS							
GENERAC1	MIS Building	Generac	QT04524 5578228	60 hp	20.2.72.202.B3 N/A	2009 2009	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
GENERAC2	SX-EW Tankhouse	Generac	QT03624 6460608	50 hp	20.2.72.202.B3 N/A	2011 2011	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	Generac	G0064383 3000668968	15 hp	20.2.72.202.B3 N/A	Jul-2016 Jul-2016	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
CAT5	Santa Rita Tower	Caterpillar	G80 (DG50-2) LSB04350	67 hp	20.2.72.202.B3 N/A	November 2021 November 2021	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
CAT6	Nun Complex Communication Station	Caterpillar	G80 (DG50-2) LSB0494	67 hp	20.2.72.202.B3 N/A	November 2021 November 2021	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
GENERAC7	Mine Warehouse	Generac	G007033 TBD	15 hp	20.2.72.202.B3 N/A	TBD TBD	☐ Existing (unchanged) ☑ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
GENERAC8	Santa Rita Tower	Generac	SG050T (generator/engine) 300984 (generator); 3009845286 (engine)	64 (48 kW) hp	20.2.72.202.B3 N/A	10/22/2021 5/30/2022	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Elliot Magnetek	Mine Warehouse	Elliot Magnetek	MPSG12 90871	16 hp	20.2.72.202.B3 N/A	Unknown 1/4/2005	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Sxlgdwn1	10 Dam Hanover	CAT/3126	CAT/3126 BEJ09668	309 hp	20.2.72.202.B3 N/A	2005 2005	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Sxlpwrprm2	Spare	CAT/3126	CAT/3126 BEJ09674	309 hp	20.2.72.202.B3 N/A	2005 2005	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Sxlpwrprm3	Dam 11	Perkins (Engine)	APKXL06.6PJ1 (Engine) PJ38861NT1818989 (Engine)	174 hp	20.2.72.202.B3 N/A	2018 2011	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Sxlpwrprm4	14 Dam Hanover	CAT/3126B	CAT/3126B BEJ10895	225 hp	20.2.72.202.B3 N/A	2005 2005	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Sxlpwrprm5	11 Dam Hanover	CAT/3126B/IND	CAT/3126B/IND BEJ10891	225 hp	20.2.72.202.B3 N/A	2010 2010	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Unit Number	Source Description	Manufacturer	Model No. Serial No.	Max Capacity Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
Sxlpwrprm7	Dam 13	Perkins (Engine)	PJ38448 (Engine) U027191U (Engine)	175 hp	20.2.72.202.B3 N/A	2010 2011	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Sxlpwrprm8	20 Dam Hanover	CAT/3126B	CAT/3126B BEJ38448	275 hp	20.2.72.202.B3 N/A	2005 2005	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Cummins Generator/1823	South Side Tailing office	Cummins 4BT-3.9	Cummins 4BT-3.9 Unknown	32 hp	20.2.72.202.B3 N/A	1984 1984	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
DEUTZ	Groundhog	DEUTZ	F6L914 CE84/1	114 hp	20.2.72.202.B3 N/A	2015 2012	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
EE5	SXEW Emergency Fire Pump	John Deere	6068HF285K PE6068N025875	197 hp	20.2.72.202.B3/ A4 N/A	2023 May-2023	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
FWP01	Concentrator Fire Emergency Pump	Detroit Diesel	10447312 4A0252067	185 hp	20.2.72.202.B3 N/A	Aug-1981 Aug-1981	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
RT-1	West Stockpile Radio Tower	Caterpillar	DG60-2 CAT0DG60CT3700224	67 hp	20.2.72.202.B5 N/A	March - 2018 2018	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
RT-2	Cobre Radio Tower	Caterpillar	DG60-2 CAT0DG60AT3700226	67 hp	20.2.72.202.B5 N/A	March - 2018 2018	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
RT-3	North Lampbright Radio Tower	Caterpillar	DG50 TBD	50 kW	20.2.72.202.B3 N/A	TBD TBD	☐ Existing (unchanged) ☐ To be Removed ☑ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
LABORATORY EQUIPMENT							
Lab 001	Laboratory Flotation test kits	N/A	N/A Unknown	- -	20.2.72.202.A2 Insignificant Activity #5	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Lab 002	Laboratory Test sample dryer	N/A	N/A Unknown	8 samples/hr ppd	20.2.72.202.A2 Insignificant Activity #5	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Lab 003	Laboratory Test sample dryer	N/A	N/A Unknown	8 samples/hr ppd	20.2.72.202.A2 Insignificant Activity #5	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Lab 004	Laboratory Test sample dryer	N/A	N/A Unknown	8 samples/hr ppd	20.2.72.202.A2 Insignificant Activity #5	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Lab 008	Laboratory Dryer concentrate pulverizer/manual grind	N/A	N/A Unknown	50 ppd	20.2.72.202.B5 Insignificant Activity #1a	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Lab 009	Jaw Crusher/Cone Crusher	N/A	N/A Unknown	240 ppd	20.2.72.202.B5 Insignificant Activity #1a	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
Lab 010	Laboratory Dry concentrate manual grind (2 hoods)	N/A	N/A Unknown	120 ppd	20.2.72.202.B5 Insignificant Activity #1a	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Lab 011	Laboratory Moly Grind	N/A	N/A Unknown	50 ppd	20.2.72.202.B5 Insignificant Activity #1a	N/A N/A	☐ Existing (unchanged) ☑ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Lab 012	Laboratory Sample splitter	N/A	N/A Unknown	240 ppd	20.2.72.202.B5 Insignificant Activity #1a	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
MISCELLANEOUS EQUIPMENT							
ABE-001	Clemco Abrasive Industries, BNP 210-600P&DF 3 PH	N/A	N/A 47425	270 pph	20.2.72.202.B7 Insignificant Activity #2	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
ABE-002	Empire Abrasive, EF- 2248	N/A	N/A C-24355	270 pph	20.2.72.202.B7 Insignificant Activity #2	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
ABE-003	Titan Abrasive, 4040 SDC	N/A	N/A 4942 89	270 pph	20.2.72.202.B5 Insignificant Activity #1a	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
ANP	Ammonium Nitrate Pill Delivery	N/A	N/A Unknown	300000 ppd	20.2.72.202.B5 Insignificant Activity #1a	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Sioux-H	Sioux Corporation heater 360-H (Pressure washer)	N/A	N/A 8/20/1979	0.36 MMBtu/hr	20.2.72.202.B5 Insignificant Activity #1a	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Raff Pond	SX Raffinate Pond	N/A	N/A N/A	67 hp	20.2.72.202.B5 N/A	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
ERP-001	Electrolyte Recovery Pump	Caterpillar	DG50-2 Unknown	29098 ft2	20.2.72.202.B5 N/A	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
FUEL STORAGE TANKS							
001	Used Oil	N/A	N/A N/A	10500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
006	Gasoline	N/A	N/A N/A	2000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
007	Red-dyed diesel	N/A	N/A N/A	10000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
008	ISO- 150 NL Gear	N/A	N/A N/A	1300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
009	ISO- 150 NL Gear	N/A	N/A N/A	1300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
012	Hydraulic Oil 32	N/A	N/A N/A	1500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
013	Used Oil	N/A	N/A N/A	6250 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
014	Power-D Engine Oil SAE 15W-40	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
015	Powerdrive Fluid SAE 60	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
016	Powerdrive Fluid SAE 10W	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
017	Powerdrive 10W	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
018	Powerdrive Fluid SAE 30	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
019	Super All Season Oil SAE SW-30	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
021	Powerdrive Oil	N/A	N/A N/A	15600 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
022	Powerdrive Oil	N/A	N/A N/A	10000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
023	Used Oil (Ploy Tank)	N/A	N/A N/A	4100 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
024	Used Oil	N/A	N/A N/A	1550 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
025	Used Oil for Blasting	N/A	N/A N/A	3500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
026	Used Oil for Blasting	N/A	N/A N/A	3500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
027	Powerdrive Fluid SAE 60	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
028	Powerdrive Fluid SAE 10W	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
029	Powerdrive Fluid SAE 30	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
030	M5 Grease No. 2	N/A	N/A N/A	850 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
031	15W-40 Oil	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
032	15W-40 Oil	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
033	SAE 30	N/A	N/A N/A	11650 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
034	SAE 15W-40 Oil	N/A	N/A N/A	10100 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
037	Diesel	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
038	Gear Lube 85W-140	N/A	N/A N/A	650 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
039-A	Diesel	N/A	N/A N/A	6110 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
040-A	Diesel	N/A	N/A N/A	8209 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
042	Red-dyed Diesel	N/A	N/A N/A	300788 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
043	Red-dyed Diesel	N/A	N/A N/A	300788 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
046	Red-dyed Diesel	N/A	N/A N/A	50750 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
047	Used Oil	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
048-A	Diesel	N/A	N/A N/A	5264 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
049	Diesel	N/A	N/A N/A	10869 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
049-A	Diesel	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
049-B	Diesel	N/A	N/A N/A	10000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
050-A	Diesel	N/A	N/A N/A	6000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
053-A	Gasoline	N/A	N/A N/A	4000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
054	Diesel	N/A	N/A N/A	50500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
055	SAE 10W	N/A	N/A N/A	8650 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
056	Used Oil	N/A	N/A N/A	1450 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
057	Diesel	N/A	N/A N/A	550 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
063	Diesel	N/A	N/A N/A	265 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
065	Used Oil	N/A	N/A N/A	1150 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
067	Diesel	N/A	N/A N/A	3000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
069	Used Oil	N/A	N/A N/A	1300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
071	Used Oil	N/A	N/A N/A	5000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
072	Turbine Oil	N/A	N/A N/A	800 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
077	Diesel	N/A	N/A N/A	3950 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
081	Transformer Oil	N/A	N/A N/A	1300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
084	Gear lube	N/A	N/A N/A	500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
086	Used Oil	N/A	N/A N/A	400 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
101	Unleaded and Diesel	N/A	N/A N/A	8000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
102	Diesel	N/A	N/A N/A	20000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
103	Oily Water	N/A	N/A N/A	2200 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
104	DEF	N/A	N/A N/A	300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
105	Oil	N/A	N/A N/A	500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
106	Magaplex-Grease	N/A	N/A N/A	300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
109	Diesel	N/A	N/A N/A	150 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
120-A	Used Oil & Lubricants	N/A	N/A N/A	2300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
121-A	Diesel	N/A	N/A N/A	300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
124-Wagner	Diesel	N/A	N/A N/A	1500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
125	Diesel	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
126	Gasoline	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
AA	New and Used Oils, Diesel	N/A	N/A N/A	220 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
AB	New and Used Oils and Greases	N/A	N/A N/A	55 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
AC	New and Used Oils and Greases	N/A	N/A	100	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
AD	Lubricants	N/A	N/A	220	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
AE	Used Oil	N/A	N/A	250	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
AF	New and Used Oils and Greases	N/A	N/A	275	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
AG	Transformer Oil	N/A	N/A	1500	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
AH	Transformer Oil	N/A	N/A	1500	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
AI	Transformer Oil	N/A	N/A	1200	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
AJ	New and Used oil products	N/A	N/A	55	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
AM	Transformer Oil	N/A	N/A	300	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
A	Used Oils (Oil Pad)	N/A	N/A	200	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
C	Diesel, Oil	N/A	N/A	200	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
D	New and Used Oils and Greases	N/A	N/A	500	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
D2	Lubricants	N/A	N/A	220	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
E	Product: Oils and Greases	N/A	N/A	55	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
F	Various oils and greases	N/A	N/A	55	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	
G	Used Oils & Gear Lube	N/A	N/A	55	20.2.72.202.B2	N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	Gallons	Insignificant Activity #5 & #8/ SDS	N/A	

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

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
H	New and Used Oils and Greases	N/A	N/A N/A	55 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
I	New and Used Oils and Greases	N/A	N/A N/A	55 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
K	Oil	N/A	N/A N/A	550 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
L	New and Used Oils and Greases	N/A	N/A N/A	55 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
M	New and Used Oils and Greases	N/A	N/A N/A	275 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
N	New and Used Oils and Greases	N/A	N/A N/A	180 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
O	New and Used Oils and Greases	N/A	N/A N/A	180 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
P	New and Used Oils and Greases	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Q	New and Used Oils and Greases	N/A	N/A N/A	110 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
R	Oils and Greases	N/A	N/A N/A	800 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
TS	Oil and Diesel	N/A	N/A N/A	250 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
U	New and Used Oils and Greases	N/A	N/A N/A	55 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
V	New and Used Oils and Greases	N/A	N/A N/A	55 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
V2	Diesel	N/A	N/A N/A	495 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
V3	Diesel (SX mobile pumps)	N/A	N/A N/A	275 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
WI	Diesel	N/A	N/A N/A	0 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
X	New and Used Oils and Greases	N/A	N/A N/A	55 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Y	New and Used Oils and Greases	N/A	N/A N/A	550 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
ZA	Diesel	N/A	N/A N/A	500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
ZB	Diesel (Mill mobile pumps)	N/A	N/A N/A	55 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
OF-001	Diesel	N/A	N/A N/A	10500 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
OF-002	Unleaded	N/A	N/A N/A	1000 Gallons	20.2.72.202.B5 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
OF-003	Diesel	N/A	N/A N/A	550 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
M2-001	Lube Oil	N/A	N/A N/A	300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
M2-002	Lube Oil	N/A	N/A N/A	300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
M2-003	Lube Oil	N/A	N/A N/A	300 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
M2-004	Lube Oil	N/A	N/A N/A	360 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
M2-005	Diesel	N/A	N/A N/A	10000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
M2-006	Used Oil	N/A	N/A N/A	1000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
M2-007	Lube Oil	N/A	N/A N/A	605 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
Tank 123	Cobre Diesel Tank	N/A	N/A N/A	2000 Gallons	20.2.72.202.B2 Insignificant Activity #5 & #8/ SDS	N/A N/A	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
NON ROAD ENGINES							
NR 1	Compressors	N/A	N/A N/A	Variable hp	40 CFR 89 Insignificant Activity #1a and #6	Variable Variable	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced

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

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

Unit Number	Source Description	Manufacturer	Model No. / Serial No.	Max Capacity / Capacity Units	List Specific 20.2.72.202 NMAC Exemption (e.g. 20.2.72.202.B.5) / Insignificant Activity citation (e.g. IA List Item #1.a)	Date of Manufacture /Reconstruction[2] / Date of Installation /Construction[2]	For Each Piece of Equipment, Check Onc
NR 2	Pumps	N/A	N/A	Variable	40 CFR 89	Variable	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	hp	Insignificant Activity #1a and #6	Variable	
NR 3	Maintenance Equipment (Small Generators and Engines)	N/A	N/A	Variable	40 CFR 89	Variable	☑ Existing (unchanged) ☐ To be Removed ☐ New/Additional ☐ Replacement Unit ☐ To Be Modified ☐ To be Replaced
			N/A	hp	Insignificant Activity #1a and #6	Variable	

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

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

[3] For information purposes only. These engines satisfy the federal definition of "nonroad engine" under 40 CFR §§ 89.2 and 90.3 (for compression and spark-ignition engines, respectively) and are therefore regulated by EPA as mobile sources and not subject to state NSR and Title V permitting for stationary sources.

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
PCBH-01	Primary Crusher Baghouse	Pre-1983	$PM/PM_{10}/PM_{2.5}$	PC-01	99.7%	Bechtel Specifications
CSLU-01	Lime Unloading System Wet Scrubber	Pre-1983	$PM/PM_{10}/PM_{2.5}$	LUS-01	99.8%	Manufacturer Specifications
CSLH-01	Lime Handling System Wet Scrubber	Pre-1983	$PM/PM_{10}/PM_{2.5}$	LHS-01	99.8%	Manufacturer Specifications
RCB-01	Recycle Crusher Baghouse	Unknown	$PM/PM_{10}/PM_{2.5}$	Recycle Crusher	99.0%	Manufacturer Specifications
SAG-BH	SAG Tunnel Baghouse	6/20/2023	$PM/PM_{10}/PM_{2.5}$	SAG Tunnel	100%	Manufacturer Specifications

[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
CB TLNGS	-	-	-	-	-	-	-	-	0.27	1.17	0.13	0.59	0.020	0.088	-	-	2.38E-07	1.04E-06
CM TLNGS	-	-	-	-	-	-	-	-	56.60	511.94	58.44	255.97	8.77	38.40	-	-	5.03E-05	4.55E-04
CBM HR	-	-	-	-	-	-	-	-	1,498.09	7,595.32	381.81	1,935.77	38.18	193.58	-	-	-	-
CM HR	-	-	-	-	-	-	-	-	12,950.69	97,630.89	3,237.01	24,654.92	323.70	2,465.49	-	-	-	-
BORR MH	-	-	-	-	-	-	-	-	3.34E-03	0.015	1.28E-03	5.60E-03	1.92E-04	8.40E-04	-	-	7.27E-08	3.19E-07
CBM MH	-	-	-	-	-	-	-	-	0.39	1.60	0.15	0.61	0.022	0.092	-	-	7.62E-06	2.33E-05
CM MH	-	-	-	-	-	-	-	-	3.97	17.39	1.52	6.66	0.23	1.00	-	-	7.62E-06	2.33E-05
BDZR	-	-	-	-	-	-	-	-	48.44	212.17	8.30	36.35	5.09	22.28	-	-	-	-
GRDR	-	-	-	-	-	-	-	-	11.18	48.97	3.83	16.75	0.35	1.52	-	-	-	-
BDZR TLNGS	-	-	-	-	-	-	-	-	17.85	39.08	3.06	6.70	1.87	4.10	-	-	-	-
GRDR TLNGS	-	-	-	-	-	-	-	-	4.47	9.79	1.53	3.35	0.14	0.30	-	-	-	-
BORR BLST	*	0.054	*	1.22	-	-	*	1.08E-04	*	0.11	*	0.058	*	3.32E-03	-	-	1.74E-03	3.48E-06
CBM BLST	*	23.40	*	528.32	-	-	*	0.047	*	80.24	*	41.73	*	2.41	-	-	0.019	2.52E-03
CM BLST	*	46.80	*	1,056.64	-	-	*	0.094	*	170.61	*	88.72	*	5.12	-	-	0.021	5.36E-03
CBM DRILL	-	-	-	-	-	-	-	-	11.70	5.47	7.02	3.28	1.26	0.59	-	-	-	-
CM DRILL	-	-	-	-	-	-	-	-	13.00	15.01	7.80	9.01	1.40	1.62	-	-	-	-
F-2-1-1.4	39.90	174.76	20.00	87.60	2.80	12.26	0.40	1.75	2.30	10.07	2.30	10.07	2.30	10.07	-	-	-	-
F-2-1-1.5	2.40	10.51	1.30	5.69	0.60	2.63	0.030	0.13	0.30	1.31	0.30	1.31	0.30	1.31	-	-	2.39E-05	1.05E-04
FLTR/BLND	-	-	-	-	-	-	-	-	5.76	9.03	2.31	3.64	2.29	3.49	-	-	-	-
GDF1	-	-	-	-	0.92	4.04	-	-	-	-	-	-	-	-	-	-	-	-
GDF2	-	-	-	-	0.50	2.20	-	-	-	-	-	-	-	-	-	-	-	-
GDF3	-	-	-	-	0.11	0.50	-	-	-	-	-	-	-	-	-	-	-	-
GDF4	-	-	-	-	0.60	2.61	-	-	-	-	-	-	-	-	-	-	-	-
GDF5	-	-	-	-	0.24	1.07	-	-	-	-	-	-	-	-	-	-	-	-
CTS-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CV-01A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CV-01B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CV-01C	-	-	-	-	-	-	-	-	1.51	6.62	0.55	2.43	0.083	0.36	-	-	7.16E-06	9.49E-06
LHS-01 (IC-06)	-	-	-	-	-	-	-	-	22.00	51.07	22.00	51.07	3.30	7.66	-	-	-	-
LUS-01	-	-	-	-	-	-	-	-	119.94	51.07	119.94	51.07	17.99	7.66	-	-	-	-
PC DUMP	-	-	-	-	-	-	-	-	0.14	0.62	0.054	0.24	8.06E-03	0.035	-	-	6.65E-07	2.91E-06
PC-01	-	-	-	-	-	-	-	-	17.82	78.05	7.92	34.69	7.92	34.69	-	-	8.44E-05	3.69E-04
IOS	-	-	-	-	-	-	-	-	0.059	0.26	0.029	0.13	4.42E-03	0.019	-	-	2.79E-05	1.22E-04
SAG-F1	-	-	-	-	-	-	-	-	1.49	6.62	0.54	2.43	0.082	0.36	-	-	7.03E-06	3.13E-05
SCDP	-	-	-	-	-	-	-	-	0.46	2.01	0.22	0.95	0.033	0.14	-	-	2.17E-06	9.49E-06
SAG	-	-	-	-	-	-	-	-	9.90	43.36	3.63	15.90	0.54	2.38	-	-	4.69E-05	2.05E-04
FLOAT	-	-	-	-	0.66	2.87	-	-	-	-	-	-	-	-	-	-	-	-

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
RCB-01	-	-	-	-	-	-	-	-	3.11	13.60	1.38	6.04	1.38	6.04	-	-	1.47E-05	6.44E-05
CB SCRN	-	-	-	-	-	-	-	-	13.73	30.06	5.09	11.14	0.76	1.67	-	-	6.50E-05	1.42E-04
CB SCRN ENG	1.16	2.53	1.02	2.22	0.50	1.10	0.42	0.91	0.45	0.98	0.45	0.98	0.45	0.98	-	-	-	-
SXEW 8MST	-	-	-	-	0.33	1.44	-	-	-	-	-	-	-	-	-	-	-	-
SXEW Boiler No. 1	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	0.032	9.60E-03	0.042	9.60E-03	0.042	9.60E-03	0.042	-	-	-	-
SXEW Boiler No. 2	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	0.032	9.60E-03	0.042	9.60E-03	0.042	9.60E-03	0.042	-	-	-	-
SXEW Boiler No. 3	0.20	0.87	0.11	0.50	0.015	0.067	8.11E-03	0.036	0.011	0.047	0.011	0.047	0.011	0.047	-	-	-	-
SXEW RT	-	-	-	-	0.033	0.14	-	-	-	-	-	-	-	-	-	-	-	-
SXEW SAT	-	-	-	-	-	-	-	-	-	-	2.28	10.00	-	-	-	-	-	-
WH Crush	-	-	-	-	-	-	-	-	78.53	171.99	34.48	75.51	6.20	13.57	-	-	3.72E-04	8.14E-04
EVAP1	-	-	-	-	-	-	-	-	1.66	7.26	0.43	1.86	0.32	1.42	-	-	8.58E-07	5.41E-05
EVAP2	-	-	-	-	-	-	-	-	1.66	7.26	0.43	1.86	0.32	1.42	-	-	8.58E-07	5.41E-05
EVAP3	-	-	-	-	-	-	-	-	1.66	7.26	0.43	1.86	0.32	1.42	-	-	8.58E-07	5.41E-05
EVAP4	-	-	-	-	-	-	-	-	1.66	7.26	0.43	1.86	0.32	1.42	-	-	8.58E-07	5.41E-05
Totals	44.01	260.49	22.64	1,683.10	7.34	31.06	0.87	3.04	14,900.80	106,845.69	3,915.80	27,345.64	426.00	2,832.87	-	-	0.042	0.010

[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).

(-) Indicates no known emissions.

(*) Indicates an hourly emission rate is not appropriate for this emission source.

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
CB TLNGS	-	-	-	-	-	-	-	-	0.27	1.17	0.13	0.59	0.020	0.088	-	-	2.38E-07	1.04E-06
CM TLNGS	-	-	-	-	-	-	-	-	56.60	511.94	58.44	255.97	8.77	38.40	-	-	5.03E-05	4.55E-04
CBM HR	-	-	-	-	-	-	-	-	76.67	378.67	19.54	96.51	1.95	9.65	-	-	-	-
CM HR	-	-	-	-	-	-	-	-	1,450.48	10,934.66	362.54	2,761.35	36.25	276.14	-	-	-	-
BORR MH	-	-	-	-	-	-	-	-	3.34E-03	0.015	1.28E-03	5.60E-03	1.92E-04	8.40E-04	-	-	7.27E-08	3.19E-07
CBM MH	-	-	-	-	-	-	-	-	0.39	1.60	0.15	0.61	0.022	0.092	-	-	7.62E-06	2.33E-05
CM MH	-	-	-	-	-	-	-	-	3.97	17.39	1.52	6.66	0.23	1.00	-	-	7.62E-06	2.33E-05
BDZR	-	-	-	-	-	-	-	-	48.44	212.17	8.30	36.35	5.09	22.28	-	-	-	-
GRDR	-	-	-	-	-	-	-	-	11.18	48.97	3.83	16.75	0.35	1.52	-	-	-	-
BDZR TLNGS	-	-	-	-	-	-	-	-	17.85	39.08	3.06	6.70	1.87	4.10	-	-	-	-
GRDR TLNGS	-	-	-	-	-	-	-	-	4.47	9.79	1.53	3.35	0.14	0.30	-	-	-	-
BORR BLST	*	0.054	*	1.22	-	-	*	1.08E-04	*	0.11	*	0.058	*	3.32E-03	-	-	1.74E-03	3.48E-06
CBM BLST	*	23.40	*	528.32	-	-	*	0.047	*	80.24	*	41.73	*	2.41	-	-	0.019	2.52E-03
CM BLST	*	46.80	*	1,056.64	-	-	*	0.094	*	170.61	*	88.72	*	5.12	-	-	0.021	5.36E-03
CBM DRILL	-	-	-	-	-	-	-	-	11.70	5.47	7.02	3.28	1.26	0.59	-	-	-	-
CM DRILL	-	-	-	-	-	-	-	-	13.00	15.01	7.80	9.01	1.40	1.62	-	-	-	-
F-2-1-1.4	39.90	174.76	20.00	87.60	2.80	12.26	0.40	1.75	2.30	10.07	2.30	10.07	2.30	10.07	-	-	-	-
F-2-1-1.5	2.40	10.51	1.30	5.69	0.60	2.63	0.030	0.13	0.30	1.31	0.30	1.31	0.30	1.31	-	-	2.39E-05	1.05E-04
FLTR/BLND	-	-	-	-	-	-	-	-	0.86	1.35	0.35	0.55	0.34	0.52	-	-	-	-
GDF1	-	-	-	-	0.92	4.04	-	-	-	-	-	-	-	-	-	-	-	-
GDF2	-	-	-	-	0.50	2.20	-	-	-	-	-	-	-	-	-	-	-	-
GDF3	-	-	-	-	0.11	0.50	-	-	-	-	-	-	-	-	-	-	-	-
GDF4	-	-	-	-	0.60	2.61	-	-	-	-	-	-	-	-	-	-	-	-
GDF5	-	-	-	-	0.24	1.07	-	-	-	-	-	-	-	-	-	-	-	-
CTS-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CV-01A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CV-01B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CV-01C	-	-	-	-	-	-	-	-	1.51	6.62	0.55	2.43	0.083	0.36	-	-	7.16E-06	9.49E-06
LHS-01 (IC-06)	-	-	-	-	-	-	-	-	0.044	0.10	0.044	0.10	6.60E-03	0.015	-	-	-	-
LUS-01	-	-	-	-	-	-	-	-	0.24	0.10	0.24	0.10	0.036	0.015	-	-	-	-
PC DUMP	-	-	-	-	-	-	-	-	0.14	0.62	0.016	0.071	2.42E-03	0.011	-	-	1.99E-07	8.74E-07
PC-01	-	-	-	-	-	-	-	-	2.16	9.46	2.16	9.46	2.16	9.46	-	-	1.02E-05	4.48E-05
IOS	-	-	-	-	-	-	-	-	0.059	0.26	0.029	0.13	4.42E-03	0.019			2.79E-05	1.22E-04
SAG-F1	-	-	-	-	-	-	-	-	1.49	6.62	0.54	2.43	0.082	0.36	-	-	7.03E-06	3.13E-05
SCDP	-	-	-	-	-	-	-	-	0.46	2.01	0.22	0.95	0.033	0.14	-	-	2.17E-06	9.49E-06
SAG	-	-	-	-	-	-	-	-	1.03	4.51	0.97	4.25	0.46	2.03	-	-	4.87E-06	2.13E-05
FLOAT	-	-	-	-	0.66	2.87	-	-	-	-	-	-	-	-	-	-	-	-

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
RCB-01	-	-	-	-	-	-	-	-	0.031	0.14	0.014	0.060	0.014	0.060	-	-	1.47E-07	6.44E-07
CB SCRN	-	-	-	-	-	-	-	-	3.47	7.60	1.51	3.30	0.20	0.44	-	-	1.64E-05	3.60E-05
CB SCRN ENG	1.16	2.53	1.02	2.22	0.50	1.10	0.42	0.91	0.45	0.98	0.45	0.98	0.45	0.98	-	-	-	-
SXEW 8MST	-	-	-	-	0.33	1.44	-	-	-	-	-	-	-	-	-	-	-	-
SXEW Boiler No. 1	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	0.032	9.60E-03	0.042	9.60E-03	0.042	9.60E-03	0.042	-	-	-	-
SXEW Boiler No. 2	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	0.032	9.60E-03	0.042	9.60E-03	0.042	9.60E-03	0.042	-	-	-	-
SXEW Boiler No. 3	0.20	0.87	0.11	0.50	0.015	0.067	8.11E-03	0.036	0.011	0.047	0.011	0.047	0.011	0.047	-	-	-	-
SXEW RT	-	-	-	-	0.033	0.14	-	-	-	-	-	-	-	-	-	-	-	-
SXEW SAT	-	-	-	-	-	-	-	-	-	-	2.28	10.00	-	-	-	-	-	-
WH Crush	-	-	-	-	-	-	-	-	78.53	171.99	34.48	75.51	6.20	13.57	-	-	3.72E-04	8.14E-04
EVAP1	-	-	-	-	-	-	-	-	1.66	7.26	0.43	1.86	0.32	1.42	-	-	8.58E-07	5.41E-05
EVAP2	-	-	-	-	-	-	-	-	1.66	7.26	0.43	1.86	0.32	1.42	-	-	8.58E-07	5.41E-05
EVAP3	-	-	-	-	-	-	-	-	1.66	7.26	0.43	1.86	0.32	1.42	-	-	8.58E-07	5.41E-05
EVAP4	-	-	-	-	-	-	-	-	1.66	7.26	0.43	1.86	0.32	1.42	-	-	8.58E-07	5.41E-05
Totals	44.01	260.49	22.64	1,683.10	7.34	31.06	0.87	3.04	1,794.75	12,679.82	522.04	3,456.91	71.35	408.50	-	-	0.042	9.80E-03

[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).

(-) Indicates no known emissions

(*) Indicates an hourly emission rate is not appropriate for this emission source

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)			
009-B	F-2-1-1.4	Vertical	No	80.0	965.03	11161.89	-	16%	128.94	10.50
009-A	F-2-1-1.4 and F-2-1-1.5	Vertical	No	130.9	377.33	8804.54	-	16%	101.71	10.50
SCSLH-02	LHS-01 (IC-06)	Vertical	No	60.0	Ambient	82.51	-	-	39.04	1.64
SCSLU-02	LUS-01	Vertical	No	60.0	Ambient	19.97	-	-	59.06	0.66
SPCHB-01	PC-01	Vertical	No	27.9	Ambient	225.66	-	-	74.15	1.97
S10	CB SCRN ENG	Vertical	No	6.6	1130.00	20.59	-	-	53.50	0.70
S5	SXEW Boiler No. 1	Vertical	No	30.8	479.93	0.73	-	-	2.16	0.66
S6	SXEW Boiler No. 2	Vertical	No	30.8	479.93	0.73	-	-	2.16	0.66
S7	SXEW Boiler No. 3	Vertical	No	30.8	479.93	0.73	-	-	2.16	0.66
SXEW SAT	SXEW SAT	Vertical	No	35.1	Ambient + 4°	6556.54	-	-	3.74	47.24
SAG 1	SAG	Vertical	No	22	Ambient	400	-	-	102.4	2.23
SAG 2	SAG	Vertical	No	22	Ambient	400	-	-	102.4	2.23
RC-01	RCB-01	Vertical	No	16	Ambient	174	-	-	22.04	5.80

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		Toluene ☑ HAP or ☐ TAP		Xylenes ☑ HAP or ☐ TAP		Formaldehyde ☑ HAP or ☐ TAP		Copper ☐ HAP or ☑ TAP		Sulfuric Acid ☐ HAP or ☑ TAP		Pollutant ☐ 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
N/A	CB TLNGS	2.05E-05	8.98E-05	-	-	-	-	-	-	2.98E-05	1.31E-04	-	-		
N/A	CM TLNGS	4.33E-03	0.039	-	-	-	-	-	-	6.31E-03	0.057	-	-		
N/A	CBM HR	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	CM HR	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	BORR MH	2.02E-05	1.00E-05	-	-	-	-	-	-	6.53E-06	2.86E-05	-	-		
N/A	CBM MH	4.25E-04	1.40E-03	-	-	-	-	-	-	8.99E-04	3.83E-03	-	-		
N/A	CM MH	6.39E-04	2.79E-03	-	-	-	-	-	-	7.76E-03	0.034	-	-		
N/A	BDZR	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	GRDR	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	BDZR TLNGS	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	GRDR TLNGS	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	BORR BLST	0.26	5.21E-04	-	-	-	-	-	-	-	-	-	-		
N/A	CBM BLST	2.94	0.38	-	-	-	-	-	-	-	-	-	-		
N/A	CM BLST	3.13	0.81	-	-	-	-	-	-	-	-	-	-		
N/A	CBM DRILL	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	CM DRILL	-	-	-	-	-	-	-	-	-	-	-	-		
009-B	F-2-1-1.4	0.47	2.05	0.059	0.26	0.029	0.13	0.32	1.41	-	-	0.020	0.088		
009-A	F-2-1-1.5	0.090	0.39	1.63E-04	7.12E-04	-	-	3.59E-03	0.016	-	-	-	-		
N/A	FLTR/BLND	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	GDF1	0.48	2.10	0.23	1.01	0.14	0.61	-	-	-	-	-	-		
N/A	GDF2	0.26	1.14	0.13	0.55	0.075	0.33	-	-	-	-	-	-		
N/A	GDF3	0.059	0.26	0.029	0.13	0.017	0.075	-	-	-	-	-	-		
N/A	GDF4	0.31	1.35	0.15	0.65	0.089	0.39	-	-	-	-	-	-		
N/A	GDF5	0.13	0.56	0.06	0.27	0.04	0.16	-	-	-	-	-	-		
N/A	CTS-01	-	-	-	-	-	-	-	-	-	-	-	-		

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		Toluene ☑ HAP or ☐ TAP		Xylenes ☑ HAP or ☐ TAP		Formaldehyde ☑ HAP or ☐ TAP		Copper ☐ HAP or ☑ TAP		Sulfuric Acid ☐ HAP or ☑ TAP		Pollutant ☐ 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
N/A	CV-01A	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	CV-01B	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	CV-01C	1.76E-04	2.34E-04	-	-	-	-	-	-	6.69E-03	8.87E-03	-	-		
SCSLH-02	LHS-01 (IC-06)	-	-	-	-	-	-	-	-	-	-	-	-		
SCSLU-02	LUS-01	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	PC DUMP	4.91E-06	2.15E-05	-	-	-	-	-	-	1.86E-04	8.16E-04	-	-		
SPCHB-01	PC-01	2.52E-04	1.10E-03	-	-	-	-	-	-	9.56E-03	0.042	-	-		
N/A	IOS	6.88E-04	3.01E-03	-	-	-	-	-	-	0.026	0.11				
N/A	SAG-F1	1.73E-04	7.72E-04	-	-	-	-	-	-	6.57E-03	0.029	-	-		
N/A	SCDP	5.34E-05	2.34E-04	-	-	-	-	-	-	2.03E-03	8.87E-03	-	-		
N/A	SAG	1.20E-04	5.25E-04	-	-	-	-	-	-	4.55E-03	0.020	-	-		
N/A	FLOAT	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	RCB-01	3.62E-06	1.59E-05	-	-	-	-	-	-	1.37E-04	6.02E-04	-	-		
N/A	CB SCRN	4.04E-04	8.85E-04	-	-	-	-	-	-	0.015	0.034	-	-		
S10	CB SCRN ENG	5.40E-03	0.012	5.88E-04	1.29E-03	4.10E-04	8.98E-04	1.70E-03	3.72E-03	-	-	-	-		
N/A	SXEW 8MST	0.44	1.94	0.30	1.32	0.051	0.22	-	-	-	-	-	-		
S5	SXEW Boiler No. 1	-	-	-	-	-	-	-	-	-	-	-	-		
S6	SXEW Boiler No. 2	-	-	-	-	-	-	-	-	-	-	-	-		
S7	SXEW Boiler No. 3	-	-	-	-	-	-	-	-	-	-	-	-		
N/A	SXEW RT	0.058	0.25	0.030	0.13	0.019	0.081	-	-	-	-	-	-		
SXEW SAT	SXEW SAT	-	-	-	-	-	-	-	-	-	-	2.28	10.00		
N/A	WH Crush	9.15E-03	0.020	-	-	-	-	-	-	0.35	0.76	-	-		
N/A	EVAP1	5.76E-03	0.025	-	-	-	-	-	-	5.64E-04	2.47E-03	-	-		
N/A	EVAP2	5.76E-03	0.025	-	-	-	-	-	-	5.64E-04	2.47E-03	-	-		
N/A	EVAP3	5.76E-03	0.025	-	-	-	-	-	-	5.64E-04	2.47E-03	-	-		

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		Toluene ☑ HAP or ☐ TAP		Xylenes ☑ HAP or ☐ TAP		Formaldehyde ☑ HAP or ☐ TAP		Copper ☐ HAP or ☑ TAP		Sulfuric Acid ☐ HAP or ☑ TAP		Pollutant ☐ 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
N/A	EVAP4	5.76E-03	0.025	-	-	-	-	-	-	5.64E-04	2.47E-03	-	-		
HAP Totals:		8.67	11.43	0.99	4.32	0.46	2.00	0.33	1.43	-	-	-	-		
TAP Totals[1]:		-	-	-	-	-	-	-	-	0.43	1.07	2.30	10.08		
TAP Screening Level										0.0667		0.0667			

[1] Per 20.2.72.402.C.(10) NMAC, non-process fugitive emissions of TAPs from stationary sources are exempt from the permitting requirements for TAPs. While the exclusion does not expressly list blasting or define "non-process fugitive emissions," the 1987 rulemaking record for the initial establishment of the TAP provisions clarifies that the intent was to primarily review releases from stacks, vents, or ducts for the purpose of applicability. However, process fugitives such as those from a smelter were also considered appropriate for review. The exemption for non-process fugitive emissions was therefore established to clarify TAP program applicability solely to process emissions (those exiting a stack or escaping as fugitives) and not to "non-process" fugitive emissions from sources "such as construction sites, unpaved roads, coal piles, tailing piles, waste piles, and fuel and ash handling operations." Therefore, tailings piles, unpaved roads, and blasting have been excluded from these totals.

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
F-2-1-1.4	Natural Gas	Pipeline quality natural gas	1,020 Btu/scf	493,921.6 scf	4326.8 MMscf	<0.01	-
F-2-1-1.5	Natural Gas	Pipeline quality natural gas	1,020 Btu/scf	47,843.1 scf	419.1 MMscf	<0.01	-
CB SCRN ENG	Diesel Fuel	Purchased commercial	137,000 Btu/gal	10.5 gal	92.0 Mgal	<0.05%	-
CH SCRN ENG	Diesel Fuel	Purchased commercial	137,000 Btu/gal	4.7 gal	4.7 Mgal	<0.05%	-
SXEW Boiler No. 1	Liquid petroleum gas (LPG)	Purchased commercial	91,500 Btu/gal	13.7 gal	0.12 MMgal	5.3 lb/103 gal	-
SXEW Boiler No. 2	Liquid petroleum gas (LPG)	Purchased commercial	91,500 Btu/gal	13.7 gal	0.12 MMgal	5.3 lb/103 gal	-
SXEW Boiler No. 3	Liquid petroleum gas (LPG)	Purchased commercial	91,500 Btu/gal	15.3 gal	0.13 MMgal	5.3 lb/103 gal	-

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)
N/A- All tanks are considered insignificant activities and are listed on Table 2-B.									

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			
N/A- All tanks are considered insignificant activities and are listed on Table 2-B.													

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

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

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

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

Material Processed				Material Produced			
Description	**Chemical Composition**	**Phase (Gas, Liquid, or Solid)**	**Quantity (specify units)**	**Description**	**Chemical Composition**	**Phase**	**Quantity (specify units)**
Chino Mined Material	Copper, minerals, and trace metals	Solid	1,000,000 tons/day	Chino & Cobre Copper Cathode	High Purity Copper	Solid	215 tons/day
Cobre Mined Material	Copper, minerals, and trace metals	Solid	126,000 tons/day	Chino & Cobre Copper Cathode	High Purity Copper	Solid	215 tons/day
Magnetite	Iron, Copper, Manganese, and trace metals	Solid	4,500 tons/day	Magnetite	Magnetite	Solid	4,500 tons/day
Copper Ore for Concentrator (mined)	Copper, minerals, and trace metals	Solid	80,640 tons/day	Concentrate	30% Copper Concentrate Cake	Solid	360,800 tons/yr

Table 2-N: CEM Equipment

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

Stack No.	Pollutant(s)	Manufacturer	Model No.	Serial No.	Sample Frequency	Averaging Time	Range	Sensitivity	Accuracy
N/A - This facility does not have any CEM equipment present.									

Table 2-O: Parametric Emissions Measurement Equipment

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

Unit No.	Parameter/Pollutant Measured	Location of Measurement	Unit of Measure	Acceptable Range	Frequency of Maintenance	Nature of Maintenance	Method of Recording	Averaging Time
N/A - This facility does not have any PEM equipment present.								

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**	**265**	**28**	**22,800**	**footnote 3**									
CB TLNGS	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CM TLNGS	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CBM HR	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CM HR	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
BORR MH	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CBM MH	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CM MH	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
BDZR	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
GRDR	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
BDZR TLNGS	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
GRDR TLNGS	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
BORR BLST	**mass GHG**	10.93	8.86E-05	4.43E-04	-	-								10.93	
	CO_2e	10.93	0.023	0.012	-	-									10.96
CBM BLST	**mass GHG**	4,746.43	0.039	0.19	-	-								4,746.66	
	CO_2e	4,746.43	10.20	5.39	-	-									4,762.02
CM BLST	**mass GHG**	9,492.86	0.077	0.39	-	-								9,493.32	
	CO_2e	9,492.86	20.41	10.78	-	-									9,524.05
CBM DRILL	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CM DRILL	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
F-2-1-1.4	**mass GHG**	319,087.33	0.45	4.46	-	-								319,092.24	
	CO_2e	319,087.33	118.30	124.99	-	-									319,330.62
F-2-1-1.5	**mass GHG**	25,385.26	0.048	0.48	-	-								25,385.79	
	CO_2e	25,385.26	12.69	13.41	-	-									25,411.36

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**	**265**	**28**	**22,800**	**footnote 3**									
FLTR/BLND	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
GDF1	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
GDF2	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
GDF3	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
GDF4	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
GDF5	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CTS-01	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CV-01A	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CV-01B	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CV-01C	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
LHS-01 (IC-06)	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
LUS-01	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
PC DUMP	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
PC-01	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
IOS	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
SAG-F1	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
SCDP	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
SAG	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-

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**	**265**	**28**	**22,800**	**footnote 3**									
FLOAT	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
RCB-01	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CB SCRN	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
CB SCRN ENG	**mass GHG**	525.72	4.26E-03	0.021	-	-								525.75	
	CO_2e	525.72	1.13	0.60	-	-									527.45
SXEW 8MST	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
SXEW Boiler No. 1	**mass GHG**	775.48	7.39E-03	0.037	-	-								775.52	
	CO_2e	775.48	1.96	1.03	-	-									778.47
SXEW Boiler No. 2	**mass GHG**	775.48	7.39E-03	0.037	-	-								775.52	
	CO_2e	775.48	1.96	1.03	-	-									778.47
SXEW Boiler No. 3	**mass GHG**	865.07	8.24E-03	0.041	-	-								865.12	
	CO_2e	865.07	2.18	1.15	-	-									868.41
SXEW RT	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
SXEW SAT	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
WH Crush	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
EVAP1	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
EVAP2	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
EVAP3	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
EVAP4	**mass GHG**	-	-	-	-	-								-	
	CO_2e	-	-	-	-	-									-
Total	**mass GHG**	**361,664.55**	**0.64**	**5.66**	**-**	**-**								**361,670.85**	
	CO_2e	**361,664.55**	**168.85**	**158.40**	**-**	**-**									**361,991.81**

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

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

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

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

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

Section 3

Application Summary

The **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

Freeport McMoRan Chino Mines Company (Freeport) owns and operates the Chino Mine (Chino), an open-pit copper mining operation located approximately 15 miles east of Silver City in Grant County, New Mexico (UTM Zone 12; Air Quality Control Region 012). The primary purpose of the facility is to produce copper cathode using the Solvent Extraction/Electrowinning (SXEW) process and copper concentrate using a wet flotation process. Chino is currently permitted under NSR Permit No. 0298-M11-R10, issued on October 8, 2025.

Freeport is submitting a significant permit revision application pursuant to 20.2.72.219.D.(1)(a) NMAC to authorize the construction, modification, and removal of various emission units and activities at the Chino Mine. As part of this application, Freeport is also seeking to incorporate certain existing units and activities that have not been expressly included in prior versions of NSR Permit No. 0298-M11-R10. Requested changes include the following:

Construction of New Units:

- Evaporator (Unit EVAP3); and
- Evaporator (Unit EVAP4)

Removal of Existing Units:

- Molybdenum plant (Unit IC-01);
- Screening plant at Chino Mine (Unit CH SCRN);
- Screening plant engine at Chino Mine (Unit CH SCRN ENG);
- Mine warehouse generator (Unit GENERAC 7) (Exempt pursuant to 20.2.72.202.B.(3) NMAC)

Modification of Existing Units:

- Increase the amount of blasting agent/day to 200,000 lbs/day at Cobre Mine Hanover/Continental (Unit CBM BLST);
- Increase the amount of maximum blasting agent/event to 380,000 lbs/day and the horizontal area per blast to 130,000 ft^2 at Chino Mine Santa Rita (Unit CM BLST);
- Cobre Haul Roads (Unit CBM HR); and
    - Removal of Haul Road #18 (NOBS) and Haul Road #19 (Magnetite)
- Chino Haul Roads (Unit CM HR)
    - Removal of Haul Road #12 (LBX),
    - Removal of Haul Road #10 (Yellow Brick),
    - Addition of Haul Roads #21 (Kessel) and #22 (North Lampbright), and

- Modification of the layouts of Haul Road #5N (Hanover Mountain), Haul Road #13 (Upper Lampbright), Haul Road #14 (Lower Lampbright), and Haul Road #17 (Princess Ramp)

Incorporation of Existing Units (New to the Permit):

- Cobre Mine drilling (Unit CBM DRILL);
- Chino Mine drilling (Unit CM DRILL);
- Ivanhoe Concentrator floatation agents (Unit FLOAT);
- Recycle crushing process (Unit RC-01);
- Bulldozing (Units BDZR and BDZR TLNGS);
- Grading (Units GRDR and GRDR TLNGS); and
- Intermediate ore stockpile (Unit IOS)

In addition, this application provides updated emission unit information in the application tables as well as updated emission calculations to accurately represent current operations and best available information. Updates include the following:

- Updated ID of unit GENERAC5 to CAT5 and corrected manufacturer, serial/model number, and capacity
- Updated ID of unit GENERAC6 to CAT6 and corrected manufacturer, serial/model number, and capacity
- Updated description of Unit Sxlpwrprm2 to "Spare"
- Updated description of Unit DEUTZ to "Groundhog"
- Corrected manufacturer, serial/model number, and capacity of Unit EE5
- Added a radio tower generator (Unit RT-3) (exempt pursuant to 20.2.72.202.B(3) NMAC) (Administrative Permit Revision #0298M11-R10 submitted to the Department on 9/8/2025)
- Updated S/N, Model and Manufacturer of Units Sxlpwrprm3 and Sxlpwrprm7 (exempt pursuant to 20.2.72.202.B(3) NMAC)
- Updated manufacturer's rated capacity, requested permitted capacity, and date of construction columns for all emission units
- For Gasoline Dispensing Facilities (previously Unit GDF),
  - Updated VOC/HAP calculation methodology from AP-42 Chapter 5.2 to AP-42 Chapter 7.1
  - Updated the total number of tanks from three (3) to five (5) at the following locations: Crusher, Mill, SXEW, Hurley, Hamilton
  - Separated emission unit into five separate GDF emission units (Units GDF1, GDF2, GDF3, GDF4, GDF5).
- For Filter/Blending Plant (Unit FLTR/BLND),
  - Updated to allow for transfers to both rail car and semi-truck
  - Updated conveyor throughout to 90 tons/hr
- For Cobre Mine Hanover/Continental blasting (Unit CBM BLST), updated emission calculations to reflect current operation of 1 blast per day.
- For SX/EW Plant Eight Mixer/ Settler Tanks SXEW 8MST,
  - Corrected count of tanks from ten (10) to eight (8)
  - Updated chemical concentrations of constituents for the reagents
- For Cobre Mine Material Handling (Unit CBM MH), updated to include unloading to Humbolt stockpile and loading at Continental pit
- For Cobre Haul Roads (Unit CBM HR), updated mean vehicle weight in the emission calculations for all haul roads to include all vehicles that travel on the haul road, in addition to the industrial haul trucks
- For Chino Haul Roads (Unit CM HR), updated mean vehicle weight in the emission calculations for all haul roads to include all vehicles that travel on the haul road, in addition to the industrial haul trucks
- For Stack Conveyor Drop Point (SCDP), updated emission calculations from use of a conveyor transfer point emission factor to a conveyor drop point emission factor (AP-42 Chapter 13.2.4)

Lastly, as part of this application, Freeport requests changes to certain conditions in NSR Permit No. 0298-M11-R10 to better reflect underlying applicable requirements and to clearly set forth associated monitoring and recordkeeping requirements that provide a reasonable assurance of compliance with those requirements. A redlined version of NSR Permit No. 0298-M11R10 with proposed changes is provided in Section 20 of this application for NMED's consideration. The proposed changes largely involve updates to allowable emissions in Table 106.A (based on updates to requested allowable emissions) and the

conditions set forth for individual emission units for purposes of demonstrating compliance with the allowable emissions in Table 106.A. Where requested allowable emissions for emission units are based on operational limits (e.g., throughput) and/or the use of controls, Freeport's proposed conditions for these units specify such operational limits and/or control requirements as the means of demonstrating compliance with the allowable emissions in Table 106.A and provide associated monitoring and recordkeeping to demonstrate compliance with each operational limit and/or control requirement.

Source Status

Chino is a minor source under the Prevention of Significant Deterioration (PSD) rules and a major source for operating permit purposes under Title V (20.2.70 NMAC) and will remain so as part of this significant permit revision application.

Process Summary

Chino includes two open pits, the Santa Rita open pit and the Continental open pit (formally known as the Cobre Mine or herein as "Cobre") located approximately 3 miles north of the Santa Rita open pit. Cobre also contains Hanover Mountain which has actively been mined down to base and will continue to be mined down to another open pit. The facility includes extensive unpaved haul roads, ore and waste rock stockpiles, and associated support infrastructure. Ore mined from Cobre is transported via the Cobre Haul Road for future processing. Additional operations include a mill, which includes a primary crusher, conveyor belts and concentrator, two screening plants, loading of magnetite into over-the road trucks, a power plant, and a solution extraction and electrowinning plant.

Ore extracted from the pits is transported via dedicated haul roads, including the Cobre Haul Road, to processing areas within the Chino Mine. The facility's primary operations include:

- Crushing and Milling: Ore is processed through a primary crusher and conveyed to a concentrator for further size reduction and mineral separation.
- Flotation and Concentrate Production: The concentrator utilizes wet flotation to produce copper concentrate.
- SX/EW Processing: Copper is recovered through a SXEW process to produce copper cathode.
- Material Handling and Screening: Includes two screening plants and the loading of magnetite into over-the-road trucks.
- Power Generation: On-site power generation supports mining and processing operations.

These processes are supported by ancillary activities such as drilling, blasting, grading, dozing, and material handling, which contribute to the facility's overall emissions profile.

Routine Startup, Shutdown, and Maintenance (SSM)

All SSM emissions at this facility do not require an increase in requested allowable emissions greater than those listed in Table 2-E. Equipment located at this facility is equipped with various safety devices and features that aid in the prevention of excess emissions in the event of an operational emergency. If an operational emergency does occur and excess emissions occur, Freeport will submit the required Excess Emissions Report per 20.2.7 NMAC. Corrective action to eliminate excess emissions and prevent recurrence in the future will be undertaken as quickly as safety allows.

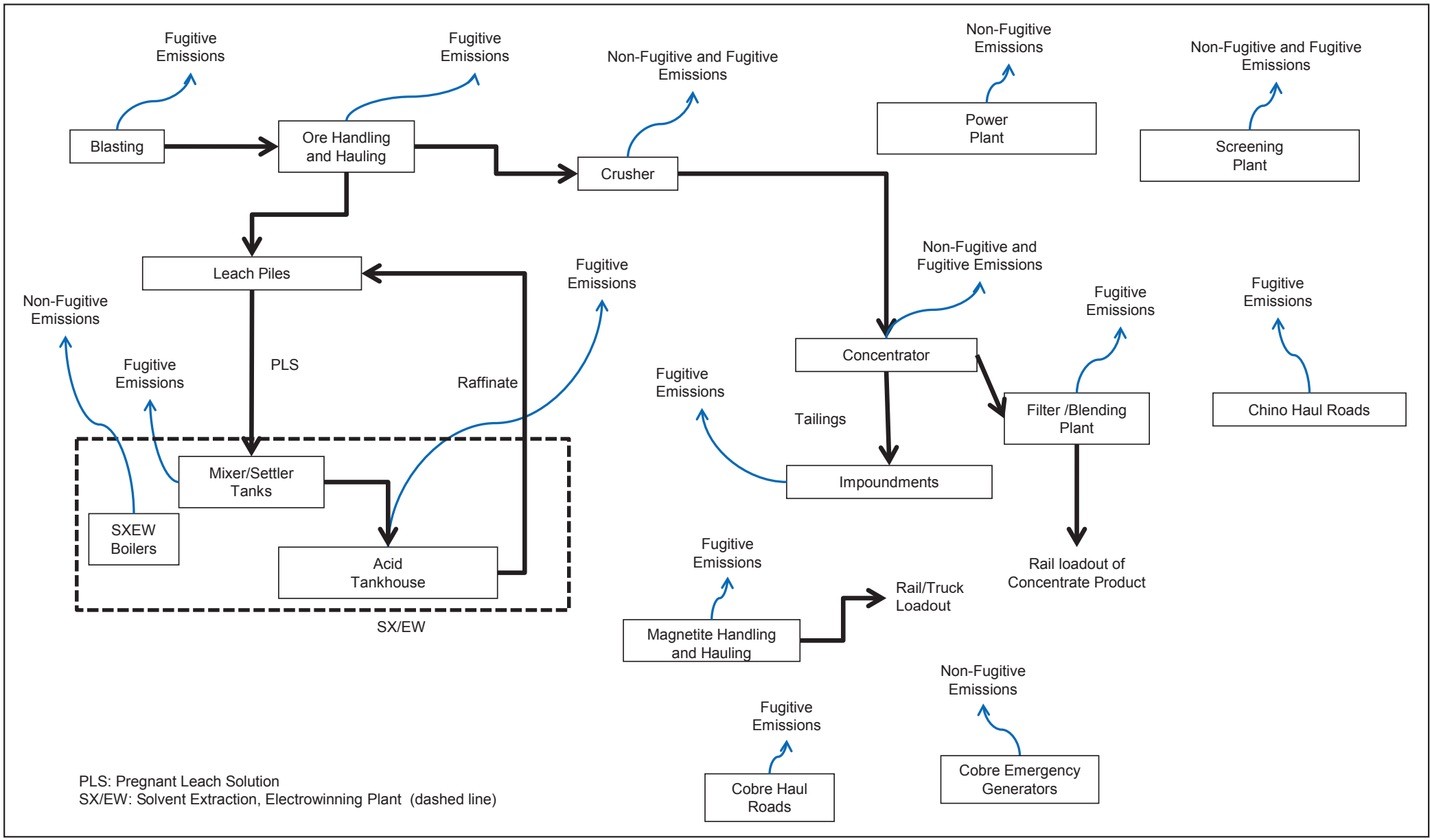
Section 4

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.

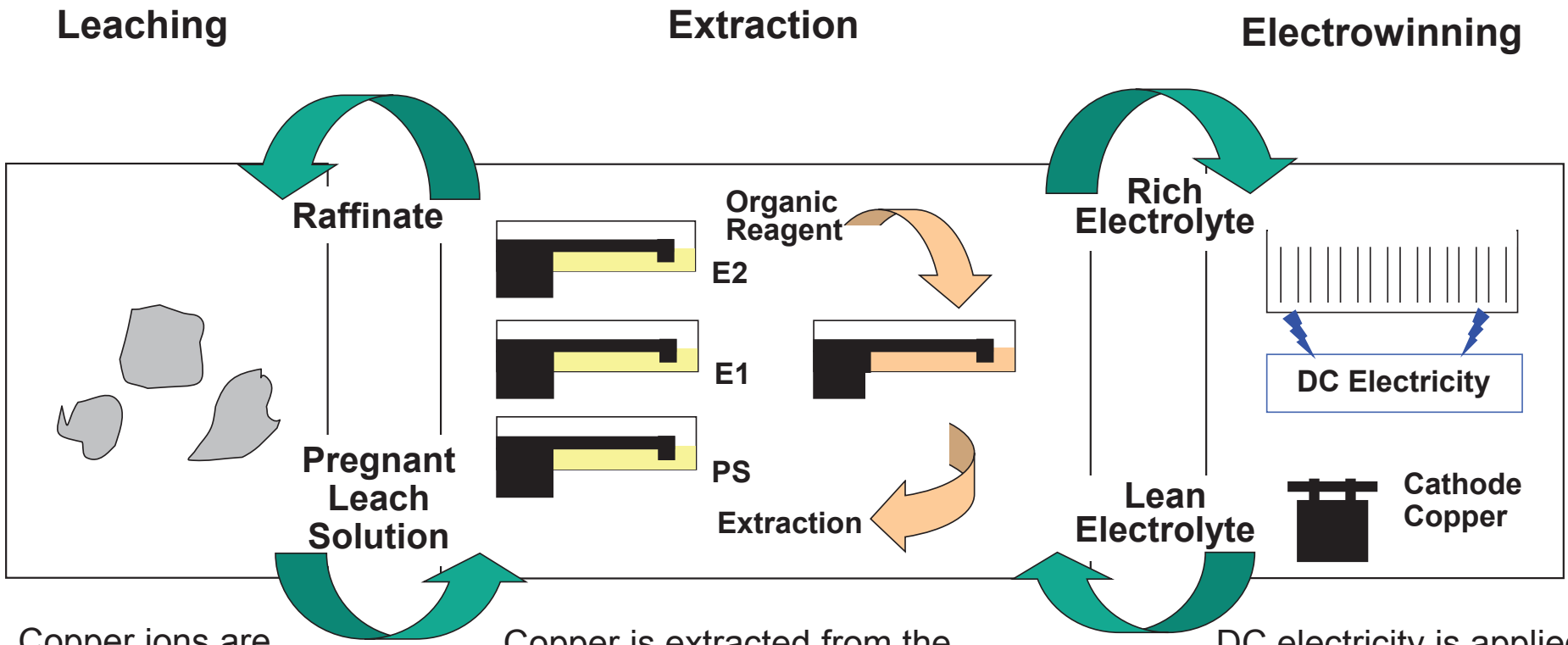
A process flow diagram for the facility is attached.

Freeport McMoRan Chino Mines Company
Process Flow Diagram



PLS: Pregnant Leach Solution
SX/EW: Solvent Extraction, Electrowinning Plant (dashed line)

Freeport McMoRan Chino Mines Company
Process Diagram



Copper ions are leached from the ore by the leach solution sprayed on the stockpiles.

Copper is extracted from the leach solution by an organic ion-exchange reagent. The copper is then stripped from the organic by the acidic electrolyte in the stripping stage.

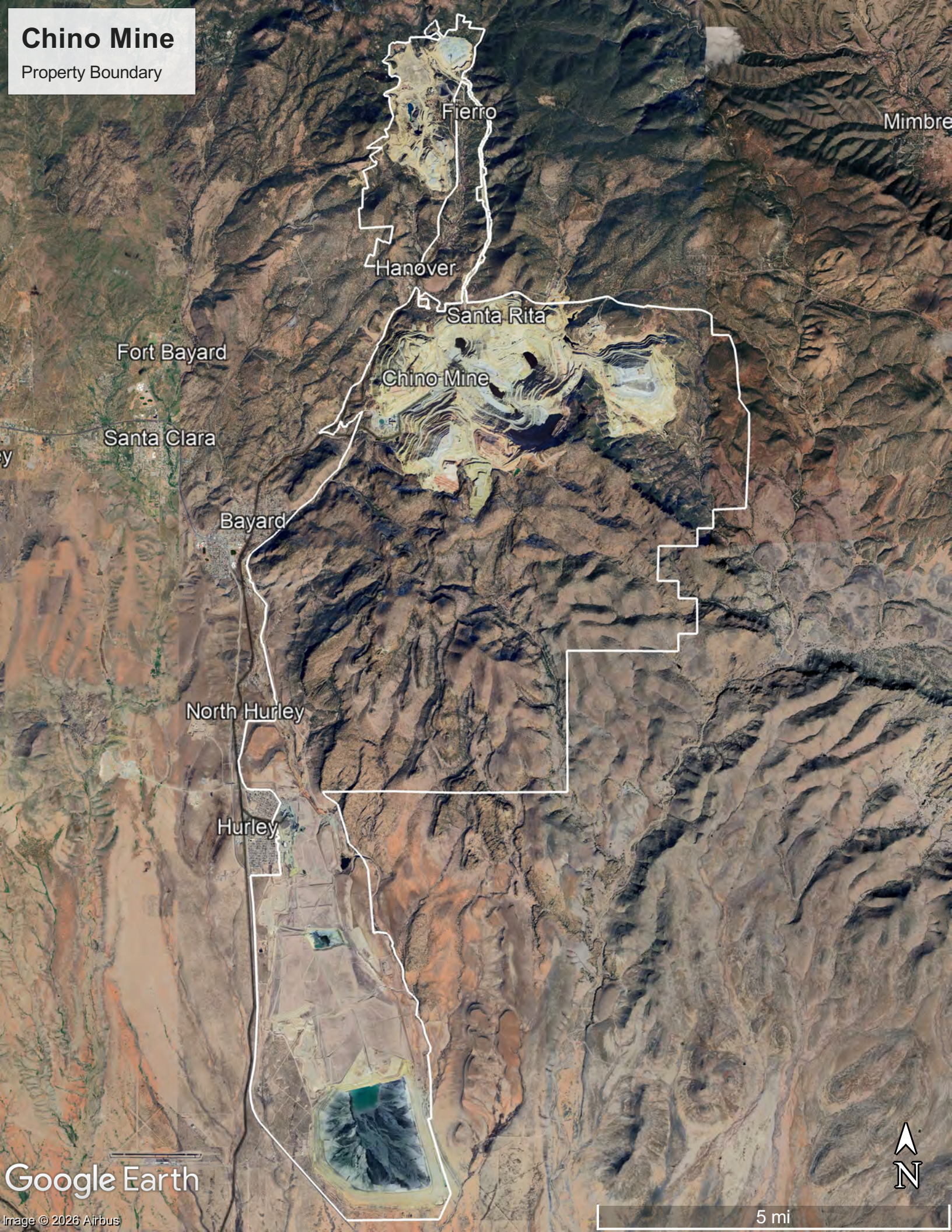
DC electricity is applied to the electrolyte, reducing the copper ions to copper metal, which is deposited on the cathode.

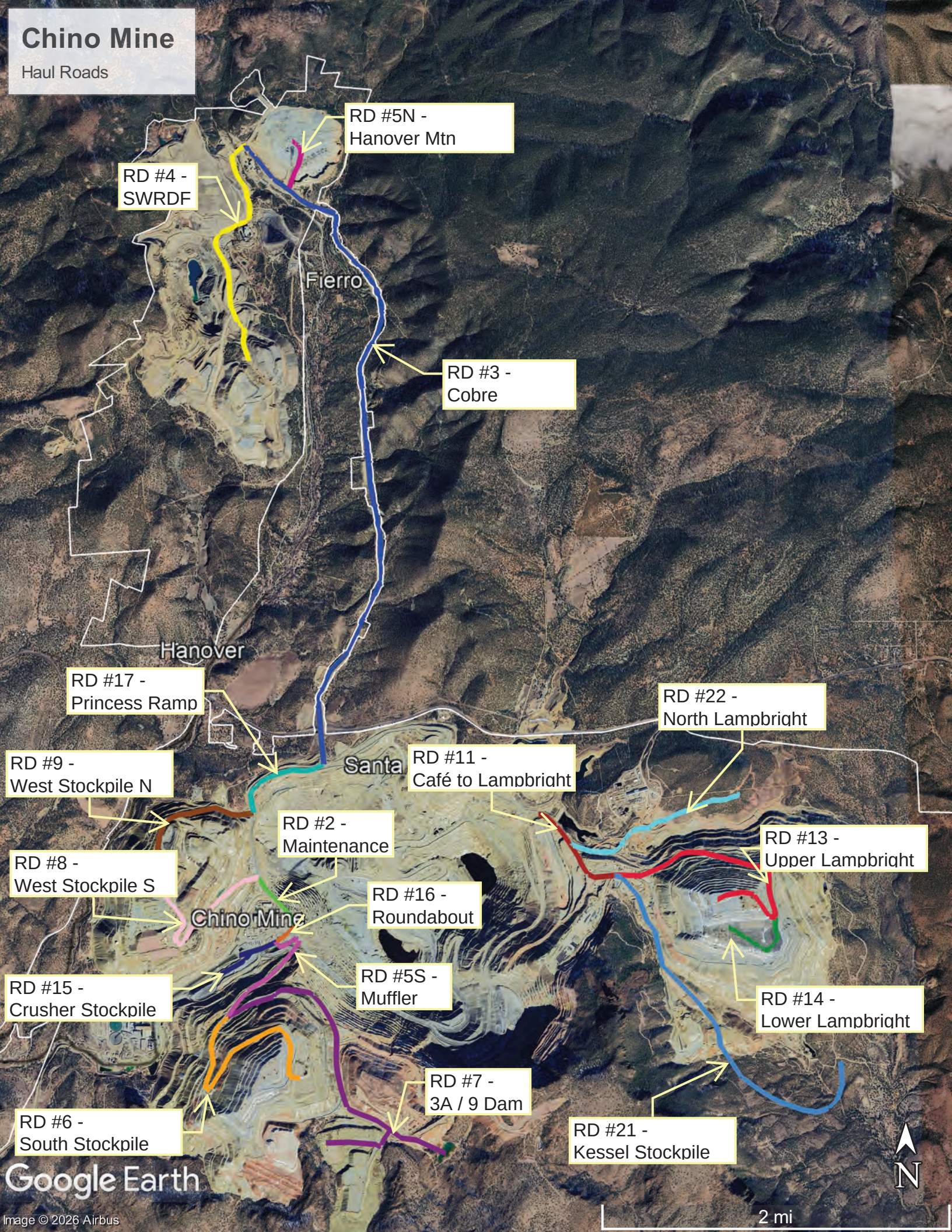
Section 5

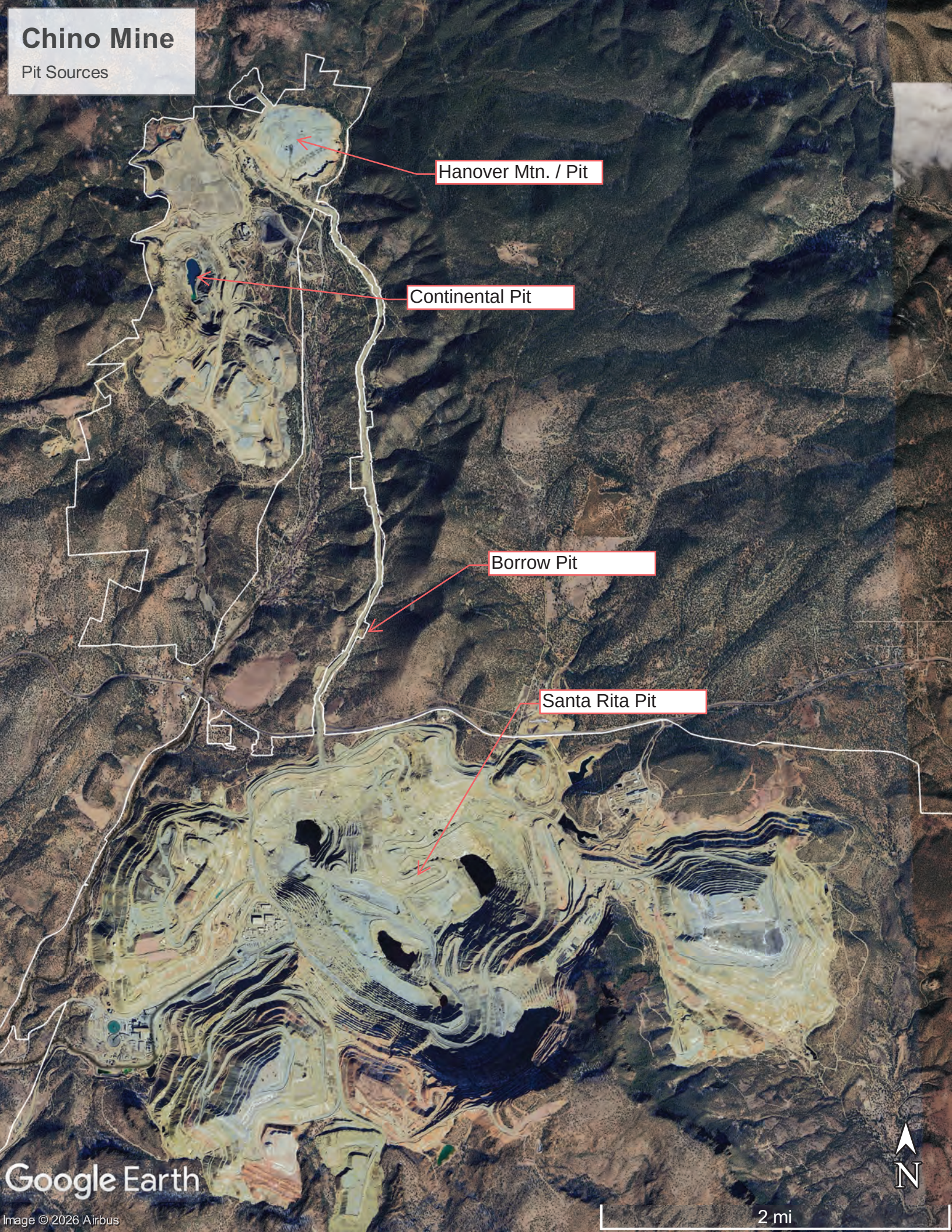
Plot Plan Drawn to Scale

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.

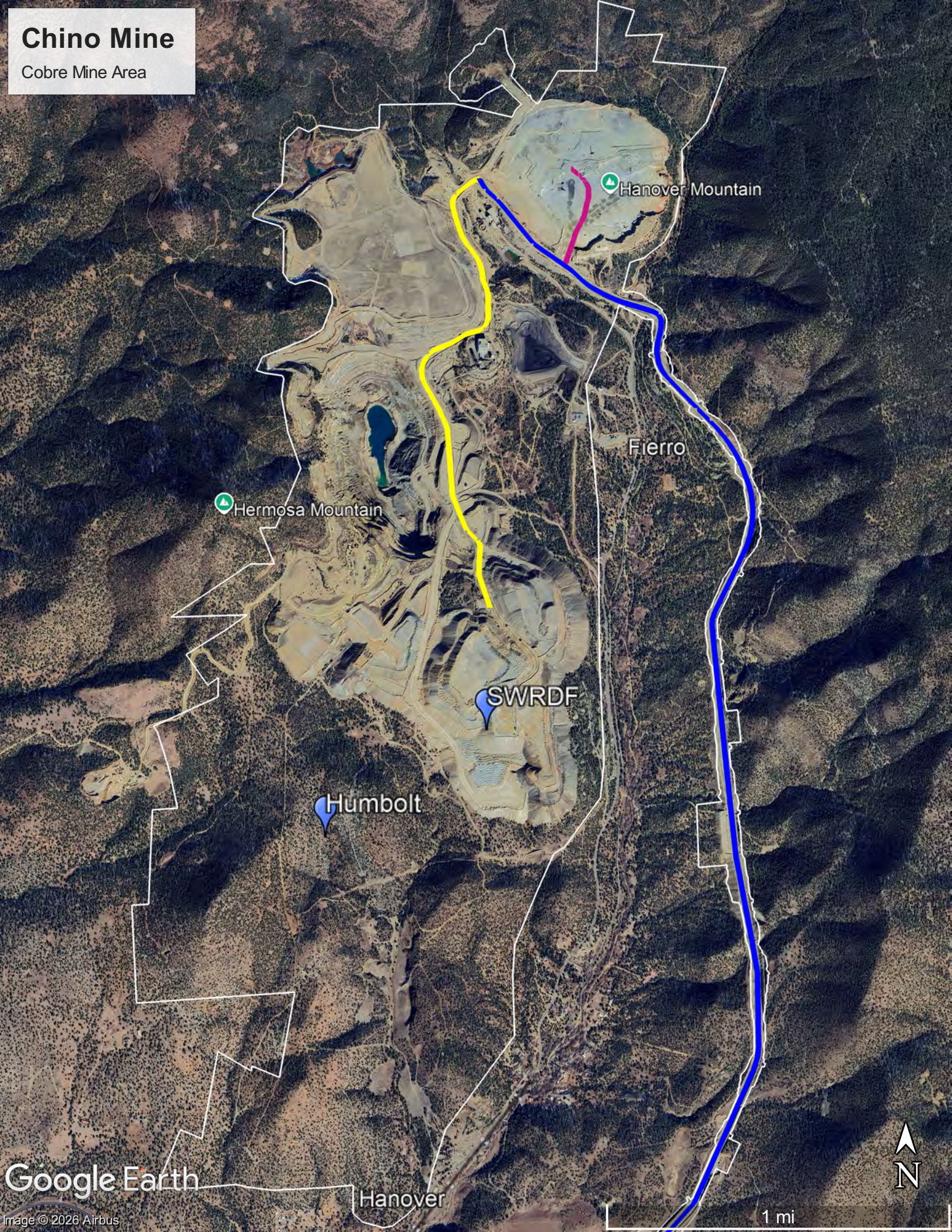
A plot plan of the facility is attached on the following pages.

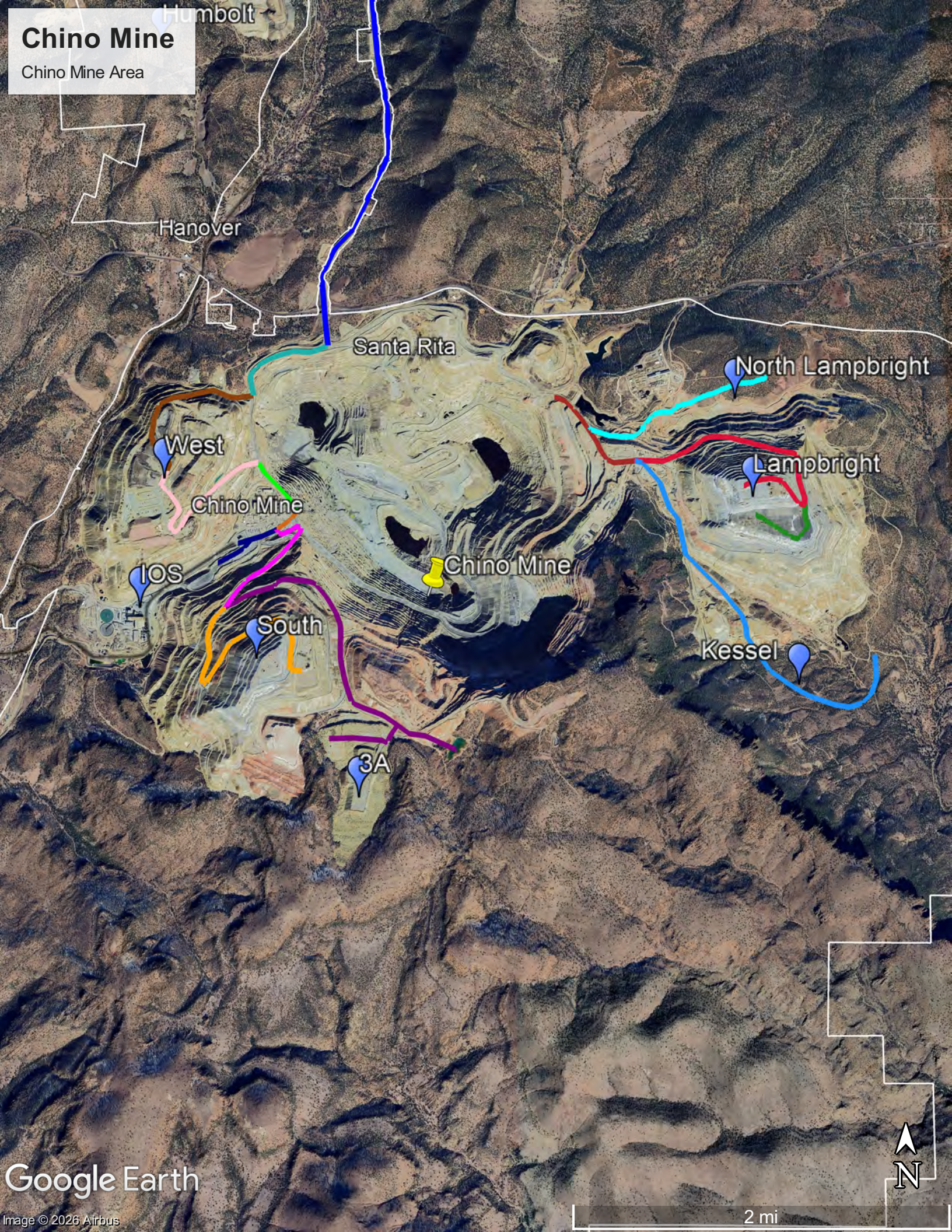

Chino Mine
Property Boundary
Fierro
Mimbre
Hanover
Santa Rita
Fort Bayard
Chino Mine
Santa Clara
Bayard
North Hurley
Hurley
Google Earth
Image © 2026 Airbus
N
5 mi


Chino Mine
Haul Roads
RD #5N - Hanover Mtn
RD #4 - SWRDF
Fierro
RD #3 - Cobre
Hanover
RD #17 - Princess Ramp
RD #22 - North Lampbright
RD #9 - West Stockpile N
Santa
RD #11 - Café to Lampbright
RD #2 - Maintenance
RD #13 - Upper Lampbright
RD #8 - West Stockpile S
RD #16 - Roundabout
Chino Mine
RD #5S - Muffler
RD #15 - Crusher Stockpile
RD #14 - Lower Lampbright
RD #7 - 3A / 9 Dam
RD #6 - South Stockpile
RD #21 - Kessel Stockpile
Google Earth
Image © 2026 Airbus
N
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Chino Mine
Pit Sources
Hanover Mtn. / Pit
Continental Pit
Borrow Pit
Santa Rita Pit
Google Earth
Image © 2026 Airbus
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Chino Mine
Stockpile Locations
SWRDF
Humbolt
North Lampbright
West
Lampbright
IOS
South
Kessel
3A
Google Earth
Image © 2026 Airbus
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Chino Mine
Cobre Mine Area
Hanover Mountain
Fierro
Hermosa Mountain
SWRDF
Humbolt
Hanover
Google Earth
Image © 2026 Airbus
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1 mi


Chino Mine
Chino Mine Area
Humbolt
Hanover
Santa Rita
North Lampbright
West
Lampbright
Chino Mine
Chino Mine
IOS
South
Kessel
3A
Google Earth
Image © 2026 Airbus
N
2 mi


Chino Mine
Filter Plant
Hurley
Power Plant
Tailings Pond 7
County Airport
Google Earth
Image © 2026 Airbus
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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.

Emergency Generators (Exempt pursuant to 20.2.72.202.B(3) NMAC)

Diesel Emergency Generators

To calculate the emissions from the diesel emergency generators, AP-42 Section 3.3 factors were used for calculating the emissions of CO, NO_X, SO_2, VOC, and PM. The HAP emissions were calculated using the diesel fuel usage. Since the units are considered emergency, the emissions are based on 500 hours per year. Greenhouse gas emissions were calculated using emission factors from Table C-1 and Table C-2 from Subpart C of 40 CFR 98. The global warming potentials used in the calculations came from 40 CFR Part 98, Subpart A, Table A-1.

Natural Gas Emergency Generator

To calculate the emissions from the natural gas emergency generator, AP-42 Section 3.2 factors for 4-stroke lean burn engines were used for calculating the emissions of CO, NO_X, SO_2, VOC, and PM. The HAP emissions were calculated using the natural gas fuel usage. Since the units are considered emergency, the emissions are based on 500 hours per year. Greenhouse gas emissions were calculated using emission factors from Table C-1 and Table C-2 from Subpart C of 40 CFR 98. The global warming potentials used in the calculations came from 40 CFR Part 98, Subpart A, Table A-1.

LPG Emergency Generators

To calculate the emissions from the LPG emergency generators, AP-42 Section 3.2 factors for 4-stroke lean burn engines were used for calculating the emissions of CO, NO_X, SO_2, VOC, and PM. For units West Tower and Cobre Tower, NO_X, CO, and VOC emission factors were taken from an EPA certificate of conformity. The HAP emissions were calculated using the natural gas fuel usage. Since the units are considered emergency, the emissions are based on 500 hours per year. Greenhouse gas emissions were calculated using emission factors from Table C-1 and Table C-2 from Subpart C of 40 CFR 98. The global warming potentials used in the calculations came from 40 CFR Part 98, Subpart A, Table A-1.

Tailings Impoundment

Tailings Impoundment (Units CB TLNGS & CM TLNGS)

Wind erosion emissions for the tailings impoundment are based on AP-42, Section 13.2.5, Industrial Wind Erosion (11/06). These emissions on based on the availability of erodible material, the wind speed threshold required to cause the material to become airborne, and how often new material is deposited on the area. Calculated emissions represent intermittent events that only occur when wind speeds are great enough to transport available materials. The emission rate is not a steady state event and decays rapidly to zero when erodible material is no longer available or when wind speeds are no longer great enough to transport material.

Haul Roads

Haul Roads (Units CBM HR & CM HR)

Haul road emissions were calculated using Equations 1a and 2 of AP-42 Section 13.2.2. The haul road inputs were based on projected production rates, average vehicle weights of all vehicles traveling the section of the haul road (includes haul trucks, support equipment, and light passenger vehicles), and estimated vehicle miles traveled required to move the ore and magnetite material. Average vehicle weight includes light passenger vehicles, support equipment, and industrial haul trucks. The haul road distances were estimated from Google earth satellite images. Additionally, the calculations were based on the assumption that the haul roads will be operating 24 hours a day, 7 days a week, and 365 days a year. The controlled emissions include emission reductions of 80%, 88.8%, and 96.8% based on the control factor used on each segment of the road. The emission reduction methods include blading, watering, speed limit reduction, and application of dust suppressants/dust binders. These control efficiencies are based on factors from the Western Regional Air Partnership (WRAP)

Fugitive Dust Handbook, published September 7, 2006. The modeling report in Section 16 contains detailed information on which portions of the roads are controlled and by what control efficiency. The haul roads were redrawn to account for the proposed mine operations. Additionally, several haul road section throughputs were increased to account for the increase in ore production and operations.

Material Handling

Cobre Haul Road Borrow Pit Material Handling (Unit BORR_MH)

Particulate emissions from material handling and unloading are all based on emission factors in AP-42, Chapter 11.19.2, Table 11.19.2-2 Crushed Stone Processing and Pulverized Mineral Processing (August 2004) for Truck Unloading - Fragmented Stone. The basis for these emission factors is the PM_{10} emission factor for truck unloading of fragmented stone in Table 11.19.2-2. This table provides a PM_{10} emission factor but does not provide $PM_{2.5}$ or PM emission factors. A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}$ / PM_{10} as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. An uncontrolled PM emission factor was calculated from the available uncontrolled PM_{10} emission factor using the PM/ PM_{10} ratio calculated from the following uncontrolled PM and PM_{10} emission factors in Table 11.19.2-2: Tertiary Crushing (0.0054/0.0024 = 2.25); Fines Crushing (0.0390/0.0150 = 2.60); Screening (0.025/0.0087 = 2.87; and Conveyor Transfer Point 0.0030/0.00110 = 2.73).

TAP emissions from material handling and loading operations of waste rock and leach rock were calculated by multiplying the PM emissions by the TAP content (%) in waste rock or leach rock. For conservative TAPs, emission estimations for material handling are based on the higher TAP % available for waste rock or leach rock.

Material Handling (Unit CBM MH)

Particulate emissions from magnetite handling, as well as material handling and unloading at Cobre are all based on emission factors in AP-42, Chapter 11.19.2, Table 11.19.2-2 Crushed Stone Processing and Pulverized Mineral Processing (August 2004) for Truck Unloading - Fragmented Stone. The basis for these emission factors is the PM_{10} emission factor for truck unloading of fragmented stone in Table 11.19.2-2. This table provides a PM_{10} emission factor but does not provide $PM_{2.5}$ or PM emission factors. A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}$ / PM_{10} as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. For loading and unloading at Cobre Mine, an uncontrolled PM emission factor was calculated from the available uncontrolled PM_{10} emission factor using the PM/ PM_{10} ratio calculated from the following uncontrolled PM and PM_{10} emission factors in Table 11.19.2-2: Tertiary Crushing (0.0054/0.0024 = 2.25); Fines Crushing (0.0390/0.0150 = 2.60); Screening (0.025/0.0087 = 2.87; and Conveyor Transfer Point 0.0030/0.00110 = 2.73).

TAP emissions from material handling and loading operations of waste rock and leach rock were calculated by multiplying the PM emissions by the TAP content (%) in waste rock or leach rock. For conservative TAPs, emission estimations for material handling are based on the higher TAP % available for waste rock or leach rock.

Material Handling (Unit CM MH)

Particulate emissions from material handling and unloading at Chino are all based on emission factors in AP-42, Chapter 11.19.2, Table 11.19.2-2 Crushed Stone Processing and Pulverized Mineral Processing (August 2004) for Truck Unloading - Fragmented Stone. The basis for these emission factors is the PM_{10} emission factor for truck unloading of fragmented stone in Table 11.19.2-2. This table provides a PM_{10} emission factor but does not provide $PM_{2.5}$ or PM emission factors. A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}$ / PM_{10} as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. An uncontrolled PM emission factor was calculated from the available uncontrolled PM_{10} emission factor using the PM/ PM_{10} ratio calculated from the following uncontrolled PM and PM_{10} emission factors in Table 11.19.2-2: Tertiary Crushing (0.0054/0.0024 = 2.25); Fines Crushing (0.0390/0.0150 = 2.60); Screening (0.025/0.0087 = 2.87; and Conveyor Transfer Point 0.0030/0.00110 = 2.73).

TAP emissions from material handling and loading operations of waste rock and leach rock were calculated by multiplying the PM emissions by the TAP content (%) in waste rock or leach rock. For conservative TAPs, emission estimations for material handling are based on the higher TAP % available for waste rock or leach rock.

Bulldozing and Grading

Dozing and Grading (BDZR, GRDR, BDZR TLNGS, & GRDR TLNGS)

PM emissions from BDZR, GRDR, BDZR TLNGS, and GRDR TLNGS are calculated using AP-42 Chapter 11.9, Table 11.9-1 methodology. The silt content is based on the NMED guidance document for Aggregate Handling, Storage Pile, and Haul Road Emissions. The mean vehicle speed for dozers is based on Table 11.9-3. Graders have a speed limit of 5 mph and can only travel up to 1 mile per hour. The moisture content of 7.8% is based on Table 11.9-3 and is taken as the geometric mean of the moisture correction factor for overburdened bulldozers. For mining operations, the maximum number of graders and dozers is 5 and 16, respectively, and will operate up to 8760 hr/yr. For tailings, the maximum number of graders and dozers is 2 and 7, respectively, and will only operate during the day (4380 hr/yr).

Blasting

Cobre Haul Road Borrow Pit Blasting (Unit BORR_BLST)

Particulate emissions resulting from blasting at Cobre Haul Road Borrow Pit were calculated using emissions factors from AP-42 Section 11, Table 11.9-1. NO_X emission factors are the average measurements from a "*NO_X Emissions from Blasting Operations in Open-Cut Coal Mining*" by Moetaz I. Attalla, Stuart J. Day, Tony Lange, William Lilley, and Scott Morgan (2008). CO emission factors are the average measurements from "*Factors Affecting Anfo Fumes Production" by James H. Rowland III and Richard Mainiero (2001)*. SO_2 emissions are based on a diesel sulfur content of 15 ppm, assuming a complete conversion of SO_2.

The calculation methodology used: The emission factor (lb/blast) is multiplied by the amount of blasting agent per day. This provides the total lb/day emission rate which is divided by the number of blasts per day. The lb/event emission rate is equal to the lb/hr emission rate since it is assumed only one blast would occur per hour. The maximum amount of blasting agent used at the proposed Borrow Pit is 119,700 pounds/day. The total amount of blasting agent is to be distributed into four smaller blasts consisting of 29,925 pounds of blasting agent/blast. The division of blasting agent is to be applied to the particulate emissions as well, which will result in four 25,000 ft^2 blasting areas.

Hanover Mountain Blasting (Unit CBM BLST)

Particulate emissions resulting from blasting at Hanover Mountain were calculated using emissions factors from AP-42 Section 11, Table 11.9-1. NO_X emission factors are the average measurements from a "*NO_X Emissions from Blasting Operations in Open-Cut Coal Mining*" by Moetaz I. Attalla, Stuart J. Day, Tony Lange, William Lilley, and Scott Morgan (2008). CO emission factors is the average measurements from "*Factors Affecting Anfo Fumes Production" by James H. Rowland III and Richard Mainiero (2001)*. SO_2 emissions are based on a diesel sulfur content of 15 ppm, assuming a complete conversion of SO_2.

The calculation methodology used: The emission factor (lb/blast) is multiplied by the amount of blasting agent per day. This provides the total lb/day emission rate which is divided by the number of blasts per day. The lb/event emission rate is equal to the lb/hr emission rate since it is assumed only one blast would occur per hour. The maximum amount of blasting agent used at Cobre Mine is 200,000 pounds/day with a maximum of 1 blast/day and a maximum blasting area of 124,800 ft^2/blast.

Chino Mine Blasting (Unit CM BLST)

Particulate emissions resulting from blasting at Santa Rita Pit were calculated using emissions factors from AP-42 Section 11, Table 11.9-1. NO_X emission factors is the average measurements from a "*NO_X Emissions from Blasting Operations in Open-Cut Coal Mining*" by Moetaz I. Attalla, Stuart J. Day, Tony Lange, William Lilley, and Scott Morgan (2008). CO emission factors is the average measurements from "*Factors Affecting Anfo Fumes Production" by James H. Rowland III and Richard Mainiero (2001)*. SO_2 emissions are based on a diesel sulfur content of 15 ppm, assuming a complete conversion of SO_2.

The calculation methodology used: The emission factor (lb/blast) is multiplied by the amount of blasting agent per day. This provides the total lb/day emission rate which is divided by the number of blasts per day. The lb/event emission rate is equal to the lb/hr emission rate since it is assumed only one blast would occur per hour. The maximum amount of blasting agent used at Chino Mine is 400,000 lb/day, and up to 380,000 lb/event, with a maximum of 2 blast/day and a maximum blasting area of 130,000 ft^2/blast.

Drilling

Cobre Mine and Chino Mine Drilling (Unit CBM DRILL & CM DRILL)
Particulate matter (PM) emissions were calculated using AP-42 Table 11.9-5 (7/98) for drilling of overburden at western surface coal mines. PM_{10} emission factors were based on the fraction of PM_{10} emissions (60%) for controlled tertiary crushing based on the PM_{30} and PM_{10} emission factors in AP-42 Table 11.19.2-2 and Figure 11.19-4. $PM_{2.5}$ emission factors were based on the fraction of $PM_{2.5}$ emissions (11.1%) for controlled tertiary crushing based on the PM_{30} and $PM_{2.5}$ emission factors in AP-42 Table 11.19.2-2 and Figure 11.19-4.

Hurley Power Plant

Gas Turbine (Unit F-2-1-1.4)
HAP emissions were calculated using AP-42 Chapter 3.1 Table 3.1-3 emission factors. The maximum hourly emissions rates for NO_x, CO, SO_2, VOC and PM were based on the allowed rates in air permits 376-M4 and P066-R3M1. The annual emissions rates are based on 8,760 annual operating hours. Greenhouse gas emissions are based on 40CFR 98 Table C-1, C-2, and Subpart A, Table A-1.

Steam Generator (Unit F-2-1-1.5)
Emissions are estimated from emission factors for boilers combusting natural gas. The rational for this is that the duct burner combustion process is better represented by boilers firing natural gas than by combustion turbines firing natural gas. Lead and HAP emission were calculated using AP-42 Chapter 1.4-2 and 1.4-3 emission factors. The maximum hourly emissions rates for NO_x, CO, SO_2, VOC and PM were based on the allowed rates in air permits 376-M4 and P066-R3M1. The annual emissions rates are based on 8,760 annual operating hours. Greenhouse gas emissions are based on 40CFR 98 Table C-1, C-2, and Subpart A, Table A-1.

Filter/Blending Plant

Filter/Blending Plant (Unit FLTR/BLND)
Emissions from the filter/blending plant were calculated using conveyor drop point emission factors which were calculated using Equation 1 of AP-42 Chapter 13.2.4 in “Aggregate Handling and Storage Piles” (11/2006). Emissions for front-end loaders were calculated using Front End Loader Emission Factors from AP-42 Table 11.24-2 in "Metallic Minerals Processing" for Material handling and transfer--all minerals except bauxite (01/1995). The throughput data used in the calculations was provided by Omar Picena of the Ivanhoe Concentrator and covered conveyor to Filter/Blending Plant. Filter/blending plant operations consist of three (3) scenarios: Scenario #1 consist of 6 conveyor drops (CV-01 through CV-06) plus one material handling step using a Cat 966 to load material from the Concentrate Storage pile into a rail car for shipping offsite; Scenario #2 consists of 3 conveyor drops (CV-01 through CV-03) plus two material handling steps for using a Cat 966 to load material from the Concentrate Storage pile into a rail car for shipping offsite and moving material from an emergency concentration storage pad to the concentrate storage pile; and Scenario #3 consist of 6 conveyor drops (CV-01 through CV-06) plus two material handling steps using a Cat 966 to load material from the Concentrate Storage pile into a rail car and semi-truck for shipping offsite.

Gasoline Dispensing Facilities

Gasoline Dispensing Facilities – Crusher, Mill, SXEW, Hurley, and Hamilton (Units GDF1 through GDF5)
Emissions from GDF1 through GDF5 were calculated using AP-42 Chapter 7.1 methodology for fixed roof vertical and horizontal tanks. Hourly and annual emissions are based on motor gasoline RVP 13 of which the density, molecular weight, and vapor pressure constant was obtained from Table 7.1-2. Working and standing VOC losses were calculated using equations 1-37 and 1-4, respectively. Vapor pressures were calculated using equation 1-27, with the average atmospheric pressure (P_A) for Gallup, NM taken from Table 7.1-7. Total HAP mass fractions are based on the average percent content of the individual HAP constituent obtained from a typical material safety data sheet (MSDS) for gasoline.

Ivanhoe Concentrator

Enclosed Ore Transfer Point (Unit CV-01C)
Emission factors for Enclosed Ore Transfer Point were obtained from AP-42 Table 11.19.2-2, conveyor transfer point emission factors for Crushed Stone Processing and Pulverized Mineral Processing (8/04). A $PM_{2.5}$ emission factor was calculated from

the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4: Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate HAP and TAP emissions.

Ivanhoe Concentrators (Units LHS-01 and LUS-01)
Emissions were calculated using emission factors from Table 11.17-4 of AP-42 Section 11.17, emission factors for lime handling raw material and product processing and handling, product transfer and conveying (2/98). It is assumed all PM_{10} is equivalent to PM. A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42: Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006.

Ivanhoe Concentrator Crusher Dump (Unit PC DUMP)
PM emissions were calculated using emission factors obtained from AP-42 Chapter 11, Table 11.19-2.2. The emission factor used for $PM_{2.5}$ emissions was established using the ratio of $PM_{2.5}$ to PM_{10} as recommended in the Background Document for AP-42 Chapter 13.2.4, Revisions to Fine Fraction Ratios used for AP-42 Fugitive Dust Emission Factors – November 2006. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate HAP and TAP emissions.

Ivanhoe Concentrator Primary Crusher Baghouse Emissions (Unit PC-01)
Emissions were calculated using AP-42 Chapter 11, Table 11.19-2.2. Per subnote "n" of Table 11.19-2.2, "emission factors for PM_{10} for tertiary crushers can be used as an upper limit for primary or secondary crushing because there is no data available." The same emission factor was also conservatively used for $PM_{2.5}$. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate HAP and TAP emissions.

Emissions from the primary crusher are controlled by a dust collector with a 99.7% vendor guarantee and a 6.0 gr/scf inlet loading.

Ivanhoe Intermediate Ore Stockpile (IOS)
PM emission factors were calculated using AP-42 Fourth Edition Chapter 11.2.3.1 (5/83) equation 3 with a particle size multiplier from AP-42, page 13.2.5-3. The silt content of aggregate was taken from the NMED document "Department Accepted Values for: Aggregate Handling, Storage Pile, and Haul Road Emissions." The number of days with greater than or equal to 0.25 in of precipitation and percent time of unobstructed wind speed was collected from the 2020-2024 precipitation and wind speed data from the South Stockpile Met Station, the closest on-site weather station to the intermediate ore stockpile on site at the Chino Mine. PM emissions were calculated by multiplying the emission factor and the erodible surface area. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate HAP and TAP emissions.

SAG Mill Conveyor No.1 & SAG Mill Conveyor No.2 (Units SAG-F1 & SAG-F2)
Emission factors for the SAG Mill Conveyors were obtained from Table 11.19.2-2 of EPA AP-42, conveyor transfer point emission factors for Crushed Stone Processing and Pulverized Mineral Processing (8/04). A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate HAP and TAP emissions.

Stacker Conveyor Drop Point (Unit SCDP)
Emission factors for the Stacker Conveyor Drop Point were obtained using emission factors calculated from AP-42 Chapter 13.2.4 "Aggregate Handling and Storage Piles" (11/2006). The values of U and M are the mean of Ranges of Source Conditions for Equation 1 listed in the chapter. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate HAP and TAP emissions.

Underground SAG Tunnel and Baghouse (Unit SAG)
Uncontrolled PM emission factors were obtained from AP-42 Table 11.19-2-2 for conveyor transfer points. Controlled PM emissions at the outlet of the baghouse are calculated using the manufacturer guaranteed exit grain loading (gr/dscf) and minimum design exit flow rate. PM was conservatively assumed to be equivalent to PM_{10} and $PM_{2.5}$. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate HAP and TAP emissions.

Mill Floatation (Unit: FLOAT)
Emissions were calculated based on the annual maximum 2022-2025 monthly inventory of reagent usage with a 25% safety factor. VOC emissions were calculated using an emission factor obtained from an October 2009 study of the Henderson Mill. HAP and TAP emissions were calculated using weight percents of the pollutant specified in each reagent's MSDS sheet.

Recycle Crushing and Baghouse (RC-01)
Emissions were calculated using AP-42 Chapter 11, Table 11.19-2.2. Per subnote "n" of Table 11.19-2.2, "emission factors for PM_{10} for tertiary crushers can be used as an upper limit for primary or secondary crushing because there is no data available." The same emission factor was also conservatively used for $PM_{2.5}$. Controlled PM emissions at the outlet of the baghouse are calculated using the manufacturer guarantee of 99.0% reduction. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate HAP and TAP emissions.

Screening Plant

Cobre Screening Plant (Units CB SCRN)
Material handling PM emission factors are based on the Drop Equation in AP-42, Section 13.2.4. Screening PM, PM_{10}, and $PM_{2.5}$ uncontrolled and controlled emission factors are taken from AP-42, Chapter 11.19: Crushed Stone Processing and Pulverized Mineral Processing, Table 11.19.2-2: Screening. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate controlled HAP and TAP emissions.

Cobre Screening Plant Engine (Unit CB SCRN ENG)
CO and NO_X emission factors were obtained from NSPS, Tier 3 emission standards for stationary compression ignition (CI) internal combustion engines (ICE) (40 CFR 60.4202-ref. 89.112, Table 1). VOC, $PM/PM_{10}/PM_{2.5}$, and SO_2 emission factors were obtained from uncontrolled diesel industrial engines present in Table 3.3-1, USEPA AP-42 Section 3.3 "Gasoline and Diesel Industrial Engines" (10/96). HAPs and TAP emission factors were obtained from AP-42 Table 3.3-2. Greenhouse gas emissions are based on 40CFR 98 Table C-1, C-2, and Subpart A, Table A-1.

Solvent Extraction/Electrowinning (SX/EW) Plant

SXEW Plant Eight Mixer/Settler Tanks (Unit SXEW 8MST)
The calculations were based on the BHP Copper VOC study which was conducted in 1997. The total HAPs molecular weight was obtained by determining the average of total HAP constituents within the product. The constituent diffusivity comes from EPA reference link for Estimated Diffusion Coefficients in Air and Water. The constituent concentration at liquid surface comes from the manufacturer data. The constituent concentration at 0.61 meter, ppm is assumed to be the same as BHP's measured concentrations. Based on the number of tanks and the area of each tank the emissions were calculated for each chemical product.

SXEW Boilers (Units SXEW Boiler No. 1 through SXEW Boiler No. 3)
Emissions were calculated based on the emission factors for commercial boilers presented in AP-42 Section 1.5, Table 1.5-1. There is no guidance in AP-42 Section 1.5 for HAP/TAP emissions from liquefied petroleum gas combustion. Filterable PM is the PM collected on or prior to the filter of an EPA Method 5 sampling train. For liquefied petroleum gas combustion, all PM is less than 10 micrograms.

SXEW Plant Raffinate Tank (Units SXEW RT)
The calculations were based on the BHP Copper VOC study which was conducted in 1997. The total HAPs molecular weight was obtained by determining the average of total HAP constituents within the product. The constituent diffusivity comes from EPA reference link for Estimated Diffusion Coefficients in Air and Water. The constituent concentration at liquid surface comes from the manufacturer data. The constituent concentration at 0.61-meter, ppm is assumed to be the same as BHP's measured concentrations. Based on the number of tanks and the area of each tank the emissions were calculated for each chemical product.

SXEW Plant Acid Tank House (Units SXEW SAT)
The calculation methodology for emissions from the Solvent extraction and electrowinning (SXEW) Plant Acid Tank House is as previously permitted. Emissions are estimated based on methodology in the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 2001 Fundamentals Handbook. The wind speed is parameter is estimated at 10 mph

based on recent on-site meteorological data gathered by Chino Mine. The Plant Acid Tank House will not change with this permit application.

White House Crusher and Screening Plant

White House Crushing and Screening Plant (Unit WH Crush)

The White House Crusher Plant will facilitate the production of aggregate and road base material. The White House Crusher Plant consists of two (2) stone crushers, nine (9) conveyor systems, and two (2) screens.

The screening emission factors for PM and PM_{10} are based on USEPA AP-42 11.19-2.2 Emission factors for Crushed Stone Processing. The $PM_{2.5}$ emission factor was calculated from the PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in Background Document for AP-42, Chapter 13.2.4 Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. The TAP emissions for screening operations were calculated by multiplying the PM emissions by the Ore TAP content (%).

Emission factors for the nine (9) conveyor systems are based from Table 11.19.2-2 of USEPA AP-42, conveyor transfer point emission factors for Crushed Stone Processing and Pulverized Mineral Processing (8/04). A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. The TAP emissions for screening operations were calculated by multiplying the PM emissions by the Ore TAP content (%).

Emission factors for the Conveyor Drop Point were obtained from Table 11.19.2-2 of USEPA AP-42, conveyor transfer point emission factors for Crushed Stone Processing and Pulverized Mineral Processing (8/04). A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4: Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. The TAP emissions for screening operations were calculated by multiplying the PM emissions by the Ore TAP content (%).

Emission factors for the two stone crushers are based from AP-42 Table 11.19-2.2. of USEPA AP-42 Emission factors for Crushed Stone Processing and Pulverized Mineral Processing (8/04). According to AP-42 Table 11.19.2-2 sub note "n" Emission factors for PM_{10} for tertiary crushers equals $PM_{2.5}$ for tertiary crushers, according to AP-42 Table 11.19.2-2 sub note “n”. The percent content of HAP and TAP in ore from Chino 2024 TRI data was used to calculate HAP and TAP emissions.

Evaporators

Evaporators (EVAP1 through EVAP4)

PM emissions from the Minetek evaporators are determined by using the results from a study done by Trinity Consultants for Griffith Energy Power Plant (GEPP). The emission rates obtained through this study can be scaled to similar evaporators using volumetric throughputs and total dissolved solids contents by assuming the evaporation rates and droplet size distributions are similar. The assumed control rate (70%) for pit side walls was obtained from the paper “Surface Mine Pit Retention” published by Clifford F. Cole and Allan J. Fabrick in the *Journal of the Air Pollution Control Association*. PM emissions were adjusted using the Riesman Frisbie methodology from “Calculating Realistic PM_{10} Emissions from Cooling Towers.” TAP and HAP emissions were calculated based on samples collected from Estrella Pit Lake and analyzed for metals in 2023.

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)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Facility Summary

Grouping	SOURCE		UNCONTROLLED EMISSIONS							
			NO_x		CO		VOC		SO_2	
			lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Emergency Engine Summary[2]	EE5	SXEW Emergency Fire Pump	6.51	1.63	1.40	0.35	0.52	0.13	2.24E-03	5.59E-04
	Sxlpwrprm8	20 Dam Hanover	8.91	2.23	1.92	0.48	0.71	0.18	3.06E-03	7.65E-04
	Sxlpwrprm5	11 Dam Hanover	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04
	Sxlgdwn1	10 Dam Hanover	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04
	Sxlpwrprm4	14 Dam Hanover	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04
	Sxlpwrprm2	Spare	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04
	Sxlpwrprm3	Dam 11	6.22	1.56	1.34	0.34	0.49	0.12	2.14E-03	5.34E-04
	Sxlpwrprm7	Dam 13	4.05	1.01	0.87	0.22	0.32	0.080	1.39E-03	3.48E-04
	Cummins Generator/1823	South Side Tailing office	1.42	0.36	0.31	0.077	0.11	0.028	4.89E-04	1.22E-04
	DEUTZ	Groundhog	3.95	0.99	0.85	0.21	0.31	0.078	1.36E-03	3.39E-04
	FWP01	Concentrator Fire Emergency Pump	6.14	1.53	1.32	0.33	0.49	0.12	2.11E-03	5.27E-04
	GENERAC1	MIS Building	3.04	0.76	0.24	0.059	0.088	0.022	4.38E-04	1.09E-04
	GENERAC2	SX-EW Tankhouse	2.05	0.51	0.16	0.040	0.059	0.015	2.96E-04	7.39E-05
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	0.44	0.11	0.034	8.53E-03	0.013	3.17E-03	6.33E-05	1.58E-05
	CAT5	Santa Rita Tower	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04
	CAT6	Nun Complex Communication Station	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04
	GENERAC8	Santa Rita Tower	2.72	0.68	0.21	0.053	0.079	0.020	3.93E-04	9.82E-05
	Elliot Magnetek	Mine Warehouse	0.73	0.18	0.057	0.014	0.021	5.31E-03	1.06E-04	2.65E-05
	RT-1	Radio Tower Emergency Engine CAT DG50-2	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04
	RT-2	Radio Tower Emergency Engine CAT DG50-2	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04
	RT-3	North Lampbright Radio Tower Emergency Generator	0.15	0.037	0.30	0.074	0.10	0.026	4.27E-04	1.07E-04
Tailing Summary	CB TLNGS	Cobre Mine Tailings	-	-	-	-	-	-	-	-
	CM TLNGS	Chino Mine Tailings	-	-	-	-	-	-	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover/Continental Hauling)	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Borrow Pit Material Handling	-	-	-	-	-	-	-	-
	CBM MH	Cobre Mine Material Handling (Hanover/Continental Mining, Magnetite Handling)	-	-	-	-	-	-	-	-
	CM MH	Chino Mine Material Handling	-	-	-	-	-	-	-	-
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Borrow Pit Blasting	*	0.054	*	1.22	-	-	*	1.08E-04
	CBM BLST	Cobre Mine Hanover/Continental Blasting	*	23.40	*	528.32	-	-	*	0.047
	CM BLST	Chino Mine Blasting	*	46.80	*	1,056.64	-	-	*	0.094
Drilling Summary	CBM DRILL	Hanover/Continental Mine Drilling	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	39.90	174.76	20.00	87.60	2.80	12.26	0.40	1.75
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	2.40	10.51	1.30	5.69	0.60	2.63	0.030	0.13
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	0.92	4.04	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	0.50	2.20	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	0.11	0.50	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	0.60	2.61	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	0.24	1.07	-	-
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	-	-	-	-	-	-	-	-
	LHS-01 (IC-06)	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	-	-	-	-	-	-	-	-
	PC-01	Primary Crusher and Baghouse	-	-	-	-	-	-	-	-
	IOS	Wind Erosion of IOS	-	-	-	-	-	-	-	-
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	-	-	-	-	-	-	-	-
	SCDP	Stacker Conveyor	-	-	-	-	-	-	-	-
	SAG	Underground SAG Mill Tunnel	-	-	-	-	-	-	-	-
	FLOAT	Sag Mill Floatation	-	-	-	-	0.66	2.87	-	-
	RC-01	Recycle Crusher and Baghouse	-	-	-	-	-	-	-	-
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	-	-	-	-	-	-	-	-
	CB SCRN ENG	Cobre Screening Plant Engine	1.16	2.53	1.02	2.22	0.50	1.10	0.42	0.91
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	-	-	0.33	1.44	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	0.032
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	0.032
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	0.20	0.87	0.11	0.50	0.015	0.067	8.11E-03	0.036
	SXEW RT	SXEW Plant Raffinate Tank	-	-	-	-	0.033	0.14	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	-	-	-	-	-	-	-	-
Evaporator Summary	EVAP1	Evaporator System	-	-	-	-	-	-	-	-
	EVAP2	Evaporator System	-	-	-	-	-	-	-	-
	EVAP3	Evaporator System	-	-	-	-	-	-	-	-
	EVAP4	Evaporator System	-	-	-	-	-	-	-	-
	TOTAL - Fugitive & Non-fugitive sources		**44.01**	**260.49**	**22.64**	**1,683.10**	**7.34**	**31.06**	**0.87**	**3.04**
	TOTAL - Non-fugitive sources		**44.01**	**190.24**	**22.64**	**96.92**	**3.95**	**16.18**	**0.87**	**2.90**

(-) Indicates no known emissions

(*) Indicates an hourly emission rate is not appropriate for this emission source

[1] Unit FLTR/BLND includes emissions from units CV-01-53, CV-02-53, CV-03, CV-04, CV-05, CV-06, and F-1-3-2

[2] Emergency Engines are not included in the Emissions Total since they are exempt under 20.2.72.202.B(3).

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Facility Summary

Grouping	SOURCE		UNCONTROLLED EMISSIONS							
			PM		PM_{10}		$PM_{2.5}$		Lead	
			lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Emergency Engine Summary[2]	EE5	SXEW Emergency Fire Pump	0.46	0.11	0.46	0.11	0.46	0.11	-	-
	Sxlpwrprm8	20 Dam Hanover	0.63	0.16	0.63	0.16	0.63	0.16	-	-
	Sxlpwrprm5	11 Dam Hanover	0.52	0.13	0.52	0.13	0.52	0.13	-	-
	Sxlgdwn1	10 Dam Hanover	0.70	0.18	0.70	0.18	0.70	0.18	-	-
	Sxlpwrprm4	14 Dam Hanover	0.52	0.13	0.52	0.13	0.52	0.13	-	-
	Sxlpwrprm2	Spare	0.70	0.18	0.70	0.18	0.70	0.18	-	-
	Sxlpwrprm3	Dam 11	0.44	0.11	0.44	0.11	0.44	0.11	-	-
	Sxlpwrprm7	Dam 13	0.28	0.071	0.28	0.071	0.28	0.071	-	-
	Cummins Generator/1823	South Side Tailing office	0.10	0.025	0.10	0.025	0.10	0.025	-	-
	DEUTZ	Groundhog	0.28	0.069	0.28	0.069	0.28	0.069	-	-
	FWP01	Concentrator Fire Emergency Pump	0.43	0.11	0.43	0.11	0.43	0.11	-	-
	GENERAC1	MIS Building	7.38E-03	1.84E-03	5.74E-05	1.44E-05	5.74E-05	1.44E-05	-	-
	GENERAC2	SX-EW Tankhouse	4.98E-03	1.25E-03	3.88E-05	9.69E-06	3.88E-05	9.69E-06	-	-
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	1.07E-03	2.67E-04	8.30E-06	2.07E-06	8.30E-06	2.07E-06	-	-
	CAT5	Santa Rita Tower	7.20E-03	1.80E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-
	CAT6	Nun Complex Communication Station	7.20E-03	1.80E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-
	GENERAC8	Santa Rita Tower	6.62E-03	1.65E-03	5.15E-05	1.29E-05	5.15E-05	1.29E-05	-	-
	Elliot Magnetek	Mine Warehouse	1.78E-03	4.46E-04	1.39E-05	3.47E-06	1.39E-05	3.47E-06	-	-
	RT-1	Radio Tower Emergency Engine CAT DG50-2	7.18E-03	1.79E-03	5.58E-05	1.40E-05	5.58E-05	1.40E-05	-	-
	RT-2	Radio Tower Emergency Engine CAT DG50-2	7.18E-03	1.79E-03	5.58E-05	1.40E-05	5.58E-05	1.40E-05	-	-
	RT-3	North Lampbright Radio Tower Emergency Generator	7.18E-03	1.79E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-
Tailing Summary	CB TLNGS	Cobre Mine Tailings	0.27	1.17	0.13	0.59	0.020	0.088	2.38E-07	1.04E-06
	CM TLNGS	Chino Mine Tailings	56.60	511.94	58.44	255.97	8.77	38.40	5.03E-05	4.55E-04
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover/Continental Hauling)	1,498.09	7,595.32	381.81	1,935.77	38.18	193.58	-	-
	CM HR	Chino Mine Haul Roads	12,950.69	97,630.89	3,237.01	24,654.92	323.70	2,465.49	-	-
Material Handling Summary	BORR MH	Borrow Pit Material Handling	3.34E-03	0.015	1.28E-03	5.60E-03	1.92E-04	8.40E-04	7.27E-08	3.19E-07
	CBM MH	Cobre Mine Material Handling (Hanover/Continental Mining, Magnetite Handling)	0.39	1.60	0.15	0.61	0.022	0.092	7.62E-06	2.33E-05
	CM MH	Chino Mine Material Handling	3.97	17.39	1.52	6.66	0.23	1.00	7.62E-06	2.33E-05
Bulldozing and Grading	BDZR	Bulldozing	48.44	212.17	8.30	36.35	5.09	22.28	-	-
	GRDR	Grading	11.18	48.97	3.83	16.75	0.35	1.52	-	-
	BDZR TLNGS	Tailings Bulldozing	17.85	39.08	3.06	6.70	1.87	4.10	-	-
	GRDR TLNGS	Tailings Grading	4.47	9.79	1.53	3.35	0.14	0.30	-	-
Blasting Summary	BORR BLST	Borrow Pit Blasting	*	0.11	*	0.058	*	3.32E-03	1.74E-03	3.48E-06
	CBM BLST	Cobre Mine Hanover/Continental Blasting	*	80.24	*	41.73	*	2.41	0.019	2.52E-03
	CM BLST	Chino Mine Blasting	*	170.61	*	88.72	*	5.12	0.021	5.36E-03
Drilling Summary	CBM DRILL	Hanover/Continental Mine Drilling	11.70	5.47	7.02	3.28	1.26	0.59	-	-
	CM DRILL	Chino Mine Drilling	13.00	15.01	7.80	9.01	1.40	1.62	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	2.30	10.07	2.30	10.07	2.30	10.07	-	-
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	0.30	1.31	0.30	1.31	0.30	1.31	2.39E-05	1.05E-04
	FLTR/BLND[1]	Filter/Blending Plant	5.76	9.03	2.31	3.64	2.29	3.49	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	-	-	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	-	-	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	-	-	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	-	-	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	-	-	-	-
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	1.51	6.62	0.55	2.43	0.083	0.36	7.16E-06	9.49E-06
	LHS-01 (IC-06)	Ivanhoe Concentrator Lime Handling System	22.00	51.07	22.00	51.07	3.30	7.66	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	119.94	51.07	119.94	51.07	17.99	7.66	-	-
	PC DUMP	Primary Crusher Dump Pocket	0.14	0.62	0.054	0.24	8.06E-03	0.035	6.65E-07	2.91E-06
	PC-01	Primary Crusher and Baghouse	17.82	78.05	7.92	34.69	7.92	34.69	8.44E-05	3.69E-04
	IOS	Wind Erosion of IOS	0.059	0.26	0.029	0.13	4.42E-03	0.019	2.79E-05	1.22E-04
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	1.49	6.62	0.54	2.43	0.082	0.36	7.03E-06	3.13E-05
	SCDP	Stacker Conveyor	0.46	2.01	0.22	0.95	0.033	0.14	2.17E-06	9.49E-06
	SAG	Underground SAG Mill Tunnel	9.90	43.36	3.63	15.90	0.54	2.38	4.69E-05	2.05E-04
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-
	RC-01	Recycle Crusher and Baghouse	3.11	13.60	1.38	6.04	1.38	6.04	1.47E-05	6.44E-05
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	13.73	30.06	5.09	11.14	0.76	1.67	6.50E-05	1.42E-04
	CB SCRN ENG	Cobre Screening Plant Engine	0.45	0.98	0.45	0.98	0.45	0.98	-	-
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	9.60E-03	0.042	9.60E-03	0.042	9.60E-03	0.042	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	9.60E-03	0.042	9.60E-03	0.042	9.60E-03	0.042	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	0.011	0.047	0.011	0.047	0.011	0.047	-	-
	SXEW RT	SXEW Plant Raffinate Tank	-	-	-	-	-	-	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	2.28	10.00	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	78.53	171.99	34.48	75.51	6.20	13.57	3.72E-04	8.14E-04
Evaporator Summary	EVAP1	Evaporator System	1.66	7.26	0.43	1.86	0.32	1.42	8.58E-07	5.41E-05
	EVAP2	Evaporator System	1.66	7.26	0.43	1.86	0.32	1.42	8.58E-07	5.41E-05
	EVAP3	Evaporator System	1.66	7.26	0.43	1.86	0.32	1.42	8.58E-07	5.41E-05
	EVAP4	Evaporator System	1.66	7.26	0.43	1.86	0.32	1.42	8.58E-07	5.41E-05
		TOTAL - Fugitive & Non-fugitive sources	**14,900.80**	**106,845.69**	**3,915.80**	**27,345.64**	**426.00**	**2,832.87**	**0.042**	**0.010**
		TOTAL - Non-fugitive sources	**3.08**	**12.50**	**3.08**	**12.50**	**3.08**	**12.50**	**2.39E-05**	**1.05E-04**

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Facility Summary

Grouping	SOURCE		UNCONTROLLED EMISSIONS							
			Total HAPs		Formaldehyde		CO_2e	CO_2	N_2O	CH_4
			lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
Emergency Engine Summary[2]	EE5	SXEW Emergency Fire Pump	5.54E-03	1.38E-03	1.74E-03	4.35E-04	54.75	54.57	4.43E-04	2.21E-03
	Sxlpwrprm8	20 Dam Hanover	7.58E-03	1.89E-03	2.38E-03	5.96E-04	74.97	74.72	6.06E-04	3.03E-03
	Sxlpwrprm5	11 Dam Hanover	6.27E-03	1.57E-03	1.97E-03	4.93E-04	62.00	61.80	5.01E-04	2.51E-03
	Sxlgdwn1	10 Dam Hanover	8.47E-03	2.12E-03	2.66E-03	6.66E-04	83.78	83.51	6.77E-04	3.39E-03
	Sxlpwrprm4	14 Dam Hanover	6.27E-03	1.57E-03	1.97E-03	4.93E-04	62.00	61.80	5.01E-04	2.51E-03
	Sxlpwrprm2	Spare	8.47E-03	2.12E-03	2.66E-03	6.66E-04	83.78	83.51	6.77E-04	3.39E-03
	Sxlpwrprm3	Dam 11	5.29E-03	1.32E-03	1.67E-03	4.16E-04	52.35	52.18	4.23E-04	2.12E-03
	Sxlpwrprm7	Dam 13	3.44E-03	8.61E-04	1.08E-03	2.71E-04	34.06	33.94	2.75E-04	1.38E-03
	Cummins Generator/1823	South Side Tailing office	1.21E-03	3.03E-04	3.81E-04	9.52E-05	11.97	11.93	9.68E-05	4.84E-04
	DEUTZ	Groundhog	3.36E-03	8.40E-04	1.06E-03	2.64E-04	33.23	33.12	2.69E-04	1.34E-03
	FWP01	Concentrator Fire Emergency Pump	5.22E-03	1.31E-03	1.64E-03	4.11E-04	51.64	51.47	4.18E-04	2.09E-03
	GENERAC1	MIS Building	0.050	0.013	0.039	9.83E-03	19.77	19.75	3.72E-05	3.72E-04
	GENERAC2	SX-EW Tankhouse	0.034	3.97E-03	0.027	2.12E-03	15.57	15.51	1.51E-04	7.54E-04
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	5.96E-03	5.22E-04	5.68E-03	4.53E-04	3.33	3.32	3.23E-05	1.61E-04
	CAT5	Santa Rita Tower	0.040	3.53E-03	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
	CAT6	Nun Complex Communication Station	0.040	3.53E-03	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
	GENERAC8	Santa Rita Tower	0.037	3.24E-03	0.035	2.81E-03	20.69	20.61	2.00E-04	1.00E-03
	Elliot Magnetek	Mine Warehouse	0.040	3.52E-03	9.50E-03	7.58E-04	5.58	5.55	5.40E-05	2.70E-04
	RT-1	Radio Tower Emergency Engine CAT DG50-2	0.040	3.52E-03	0.038	3.05E-03	22.43	22.34	2.17E-04	1.09E-03
	RT-2	Radio Tower Emergency Engine CAT DG50-2	0.040	3.52E-03	0.038	3.05E-03	22.43	22.34	2.17E-04	1.09E-03
	RT-3	North Lampbright Radio Tower Emergency Generator	0.040	3.53E-03	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
Tailing Summary	CB TLNGS	Cobre Mine Tailings	2.05E-05	8.98E-05	-	-	-	-	-	-
	CM TLNGS	Chino Mine Tailings	4.33E-03	0.039	-	-	-	-	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover/Continental Hauling)	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Borrow Pit Material Handling	2.02E-05	1.01E-05	-	-	-	-	-	-
	CBM MH	Cobre Mine Material Handling (Hanover/Continental Mining, Magnetite Handling)	4.27E-04	1.41E-03	-	-	-	-	-	-
	CM MH	Chino Mine Material Handling	6.40E-04	2.79E-03	-	-	-	-	-	-
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	0.32	1.41	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	3.59E-03	0.016	-	-	-	-
Blasting Summary	BORR BLST	Borrow Pit Blasting	0.26	5.21E-04	-	-	10.96	10.93	8.86E-05	4.43E-04
	CBM BLST	Cobre Mine Hanover/Continental Blasting	2.94	0.38	-	-	4,762.02	4,746.43	0.039	0.19
	CM BLST	Chino Mine Blasting	3.13	0.81	-	-	9,524.05	9,492.86	0.077	0.39
Drilling Summary	CBM DRILL	Hanover/Continental Mine Drilling	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	0.47	2.05	0.32	1.41	319,330.62	319,087.33	0.45	4.46
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	0.090	0.39	3.59E-03	0.016	25,411.36	25,385.26	0.048	0.48
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	0.48	2.10	-	-	-	-	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	0.26	1.14	-	-	-	-	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	0.059	0.26	-	-	-	-	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	0.31	1.35	-	-	-	-	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	0.13	0.56	-	-	-	-	-	-
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	1.76E-04	2.34E-04	-	-	-	-	-	-
	LHS-01 (IC-06)	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	1.64E-05	7.17E-05	-	-	-	-	-	-
	PC-01	Primary Crusher and Baghouse	2.08E-03	9.10E-03	-	-	-	-	-	-
	IOS	Wind Erosion of IOS	6.88E-04	3.01E-03	-	-	-	-	-	-
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	1.73E-04	7.72E-04	-	-	-	-	-	-
	SCDP	Stacker Conveyor	5.34E-05	2.34E-04	-	-	-	-	-	-
	SAG	Underground SAG Mill Tunnel	1.15E-03	5.05E-03	-	-	-	-	-	-
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-
	RC-01	Recycle Crusher and Baghouse	3.62E-04	1.59E-03	-	-	-	-	-	-
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	1.60E-03	3.50E-03	-	-	-	-	-	-
	CB SCRN ENG	Cobre Screening Plant Engine	5.40E-03	0.012	1.70E-03	3.72E-03	527.45	525.72	4.26E-03	0.021
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	0.44	1.94	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	778.47	775.48	7.39E-03	0.037
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	778.47	775.48	7.39E-03	0.037
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	868.41	865.07	8.24E-03	0.041
	SXEW RT	SXEW Plant Raffinate Tank	0.058	0.25	-	-	-	-	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	9.15E-03	0.020	-	-	-	-	-	-
Evaporator Summary	EVAP1	Evaporator System	5.76E-03	0.025	-	-	-	-	-	-
	EVAP2	Evaporator System	5.76E-03	0.025	-	-	-	-	-	-
	EVAP3	Evaporator System	5.76E-03	0.025	-	-	-	-	-	-
	EVAP4	Evaporator System	5.76E-03	0.025	-	-	-	-	-	-
		TOTAL - Fugitive & Non-fugitive sources	**8.67**	**11.44**	**0.65**	**2.87**	**361,991.81**	**361,664.55**	**0.64**	**5.66**
		TOTAL - Non-fugitive sources	**0.56**	**2.45**	**0.33**	**1.43**	**347,694.78**	**347,414.34**	**0.52**	**5.08**

Freeport-McMoRan Chino Mines Company
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Facility Summary

Grouping	SOURCE		CONTROLLED EMISSIONS							
			NO_x		CO		VOC		SO_2	
			lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Emergency Engine Summary	EE5	SXEW Emergency Fire Pump	6.51	1.63	1.40	0.35	0.52	0.13	2.24E-03	5.59E-04
	Sxlpwrprm8	20 Dam Hanover	8.91	2.23	1.92	0.48	0.71	0.18	3.06E-03	7.65E-04
	Sxlpwrprm5	11 Dam Hanover	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04
	Sxlgdwn1	10 Dam Hanover	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04
	Sxlpwrprm4	14 Dam Hanover	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04
	Sxlpwrprm2	Spare	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04
	Sxlpwrprm3	Dam 11	6.22	1.56	1.34	0.34	0.49	0.12	2.14E-03	5.34E-04
	Sxlpwrprm7	Dam 13	4.05	1.01	0.87	0.22	0.32	0.080	1.39E-03	3.48E-04
	Cummins Generator/1823	South Side Tailing office	1.42	0.36	0.31	0.077	0.11	0.028	4.89E-04	1.22E-04
	DEUTZ	Groundhog	3.95	0.99	0.85	0.21	0.31	0.078	1.36E-03	3.39E-04
	FWP01	Concentrator Fire Emergency Pump	6.14	1.53	1.32	0.33	0.49	0.12	2.11E-03	5.27E-04
	GENERAC1	MIS Building	3.04	0.76	0.24	0.059	0.088	0.022	4.38E-04	1.09E-04
	GENERAC2	SX-EW Tankhouse	2.05	0.51	0.16	0.040	0.059	0.015	2.96E-04	7.39E-05
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	0.44	0.11	0.034	8.53E-03	0.013	3.17E-03	6.33E-05	1.58E-05
	CAT5	Santa Rita Tower	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04
	CAT6	Nun Complex Communication Station	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04
	GENERAC8	Santa Rita Tower	2.72	0.68	0.21	0.053	0.079	0.020	3.93E-04	9.82E-05
	Elliot Magnetek	Mine Warehouse	0.73	0.18	0.057	0.014	0.021	5.31E-03	1.06E-04	2.65E-05
	RT-1	Radio Tower Emergency Engine CAT DG50-2	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04
	RT-2	Radio Tower Emergency Engine CAT DG50-2	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04
	RT-3	North Lampbright Radio Tower Emergency Generator	0.15	0.037	0.30	0.074	0.10	0.026	4.27E-04	1.07E-04
Tailing Summary	CB TLNGS	Cobre Mine Tailings	-	-	-	-	-	-	-	-
	CM TLNGS	Chino Mine Tailings	-	-	-	-	-	-	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover/Continental Hauling)	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Borrow Pit Material Handling	-	-	-	-	-	-	-	-
	CBM MH	Cobre Mine Material Handling (Hanover/Continental Mining, Magnetite Handling)	-	-	-	-	-	-	-	-
	CM MH	Chino Mine Material Handling	-	-	-	-	-	-	-	-
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Borrow Pit Blasting	*	0.054	*	1.22	-	-	*	1.08E-04
	CBM BLST	Cobre Mine Hanover Blasting	*	23.40	*	528.32	-	-	*	0.047
	CM BLST	Chino Mine Blasting	*	46.80	*	1,056.64	-	-	*	0.094
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	39.90	174.76	20.00	87.60	2.80	12.26	0.40	1.75
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	2.40	10.51	1.30	5.69	0.60	2.63	0.030	0.13
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	0.92	4.04	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	0.50	2.20	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	0.11	0.50	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	0.60	2.61	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	0.24	1.07	-	-
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	-	-	-	-	-	-	-	-
	LHS-01 (IC-06)	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	-	-	-	-	-	-	-	-
	PC-01	Primary Crusher	-	-	-	-	-	-	-	-
	IOS	Wind Erosion of IOS	-	-	-	-	-	-	-	-
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	-	-	-	-	-	-	-	-
	SCDP	Stacker Conveyor	-	-	-	-	-	-	-	-
	SAG	Underground SAG Mill Tunnel	-	-	-	-	-	-	-	-
	FLOAT	Sag Mill Floatation	-	-	-	-	0.66	2.87	-	-
	RCB-01	Recycle Crushing	-	-	-	-	-	-	-	-
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	-	-	-	-	-	-	-	-
	CB SCRN ENG	Cobre Screening Plant Engine	1.16	2.53	1.02	2.22	0.50	1.10	0.42	0.91
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	-	-	0.33	1.44	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	0.032
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	0.032
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	0.20	0.87	0.11	0.50	0.015	0.067	8.11E-03	0.036
	SXEW RT	SXEW Raffinate Tank	-	-	-	-	0.033	0.14	-	-
	SXEW SAT	SXEW Acid Tankhouse	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	-	-	-	-	-	-	-	-
Evaporator Summary	EVAP1	Evaporator System	-	-	-	-	-	-	-	-
	EVAP2	Evaporator System	-	-	-	-	-	-	-	-
	EVAP3	Evaporator System	-	-	-	-	-	-	-	-
	EVAP4	Evaporator System	-	-	-	-	-	-	-	-
	TOTAL - Fugitive & Non-fugitive sources		**44.01**	**260.49**	**22.64**	**1,683.10**	**7.34**	**31.06**	**0.87**	**3.04**
	TOTAL - Non-fugitive sources		**44.01**	**190.24**	**22.64**	**96.92**	**3.95**	**16.18**	**0.87**	**2.90**

(--) Indicates no known emissions
(*) Indicates an hourly emission rate is not appropriate for this emission source
[1] Unit FLTR/BLND includes emissions from units CV-01-53, CV-02-53, CV-03, CV-04, CV-05, CV-06, and F-1-3-2

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Facility Summary

Grouping	SOURCE		CONTROLLED EMISSIONS							
			PM		PM_{10}		$PM_{2.5}$		Lead	
			lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Emergency Engine Summary	EE5	SXEW Emergency Fire Pump	0.46	0.11	0.46	0.11	0.46	0.11	-	-
	Sxlpwrprm8	20 Dam Hanover	0.63	0.16	0.63	0.16	0.63	0.16	-	-
	Sxlpwrprm5	11 Dam Hanover	0.52	0.13	0.52	0.13	0.52	0.13	-	-
	Sxlgdwn1	10 Dam Hanover	0.70	0.18	0.70	0.18	0.70	0.18	-	-
	Sxlpwrprm4	14 Dam Hanover	0.52	0.13	0.52	0.13	0.52	0.13	-	-
	Sxlpwrprm2	Spare	0.70	0.18	0.70	0.18	0.70	0.18	-	-
	Sxlpwrprm3	Dam 11	0.44	0.11	0.44	0.11	0.44	0.11	-	-
	Sxlpwrprm7	Dam 13	0.28	0.071	0.28	0.071	0.28	0.071	-	-
	Cummins Generator/1823	South Side Tailing office	0.10	0.025	0.10	0.025	0.10	0.025	-	-
	DEUTZ	Groundhog	0.28	0.069	0.28	0.069	0.28	0.069	-	-
	FWP01	Concentrator Fire Emergency Pump	0.43	0.11	0.43	0.11	0.43	0.11	-	-
	GENERAC1	MIS Building	7.38E-03	1.84E-03	5.74E-05	1.44E-05	5.74E-05	1.44E-05	-	-
	GENERAC2	SX-EW Tankhouse	4.98E-03	1.25E-03	3.88E-05	9.69E-06	3.88E-05	9.69E-06	-	-
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	1.07E-03	2.67E-04	8.30E-06	2.07E-06	8.30E-06	2.07E-06	-	-
	CAT5	Santa Rita Tower	7.20E-03	1.80E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-
	CAT6	Nun Complex Communication Station	7.20E-03	1.80E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-
	GENERAC8	Santa Rita Tower	6.62E-03	1.65E-03	5.15E-05	1.29E-05	5.15E-05	1.29E-05	-	-
	Elliot Magnetek	Mine Warehouse	1.78E-03	4.46E-04	1.39E-05	3.47E-06	1.39E-05	3.47E-06	-	-
	RT-1	Radio Tower Emergency Engine CAT DG50-2	7.18E-03	1.79E-03	5.58E-05	1.40E-05	5.58E-05	1.40E-05	-	-
	RT-2	Radio Tower Emergency Engine CAT DG50-2	7.18E-03	1.79E-03	5.58E-05	1.40E-05	5.58E-05	1.40E-05	-	-
	RT-3	North Lampbright Radio Tower Emergency Generator	7.18E-03	1.79E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-
Tailing Summary	CB TLNGS	Cobre Mine Tailings	0.27	1.17	0.13	0.59	0.020	0.088	2.38E-07	1.04E-06
	CM TLNGS	Chino Mine Tailings	56.60	511.94	58.44	255.97	8.77	38.40	5.03E-05	4.55E-04
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover/Continental Hauling)	76.67	378.67	19.54	96.51	1.95	9.65	-	-
	CM HR	Chino Mine Haul Roads	1,450.48	10,934.66	362.54	2,761.35	36.25	276.14	-	-
Material Handling Summary	BORR MH	Borrow Pit Material Handling	3.34E-03	0.015	1.28E-03	5.60E-03	1.92E-04	8.40E-04	7.27E-08	3.19E-07
	CBM MH	Cobre Mine Material Handling (Hanover/Continental Mining, Magnetite Handling)	0.39	1.60	0.15	0.61	0.022	0.092	7.62E-06	2.33E-05
	CM MH	Chino Mine Material Handling	3.97	17.39	1.52	6.66	0.23	1.00	7.62E-06	2.33E-05
Bulldozing and Grading	BDZR	Bulldozing	48.44	212.17	8.30	36.35	5.09	22.28	-	-
	GRDR	Grading	11.18	48.97	3.83	16.75	0.35	1.52	-	-
	BDZR TLNGS	Tailings Bulldozing	17.85	39.08	3.06	6.70	1.87	4.10	-	-
	GRDR TLNGS	Tailings Grading	4.47	9.79	1.53	3.35	0.14	0.30	-	-
Blasting Summary	BORR BLST	Borrow Pit Blasting	*	0.11	*	0.058	*	3.32E-03	1.74E-03	3.48E-06
	CBM BLST	Cobre Mine Hanover Blasting	*	80.24	*	41.73	*	2.41	0.019	2.52E-03
	CM BLST	Chino Mine Blasting	*	170.61	*	88.72	*	5.12	0.021	5.36E-03
Drilling Summary	CBM DRILL	Cobre Mine Drilling	11.70	5.47	7.02	3.28	1.26	0.59	-	-
	CM DRILL	Chino Mine Drilling	13.00	15.01	7.80	9.01	1.40	1.62	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	2.30	10.07	2.30	10.07	2.30	10.07	-	-
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	0.30	1.31	0.30	1.31	0.30	1.31	2.39E-05	1.05E-04
	FLTR/BLND[1]	Filter/Blending Plant	0.86	1.35	0.35	0.55	0.34	0.52	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	-	-	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	-	-	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	-	-	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	-	-	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	-	-	-	-
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	1.51	6.62	0.55	2.43	0.083	0.36	7.16E-06	9.49E-06
	LHS-01 (IC-06)	Ivanhoe Concentrator Lime Handling System	0.044	0.10	0.044	0.10	6.60E-03	0.015	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	0.24	0.10	0.24	0.10	0.036	0.015	-	-
	PC DUMP	Primary Crusher Dump Pocket	0.14	0.62	0.016	0.071	2.42E-03	0.011	1.99E-07	8.74E-07
	PC-01	Primary Crusher	2.16	9.46	2.16	9.46	2.16	9.46	1.02E-05	4.48E-05
	IOS	Wind Erosion of IOS	0.059	0.26	0.029	0.13	4.42E-03	0.019	2.79E-05	1.22E-04
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	1.49	6.62	0.54	2.43	0.082	0.36	7.03E-06	3.13E-05
	SCDP	Stacker Conveyor	0.46	2.01	0.22	0.95	0.033	0.14	2.17E-06	9.49E-06
	SAG	Underground SAG Mill Tunnel	1.03	4.51	0.97	4.25	0.46	2.03	4.87E-06	2.13E-05
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crushing	0.031	0.14	0.014	0.060	0.014	0.060	1.47E-07	6.44E-07
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	3.47	7.60	1.51	3.30	0.20	0.44	1.64E-05	3.60E-05
	CB SCRN ENG	Cobre Screening Plant Engine	0.45	0.98	0.45	0.98	0.45	0.98	-	-
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	9.60E-03	0.042	9.60E-03	0.042	9.60E-03	0.042	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	9.60E-03	0.042	9.60E-03	0.042	9.60E-03	0.042	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	0.011	0.047	0.011	0.047	0.011	0.047	-	-
	SXEW RT	SXEW Raffinate Tank	-	-	-	-	-	-	-	-
	SXEW SAT	SXEW Acid Tankhouse	-	-	2.28	10.00	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	78.53	171.99	34.48	75.51	6.20	13.57	3.72E-04	8.14E-04
Evaporator Summary	EVAP1	Evaporator System	1.66	7.26	0.43	1.86	0.32	1.42	8.58E-07	5.41E-05
	EVAP2	Evaporator System	1.66	7.26	0.43	1.86	0.32	1.42	8.58E-07	5.41E-05
	EVAP3	Evaporator System	1.66	7.26	0.43	1.86	0.32	1.42	8.58E-07	5.41E-05
	EVAP4	Evaporator System	1.66	7.26	0.43	1.86	0.32	1.42	8.58E-07	5.41E-05
		TOTAL - Fugitive & Non-fugitive sources	**1,794.75**	**12,679.82**	**522.04**	**3,456.91**	**71.35**	**408.50**	**0.042**	**9.80E-03**
		TOTAL - Non-fugitive sources	**3.08**	**12.50**	**3.08**	**12.50**	**3.08**	**12.50**	**2.39E-05**	**1.05E-04**

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Facility Summary

Grouping	SOURCE		CONTROLLED EMISSIONS							
			Total HAPs		Formaldehyde		CO_2e	CO_2	N_2O	CH_4
			lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
Emergency Engine Summary	EE5	SXEW Emergency Fire Pump	5.54E-03	1.38E-03	1.74E-03	4.35E-04	54.75	54.57	4.43E-04	2.21E-03
	Sxlpwrprm8	20 Dam Hanover	7.58E-03	1.89E-03	2.38E-03	5.96E-04	74.97	74.72	6.06E-04	3.03E-03
	Sxlpwrprm5	11 Dam Hanover	6.27E-03	1.57E-03	1.97E-03	4.93E-04	62.00	61.80	5.01E-04	2.51E-03
	Sxlgdwn1	10 Dam Hanover	8.47E-03	2.12E-03	2.66E-03	6.66E-04	83.78	83.51	6.77E-04	3.39E-03
	Sxlpwrprm4	14 Dam Hanover	6.27E-03	1.57E-03	1.97E-03	4.93E-04	62.00	61.80	5.01E-04	2.51E-03
	Sxlpwrprm2	Spare	8.47E-03	2.12E-03	2.66E-03	6.66E-04	83.78	83.51	6.77E-04	3.39E-03
	Sxlpwrprm3	Dam 11	5.29E-03	1.32E-03	1.67E-03	4.16E-04	52.35	52.18	4.23E-04	2.12E-03
	Sxlpwrprm7	Dam 13	3.44E-03	8.61E-04	1.08E-03	2.71E-04	34.06	33.94	2.75E-04	1.38E-03
	Cummins Generator/1823	South Side Tailing office	1.21E-03	3.03E-04	3.81E-04	9.52E-05	11.97	11.93	9.68E-05	4.84E-04
	DEUTZ	Groundhog	3.36E-03	8.40E-04	1.06E-03	2.64E-04	33.23	33.12	2.69E-04	1.34E-03
	FWP01	Concentrator Fire Emergency Pump	5.22E-03	1.31E-03	1.64E-03	4.11E-04	51.64	51.47	4.18E-04	2.09E-03
	GENERAC1	MIS Building	0.050	0.013	0.039	9.83E-03	19.77	19.75	3.72E-05	3.72E-04
	GENERAC2	SX-EW Tankhouse	0.034	3.97E-03	0.027	2.12E-03	15.57	15.51	1.51E-04	7.54E-04
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	5.96E-03	5.22E-04	5.68E-03	4.53E-04	3.33	3.32	3.23E-05	1.61E-04
	CAT5	Santa Rita Tower	0.040	3.53E-03	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
	CAT6	Nun Complex Communication Station	0.040	3.53E-03	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
	GENERAC8	Santa Rita Tower	0.037	3.24E-03	0.035	2.81E-03	20.69	20.61	2.00E-04	1.00E-03
	Elliot Magnetek	Mine Warehouse	0.040	3.52E-03	9.50E-03	7.58E-04	5.58	5.55	5.40E-05	2.70E-04
	RT-1	Radio Tower Emergency Engine CAT DG50-2	0.040	3.52E-03	0.038	3.05E-03	22.43	22.34	2.17E-04	1.09E-03
	RT-2	Radio Tower Emergency Engine CAT DG50-2	0.040	3.52E-03	0.038	3.05E-03	22.43	22.34	2.17E-04	1.09E-03
	RT-3	North Lampbright Radio Tower Emergency Generator	0.040	3.53E-03	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
Tailing Summary	CB TLNGS	Cobre Mine Tailings	2.05E-05	8.98E-05	-	-	-	-	-	-
	CM TLNGS	Chino Mine Tailings	4.33E-03	0.039	-	-	-	-	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover/Continental Hauling)	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Borrow Pit Material Handling	2.02E-05	1.00E-05	-	-	-	-	-	-
	CBM MH	Cobre Mine Material Handling (Hanover/Continental Mining, Magnetite Handling)	4.25E-04	1.40E-03	-	-	-	-	-	-
	CM MH	Chino Mine Material Handling	6.39E-04	2.79E-03	-	-	-	-	-	-
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	0.32	1.41	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Borrow Pit Blasting	0.26	5.21E-04	-	-	10.96	10.93	8.86E-05	4.43E-04
	CBM BLST	Cobre Mine Hanover Blasting	2.94	0.38	-	-	4,762.02	4,746.43	0.039	0.19
	CM BLST	Chino Mine Blasting	3.13	0.81	-	-	9,524.05	9,492.86	0.077	0.39
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	0.47	2.05	0.32	1.41	319,330.62	319,087.33	0.45	4.46
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	0.090	0.39	3.59E-03	0.016	25,411.36	25,385.26	0.048	0.48
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	0.48	2.10	-	-	-	-	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	0.26	1.14	-	-	-	-	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	0.059	0.26	-	-	-	-	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	0.31	1.35	-	-	-	-	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	0.13	0.56	-	-	-	-	-	-
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	1.76E-04	2.34E-04	-	-	-	-	-	-
	LHS-01 (IC-06)	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	4.91E-06	2.15E-05	-	-	-	-	-	-
	PC-01	Primary Crusher	2.52E-04	1.10E-03	-	-	-	-	-	-
	IOS	Wind Erosion of IOS	6.88E-04	3.01E-03	-	-	-	-	-	-
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	1.73E-04	7.72E-04	-	-	-	-	-	-
	SCDP	Stacker Conveyor	5.34E-05	2.34E-04	-	-	-	-	-	-
	SAG	Underground SAG Mill Tunnel	1.20E-04	5.25E-04	-	-	-	-	-	-
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crushing	3.62E-06	1.59E-05	-	-	-	-	-	-
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	4.04E-04	8.85E-04	-	-	-	-	-	-
	CB SCRN ENG	Cobre Screening Plant Engine	5.40E-03	0.012	1.70E-03	3.72E-03	527.45	525.72	4.26E-03	0.021
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	0.44	1.94	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	778.47	775.48	7.39E-03	0.037
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	778.47	775.48	7.39E-03	0.037
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	868.41	865.07	8.24E-03	0.041
	SXEW RT	SXEW Raffinate Tank	0.058	0.25	-	-	-	-	-	-
	SXEW SAT	SXEW Acid Tankhouse	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	9.15E-03	0.020	-	-	-	-	-	-
Evaporator Summary	EVAP1	Evaporator System	5.76E-03	0.025	-	-	-	-	-	-
	EVAP2	Evaporator System	5.76E-03	0.025	-	-	-	-	-	-
	EVAP3	Evaporator System	5.76E-03	0.025	-	-	-	-	-	-
	EVAP4	Evaporator System	5.76E-03	0.025	-	-	-	-	-	-
		TOTAL - Fugitive & Non-fugitive sources	**8.67**	**11.43**	**0.65**	**2.85**	**361,991.81**	**361,664.55**	**0.64**	**5.66**
		TOTAL - Non-fugitive sources	**0.56**	**2.45**	**0.33**	**1.43**	**347,694.78**	**347,414.34**	**0.52**	**5.08**

Freeport-McMoRan Chino Mines Company
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Legend	
	HAP
	TAP & HAP
	TAP
	Neither HAP or TAP

HAP & TAP Emissions Summary

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		HAP's		TAP's		Acetaldehyde		Acrolein		Aluminum		Antimony	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Engine Summary[1]	EE5	SXEW Emergency Fire Pump	5.54E-03	1.38E-03	-	-	1.13E-03	2.83E-04	1.36E-04	3.41E-05	-	-	-	-
	Sxlpwrprm8	20 Dam Hanover	7.58E-03	1.89E-03	-	-	1.55E-03	3.87E-04	1.87E-04	4.67E-05	-	-	-	-
	Sxlpwrprm5	11 Dam Hanover	6.27E-03	1.57E-03	-	-	1.28E-03	3.20E-04	1.55E-04	3.86E-05	-	-	-	-
	Sxlgdwn1	10 Dam Hanover	8.47E-03	2.12E-03	-	-	1.73E-03	4.33E-04	2.09E-04	5.22E-05	-	-	-	-
	Sxlpwrprm4	14 Dam Hanover	6.27E-03	1.57E-03	-	-	1.28E-03	3.20E-04	1.55E-04	3.86E-05	-	-	-	-
	Sxlpwrprm2	Spare	8.47E-03	2.12E-03	-	-	1.73E-03	4.33E-04	2.09E-04	5.22E-05	-	-	-	-
	Sxlpwrprm3	Dam 11	5.29E-03	1.32E-03	-	-	1.08E-03	2.71E-04	1.31E-04	3.26E-05	-	-	-	-
	Sxlpwrprm7	Dam 13	3.44E-03	8.61E-04	-	-	7.04E-04	1.76E-04	8.49E-05	2.12E-05	-	-	-	-
	Cummins Generator/1823	South Side Tailing office	1.21E-03	3.03E-04	-	-	2.48E-04	6.19E-05	2.99E-05	7.46E-06	-	-	-	-
	DEUTZ	Groundhog	3.36E-03	8.40E-04	-	-	6.87E-04	1.72E-04	8.28E-05	2.07E-05	-	-	-	-
	FWP01	Concentrator Fire Emergency Pump	5.22E-03	1.31E-03	-	-	1.07E-03	2.67E-04	1.29E-04	3.22E-05	-	-	-	-
	GENERAC1	MIS Building	0.050	0.013	-	-	6.22E-03	1.56E-03	3.83E-03	9.57E-04	-	-	-	-
	GENERAC2	SX-EW Tankhouse	0.034	3.97E-03	-	-	4.20E-03	1.05E-03	2.58E-03	6.46E-04	-	-	-	-
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	5.96E-03	5.22E-04	-	-	8.25E-05	2.06E-05	9.95E-06	2.49E-06	-	-	-	-
	CAT5	Santa Rita Tower	0.040	3.53E-03	-	-	5.57E-04	1.39E-04	6.72E-05	1.68E-05	-	-	-	-
	CAT6	Nun Complex Communication Station	0.040	3.53E-03	-	-	5.57E-04	1.39E-04	6.72E-05	1.68E-05	-	-	-	-
	GENERAC8	Santa Rita Tower	0.037	3.24E-03	-	-	5.12E-04	1.28E-04	6.18E-05	1.54E-05	-	-	-	-
	Elliot Magnetek	Mine Warehouse	9.97E-03	8.74E-04	-	-	1.38E-04	3.45E-05	1.67E-05	4.16E-06	-	-	-	-
	RT-1	Radio Tower Emergency Engine CAT DG50-2	0.040	3.52E-03	-	-	5.55E-04	1.39E-04	6.70E-05	1.67E-05	-	-	-	-
	RT-2	Radio Tower Emergency Engine CAT DG50-2	0.040	3.52E-03	-	-	5.55E-04	1.39E-04	6.70E-05	1.67E-05	-	-	-	-
	RT-3	North Lampbright Radio Tower Emergency Generator	0.040	3.53E-03	-	-	5.57E-04	1.39E-04	6.72E-05	1.68E-05	-	-	-	-
Tailing Summary	CB TLNGS	Cobre Mine Tailings	2.05E-05	8.98E-05	2.45E-04	1.07E-03	-	-	-	-	1.95E-04	8.53E-04	-	-
	CM TLNGS	Chino Mine Tailings	4.33E-03	0.039	0.052	0.47	-	-	-	-	0.041	0.37	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover Hauling, Magnetite Hauling)	-	-	-	-	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Cobre Haul Road Borrow Pit Material Handling	2.02E-05	1.00E-05	2.96E-05	5.11E-05	-	-	-	-	--	--	1.79E-05	5.94E-08
	CBM MH	Cobre Mine Material Handling (Hanover Mining, Magnetite Handling)	4.25E-04	1.40E-03	1.61E-03	6.29E-03	-	-	-	-	7.94E-05	1.45E-04	1.78E-06	7.81E-06
	CM MH	Chino Mine Material Handling	6.39E-04	2.79E-03	9.39E-03	0.041	-	-	-	-	--	--	1.61E-05	7.06E-05
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Cobre Haul Road Borrow Pit Blasting	0.26	5.21E-04	0.25	4.94E-04	-	-	-	-	-	-	1.77E-04	3.55E-07
	CBM BLST	Cobre Mine Hanover Blasting	2.94	0.38	2.79	0.36	-	-	-	-	-	-	2.51E-03	3.26E-04
	CM BLST	Chino Mine Blasting	3.13	0.81	2.97	0.77	-	-	-	-	-	-	2.66E-03	6.93E-04
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	0.47	2.05	0.020	0.088	0.018	0.080	2.91E-03	0.013	-	-	-	-
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	0.090	0.39	5.74E-05	2.51E-04	-	-	-	-	-	-	-	-
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	0.48	2.10	-	-	-	-	-	-	-	-	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	0.26	1.14	-	-	-	-	-	-	-	-	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	0.059	0.26	-	-	-	-	-	-	-	-	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	0.31	1.35	-	-	-	-	-	-	-	-	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	0.13	0.56	-	-	-	-	-	-	-	-	-	-

Freeport-McMoRan Chino Mines Company
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HAP & TAP Emissions Summary

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Arsenic		Barium		Benzene		Beryllium		1,3-Butadiene		Cadmium	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Engine Summary[1]	EE5	SXEW Emergency Fire Pump	-	-	-	-	1.38E-03	3.44E-04	-	-	-	-	-	-
	Sxlpwrprm8	20 Dam Hanover	-	-	-	-	1.89E-03	4.71E-04	-	-	-	-	-	-
	Sxlpwrprm5	11 Dam Hanover	-	-	-	-	1.56E-03	3.90E-04	-	-	-	-	-	-
	Sxlgdwn1	10 Dam Hanover	-	-	-	-	2.11E-03	5.27E-04	-	-	-	-	-	-
	Sxlpwrprm4	14 Dam Hanover	-	-	-	-	1.56E-03	3.90E-04	-	-	-	-	-	-
	Sxlpwrprm2	Spare	-	-	-	-	2.11E-03	5.27E-04	-	-	-	-	-	-
	Sxlpwrprm3	Dam 11	-	-	-	-	1.32E-03	3.29E-04	-	-	-	-	-	-
	Sxlpwrprm7	Dam 13	-	-	-	-	8.56E-04	2.14E-04	-	-	-	-	-	-
	Cummins Generator/1823	South Side Tailing office	-	-	-	-	3.01E-04	7.53E-05	-	-	-	-	-	-
	DEUTZ	Groundhog	-	-	-	-	8.36E-04	2.09E-04	-	-	-	-	-	-
	FWP01	Concentrator Fire Emergency Pump	-	-	-	-	1.30E-03	3.25E-04	-	-	-	-	-	-
	GENERAC1	MIS Building	-	-	-	-	3.28E-04	8.19E-05	-	-	-	-	-	-
	GENERAC2	SX-EW Tankhouse	-	-	-	-	2.21E-04	5.53E-05	-	-	-	-	-	-
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	-	-	-	-	1.00E-04	2.51E-05	-	-	-	-	-	-
	CAT5	Santa Rita Tower	-	-	-	-	6.78E-04	1.69E-04	-	-	-	-	-	-
	CAT6	Nun Complex Communication Station	-	-	-	-	6.78E-04	1.69E-04	-	-	-	-	-	-
	GENERAC8	Santa Rita Tower	-	-	-	-	6.23E-04	1.56E-04	-	-	-	-	-	-
	Elliot Magnetek	Mine Warehouse	-	-	-	-	1.68E-04	4.20E-05	-	-	-	-	-	-
	RT-1	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	6.76E-04	1.69E-04	-	-	-	-	-	-
	RT-2	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	6.76E-04	1.69E-04	-	-	-	-	-	-
	RT-3	North Lampbright Radio Tower Emergency Generator	-	-	-	-	6.78E-04	1.69E-04	-	-	-	-	-	-
Tailing Summary	CB TLNGS	Cobre Mine Tailings	1.46E-07	6.39E-07	6.09E-07	2.67E-06	-	-	-	-	-	-	1.33E-08	5.84E-08
	CM TLNGS	Chino Mine Tailings	3.08E-05	2.79E-04	1.29E-04	1.16E-03	-	-	-	-	-	-	2.82E-06	2.55E-05
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover Hauling, Magnetite Hauling)	-	-	-	-	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Cobre Haul Road Borrow Pit Material Handling	1.75E-08	7.67E-08	6.52E-07	2.86E-06	-	-	1.99E-09	8.73E-09	-	-	4.39E-09	1.92E-08
	CBM MH	Cobre Mine Material Handling (Hanover Mining, Magnetite Handling)	2.30E-06	1.01E-05	8.57E-05	3.76E-04	-	-	2.62E-07	1.15E-06	-	-	5.77E-07	2.53E-06
	CM MH	Chino Mine Material Handling	2.08E-05	9.12E-05	7.76E-04	3.40E-03	-	-	9.07E-07	3.97E-06	-	-	5.22E-06	2.29E-05
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Cobre Haul Road Borrow Pit Blasting	1.96E-04	3.91E-07	-	-	-	-	0.011	2.24E-05	-	-	5.81E-05	1.16E-07
	CBM BLST	Cobre Mine Hanover Blasting	3.24E-03	4.21E-04	-	-	-	-	0.12	0.016	-	-	6.48E-04	8.43E-05
	CM BLST	Chino Mine Blasting	3.44E-03	8.94E-04	-	-	-	-	0.13	0.034	-	-	6.89E-04	1.79E-04
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	-	-	-	-	5.46E-03	0.024	-	-	1.96E-04	8.57E-04	-	-
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	-	-	-	-	1.00E-04	4.40E-04	-	-	-	-	-	-
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	0.045	0.20	-	-	-	-	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	0.025	0.11	-	-	-	-	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	5.61E-03	0.025	-	-	-	-	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	0.029	0.13	-	-	-	-	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	0.012	0.052	-	-	-	-	-	-

Freeport-McMoRan Chino Mines Company
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HAP & TAP Emissions Summary

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Chlorine		Chromium		Cobalt		Copper		Cresylic Acid		Dichlorobenzene	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Engine Summary[1]	EE5	SXEW Emergency Fire Pump	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm8	20 Dam Hanover	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm5	11 Dam Hanover	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlgdwn1	10 Dam Hanover	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm4	14 Dam Hanover	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm2	Spare	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm3	Dam 11	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm7	Dam 13	-	-	-	-	-	-	-	-	-	-	-	-
	Cummins Generator/1823	South Side Tailing office	-	-	-	-	-	-	-	-	-	-	-	-
	DEUTZ	Groundhog	-	-	-	-	-	-	-	-	-	-	-	-
	FWP01	Concentrator Fire Emergency Pump	-	-	-	-	-	-	-	-	-	-	-	-
	GENERAC1	MIS Building	-	-	-	-	-	-	-	-	-	-	-	-
	GENERAC2	SX-EW Tankhouse	-	-	-	-	-	-	-	-	-	-	-	-
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	-	-	-	-	-	-	-	-	-	-	-	-
	CAT5	Santa Rita Tower	-	-	-	-	-	-	-	-	-	-	-	-
	CAT6	Nun Complex Communication Station	-	-	-	-	-	-	-	-	-	-	-	-
	GENERAC8	Santa Rita Tower	-	-	-	-	-	-	-	-	-	-	-	-
	Elliot Magnetek	Mine Warehouse	-	-	-	-	-	-	-	-	-	-	-	-
	RT-1	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	-	-	-	-
	RT-2	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	-	-	-	-
	RT-3	North Lampbright Radio Tower Emergency Generator	-	-	-	-	-	-	-	-	-	-	-	-
Tailing Summary	CB TLNGS	Cobre Mine Tailings	2.42E-07	1.06E-06	5.86E-07	2.57E-06	5.75E-07	2.52E-06	2.98E-05	1.31E-04	-	-	-	-
	CM TLNGS	Chino Mine Tailings	5.11E-05	4.62E-04	1.24E-04	1.12E-03	1.22E-04	1.10E-03	6.31E-03	0.057	-	-	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover Hauling, Magnetite Hauling)	-	-	-	-	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Cobre Haul Road Borrow Pit Material Handling	-	-	2.42E-07	1.06E-06	8.98E-08	3.93E-07	6.53E-06	2.86E-05	-	-	-	-
	CBM MH	Cobre Mine Material Handling (Hanover Mining, Magnetite Handling)	-	-	3.71E-05	1.49E-04	1.18E-05	5.17E-05	8.99E-04	3.83E-03	-	-	-	-
	CM MH	Chino Mine Material Handling	-	-	2.88E-04	1.26E-03	1.07E-04	4.68E-04	7.76E-03	0.034	-	-	-	-
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Cobre Haul Road Borrow Pit Blasting	-	-	3.71E-05	7.41E-08	1.86E-03	3.72E-06	-	-	-	-	-	-
	CBM BLST	Cobre Mine Hanover Blasting	-	-	8.12E-04	1.06E-04	0.045	5.82E-03	-	-	-	-	-	-
	CM BLST	Chino Mine Blasting	-	-	8.63E-04	2.24E-04	0.048	0.012	-	-	-	-	-	-
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	-	-	-	-	-	-	-	-	-	-	-	-
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	-	-	-	-	-	-	-	-	-	-	5.74E-05	2.51E-04
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	-	-	-	-	-	-	-	-

Freeport-McMoRan Chino Mines Company
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HAP & TAP Emissions Summary

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		2,6-Dimethyl-4-heptanone		Ethylbenzene		Fluoranthene*		Fluorene*		Formaldehyde		Hexane	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Engine Summary[1]	EE5	SXEW Emergency Fire Pump	-	-	-	-	-	-	-	-	1.74E-03	4.35E-04	-	-
	Sxlpwrprm8	20 Dam Hanover	-	-	-	-	-	-	-	-	2.38E-03	5.96E-04	-	-
	Sxlpwrprm5	11 Dam Hanover	-	-	-	-	-	-	-	-	1.97E-03	4.93E-04	-	-
	Sxlgdwn1	10 Dam Hanover	-	-	-	-	-	-	-	-	2.66E-03	6.66E-04	-	-
	Sxlpwrprm4	14 Dam Hanover	-	-	-	-	-	-	-	-	1.97E-03	4.93E-04	-	-
	Sxlpwrprm2	Spare	-	-	-	-	-	-	-	-	2.66E-03	6.66E-04	-	-
	Sxlpwrprm3	Dam 11	-	-	-	-	-	-	-	-	1.67E-03	4.16E-04	-	-
	Sxlpwrprm7	Dam 13	-	-	-	-	-	-	-	-	1.08E-03	2.71E-04	-	-
	Cummins Generator/1823	South Side Tailing office	-	-	-	-	-	-	-	-	3.81E-04	9.52E-05	-	-
	DEUTZ	Groundhog	-	-	-	-	-	-	-	-	1.06E-03	2.64E-04	-	-
	FWP01	Concentrator Fire Emergency Pump	-	-	-	-	-	-	-	-	1.64E-03	4.11E-04	-	-
	GENERAC1	MIS Building	-	-	-	-	-	-	-	-	0.039	9.83E-03	-	-
	GENERAC2	SX-EW Tankhouse	-	-	-	-	-	-	-	-	0.027	2.12E-03	-	-
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	-	-	-	-	-	-	-	-	5.68E-03	4.53E-04	-	-
	CAT5	Santa Rita Tower	-	-	-	-	-	-	-	-	0.038	3.06E-03	-	-
	CAT6	Nun Complex Communication Station	-	-	-	-	-	-	-	-	0.038	3.06E-03	-	-
	GENERAC8	Santa Rita Tower	-	-	-	-	-	-	-	-	0.035	2.81E-03	-	-
	Elliot Magnetek	Mine Warehouse	-	-	-	-	-	-	-	-	9.50E-03	7.58E-04	-	-
	RT-1	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	0.038	3.05E-03	-	-
	RT-2	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	0.038	3.05E-03	-	-
	RT-3	North Lampbright Radio Tower Emergency Generator	-	-	-	-	-	-	-	-	0.038	3.06E-03	-	-
Tailing Summary	CB TLNGS	Cobre Mine Tailings	-	-	-	-	-	-	7.98E-08	3.50E-07	-	-	-	-
	CM TLNGS	Chino Mine Tailings	-	-	-	-	-	-	1.69E-05	1.53E-04	-	-	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover Hauling, Magnetite Hauling)	-	-	-	-	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Cobre Haul Road Borrow Pit Material Handling	-	-	-	-	-	-	-	-	-	-	-	-
	CBM MH	Cobre Mine Material Handling (Hanover Mining, Magnetite Handling)	-	-	-	-	-	-	-	-	-	-	-	-
	CM MH	Chino Mine Material Handling	-	-	-	-	-	-	-	-	-	-	-	-
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Cobre Haul Road Borrow Pit Blasting	-	-	-	-	-	-	-	-	-	-	-	-
	CBM BLST	Cobre Mine Hanover Blasting	-	-	-	-	-	-	-	-	-	-	-	-
	CM BLST	Chino Mine Blasting	-	-	-	-	-	-	-	-	-	-	-	-
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	-	-	0.015	0.064	-	-	-	-	0.32	1.41	-	-
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	-	-	-	-	1.44E-07	6.29E-07	1.34E-07	5.87E-07	3.59E-03	0.016	0.086	0.38
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	0.028	0.12	-	-	-	-	-	-	0.037	0.16
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	0.015	0.066	-	-	-	-	-	-	0.020	0.088
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	3.43E-03	0.015	-	-	-	-	-	-	4.58E-03	0.020
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	0.018	0.078	-	-	-	-	-	-	0.024	0.10
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	7.33E-03	0.032	-	-	-	-	-	-	9.77E-03	0.043

Freeport-McMoRan Chino Mines Company
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HAP & TAP Emissions Summary

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Lead		Manganese		Mercury		4-Methyl-2-pentanone		Molybdenum		Naphthalene	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Engine Summary[1]	EE5	SXEW Emergency Fire Pump	-	-	-	-	-	-	-	-	-	-	1.25E-04	3.13E-05
	Sxlpwrprm8	20 Dam Hanover	-	-	-	-	-	-	-	-	-	-	1.71E-04	4.28E-05
	Sxlpwrprm5	11 Dam Hanover	-	-	-	-	-	-	-	-	-	-	1.42E-04	3.54E-05
	Sxlgdwn1	10 Dam Hanover	-	-	-	-	-	-	-	-	-	-	1.91E-04	4.79E-05
	Sxlpwrprm4	14 Dam Hanover	-	-	-	-	-	-	-	-	-	-	1.42E-04	3.54E-05
	Sxlpwrprm2	Spare	-	-	-	-	-	-	-	-	-	-	1.91E-04	4.79E-05
	Sxlpwrprm3	Dam 11	-	-	-	-	-	-	-	-	-	-	1.20E-04	2.99E-05
	Sxlpwrprm7	Dam 13	-	-	-	-	-	-	-	-	-	-	7.78E-05	1.95E-05
	Cummins Generator/1823	South Side Tailing office	-	-	-	-	-	-	-	-	-	-	2.74E-05	6.84E-06
	DEUTZ	Groundhog	-	-	-	-	-	-	-	-	-	-	7.60E-05	1.90E-05
	FWP01	Concentrator Fire Emergency Pump	-	-	-	-	-	-	-	-	-	-	1.18E-04	2.95E-05
	GENERAC1	MIS Building	-	-	-	-	-	-	-	-	-	-	5.54E-05	1.38E-05
	GENERAC2	SX-EW Tankhouse	-	-	-	-	-	-	-	-	-	-	4.26E-05	1.07E-05
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	-	-	-	-	-	-	-	-	-	-	9.12E-06	2.28E-06
	CAT5	Santa Rita Tower	-	-	-	-	-	-	-	-	-	-	6.16E-05	1.54E-05
	CAT6	Nun Complex Communication Station	-	-	-	-	-	-	-	-	-	-	6.16E-05	1.54E-05
	GENERAC8	Santa Rita Tower	-	-	-	-	-	-	-	-	-	-	5.66E-05	1.42E-05
	Elliot Magnetek	Mine Warehouse	-	-	-	-	-	-	-	-	-	-	1.53E-05	3.82E-06
	RT-1	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	-	-	6.14E-05	1.53E-05
	RT-2	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	-	-	6.14E-05	1.53E-05
	RT-3	North Lampbright Radio Tower Emergency Generator	-	-	-	-	-	-	-	-	-	-	6.16E-05	1.54E-05
Tailing Summary	CB TLNGS	Cobre Mine Tailings	2.38E-07	1.04E-06	1.81E-05	7.92E-05	-	-	-	-	-	-	-	-
	CM TLNGS	Chino Mine Tailings	5.03E-05	4.55E-04	3.82E-03	0.035	-	-	-	-	-	-	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover Hauling, Magnetite Hauling)	-	-	-	-	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Cobre Haul Road Borrow Pit Material Handling	7.27E-08	3.19E-07	1.79E-06	7.85E-06	-	-	-	-	1.94E-08	8.52E-08	-	-
	CBM MH	Cobre Mine Material Handling (Hanover Mining, Magnetite Handling)	7.62E-06	2.33E-05	3.56E-04	1.13E-03	-	-	-	-	2.04E-06	8.93E-06	-	-
	CM MH	Chino Mine Material Handling	7.62E-06	2.33E-05	1.88E-04	8.23E-04	-	-	-	-	2.04E-06	8.93E-06	-	-
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Cobre Haul Road Borrow Pit Blasting	1.74E-03	3.48E-06	0.24	4.90E-04	-	-	-	-	-	-	-	-
	CBM BLST	Cobre Mine Hanover Blasting	0.019	2.52E-03	2.73	0.35	-	-	-	-	-	-	-	-
	CM BLST	Chino Mine Blasting	0.021	5.36E-03	2.90	0.75	-	-	-	-	-	-	-	-
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	-	-	-	-	-	-	-	-	-	-	5.92E-04	2.59E-03
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	2.39E-05	1.05E-04	-	-	-	-	-	-	-	-	2.92E-05	1.28E-04
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	-	-	-	-	-	-	-	-

Freeport-McMoRan Chino Mines Company
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HAP & TAP Emissions Summary

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Nickel		PAH		Phenanthrene*		Propylene Oxide		Pyrene*		Selenium	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Engine Summary[1]	EE5	SXEW Emergency Fire Pump	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm8	20 Dam Hanover	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm5	11 Dam Hanover	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlgdwn1	10 Dam Hanover	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm4	14 Dam Hanover	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm2	Spare	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm3	Dam 11	-	-	-	-	-	-	-	-	-	-	-	-
	Sxlpwrprm7	Dam 13	-	-	-	-	-	-	-	-	-	-	-	-
	Cummins Generator/1823	South Side Tailing office	-	-	-	-	-	-	-	-	-	-	-	-
	DEUTZ	Groundhog	-	-	-	-	-	-	-	-	-	-	-	-
	FWP01	Concentrator Fire Emergency Pump	-	-	-	-	-	-	-	-	-	-	-	-
	GENERAC1	MIS Building	-	-	-	-	-	-	-	-	-	-	-	-
	GENERAC2	SX-EW Tankhouse	-	-	-	-	-	-	-	-	-	-	-	-
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	-	-	-	-	-	-	-	-	-	-	-	-
	CAT5	Santa Rita Tower	-	-	-	-	-	-	-	-	-	-	-	-
	CAT6	Nun Complex Communication Station	-	-	-	-	-	-	-	-	-	-	-	-
	GENERAC8	Santa Rita Tower	-	-	-	-	-	-	-	-	-	-	-	-
	Elliot Magnetek	Mine Warehouse	-	-	-	-	-	-	-	-	-	-	-	-
	RT-1	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	-	-	-	-
	RT-2	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	-	-	-	-
	RT-3	North Lampbright Radio Tower Emergency Generator	-	-	-	-	-	-	-	-	-	-	-	-
Tailing Summary	CB TLNGS	Cobre Mine Tailings	3.74E-07	1.64E-06	-	-	-	-	-	-	-	-	1.59E-07	6.95E-07
	CM TLNGS	Chino Mine Tailings	7.91E-05	7.15E-04	-	-	-	-	-	-	-	-	3.35E-05	3.03E-04
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover Hauling, Magnetite Hauling)	-	-	-	-	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Cobre Haul Road Borrow Pit Material Handling	5.19E-08	2.27E-07	-	-	-	-	-	-	-	-	-	-
	CBM MH	Cobre Mine Material Handling (Hanover Mining, Magnetite Handling)	7.70E-06	2.79E-05	-	-	-	-	-	-	-	-	-	-
	CM MH	Chino Mine Material Handling	5.44E-06	2.38E-05	-	-	-	-	-	-	-	-	-	-
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Cobre Haul Road Borrow Pit Blasting	2.62E-04	5.24E-07	-	-	-	-	-	-	-	-	-	-
	CBM BLST	Cobre Mine Hanover Blasting	0.013	1.75E-03	-	-	-	-	-	-	-	-	-	-
	CM BLST	Chino Mine Blasting	0.014	3.72E-03	-	-	-	-	-	-	-	-	-	-
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	-	-	1.00E-03	4.38E-03	-	-	0.013	0.058	-	-	-	-
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	-	-	-	-	8.13E-07	3.56E-06	-	-	2.39E-07	1.05E-06	-	-
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	-	-	-	-	-	-	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	-	-	-	-	-	-	-	-

Freeport-McMoRan Chino Mines Company
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HAP & TAP Emissions Summary

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Silver		Sodium Hydroxide		Sulfuric acid		Thallium		Toluene		1,2,4 - trimethylbenzene	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Engine Summary[1]	EE5	SXEW Emergency Fire Pump	-	-	-	-	-	-	-	-	6.04E-04	1.51E-04	-	-
	Sxlpwrprm8	20 Dam Hanover	-	-	-	-	-	-	-	-	8.26E-04	2.07E-04	-	-
	Sxlpwrprm5	11 Dam Hanover	-	-	-	-	-	-	-	-	6.84E-04	1.71E-04	-	-
	Sxlgdwn1	10 Dam Hanover	-	-	-	-	-	-	-	-	9.24E-04	2.31E-04	-	-
	Sxlpwrprm4	14 Dam Hanover	-	-	-	-	-	-	-	-	6.84E-04	1.71E-04	-	-
	Sxlpwrprm2	Spare	-	-	-	-	-	-	-	-	9.24E-04	2.31E-04	-	-
	Sxlpwrprm3	Dam 11	-	-	-	-	-	-	-	-	5.77E-04	1.44E-04	-	-
	Sxlpwrprm7	Dam 13	-	-	-	-	-	-	-	-	3.75E-04	9.39E-05	-	-
	Cummins Generator/1823	South Side Tailing office	-	-	-	-	-	-	-	-	1.32E-04	3.30E-05	-	-
	DEUTZ	Groundhog	-	-	-	-	-	-	-	-	3.66E-04	9.16E-05	-	-
	FWP01	Concentrator Fire Emergency Pump	-	-	-	-	-	-	-	-	5.69E-04	1.42E-04	-	-
	GENERAC1	MIS Building	-	-	-	-	-	-	-	-	3.04E-04	7.59E-05	-	-
	GENERAC2	SX-EW Tankhouse	-	-	-	-	-	-	-	-	2.06E-04	5.14E-05	-	-
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	-	-	-	-	-	-	-	-	4.40E-05	1.10E-05	-	-
	CAT5	Santa Rita Tower	-	-	-	-	-	-	-	-	2.97E-04	7.43E-05	-	-
	CAT6	Nun Complex Communication Station	-	-	-	-	-	-	-	-	2.97E-04	7.43E-05	-	-
	GENERAC8	Santa Rita Tower	-	-	-	-	-	-	-	-	2.73E-04	6.83E-05	-	-
	Elliot Magnetek	Mine Warehouse	-	-	-	-	-	-	-	-	7.36E-05	1.84E-05	-	-
	RT-1	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	2.96E-04	7.40E-05	-	-
	RT-2	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	-	-	2.96E-04	7.40E-05	-	-
	RT-3	North Lampbright Radio Tower Emergency Generator	-	-	-	-	-	-	-	-	2.97E-04	7.43E-05	-	-
Tailing Summary	CB TLNGS	Cobre Mine Tailings	-	-	-	-	-	-	-	-	-	-	-	-
	CM TLNGS	Chino Mine Tailings	-	-	-	-	-	-	-	-	-	-	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover Hauling, Magnetite Hauling)	-	-	-	-	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Cobre Haul Road Borrow Pit Material Handling	1.49E-09	6.51E-09	-	-	-	-	1.08E-06	4.72E-06	-	-	-	-
	CBM MH	Cobre Mine Material Handling (Hanover Mining, Magnetite Handling)	1.56E-07	6.83E-07	-	-	-	-	1.23E-05	5.39E-05	-	-	-	-
	CM MH	Chino Mine Material Handling	1.56E-07	6.83E-07	-	-	-	-	1.13E-04	4.94E-04	-	-	-	-
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Cobre Haul Road Borrow Pit Blasting	-	-	-	-	-	-	-	-	-	-	-	-
	CBM BLST	Cobre Mine Hanover Blasting	-	-	-	-	-	-	-	-	-	-	-	-
	CM BLST	Chino Mine Blasting	-	-	-	-	-	-	-	-	-	-	-	-
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	-	-	-	-	0.020	0.088	-	-	0.059	0.26	-	-
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	-	-	-	-	-	-	-	-	1.63E-04	7.12E-04	-	-
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	-	-	-	-	0.23	1.01	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	-	-	-	-	0.13	0.55	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	-	-	-	-	0.029	0.13	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	-	-	-	-	0.15	0.65	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	-	-	-	-	0.061	0.27	-	-

Freeport-McMoRan Chino Mines Company
Revised: February 2026

HAP & TAP Emissions Summary

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		1,3,5 - trimethylbenzene		Uranium		Vanadium		Xylene		Zinc	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Engine Summary[1]	EE5	SXEW Emergency Fire Pump	-	-	-	-	-	-	4.21E-04	1.05E-04	-	-
	Sxlpwrprm8	20 Dam Hanover	-	-	-	-	-	-	5.76E-04	1.44E-04	-	-
	Sxlpwrprm5	11 Dam Hanover	-	-	-	-	-	-	4.76E-04	1.19E-04	-	-
	Sxlgdwn1	10 Dam Hanover	-	-	-	-	-	-	6.44E-04	1.61E-04	-	-
	Sxlpwrprm4	14 Dam Hanover	-	-	-	-	-	-	4.76E-04	1.19E-04	-	-
	Sxlpwrprm2	Spare	-	-	-	-	-	-	6.44E-04	1.61E-04	-	-
	Sxlpwrprm3	Dam 11	-	-	-	-	-	-	4.02E-04	1.01E-04	-	-
	Sxlpwrprm7	Dam 13	-	-	-	-	-	-	2.62E-04	6.54E-05	-	-
	Cummins Generator/1823	South Side Tailing office	-	-	-	-	-	-	9.20E-05	2.30E-05	-	-
	DEUTZ	Groundhog	-	-	-	-	-	-	2.55E-04	6.38E-05	-	-
	FWP01	Concentrator Fire Emergency Pump	-	-	-	-	-	-	3.97E-04	9.92E-05	-	-
	GENERAC1	MIS Building	-	-	-	-	-	-	1.37E-04	3.43E-05	-	-
	GENERAC2	SX-EW Tankhouse	-	-	-	-	-	-	1.43E-04	3.58E-05	-	-
	GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	-	-	-	-	-	-	3.07E-05	7.67E-06	-	-
	CAT5	Santa Rita Tower	-	-	-	-	-	-	2.07E-04	5.18E-05	-	-
	CAT6	Nun Complex Communication Station	-	-	-	-	-	-	2.07E-04	5.18E-05	-	-
	GENERAC8	Santa Rita Tower	-	-	-	-	-	-	1.90E-04	4.76E-05	-	-
	Elliot Magnetek	Mine Warehouse	-	-	-	-	-	-	5.13E-05	1.28E-05	-	-
	RT-1	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	2.06E-04	5.16E-05	-	-
	RT-2	Radio Tower Emergency Engine CAT DG50-2	-	-	-	-	-	-	2.06E-04	5.16E-05	-	-
	RT-3	North Lampbright Radio Tower Emergency Generator	-	-	-	-	-	-	2.07E-04	5.18E-05	-	-
Tailing Summary	CB TLNGS	Cobre Mine Tailings	-	-	-	-	-	-	-	-	-	-
	CM TLNGS	Chino Mine Tailings	-	-	-	-	-	-	-	-	-	-
HR Summary	CBM HR	Cobre Mine Haul Roads (Hanover Hauling, Magnetite Hauling)	-	-	-	-	-	-	-	-	-	-
	CM HR	Chino Mine Haul Roads	-	-	-	-	-	-	-	-	-	-
Material Handling Summary	BORR MH	Cobre Haul Road Borrow Pit Material Handling	-	-	-	-	1.17E-07	5.14E-07	-	-	1.08E-06	4.72E-06
	CBM MH	Cobre Mine Material Handling (Hanover Mining, Magnetite Handling)	-	-	-	-	2.91E-06	1.27E-05	-	-	1.13E-04	4.94E-04
	CM MH	Chino Mine Material Handling	-	-	-	-	1.23E-05	5.39E-05	-	-	1.13E-04	4.94E-04
Bulldozing and Grading	BDZR	Bulldozing	-	-	-	-	-	-	-	-	-	-
	GRDR	Grading	-	-	-	-	-	-	-	-	-	-
	BDZR TLNGS	Tailings Bulldozing	-	-	-	-	-	-	-	-	-	-
	GRDR TLNGS	Tailings Grading	-	-	-	-	-	-	-	-	-	-
Blasting Summary	BORR BLST	Cobre Haul Road Borrow Pit Blasting	-	-	-	-	-	-	-	-	-	-
	CBM BLST	Cobre Mine Hanover Blasting	-	-	-	-	-	-	-	-	-	-
	CM BLST	Chino Mine Blasting	-	-	-	-	-	-	-	-	-	-
Drilling Summary	CBM DRILL	Cobre Mine Drilling	-	-	-	-	-	-	-	-	-	-
	CM DRILL	Chino Mine Drilling	-	-	-	-	-	-	-	-	-	-
Hurley Summary	F-2-1-1.4	Westinghouse Gas Turbine - Hurley Power Plant	-	-	-	-	-	-	0.029	0.13	-	-
	F-2-1-1.5	Heat Recovery Steam Generator - Hurley Power Plant	-	-	-	-	-	-	-	-	-	-
	FLTR/BLND[1]	Filter/Blending Plant	-	-	-	-	-	-	-	-	-	-
GDF Summary	GDF1	Gasoline Dispensing Facility (Crusher)	-	-	-	-	-	-	0.14	0.61	-	-
	GDF2	Gasoline Dispensing Facility (Mill)	-	-	-	-	-	-	0.075	0.33	-	-
	GDF3	Gasoline Dispensing Facility (SXEW)	-	-	-	-	-	-	0.017	0.075	-	-
	GDF4	Gasoline Dispensing Facility (Hurley)	-	-	-	-	-	-	0.089	0.39	-	-
	GDF5	Gasoline Dispensing Facility (Hamilton)	-	-	-	-	-	-	0.037	0.16	-	-

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		HAP's		TAP's		Acetaldehyde		Acrolein		Aluminum		Antimony	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	1.76E-04	2.34E-04	7.25E-03	9.62E-03	-	-	-	-	-	-	4.84E-06	6.42E-06
	LHS-01	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	4.91E-06	2.15E-05	2.02E-04	8.85E-04	-	-	-	-	-	-	1.35E-07	5.91E-07
	PC-01	Primary Crusher	2.52E-04	1.10E-03	0.010	0.045	-	-	-	-	-	-	6.92E-06	3.03E-05
	IOS	Stock Pile Wind Erosion	6.88E-04	3.01E-03	0.028	0.12	-	-	-	-	-	-	1.89E-05	8.28E-05
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	1.73E-04	7.72E-04	7.12E-03	0.032	-	-	-	-	-	-	4.76E-06	2.12E-05
	SCDP	Stacker Conveyor	5.34E-05	2.34E-04	2.20E-03	9.62E-03	-	-	-	-	-	-	1.47E-06	6.42E-06
	SAG	Underground SAG Mill Tunnel	1.20E-04	5.25E-04	4.93E-03	0.022	-	-	-	-	-	-	3.29E-06	1.44E-05
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crusher Baghouse	3.62E-06	1.59E-05	1.49E-04	6.52E-04	-	-	-	-	-	-	9.95E-08	4.36E-07
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	4.04E-04	8.85E-04	0.017	0.036	-	-	-	-	-	-	1.11E-05	2.43E-05
	CB SCRN ENG	Cobre Screening Plant Engine	5.40E-03	0.012	-	-	1.10E-03	2.42E-03	1.33E-04	2.91E-04	-	-	-	-
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	0.44	1.94	6.13E-03	0.027	-	-	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW RT	SXEW Plant Raffinate Tank	0.058	0.25	7.46E-04	3.27E-03	-	-	-	-	-	-	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	2.28	10.00	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	9.15E-03	0.020	0.38	0.83	-	-	-	-	-	-	2.52E-04	5.51E-04
Evaporator Summary	EVAP1	Evaporator System	5.76E-03	0.025	0.011	0.049	-	-	-	-	5.12E-03	0.022	-	-
	EVAP2	Evaporator System	5.76E-03	0.025	0.011	0.049	-	-	-	-	5.12E-03	0.022	-	-
	EVAP3	Evaporator System	5.76E-03	0.025	0.011	0.049	-	-	-	-	5.12E-03	0.022	-	-
	EVAP4	Evaporator System	5.76E-03	0.025	0.011	0.049	-	-	-	-	5.12E-03	0.022	-	-
HAP Totals			**8.67**	**11.43**	**-**	**-**	**0.019**	**0.082**	**3.05E-03**	**0.013**	**-**	**-**	**5.69E-03**	**1.84E-03**
TAP Totals [2]			**-**	**-**	**2.82**	**11.46**	**-**	**-**	**-**	**-**	**0.021**	**0.090**	**3.39E-04**	**8.16E-04**
TAP Screening Threshold											**0.667**		**0.0333**	
Air Dispersion Modeling Required?											**NO**		**NO**	

*Polycyclic Organic Matter (compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 C

[1] Emergency Engines are not included in the Emissions Total since they are exempt under 20.2.72.202.B(3).

[2] Per 20.2.72.402.C.(10) NMAC, non-process fugitive emissions of TAPs from stationary sources are exempt from the permitting requirements for TAPs. While the exclusion does not expressly list blasting or define "non-process fugitive emissions," the 1987 rulemaking record for the initial establishment of the TAP provisions clarifies that the intent was to primarily review releases from stacks, vents, or ducts for the purpose of applicability. However, process fugitives such as those from a smelter were also considered appropriate for review. The exemption for non-process fugitive emissions was therefore established to clarify TAP program applicability solely to process emissions (those exiting a stack or escaping as fugitives) and not to "non-process" fugitive emissions from sources "such as construction sites, unpaved roads, coal piles, tailing piles, waste piles, and fuel and ash handling operations." Therefore, tailings piles, unpaved roads, and blasting have been excluded from these totals.

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Arsenic		Barium		Benzene		Beryllium		1,3-Butadiene		Cadmium	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	5.34E-06	7.09E-06	3.06E-04	4.05E-04	-	-	1.59E-06	2.11E-06	-	-	1.01E-06	1.34E-06
	LHS-01	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	1.49E-07	6.52E-07	8.51E-06	3.73E-05	-	-	4.42E-08	1.94E-07	-	-	2.82E-08	1.24E-07
	PC-01	Primary Crusher	7.63E-06	3.34E-05	4.36E-04	1.91E-03	-	-	2.27E-06	9.93E-06	-	-	1.45E-06	6.34E-06
	IOS	Stock Pile Wind Erosion	2.08E-05	9.13E-05	1.19E-03	5.22E-03	-	-	6.19E-06	2.71E-05	-	-	3.95E-06	1.73E-05
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	5.25E-06	2.34E-05	3.00E-04	1.34E-03	-	-	1.56E-06	6.95E-06	-	-	9.95E-07	4.44E-06
	SCDP	Stacker Conveyor	1.62E-06	7.09E-06	9.25E-05	4.05E-04	-	-	4.81E-07	2.11E-06	-	-	3.07E-07	1.34E-06
	SAG	Underground SAG Mill Tunnel	3.63E-06	1.59E-05	2.08E-04	9.10E-04	-	-	1.08E-06	4.73E-06	-	-	6.89E-07	3.02E-06
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crusher Baghouse	1.10E-07	4.80E-07	6.27E-06	2.75E-05	-	-	3.26E-08	1.43E-07	-	-	2.08E-08	9.11E-08
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	1.23E-05	2.68E-05	7.01E-04	1.53E-03	-	-	3.64E-06	7.98E-06	-	-	2.32E-06	5.09E-06
	CB SCRN ENG	Cobre Screening Plant Engine	-	-	-	-	1.34E-03	2.94E-03	-	-	-	-	-	-
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	-	-	0.042	0.19	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW RT	SXEW Plant Raffinate Tank	-	-	-	-	4.24E-03	0.019	-	-	-	-	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	-	-	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	2.77E-04	6.08E-04	0.016	0.035	-	-	8.25E-05	1.81E-04	-	-	5.26E-05	1.15E-04
Evaporator Summary	EVAP1	Evaporator System	1.18E-07	5.16E-07	-	-	-	-	-	-	-	-	6.09E-04	2.67E-03
	EVAP2	Evaporator System	1.18E-07	5.16E-07	-	-	-	-	-	-	-	-	6.09E-04	2.67E-03
	EVAP3	Evaporator System	1.18E-07	5.16E-07	-	-	-	-	-	-	-	-	6.09E-04	2.67E-03
	EVAP4	Evaporator System	1.18E-07	5.16E-07	-	-	-	-	-	-	-	-	6.09E-04	2.67E-03
		HAP Totals	**7.26E-03**	**2.51E-03**	**-**	**-**	**0.17**	**0.74**	**0.27**	**0.051**	**1.96E-04**	**8.57E-04**	**3.90E-03**	**0.011**
		TAP Totals [2]	**-**	**-**	**0.020**	**0.050**	**-**	**-**	**-**	**-**	**-**	**-**	**2.50E-03**	**0.011**
		TAP Screening Threshold			**0.0333**								**0.0033**	
		Air Dispersion Modeling Required?			**NO**								**NO**	

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Chlorine		Chromium		Cobalt		Copper		Cresylic Acid		Dichlorobenzene	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	-	-	5.08E-05	6.74E-05	4.75E-05	6.30E-05	6.69E-03	8.87E-03	-	-	-	-
	LHS-01	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	-	-	1.42E-06	6.20E-06	1.32E-06	5.80E-06	1.86E-04	8.16E-04	-	-	-	-
	PC-01	Primary Crusher	-	-	7.26E-05	3.18E-04	6.79E-05	2.97E-04	9.56E-03	0.042	-	-	-	-
	IOS	Stock Pile Wind Erosion	-	-	1.98E-04	8.68E-04	1.85E-04	8.12E-04	0.026	0.11	-	-	-	-
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	-	-	4.99E-05	2.23E-04	4.67E-05	2.08E-04	6.57E-03	0.029	-	-	-	-
	SCDP	Stacker Conveyor	-	-	1.54E-05	6.74E-05	1.44E-05	6.30E-05	2.03E-03	8.87E-03	-	-	-	-
	SAG	Underground SAG Mill Tunnel	-	-	3.46E-05	1.51E-04	3.23E-05	1.42E-04	4.55E-03	0.020	-	-	-	-
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crusher Baghouse	-	-	1.04E-06	4.57E-06	9.76E-07	4.27E-06	1.37E-04	6.02E-04	-	-	-	-
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	-	-	1.17E-04	2.55E-04	1.09E-04	2.39E-04	0.015	0.034	-	-	-	-
	CB SCRN ENG	Cobre Screening Plant Engine	-	-	-	-	-	-	-	-	-	-	-	-
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW RT	SXEW Plant Raffinate Tank	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	-	-	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	-	-	2.64E-03	5.78E-03	2.47E-03	5.41E-03	0.35	0.76	-	-	-	-
Evaporator Summary	EVAP1	Evaporator System	8.55E-05	3.74E-04	6.90E-07	3.02E-06	4.66E-05	2.04E-04	5.64E-04	2.47E-03	-	-	-	-
	EVAP2	Evaporator System	8.55E-05	3.74E-04	6.90E-07	3.02E-06	4.66E-05	2.04E-04	5.64E-04	2.47E-03	-	-	-	-
	EVAP3	Evaporator System	8.55E-05	3.74E-04	6.90E-07	3.02E-06	4.66E-05	2.04E-04	5.64E-04	2.47E-03	-	-	-	-
	EVAP4	Evaporator System	8.55E-05	3.74E-04	6.90E-07	3.02E-06	4.66E-05	2.04E-04	5.64E-04	2.47E-03	-	-	-	-
HAP Totals			**3.93E-04**	**1.96E-03**	**5.34E-03**	**0.011**	**0.098**	**0.028**	**-**	**-**	**-**	**-**	**5.74E-05**	**2.51E-04**
TAP Totals [2]			**-**	**-**	**3.51E-03**	**9.17E-03**	**3.28E-03**	**8.58E-03**	**0.43**	**1.07**	**-**	**-**	**5.74E-05**	**2.51E-04**
TAP Screening Threshold					**0.0333**		**0.00667**		**0.0667**				**20.0**	
Air Dispersion Modeling Required?					**NO**		**NO**		**YES**				**NO**	

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		2,6-Dimethyl-4-heptanone		Ethylbenzene		Fluoranthene*		Fluorene*		Formaldehyde		Hexane	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	-	-	-	-	-	-	-	-	-	-	-	-
	LHS-01	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	-	-	-	-	-	-	-	-	-	-	-	-
	PC-01	Primary Crusher	-	-	-	-	-	-	-	-	-	-	-	-
	IOS	Stock Pile Wind Erosion	-	-	-	-	-	-	-	-	-	-	-	-
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	-	-	-	-	-	-	-	-	-	-	-	-
	SCDP	Stacker Conveyor	-	-	-	-	-	-	-	-	-	-	-	-
	SAG	Underground SAG Mill Tunnel	-	-	-	-	-	-	-	-	-	-	-	-
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crusher Baghouse	-	-	-	-	-	-	-	-	-	-	-	-
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	-	-	-	-	-	-	-	-	-	-	-	-
	CB SCRN ENG	Cobre Screening Plant Engine	-	-	-	-	-	-	-	-	1.70E-03	3.72E-03	-	-
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	0.049	0.22	-	-	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW RT	SXEW Plant Raffinate Tank	-	-	4.96E-03	0.022	-	-	-	-	-	-	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	-	-	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	-	-	-	-	-	-	-	-	-	-	-	-
Evaporator Summary	EVAP1	Evaporator System	-	-	-	-	-	-	2.37E-04	1.04E-03	-	-	-	-
	EVAP2	Evaporator System	-	-	-	-	-	-	2.37E-04	1.04E-03	-	-	-	-
	EVAP3	Evaporator System	-	-	-	-	-	-	2.37E-04	1.04E-03	-	-	-	-
	EVAP4	Evaporator System	-	-	-	-	-	-	2.37E-04	1.04E-03	-	-	-	-
HAP Totals			**-**	**-**	**0.14**	**0.61**	**1.44E-07**	**6.29E-07**	**9.65E-04**	**4.30E-03**	**0.33**	**1.43**	**0.18**	**0.79**
TAP Totals [2]			**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
TAP Screening Threshold			**16.7**											
Air Dispersion Modeling Required?			**NO**											

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Lead		Manganese		Mercury		4-Methyl-2-pentanone		Molybdenum		Naphthalene	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	7.16E-06	9.49E-06	3.66E-05	4.86E-05	-	-	-	-	1.15E-05	1.52E-05	-	-
	LHS-01	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	1.99E-07	8.74E-07	1.02E-06	4.47E-06	-	-	-	-	3.19E-07	1.40E-06	-	-
	PC-01	Primary Crusher	1.02E-05	4.48E-05	5.23E-05	2.29E-04	-	-	-	-	1.64E-05	7.17E-05	-	-
	IOS	Stock Pile Wind Erosion	2.79E-05	1.22E-04	1.43E-04	6.26E-04	-	-	-	-	4.47E-05	1.96E-04	-	-
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	7.03E-06	3.13E-05	3.60E-05	1.60E-04	-	-	-	-	1.13E-05	5.02E-05	-	-
	SCDP	Stacker Conveyor	2.17E-06	9.49E-06	1.11E-05	4.86E-05	-	-	-	-	3.47E-06	1.52E-05	-	-
	SAG	Underground SAG Mill Tunnel	4.87E-06	2.13E-05	2.49E-05	1.09E-04	-	-	-	-	7.80E-06	3.41E-05	-	-
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crusher Baghouse	1.47E-07	6.44E-07	7.52E-07	3.29E-06	-	-	-	-	2.35E-07	1.03E-06	-	-
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	1.64E-05	3.60E-05	8.40E-05	1.84E-04	-	-	-	-	2.63E-05	1.07E-04	-	-
	CB SCRN ENG	Cobre Screening Plant Engine	-	-	-	-	-	-	-	-	-	-	1.22E-04	2.67E-04
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW RT	SXEW Plant Raffinate Tank	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	-	-	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	3.72E-04	8.14E-04	1.90E-03	4.17E-03	-	-	-	-	5.95E-04	1.30E-03	-	-
Evaporator Summary	EVAP1	Evaporator System	8.58E-07	5.41E-05	4.76E-03	0.021	-	-	-	-	-	-	-	-
	EVAP2	Evaporator System	8.58E-07	5.41E-05	4.76E-03	0.021	-	-	-	-	-	-	-	-
	EVAP3	Evaporator System	8.58E-07	5.41E-05	4.76E-03	0.021	-	-	-	-	-	-	-	-
	EVAP4	Evaporator System	8.58E-07	5.41E-05	4.76E-03	0.021	-	-	-	-	-	-	-	-
HAP Totals			**0.042**	**9.80E-03**	**5.90**	**1.24**	**-**	**-**	**-**	**-**	**-**	**-**	**7.43E-04**	**2.99E-03**
TAP Totals [2]			**-**	**-**	**0.022**	**0.091**	**-**	**-**	**-**	**-**	**7.21E-04**	**1.81E-03**	**-**	**-**
TAP Screening Threshold					**0.333**				**16.0**			**0.667**		
Air Dispersion Modeling Required?					**NO**				**NO**			**NO**		

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Nickel		PAH		Phenanthrene*		Propylene Oxide		Pyrene*		Selenium	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	2.13E-05	2.83E-05	-	-	-	-	-	-	-	-	-	-
	LHS-01	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	5.94E-07	2.60E-06	-	-	-	-	-	-	-	-	-	-
	PC-01	Primary Crusher	3.05E-05	1.33E-04	-	-	-	-	-	-	-	-	-	-
	IOS	Stock Pile Wind Erosion	8.32E-05	3.64E-04	-	-	-	-	-	-	-	-	-	-
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	2.09E-05	9.34E-05	-	-	-	-	-	-	-	-	-	-
	SCDP	Stacker Conveyor	6.46E-06	2.83E-05	-	-	-	-	-	-	-	-	-	-
	SAG	Underground SAG Mill Tunnel	1.45E-05	6.35E-05	-	-	-	-	-	-	-	-	-	-
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crusher Baghouse	4.38E-07	1.92E-06	-	-	-	-	-	-	-	-	-	-
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	4.89E-05	1.07E-04	-	-	-	-	-	-	-	-	-	-
	CB SCRN ENG	Cobre Screening Plant Engine	-	-	-	-	-	-	-	-	-	-	-	-
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW RT	SXEW Plant Raffinate Tank	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	-	-	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	1.11E-03	2.43E-03	-	-	-	-	-	-	-	-	-	-
Evaporator Summary	EVAP1	Evaporator System	1.24E-05	5.41E-05	-	-	-	-	-	-	-	-	4.58E-06	2.01E-05
	EVAP2	Evaporator System	1.24E-05	5.41E-05	-	-	-	-	-	-	-	-	4.58E-06	2.01E-05
	EVAP3	Evaporator System	1.24E-05	5.41E-05	-	-	-	-	-	-	-	-	4.58E-06	2.01E-05
	EVAP4	Evaporator System	1.24E-05	5.41E-05	-	-	-	-	-	-	-	-	4.58E-06	2.01E-05
		HAP Totals	**0.029**	**9.70E-03**	**1.00E-03**	**4.38E-03**	**8.13E-07**	**3.56E-06**	**0.013**	**0.058**	**2.39E-07**	**1.05E-06**	**5.20E-05**	**3.84E-04**
		TAP Totals [2]	**1.40E-03**	**3.52E-03**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1.83E-05**	**8.02E-05**
		TAP Screening Threshold	**0.0667**										**0.0133**	
		Air Dispersion Modeling Required?	**NO**										**NO**	

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		Silver		Sodium Hydroxide		Sulfuric acid		Thallium		Toluene		1,2,4 - trimethylbenzene	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	3.58E-07	4.75E-07	-	-	-	-	1.01E-05	1.34E-05	-	-	-	-
	LHS-01	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	9.97E-09	4.37E-08	-	-	-	-	2.82E-07	1.24E-06	-	-	-	-
	PC-01	Primary Crusher	5.11E-07	2.24E-06	-	-	-	-	1.45E-05	6.34E-05	-	-	-	-
	IOS	Stock Pile Wind Erosion	1.40E-06	6.11E-06	-	-	-	-	3.95E-05	1.73E-04	-	-	-	-
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	3.51E-07	1.57E-06	-	-	-	-	9.95E-06	4.44E-05	-	-	-	-
	SCDP	Stacker Conveyor	1.08E-07	4.75E-07	-	-	-	-	3.07E-06	1.34E-05	-	-	-	-
	SAG	Underground SAG Mill Tunnel	2.43E-07	1.07E-06	-	-	-	-	6.89E-06	3.02E-05	-	-	-	-
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crusher Baghouse	7.35E-09	3.22E-08	-	-	-	-	2.08E-07	9.11E-07	-	-	-	-
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	8.21E-07	1.80E-06	-	-	-	-	2.32E-05	5.09E-05	-	-	-	-
	CB SCRN ENG	Cobre Screening Plant Engine	-	-	-	-	-	-	-	-	5.88E-04	1.29E-03	-	-
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	-	-	-	-	-	-	-	-	0.30	1.32	7.81E-04	3.42E-03
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	-	-	-	-	-	-	-	-
	SXEW RT	SXEW Plant Raffinate Tank	-	-	-	-	-	-	-	-	0.030	0.13	1.01E-04	4.41E-04
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	-	-	2.28	10.00	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	1.86E-05	4.07E-05	-	-	-	-	5.26E-04	1.15E-03	-	-	-	-
Evaporator Summary	EVAP1	Evaporator System	-	-	-	-	-	-	-	-	-	-	-	-
	EVAP2	Evaporator System	-	-	-	-	-	-	-	-	-	-	-	-
	EVAP3	Evaporator System	-	-	-	-	-	-	-	-	-	-	-	-
	EVAP4	Evaporator System	-	-	-	-	-	-	-	-	-	-	-	-
		HAP Totals	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**0.99**	**4.32**	**-**	**-**
		TAP Totals [2]	**2.27E-05**	**5.59E-05**	**-**	**-**	**2.30**	**10.08**	**7.60E-04**	**2.10E-03**	**-**	**-**	**8.82E-04**	**3.86E-03**
		TAP Screening Threshold	**0.00667**		**0.133**		**0.0667**		**0.00667**				**8.33**	
		Air Dispersion Modeling Required?	**NO**		**NO**		**YES**		**NO**				**NO**	

Controlled HAP & TAP Emissions Summary

Grouping	SOURCE		1,3,5 - trimethylbenzene		Uranium		Vanadium		Xylene		Zinc	
			lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Ivanhoe Summary	CV-01C	Coarse Ore Conveyor Transfer	-	-	-	-	5.01E-05	6.65E-05	-	-	2.53E-05	3.36E-05
	LHS-01	Ivanhoe Concentrator Lime Handling System	-	-	-	-	-	-	-	-	-	-
	LUS-01	Ivanhoe Concentrator Lime Unloading System	-	-	-	-	-	-	-	-	-	-
	PC DUMP	Primary Crusher Dump Pocket	-	-	-	-	1.40E-06	6.12E-06	-	-	7.05E-07	3.09E-06
	PC-01	Primary Crusher	-	-	-	-	7.16E-05	3.14E-04	-	-	3.61E-05	1.58E-04
	IOS	Stock Pile Wind Erosion	-	-	-	-	1.96E-04	8.57E-04	-	-	9.87E-05	4.32E-04
	SAG-F1	SAG Mill Feeders No. 1 and No. 2	-	-	-	-	4.92E-05	2.20E-04	-	-	2.48E-05	1.11E-04
	SCDP	Stacker Conveyor	-	-	-	-	1.52E-05	6.65E-05	-	-	7.66E-06	3.36E-05
	SAG	Underground SAG Mill Tunnel	-	-	-	-	3.41E-05	1.49E-04	-	-	1.72E-05	7.54E-05
	FLOAT	Sag Mill Floatation	-	-	-	-	-	-	-	-	-	-
	RCB-01	Recycle Crusher Baghouse	-	-	-	-	1.03E-06	4.51E-06	-	-	5.19E-07	2.27E-06
SCRN Summary	CB SCRN	Cobre Screening Plant Material Handling	-	-	-	-	1.15E-04	2.52E-04	-	-	5.80E-05	1.27E-04
	CB SCRN ENG	Cobre Screening Plant Engine	-	-	-	-	-	-	4.10E-04	8.98E-04	-	-
SXEW Summary	SXEW 8MST	SXEW Plant Eight Mixer/Settler Tanks	5.35E-03	0.023	-	-	-	-	0.051	0.22	-	-
	SXEW Boiler No. 1	SXEW Plant Boiler No. 1	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 2	SXEW Plant Boiler No. 2	-	-	-	-	-	-	-	-	-	-
	SXEW Boiler No. 3	SXEW Plant Boiler No. 3	-	-	-	-	-	-	-	-	-	-
	SXEW RT	SXEW Plant Raffinate Tank	6.45E-04	2.83E-03	-	-	-	-	0.019	0.081	-	-
	SXEW SAT	SXEW Plant Acid Tankhouse	-	-	-	-	-	-	-	-	-	-
WH Crusher Summary	WH Crush	White House Crushing Plant	-	-	-	-	2.60E-03	5.70E-03	-	-	1.31E-03	2.88E-03
Evaporator Summary	EVAP1	Evaporator System	-	-	2.04E-06	8.92E-06	-	-	-	-	-	-
	EVAP2	Evaporator System	-	-	2.04E-06	8.92E-06	-	-	-	-	-	-
	EVAP3	Evaporator System	-	-	2.04E-06	8.92E-06	-	-	-	-	-	-
	EVAP4	Evaporator System	-	-	2.04E-06	8.92E-06	-	-	-	-	-	-
		HAP Totals	**-**	**-**	**-**	**-**	**-**	**-**	**0.46**	**2.00**	**-**	**-**
		TAP Totals [2]	**6.00E-03**	**0.026**	**8.15E-06**	**3.57E-05**	**3.15E-03**	**7.70E-03**	**-**	**-**	**1.81E-03**	**4.85E-03**
		TAP Screening Threshold	**8.33**		**0.0133**		**0.00333**				**0.333**	
		Air Dispersion Modeling Required?	**NO**		**NO**		**NO**				**NO**	

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Waste/Leach/Ore Speciation

Element Name	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Element Symbol	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Ag	Tl	V	Zn
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Waste	3.53E-04	3.69E-04	1.95E-02	5.32E-05	1.32E-04	3.96E-03	1.70E-03	6.95E-02	2.18E-03	5.36E-02	4.71E-04	1.15E-03	2.89E-05	4.22E-04	3.52E-03	3.22E-02
Leach	4.06E-04	5.24E-04	9.65E-03	5.97E-05	1.22E-04	7.25E-03	2.69E-03	1.95E-01	1.37E-03	2.33E-02	5.82E-04	1.55E-03	4.45E-05	8.30E-04	2.40E-03	1.82E-02
Ore	3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

[1]Information based on 2024 TRI compositions and throughputs.

CHINO Final Data 2024																
	Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mn	Mo	Ni	Pb	Sb	Tl	V	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Waste	0.3	3.7	195.3	0.5	1.3	17.0	39.6	695.4	536.5	4.7	11.5	21.8	3.5	4.2	35.2	322.4
Leach	0.4	5.2	96.5	0.6	1.2	26.9	72.5	1954.9	233.4	5.8	15.5	13.7	4.1	8.3	24.0	181.8
Ore	0.2	3.5	202.1	1.1	0.7	31.4	33.6	4424.1	24.2	7.6	14.1	4.7	3.2	6.7	33.2	16.7

	Estrella Averages															
	Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mn	Mo	Ni	Pb	Sb	Tl	V	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Waste	0.3	2.5	480.5	1.0	1.4	21.9	68.0	495.2	220.7	6.3	12.3	24.2	0.9	2.7	71.3	455.3
Leach	0.80	5.63	160.00	0.75	1.58	14.60	175.25	1138.75	560.50	2.00	10.40	30.40	2.58	5.63	47.75	443.75
Ore	0.3	1	456	2	0.1	17.5	80	3560	38	3.4	9.1	6	0.1	1	74	40

	Lee Hill Averages															
	Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mn	Mo	Ni	Pb	Sb	Tl	V	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Waste	0.7	1.5	502.0	2.1	0.2	34.9	30.2	796.1	345.2	36.3	18.0	28.6	2.5	0.7	65.9	77.6
Leach																
Ore	1.2	4.7	93.8	2.2	1.8	22.2	34.3	3206.4	2026.9	18.6	12.8	13.2	1.5	0.2	46.7	734.0

	Canyon Averages															
	Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mn	Mo	Ni	Pb	Sb	Tl	V	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Waste	0.3	4.1	27.1	0.2	1.4	12.0	30.9	261.1	977.8	3.8	11.8	27.5	5.0	3.2	18.8	339.7
Leach	0.7	5.0	30.0	0.5	1.0	27.3	19.0	1630.7	246.7	2.7	25.0	6.0	5.0	10.0	23.7	238.3
Ore	0.8	5.5	33.8	0.3	1.7	38.9	51.9	4201.0	1484.1	3.3	25.9	29.4	13.3	6.0	38.8	176.7

	Hanover Mountain Averages															
	Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mn	Mo	Ni	Pb	Sb	Tl	V	Zn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.2	5.0	60.0	0.5	1.0	20.0	5.0	2234.0	20.0	4.0	9.0	2.0	5.0	10.0	5.0	9.0
	0.2	5.0	57.5	0.5	1.0	35.0	7.0	2510.5	16.3	8.5	18.5	3.0	5.0	10.0	8.3	5.8
	0.2	5.0	55.0	0.5	1.0	39.5	6.8	4924.5	16.3	10.0	17.0	4.0	5.0	10.0	9.5	3.3

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Blasting Emission - Summary

Units: CBM BLST & CM BLST

Blasting Name	Total Emissions															
	NO_x		CO		SO_2		$PM_{2.5}$		PM_{10}		PM		CO_2e	CO_2	N_2O	CH_4
	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
BORR BLST	26.93	0.054	608.08	1.22	0.054	1.08E-04	1.66	3.32E-03	28.78	0.058	55.34	0.11	10.96	10.93	8.86E-05	4.43E-04
CBM BLST	180.00	23.40	4,064.00	528.32	0.36	0.047	18.52	2.41	320.96	41.73	617.23	80.24	4,762.02	4,746.43	0.039	0.19
CM BLST	342.00	46.80	7,721.60	1,056.64	0.68	0.094	19.69	5.12	341.23	88.72	656.21	170.61	9,524.05	9,492.86	0.077	0.39

Blasting Name	Total HAP Emissions[1]																	
	Antimony		Arsenic		Beryllium		Cadmium		Chromium		Cobalt		Lead		Manganese		Nickel	
	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
BORR BLST	1.77E-04	3.55E-07	1.96E-04	3.91E-07	0.011	2.24E-05	5.81E-05	1.16E-07	3.71E-05	7.41E-08	1.86E-03	3.72E-06	1.74E-03	3.48E-06	0.24	4.90E-04	2.62E-04	5.24E-07
CBM BLST	2.51E-03	3.26E-04	3.24E-03	4.21E-04	0.12	0.016	6.48E-04	8.43E-05	8.12E-04	1.06E-04	0.045	5.82E-03	0.019	2.52E-03	2.73	0.35	0.013	1.75E-03
CM BLST	2.66E-03	6.93E-04	3.44E-03	8.94E-04	0.13	0.034	6.89E-04	1.79E-04	8.63E-04	2.24E-04	0.048	0.012	0.021	5.36E-03	2.90	0.75	0.014	3.72E-03

[1]Emissions from blasting are excluded from construction permitting review requirements for toxic air pollutants (TAPs) as non-process fugitive emissions under 20.2.72.402(10) NMAC . While the exclusion does not expressly list blasting or define “non-process fugitive emissions,” the 1987 rulemaking record for the initial establishment of the TAP provisions clarifies that the intent was to primarily review releases from stacks, vents, or ducts for the purpose of applicability. However, process fugitives such as those from a smelter were also considered appropriate for review. The exemption for non-process fugitive emissions was therefore established to clarify TAP program applicability solely to process emissions (those exiting a stack or escaping as fugitives) and not to “non-process” fugitive emissions from sources “such as construction sites, unpaved roads, coal piles, tailing piles, waste piles, and fuel and ash handling operations." Therefore, only HAPs are listed in this table.

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Blasting Emissions - Input

Units: CBM BLST & CM BLST

Cobre Mine - Hanover Blasting

Unit CBM BLST

Basis	Current	Desired	Minimal	
Maximum amount of blasting agent/day:	200,000	200,000	300,000	lbs
Maximum number of blasts/day:	1	2	1	blasts/day
Maximum horizontal area per blast:	124,800	160,000	125,000	ft^2

Chino Mine Blasting

Unit CM BLST

Basis	Current	Desired	Minimal	
Maximum amount of blasting agent/day:	400,000	350,000	300,000	lbs
Maximum number of blasts/day:	2	4	4	blasts/day
Maximum amount of blasting agent/event:	380,000			
Maximum horizontal area per blast:	130,000	200,000	125,000	ft^2

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Blasting Emissions - Cobre Haul Road Borrow Pit
Unit: Cobre Haul Road Borrow Pit BLST

	Basis	
Pounds of ANFO per hole:	570	lbs
Number of Holes:	210	
Burden Area per Hole:	528	ft^2
Maximum amount of blasting agent/day:	119,700	lbs
Maximum number of blasts/day:	4	blasts/day
Maximum amount of blasting agent/event:	29,925	lbs
Maximum amount of blasting agent/year:	60	tons
X Dimension:	500	ft
Y Dimension:	200	ft
Maximum horizontal area per blast:	25,000	ft^2
Diesel fuel usage:	47	gal/day
Diesel fuel usage:	973	gal/yr
Diesel fuel oil to ammonium nitrate blasting products ratio:	6%	
Diesel Fuel Density:	7.38	lb/gal
Event Duration:	2	seconds

Criteria Pollutant	Emission Factor (lb/ton blasting agent)[1]	Emission Rate [2]			
		(lb/event)	(lb/day)	(lb/hr)[3]	(ton/yr)
Nitrogen Oxides (NO_x)	1.80	26.93	107.73	26.93	0.054
Carbon Monoxide (CO)	40.64	608.08	2,432.30	608.08	1.22
Sulfur Dioxide (SO_2)	3.60E-03	0.054	0.22	0.054	1.08E-04

Criteria Pollutant	Emission Rate [4]			
	(lb/event)	(lb/day)	(lb/hr)[3]	(ton/yr)
PM	55.34	221.36	55.34	0.11
PM_{10}	28.78	115.11	28.78	0.058
$PM_{2.5}$	1.66	6.64	1.66	3.32E-03

Federal Hazardous Air Pollutants Content of Waste, Leach, and Ore for Mill (%)[5]

Elements	Ore
	%
Antimony	3.20E-04
Arsenic	3.53E-04
Beryllium	1.05E-04
Cadmium	6.70E-05
Chromium	3.36E-03
Cobalt	3.14E-03
Lead	4.73E-04
Manganese	2.42E-03
Nickel	1.41E-03

HAP Pollutant	Emission Rate [6]			
	(lb/event)	(lb/day)	(lb/hr)	(ton/yr)
Antimony	1.77E-04	7.09E-04	1.77E-04	3.55E-07
Arsenic	1.96E-04	7.82E-04	1.96E-04	3.91E-07
Beryllium	0.011	0.045	0.011	2.24E-05
Cadmium	5.81E-05	2.32E-04	5.81E-05	1.16E-07
Chromium	3.71E-05	1.48E-04	3.71E-05	7.41E-08
Cobalt	1.86E-03	7.44E-03	1.86E-03	3.72E-06
Lead	1.74E-03	6.96E-03	1.74E-03	3.48E-06
Manganese	0.24	0.98	0.24	4.90E-04
Nickel	2.62E-04	1.05E-03	2.62E-04	5.24E-07

Pollutant	Emission Factor (lb/MMBtu)[7]	Emission Rate [8]	
		(lb/day)	(ton/yr)
CO_2	162.71	1,055.35	10.93
N_2O	0.0013	8.56E-03	8.86E-05
CH_4	0.0066	0.043	4.43E-04
CO_2e			**10.96**

Notes:

[1]NOx emission factor is the average of measurements from "NOx Emissions from Blasting Operations in Open-Cut Coal Mining" by Moetaz I. Attalla, Stuart J. Day, Tony Lange, William Lilley, and Scott Morgan (2008).

[1]CO emission factor is the average of the measurements in "Factors Affecting Anfo Fumes Production" by James H. Rowland III and Richard Mainiero (2001).
[1]SO_2 emissions are based on a diesel sulfur content of 15 ppm assuming complete conversion to SO_2.

[2]Pound per event emission rates are based on a maximum use of 29,295 lbs of blasting agent per event. Annual emission rates are based on a maximum annual use of 60 tons of blasting agent.

$$E\left(\frac{lb}{year}\right) = EF\left(\frac{lb}{ton\,of\,blasting\,agent}\right) \times \left(blasting\,agent\,\frac{ton}{year}\right)$$

[3]Pound per hour modeling rate is based the daily emission rates (lb/day) which is converted to a pound per hour rate.
[4]Particulate blasting emissions are based on emission factors from AP-42 Table 11.9-1.

[5]Data taken from Chino 2024 TRI data received from Ellen Silk 9/17/25. Emissions from blasting are excluded from construction permitting review requirements for toxic air pollutants (TAPs) as non-process fugitive emissions under 20.2.72.402(10) NMAC . While the exclusion does not expressly list blasting or define “non-process fugitive emissions,” the 1987 rulemaking record for the initial establishment of the TAP provisions clarifies that the intent was to primarily review releases from stacks, vents, or ducts for the purpose of applicability. However, process fugitives such as those from a smelter were also considered appropriate for review. The exemption for non-process fugitive emissions was therefore established to clarify TAP program applicability solely to process emissions (those exiting a stack or escaping as fugitives) and not to “non-process” fugitive emissions from sources “such as construction sites, unpaved roads, coal piles, tailing piles, waste piles, and fuel and ash handling operations."

[6]HAP emissions calculated based on the HAP percentage and the emissions of PM.
[7]CO_2, N_2O, and CH_4 emission factor per 40 CFR 98 Subpart C, Table C–1, and Table C–2.
[8]CO_2, N_2O, and CH_4 emissions calculated based on emission factors, diesel fuel usage, and diesel fuel HHV of
0.138 MMBtu/gal per 40 CFR 98 Subpart C Table C–1

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Blasting Emissions - Hanover/Continental
Unit: CBM BLST

	Basis	
Maximum amount of blasting agent/day:	200,000	lbs
Maximum number of blasts/day:	1	blasts/day
Maximum amount of blasting agent/event:	200,000	lbs
Maximum amount of blasting agent/year:	26,000	tons
Maximum horizontal area per blast:	124,800	ft^2
Diesel fuel usage:	1,626	gal/day
Diesel fuel usage:	422,764	gal/yr
Diesel fuel oil to ammonium nitrate blasting products ratio:	6%	
Diesel Fuel Density:	7.38	lb/gal
Event Duration:	2	seconds

Criteria Pollutant	Emission Factor (lb/ton blasting agent)[1]	Emission Rate [2]			
		(lb/event)	(lb/day)	(ton/yr)	(lb/hr)[3]
Nitrogen Oxides (NO_x)	1.80	180.00	180.00	23.40	180.00
Carbon Monoxide (CO)	40.64	4,064.00	4,064.00	528.32	4,064.00
Sulfur Dioxide (SO_2)	3.60E-03	0.36	0.36	0.047	0.36

Criteria Pollutant	Emission Rate [4]			
	(lb/event)	(lb/day)	(ton/yr)	(lb/hr)[3]
PM	617.23	617.23	80.24	617.23
PM_{10}	320.96	320.96	41.73	320.96
$PM_{2.5}$	18.52	18.52	2.41	18.52

Federal Hazardous Air Pollutants Content of Waste, Leach, and Ore for Mill (%)[5]

Elements	Waste	Leach	Ore
	%	%	%
Antimony	3.53E-04	4.06E-04	3.20E-04
Arsenic	3.69E-04	5.24E-04	3.53E-04
Beryllium	5.32E-05	5.97E-05	1.05E-04
Cadmium	1.32E-04	1.22E-04	6.70E-05
Chromium	3.96E-03	7.25E-03	3.36E-03
Cobalt	1.70E-03	2.69E-03	3.14E-03
Lead	2.18E-03	1.37E-03	4.73E-04
Manganese	5.36E-02	2.33E-02	2.42E-03
Nickel	1.15E-03	1.55E-03	1.41E-03

HAP Pollutant	Emission Rate [6]			
	(lb/event)	(lb/day)	(ton/yr)	(lb/hr)
Antimony	2.51E-03	2.51E-03	3.26E-04	2.51E-03
Arsenic	3.24E-03	3.24E-03	4.21E-04	3.24E-03
Beryllium	0.12	0.12	0.016	0.12
Cadmium	6.48E-04	6.48E-04	8.43E-05	6.48E-04
Chromium	8.12E-04	8.12E-04	1.06E-04	8.12E-04
Cobalt	0.045	0.045	5.82E-03	0.045
Lead	0.019	0.019	2.52E-03	0.019
Manganese	2.73	2.73	0.35	2.73
Nickel	0.013	0.013	1.75E-03	0.013

Pollutant	Emission Factor (lb/MMBtu)[7]	Emission Rate [8]	
		(lb/day)	(ton/yr)
CO_2	162.71	36,510.99	4,746.43
N_2O	0.0013	0.30	0.039
CH_4	0.0066	1.48	0.19
CO_2e			**4,762.02**

Notes:

[1]NOx emission factor is the average of measurements from "NOx Emissions from Blasting Operations in Open-Cut Coal Mining" by Moetaz I. Attalla, Stuart J. Day, Tony Lange, William Lilley, and Scott Morgan (2008).

[1]CO emission factor is the average of the measurements in "Factors Affecting Anfo Fumes Production" by James H. Rowland III and Richard Mainiero (2001).

[1]SO_2 emissions are based on a diesel sulfur content of 15 ppm assuming complete conversion to SO_2.

[2]Pound per event emission rates are based on a maximum use of 55,000 lbs of blasting agent per event. Annual emission rates are based on a maximum annual use of 14,300 tons of blasting agent.

$$E\left(\frac{lb}{year}\right) = EF\left(\frac{lb}{ton\,of\,blasting\,agent}\right) \times \left(blasting\,agent\,\frac{ton}{year}\right)$$

[3]Pound per hour modeling rate is based the daily emission rates (lb/day) which is converted to a pound per hour rate.

[4]Particulate blasting emissions are based on emission factors from AP-42 Table 11.9-1.

[5]Data taken from Chino 2024 TRI data received from Ellen Silk. Emissions from blasting are excluded from construction permitting review requirements for toxic air pollutants (TAPs) as non-process fugitive emissions under 20.2.72.402(10) NMAC . While the exclusion does not expressly list blasting or define "non-process fugitive emissions," the 1987 rulemaking record for the initial establishment of the TAP provisions clarifies that the intent was to primarily review releases from stacks, vents, or ducts for the purpose of applicability. However, process fugitives such as those from a smelter were also considered appropriate for review. The exemption for non-process fugitive emissions was therefore established to clarify TAP program applicability solely to process emissions (those exiting a stack or escaping as fugitives) and not to "non-process" fugitive emissions from sources "such as construction sites, unpaved roads, coal piles, tailing piles, waste piles, and fuel and ash handling operations."

[6]HAP emissions calculated based on the HAP percentage and the emissions of PM.

[7]CO_2, N_2O, and CH_4 emission factor per 40 CFR 98 Subpart C, Table C–1, and Table C–2.

[8]CO_2, N_2O, and CH_4 emissions calculated based on emission factors, diesel fuel usage, and diesel fuel HHV of

0.138 MMBtu/gal per 40 CFR 98 Subpart C Table C–1

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Blasting Emissions - Chino Mine
Unit: CM BLST

	Basis	
Maximum amount of blasting agent/day:	400,000	lbs
Maximum number of blasts/day:	2	blasts/day
Maximum number of blasts/year:	520	blasts/year
Maximum amount of blasting agent/event:	380,000	lbs
Maximum amount of blasting agent/year:	52,000	tons
Horizontal area per blast:	130,000	ft^2
Diesel fuel usage:	3,252	gal/day
Diesel fuel usage:	845,528	gal/yr
Diesel fuel oil to ammonium nitrate blasting products ratio:	6%	
Diesel Fuel Density =	7.38	lb/gal
Event Duration:	2	seconds

Criteria Pollutant	Emission Factor (lb/ton blasting agent)[1]	Emission Rate [2]			
		(lb/event)	(lb/day)	(ton/yr)	(lb/hr)[3]
Nitrogen Oxides (NO_x)	1.80	342.00	684.00	46.80	342.00
Carbon Monoxide (CO)	40.64	7,721.60	15,443.20	1,056.64	7,721.60
Sulfur Dioxide (SO_2)	3.60E-03	0.68	1.37	0.094	0.68

Criteria Pollutant	Emission Rate [4]			
	(lb/event)	lb/day	(ton/yr)	(lb/hr)[3]
PM	656.21	1,312.42	170.61	656.21
PM_{10}	341.23	682.46	88.72	341.23
$PM_{2.5}$	19.69	39.37	5.12	19.69

Federal Hazardous Air Pollutants Content of Waste, Leach, and Ore for Mill (%)[5]

Elements	Waste	Leach	Ore
	%	%	%
Antimony	3.53E-04	4.06E-04	3.20E-04
Arsenic	3.69E-04	5.24E-04	3.53E-04
Beryllium	5.32E-05	5.97E-05	1.05E-04
Cadmium	1.32E-04	1.22E-04	6.70E-05
Chromium	3.96E-03	7.25E-03	3.36E-03
Cobalt	1.70E-03	2.69E-03	3.14E-03
Copper	6.95E-02	1.95E-01	4.42E-01
Lead	2.18E-03	1.37E-03	4.73E-04
Manganese	5.36E-02	2.33E-02	2.42E-03
Nickel	1.15E-03	1.55E-03	1.41E-03

HAP Pollutant	Emission Rate [6]			
	(lb/event)	lb/day	(ton/yr)	(lb/hr)
Antimony	2.66E-03	5.33E-03	6.93E-04	2.66E-03
Arsenic	3.44E-03	6.88E-03	8.94E-04	3.44E-03
Beryllium	0.13	0.27	0.034	0.13
Cadmium	6.89E-04	1.38E-03	1.79E-04	6.89E-04
Chromium	8.63E-04	1.73E-03	2.24E-04	8.63E-04
Cobalt	0.05	0.095	0.012	0.048
Lead	0.02	0.041	5.36E-03	0.021
Manganese	2.90	5.81	0.75	2.90
Nickel	0.01	0.029	3.72E-03	0.014

Pollutant	Emission Factor (lb/MMBtu)[5]	Emission Rate [6]	
		(lb/day)	(ton/yr)
CO_2	162.71	73,021.97	9,492.86
N_2O	0.0013	0.59	0.077
CH_4	0.0066	2.96	0.39
CO_2e			**9,524.05**

Notes:

[1]NO_x emission factor is the average of measurements from "NO_x Emissions from Blasting Operations in Open-Cut Coal Mining" by Moetaz I. Attalla, Stuart J. Day, Tony

[1]CO emission factor is the average of the measurements in "Factors Affecting Anfo Fumes Production" by James H. Rowland III and Richard Mainiero (2001).

[1]SO_2 emissions are based on a diesel sulfur content of 15 ppm assuming complete conversion to SO_2.

[2]Pound per event emission rates are based on a maximum use of 200,000 lbs of blasting agent per event. Annual emission rates are based on a maximum annual use of 52,000 tons of blasting agent.

$$E\left(\frac{lb}{year}\right) = EF\left(\frac{lb}{ton\,of\,blasting\,agent}\right) \times \left(blasting\,agent\,\frac{ton}{year}\right)$$

[3]Pound per hour modeling rate is based the daily emission rates (lb/day) which is converted to a pound per hour rate.

[4]Particulate blasting emissions are based on emission factors from AP-42 Table 11.9-1.

[5]Data taken from Chino 2024 TRI data received from Ellen Silk. Emissions from blasting are excluded from construction permitting review requirements for toxic air pollutants (TAPs) as non-process fugitive emissions under 20.2.72.402(10) NMAC . While the exclusion does not expressly list blasting or define "non-process fugitive emissions," the 1987 rulemaking record for the initial establishment of the TAP provisions clarifies that the intent was to primarily review releases from stacks, vents, or ducts for the purpose of applicability. However, process fugitives such as those from a smelter were also considered appropriate for review. The exemption for non-process fugitive emissions was therefore established to clarify TAP program applicability solely to process emissions (those exiting a stack or escaping as fugitives) and not to "non-process" fugitive emissions from sources "such as construction sites, unpaved roads, coal piles, tailing piles, waste piles, and fuel and ash handling operations."

[6]HAP emissions calculated based on the HAP percentage and the emissions of PM.

[7]CO_2, N_2O, and CH_4 emission factor per 40 CFR 98 Subpart C, Table C–1, and Table C–2.

[8]CO_2, N_2O, and CH_4 emissions calculated based on emission factors, diesel fuel usage, and diesel fuel HHV of

0.138 MMBtu/gal per 40 CFR 98 Subpart C Table C–1

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Bulldozing and Grading Emission Summary

Units: BZDR, GRDR

Uncontrolled Emission Summary						
Unit Number	**PM**		**PM_{10}**		**$PM_{2.5}$**	
	lb/hr	**ton/yr**	**lb/hr**	**ton/yr**	**lb/hr**	**ton/yr**
BZDR	48.44	212.17	8.30	36.35	5.09	22.28
GRDR	11.18	48.97	3.83	16.75	0.35	1.52
BDZR TLNGS	17.85	39.08	3.06	6.70	1.87	4.10
GRDR TLNGS	4.47	9.79	1.53	3.35	0.14	0.30
Total	**81.94**	**310.01**	**16.71**	**63.15**	**7.45**	**28.20**

Controlled Emission Summary						
Unit Number	**PM**		**PM_{10}**		**$PM_{2.5}$**	
	lb/hr	**ton/yr**	**lb/hr**	**ton/yr**	**lb/hr**	**ton/yr**
BZDR	48.44	212.17	8.30	36.35	5.09	22.28
GRDR	11.18	48.97	3.83	16.75	0.35	1.52
BDZR TLNGS	17.85	39.08	3.06	6.70	1.87	4.10
GRDR TLNGS	4.47	9.79	1.53	3.35	0.14	0.30
Total	**81.94**	**310.01**	**16.71**	**63.15**	**7.45**	**28.20**

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Bulldozing and Grading Inputs

Unit BDZR & GRDR

Bulldozing and Grading			
	Current	**Desired**	**Minimum**
Dozer annual operating hours (hr/yr):	-	8760	-
Total Number of Dozers:	-	19	-
Total Number of Dozers Operating at Once:	-	19	-
Grader annual operating hours (hr/yr):	-	8760	-
Total Number of Graders:	-	5	-
Total Number of Graders Operating at Once:	-	5	-
Material Silt Content (s) (%):	-	4.8	-
Material Moisture Content (M) (%):	-	7.9	-
Grader Average Speed Limit (S) (mph):	-	5	-

Unit BDZR TLNGS & GRDR TLNGS

Tailings Bulldozing and Grading			
	Current	**Desired**	**Minimum**
Tailings Dozer annual operating hours (hr/yr):	-	4380	-
Total Number of Tailings Dozers:	-	7	-
Total Number of Tailings Dozers Operating at Once:	-	7	-
Tailings Grader annual operating hours (hr/yr):	-	4380	-
Total Number of Tailings Graders:	-	2	-
Total Number of Tailings Graders Operating at Once:	-	2	-
Material Silt Content (s) (%):	-	4.8	-
Material Moisture Content (M) (%):	-	7.9	-
Grader Average Speed Limit (S) (mph):	-	5	-

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Bulldozer and Grading

Unit: BDZR & GRDR

Basis		
Dozer annual operating hours:	8,760	hr/yr
Total Number of Dozers:	19	
Total Number of Dozers Operating at Once:	19	
Grader annual operating hours:	8,760	hr/yr
Total Number of Graders:	5	
Total Number of Graders Operating at Once:	5	
Material Silt Content (s):	4.8	%
Material Moisture Content (M):	7.9	%
Grader Average Speed Limit (S):	5	mph
Grader Average Vehicle Miles Traveled:	1	VMT

Criteria Pollutant	Emission Factors			
	PM	PM_{10}	$PM_{2.5}$	Units
Bulldozing [1]	2.55	0.44	0.27	lb/hr
Grading [1]	2.24	0.77	0.069	lb/VMT

Maximum Allowable Emissions

Emissions Activity	PM Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
	lb/hr	tons/yr[2]	lb/hr	tons/yr[2]	lb/hr	tons/yr[2]
Bulldozing	48.44	212.17	8.30	36.35	5.09	22.28
Grading [3]	11.18	48.97	3.83	16.75	0.35	1.52
TOTAL	**59.62**	**261.14**	**12.12**	**53.10**	**5.43**	**23.80**

Requested Allowable Emissions

Emissions Activity	PM Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
	lb/hr	tons/yr[4]	lb/hr	tons/yr[4]	lb/hr	tons/yr[4]
Bulldozing	48.44	212.17	8.30	36.35	5.09	22.28
Grading	11.18	48.97	3.83	16.75	0.35	1.52
TOTAL	**59.62**	**261.14**	**12.12**	**53.10**	**5.43**	**23.80**

Notes:

(1) The emission factors for bulldozing and grading are based on AP-42, Chapter 11.9, Table 11.9-1 Western Surface Coal Mining (October 1998) for overburden. Mean silt content (s) was taken from the NMED guidance document for Aggregate Handling, Storage Pile, and Haul Road Emissions, and the mean vehicle speed (S) is based Table 11.9-3. A material moisture content of 7.8% was taken from AP-42 Table 11.9-3 as the geometric mean of the moisture correction factor for overburden bulldozers. Per footnotes d and e of Table 11.9-1, the PM_{10} and $PM_{2.5}$ scaling factors were applied to the ≤15 µm and PM ≤ 30 µm emission factor equations, respectively.

Bulldozing:

PM ≤ 30 µm EF (lb/hr) = $5.7 * (s)^{1.2} / (M)^{1.3}$

≤ 15 µm EF (lb/hr) = $1.0 * (s)^{1.5} / (M)^{1.4}$

Grading:

PM ≤ 30 µm EF (lb/VMT) = $0.040 * (S)^{2.5}$

≤ 15 µm EF (lb/VMT) = $0.051 * (S)^{2.0}$

(2) Maximum allowable hourly emissions are based on the total number of dozers/graders at the facility. Maximum annual emissions are based on the annual operating hours of all dozers/graders.

(3) Hourly emission rates are based on a speed limit of 5 miles per hour

Grader (lb/hr) = EF (lb/VMT) * 5 mph * # Graders Operating at Once

(4) Requested allowable hourly emissions are based on the total number of dozers/graders at once the facility. Requested allowable annual emissions are based on the total annual operating hours of all dozers/graders operating at once.

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Bulldozer and Grading - Tailings

Unit: BDZR TLNGS & GRDR TLNGS

	Basis	
Tailings Dozer annual operating hours (hr/yr):	4,380	hr/yr
Total Number of Tailings Dozers:	7	
Total Number of Tailings Dozers Operating at Once:	7	
Tailings Grader annual operating hours (hr/yr):	4,380	hr/yr
Total Number of Tailings Graders:	2	
Total Number of Tailings Graders Operating at Once:	2	
Material Silt Content (s) (%):	4.8	%
Material Moisture Content (M) (%):	7.9	%
Grader Average Speed Limit (S) (mph):	5	mph
Grader Average Vehicle Miles Traveled:	1	VMT

Criteria Pollutant	Emission Factors			
	PM	PM_{10}	$PM_{2.5}$	Units
Bulldozing [1]	2.55	0.44	0.27	lb/hr
Grading [1]	2.24	0.77	0.069	lb/VMT

Maximum Allowable Emissions

Emissions Activity	PM Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
	lb/hr	tons/yr[2]	lb/hr	tons/yr[2]	lb/hr	tons/yr[2]
Bulldozing	17.85	39.08	3.06	6.70	1.87	4.10
Grading [3]	4.47	9.79	1.53	3.35	0.14	0.30
TOTAL	**22.32**	**48.88**	**4.59**	**10.05**	**2.01**	**4.41**

Requested Allowable Emissions

Emissions Activity	PM Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
	lb/hr	tons/yr[4]	lb/hr	tons/yr[4]	lb/hr	tons/yr[4]
Bulldozing	17.85	39.08	3.06	6.70	1.87	4.10
Grading	4.47	9.79	1.53	3.35	0.14	0.30
TOTAL	**22.32**	**48.88**	**4.59**	**10.05**	**2.01**	**4.41**

Notes:

(1) The emission factors for bulldozing and grading are based on AP-42, Chapter 11.9, Table 11.9-1 Western Surface Coal Mining (October 1998) for overburden. Mean silt content (s) was taken from the NMED guidance document for Aggregate Handling, Storage Pile, and Haul Road Emissions, and the mean vehicle speed (S) is based Table 11.9-3. A material moisture content of 7.8% was taken from AP-42 Table 11.9-3 as the geometric mean of the moisture correction factor for overburden bulldozers. Per footnotes d and e of Table 11.9-1, the PM_{10} and $PM_{2.5}$ scaling factors were applied to the ≤15 µm and PM ≤ 30 µm emission factor equations, respectively.

Bulldozing:

PM ≤ 30 µm EF (lb/hr) = $5.7 * (s)^{1.2} / (M)^{1.3}$

≤ 15 µm EF (lb/hr) = $1.0 * (s)^{1.5} / (M)^{1.4}$

Grading:

PM ≤ 30 µm EF (lb/VMT) = $0.040 * (S)^{2.5}$

≤ 15 µm EF (lb/VMT) = $0.051 * (S)^{2.0}$

(2) Maximum allowable hourly emissions are based on the total number of dozers/graders at the facility. Maximum annual emissions are based on the annual operating hours of all dozers/graders.

(3) Hourly emission rates are based on a speed limit of 5 miles per hour

Grader (lb/hr) = EF (lb/VMT) * 5 mph * # Graders Operating at Once

(4) Requested allowable hourly emissions are based on the total number of dozers/graders at once the facility. Requested allowable annual emissions are based on the total annual operating hours of all dozers/graders operating at once.

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Drilling Emission - Summary

Units: CBM DRILL & CM DRILL

Unit Number	Total Emissions					
	PM		PM_{10}		$PM_{2.5}$	
	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
CBM DRILL	11.70	5.47	7.02	3.28	1.26	0.59
CM DRILL	13.00	15.01	7.80	9.01	1.40	1.62

* Hourly emissions are not appropriate for this unit.

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Drilling Emissions - Input
Units: CBM DRILL & CM DRILL

Annual Drilling[1]		2024		2025		2026		2027		2028		MAX		Safety Factor		MAX	
	Pit	Ktons	Holes	Ktons	Holes	Ktons	Holes	Ktons	Holes	Ktons	Holes	Ktons	Holes	Ktons	Holes	Ktons	Holes
Chino Drilling	ERL	23,130	5,507	26,485	6,306	21,720	5,172	20,891	4,974	11,870	2,826	26,485	6,306	50%	50%	39,728	9,459
	NERL	675	519	0	0	0	0	0	0	0	0	675	519	25%	25%	844	649
	CAN	1,110	370	11,576	3,859	17,247	5,749	16,179	5,393	31,171	10,390	31,171	10,390	25%	25%	38,964	12,988
Cobre Drilling	HAN	19,341	6,447	19,679	6,560	20,201	6,734	20,153	6,718	0	0	20,201	6,734	25%	25%	25,251	8,418

[1] Annual Drilling is based on the latest forcast of the Chino Mine Plan through 2028.

Hourly Drilling	Max Holes/hour[1]	Ktons/hr
Chino Drilling	10	40.14
Cobre Drilling	9	27.0

[1] Maximum drill holes per hour is based on the historical maximum number of holes drilled per hour (2022-2025).

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Drilling Emissions - Chino Mine

Unit: CM DRILL

	Basis	
Maximum drill holes per hour:	10	holes
Maximum amount of drill holes per year:	23,095	holes
Maximum tonnage per year:	79,535,000	tons/year

Criteria Pollutant	Emission Factor (lb/hole)	Emission Rate (lb/hr)	Emission Rate (ton/yr)
PM[1]	1.30	13.00	15.01
PM_{10}[2]	0.78	7.80	9.01
$PM_{2.5}$[3]	0.14	1.40	1.62

Notes:

[1] PM emission factor obtained from AP-42, Section 11.9, Table 11.9-4 (7/98) for drilling of overburden at western surface coal mines.

[2] PM_{10} emission factor based on fraction of PM_{10} to PM emissions (60%) for tertiary crushing (controlled) based on the PM_{30} and PM_{10} emission factors in AP-42 Table 11.19.2-2.

[3] $PM_{2.5}$ emission factor based on fraction of $PM_{2.5}$ to PM emissions (11.1%) for tertiary crushing (controlled) based on the PM_{30} and $PM_{2.5}$ emission factors in AP-42 Table 11.19.2-2.

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Drilling Emissions - Hanover/Continental

Unit: CBM DRILL

	Basis	
Maximum drill holes per hour:	9	holes
Maximum amount of drill holes per year:	8,418	holes
Maximum tonnage per year:	25,251,250	tons/year

Criteria Pollutant	Emission Factor (lb/hole)	Emission Rate (lb/hr)	Emission Rate (ton/yr)
PM[1]	1.30	11.70	5.47
PM_{10}[2]	0.78	7.02	3.28
$PM_{2.5}$[3]	0.14	1.26	0.59

Notes:

[1] PM emission factor obtained from AP-42, Section 11.9, Table 11.9-4 (7/98) for drilling of overburden at western surface coal mines.

[2] PM_{10} emission factor based on fraction of PM_{10} to PM emissions (60%) for tertiary crushing (controlled) based on the PM_{30} and PM_{10}

[3] $PM_{2.5}$ emission factor based on fraction of $PM_{2.5}$ to PM emissions (11.1%) for tertiary crushing (controlled) based on the PM_{30} and

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Cobre Mine - Emergency Generator Engine Emissions
Units: See Unit ID

SOURCE		CONTROLLED EMISSIONS																							
		NO_x		CO		VOC		SO_2		PM		PM_{10}		$PM_{2.5}$		Lead		Total HAPs		Formaldehyde		CO_2e	CO_2	N_2O	CH_4
ID	Description	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
EE5	SXEW Emergency Fire Pump	6.51	1.63	1.40	0.35	0.52	0.13	2.24E-03	5.59E-04	0.46	0.11	0.46	0.11	0.46	0.11	-	-	5.54E-03	1.38E-03	1.74E-03	4.35E-04	54.75	54.57	4.43E-04	2.21E-03
Sxlpwrprm8	20 Dam Hanover	8.91	2.23	1.92	0.48	0.71	0.18	3.06E-03	7.65E-04	0.63	0.16	0.63	0.16	0.63	0.16	-	-	7.58E-03	1.89E-03	2.38E-03	5.96E-04	74.97	74.72	6.06E-04	3.03E-03
Sxlpwrprm5	11 Dam Hanover	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04	0.52	0.13	0.52	0.13	0.52	0.13	-	-	6.27E-03	1.57E-03	1.97E-03	4.93E-04	62.00	61.80	5.01E-04	2.51E-03
Sxlgdwn1	10 Dam Hanover	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04	0.70	0.18	0.70	0.18	0.70	0.18	-	-	8.47E-03	2.12E-03	2.66E-03	6.66E-04	83.78	83.51	6.77E-04	3.39E-03
Sxlpwrprm4	14 Dam Hanover	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04	0.52	0.13	0.52	0.13	0.52	0.13	-	-	6.27E-03	1.57E-03	1.97E-03	4.93E-04	62.00	61.80	5.01E-04	2.51E-03
Sxlpwrprm2	Spare	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04	0.70	0.18	0.70	0.18	0.70	0.18	-	-	8.47E-03	2.12E-03	2.66E-03	6.66E-04	83.78	83.51	6.77E-04	3.39E-03
Sxlpwrprm3	Dam 11	6.22	1.56	1.34	0.34	0.49	0.12	2.14E-03	5.34E-04	0.44	0.11	0.44	0.11	0.44	0.11	-	-	5.29E-03	1.32E-03	1.67E-03	4.16E-04	52.35	52.18	4.23E-04	2.12E-03
Sxlpwrprm7	Dam 13	4.05	1.01	0.87	0.22	0.32	0.080	1.39E-03	3.48E-04	0.28	0.071	0.28	0.071	0.28	0.071	-	-	3.44E-03	8.61E-04	1.08E-03	2.71E-04	34.06	33.94	2.75E-04	1.38E-03
Cummins Generator/1823	South Side Tailing office	1.42	0.36	0.31	0.077	0.11	0.028	4.89E-04	1.22E-04	0.10	0.025	0.10	0.025	0.10	0.025	-	-	1.21E-03	3.03E-04	3.81E-04	9.52E-05	11.97	11.93	9.68E-05	4.84E-04
DEUTZ	Groundhog	3.95	0.99	0.85	0.21	0.31	0.078	1.36E-03	3.39E-04	0.28	0.069	0.28	0.069	0.28	0.069	-	-	3.36E-03	8.40E-04	1.06E-03	2.64E-04	33.23	33.12	2.69E-04	1.34E-03
FWP01	Concentrator Fire Emergency Pump	6.14	1.53	1.32	0.33	0.49	0.12	2.11E-03	5.27E-04	0.43	0.11	0.43	0.11	0.43	0.11	-	-	5.22E-03	1.31E-03	1.64E-03	4.11E-04	51.64	51.47	4.18E-04	2.09E-03
GENERAC1	MIS Building	3.04	0.76	0.24	0.059	0.088	0.022	4.38E-04	1.09E-04	7.38E-03	1.84E-03	5.74E-05	1.44E-05	5.74E-05	1.44E-05	-	-	0.050	0.013	0.039	9.83E-03	19.77	19.75	3.72E-05	3.72E-04
GENERAC2	SX-EW Tankhouse	2.05	0.51	0.16	0.040	0.059	0.015	2.96E-04	7.39E-05	4.98E-03	1.25E-03	3.88E-05	9.69E-06	3.88E-05	9.69E-06	-	-	0.034	8.47E-03	0.027	2.12E-03	15.57	15.51	1.51E-04	7.54E-04
GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	0.44	0.11	0.034	8.53E-03	0.013	3.17E-03	6.33E-05	1.58E-05	1.07E-03	2.67E-04	8.30E-06	2.07E-06	8.30E-06	2.07E-06	-	-	7.25E-03	1.81E-03	5.68E-03	4.53E-04	3.33	3.32	3.23E-05	1.61E-04
CAT5	Santa Rita Tower	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04	7.20E-03	1.80E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-	0.049	0.012	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
CAT6	Nun Complex Communication Station	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04	7.20E-03	1.80E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-	0.049	0.012	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
GENERAC8	Santa Rita Tower	2.72	0.68	0.21	0.053	0.079	0.020	3.93E-04	9.82E-05	6.62E-03	1.65E-03	5.15E-05	1.29E-05	5.15E-05	1.29E-05	-	-	0.045	0.011	0.035	2.81E-03	20.69	20.61	2.00E-04	1.00E-03
Elliot Magnetek	Mine Warehouse	0.73	0.18	0.057	0.014	0.021	5.31E-03	1.06E-04	2.65E-05	1.78E-03	4.46E-04	1.39E-05	3.47E-06	1.39E-05	3.47E-06	-	-	0.012	3.03E-03	9.50E-03	7.58E-04	5.58	5.55	5.40E-05	2.70E-04
RT-1	West Stockpile Radio Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	7.18E-03	1.79E-03	5.58E-05	1.40E-05	5.58E-05	1.40E-05	-	-	0.049	0.012	0.038	3.05E-03	22.43	22.34	2.17E-04	1.09E-03
RT-2	Cobre Radio Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	7.18E-03	1.79E-03	5.58E-05	1.40E-05	5.58E-05	1.40E-05	-	-	0.049	0.012	0.038	3.05E-03	22.43	22.34	2.17E-04	1.09E-03
RT-3	North Lampbright Radio Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.27E-04	1.07E-04	7.18E-03	1.79E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-	0.049	0.012	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
TOTAL - Fugitive & Non-fugitive sources		***87.22***	***21.80***	***17.53***	***4.38***	***6.44***	***1.61***	***0.028***	***7.03E-03***	***5.11***	***1.28***	***5.05***	***1.26***	***5.05***	***1.26***	***-***	***-***	***0.45***	***0.11***	***0.33***	***0.036***	***781.85***	***779.23***	***6.45E-03***	***0.032***

(--) Indicates no known emissions
(*) Indicates an hourly emission rate is not appropriate for this emission source
[1] Unit FLTR/BLND includes emissions from units CV-01-53, CV-02-53, CV-03, CV-04, CV-05, CV-06, and F-1-3-2

SOURCE		UNCONTROLLED EMISSIONS																							
		NOx		CO		VOC		SO_2		PM		PM_{10}		$PM_{2.5}$		Lead		Total HAPs		Formaldehyde		CO_2e	CO_2	N_2O	CH_4
		lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
EE5	SXEW Emergency Fire Pump	6.51	1.63	1.40	0.35	0.52	0.13	2.24E-03	5.59E-04	0.46	0.11	0.46	0.11	0.46	0.11	-	-	5.54E-03	1.38E-03	1.74E-03	4.35E-04	54.75	54.57	4.43E-04	2.21E-03
Sxlpwrprm8	20 Dam Hanover	8.91	2.23	1.92	0.48	0.71	0.18	3.06E-03	7.65E-04	0.63	0.16	0.63	0.16	0.63	0.16	-	-	7.58E-03	1.89E-03	2.38E-03	5.96E-04	74.97	74.72	6.06E-04	3.03E-03
Sxlpwrprm5	11 Dam Hanover	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04	0.52	0.13	0.52	0.13	0.52	0.13	-	-	6.27E-03	1.57E-03	1.97E-03	4.93E-04	62.00	61.80	5.01E-04	2.51E-03
Sxlgdwn1	10 Dam Hanover	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04	0.70	0.18	0.70	0.18	0.70	0.18	-	-	8.47E-03	2.12E-03	2.66E-03	6.66E-04	83.78	83.51	6.77E-04	3.39E-03
Sxlpwrprm4	14 Dam Hanover	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04	0.52	0.13	0.52	0.13	0.52	0.13	-	-	6.27E-03	1.57E-03	1.97E-03	4.93E-04	62.00	61.80	5.01E-04	2.51E-03
Sxlpwrprm2	Spare	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04	0.70	0.18	0.70	0.18	0.70	0.18	-	-	8.47E-03	2.12E-03	2.66E-03	6.66E-04	83.78	83.51	6.77E-04	3.39E-03
Sxlpwrprm3	Dam 11	6.22	1.56	1.34	0.34	0.49	0.12	2.14E-03	5.34E-04	0.44	0.11	0.44	0.11	0.44	0.11	-	-	5.29E-03	1.32E-03	1.67E-03	4.16E-04	52.35	52.18	4.23E-04	2.12E-03
Sxlpwrprm7	Dam 13	4.05	1.01	0.87	0.22	0.32	0.080	1.39E-03	3.48E-04	0.28	0.071	0.28	0.071	0.28	0.071	-	-	3.44E-03	8.61E-04	1.08E-03	2.71E-04	34.06	33.94	2.75E-04	1.38E-03
Cummins Generator/1823	South Side Tailing office	1.42	0.36	0.31	0.077	0.11	0.028	4.89E-04	1.22E-04	0.10	0.025	0.10	0.025	0.10	0.025	-	-	1.21E-03	3.03E-04	3.81E-04	9.52E-05	11.97	11.93	9.68E-05	4.84E-04
DEUTZ	Groundhog	3.95	0.99	0.85	0.21	0.31	0.078	1.36E-03	3.39E-04	0.28	0.069	0.28	0.069	0.28	0.069	-	-	3.36E-03	8.40E-04	1.06E-03	2.64E-04	33.23	33.12	2.69E-04	1.34E-03
FWP01	Concentrator Fire Emergency Pump	6.14	1.53	1.32	0.33	0.49	0.12	2.11E-03	5.27E-04	0.43	0.11	0.43	0.11	0.43	0.11	-	-	5.22E-03	1.31E-03	1.64E-03	4.11E-04	51.64	51.47	4.18E-04	2.09E-03
GENERAC1	MIS Building	3.04	0.76	0.24	0.059	0.088	0.022	4.38E-04	1.09E-04	7.38E-03	1.84E-03	5.74E-05	1.44E-05	5.74E-05	1.44E-05	-	-	0.050	0.013	0.039	9.83E-03	19.77	19.75	3.72E-05	3.72E-04
GENERAC2	SX-EW Tankhouse	2.05	0.51	0.16	0.040	0.059	0.015	2.96E-04	7.39E-05	4.98E-03	1.25E-03	3.88E-05	9.69E-06	3.88E-05	9.69E-06	-	-	0.034	8.47E-03	0.027	2.12E-03	15.57	15.51	1.51E-04	7.54E-04
GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	0.44	0.11	0.034	8.53E-03	0.013	3.17E-03	6.33E-05	1.58E-05	1.07E-03	2.67E-04	8.30E-06	2.07E-06	8.30E-06	2.07E-06	-	-	7.25E-03	1.81E-03	5.68E-03	4.53E-04	3.33	3.32	3.23E-05	1.61E-04
CAT5	Santa Rita Tower	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04	7.20E-03	1.80E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-	0.049	0.012	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
CAT6	Nun Complex Communication Station	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04	7.20E-03	1.80E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-	0.049	0.012	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
GENERAC8	Santa Rita Tower	2.72	0.68	0.21	0.053	0.079	0.020	3.93E-04	9.82E-05	6.62E-03	1.65E-03	5.15E-05	1.29E-05	5.15E-05	1.29E-05	-	-	0.045	0.011	0.035	2.81E-03	20.69	20.61	2.00E-04	1.00E-03
Elliot Magnetek	Mine Warehouse	0.73	0.18	0.057	0.014	0.021	5.31E-03	1.06E-04	2.65E-05	1.78E-03	4.46E-04	1.39E-05	3.47E-06	1.39E-05	3.47E-06	-	-	0.012	3.03E-03	9.50E-03	7.58E-04	5.58	5.55	5.40E-05	2.70E-04
RT-1	West Stockpile Radio Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	7.18E-03	1.79E-03	5.58E-05	1.40E-05	5.58E-05	1.40E-05	-	-	0.049	0.012	0.038	3.05E-03	22.43	22.34	2.17E-04	1.09E-03
RT-2	Cobre Radio Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	7.18E-03	1.79E-03	5.58E-05	1.40E-05	5.58E-05	1.40E-05	-	-	0.049	0.012	0.038	3.05E-03	22.43	22.34	2.17E-04	1.09E-03
RT-3	North Lampbright Radio Tower	0.15	0.037	0.30	0.074	0.10	0.026	4.27E-04	1.07E-04	7.18E-03	1.79E-03	5.60E-05	1.40E-05	5.60E-05	1.40E-05	-	-	0.049	0.012	0.038	3.06E-03	22.51	22.42	2.18E-04	1.09E-03
TOTAL - Fugitive & Non-fugitive sources		***87.22***	***21.80***	***17.53***	***4.38***	***6.44***	***1.61***	***0.028***	***7.03E-03***	***5.11***	***1.28***	***5.05***	***1.26***	***5.05***	***1.26***	***-***	***-***	***0.45***	***0.11***	***0.33***	***0.036***	***781.85***	***779.23***	***6.45E-03***	***0.032***

(--) Indicates no known emissions
(*) Indicates an hourly emission rate is not appropriate for this emission source

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Cobre Mine - Emergency Generator Engine Emissions
Units: See Units ID

	Basis	
Fuel Sulfur content, S	0.0015	gr/100 ft^3
Max Fuel usage	Variable	gal/hr
Diesel heat value	137,000	Btu/gallon
Natural Gas H.V	1,020	Btu/SCF
LPG H.V	2,514	Btu/SCF
Annual Operating Hours	500	

ID	Description	Hp	Max fuel use, gal/hr	Diesel heat value, Btu/gal[1]	Max heat input, MMBtu/hr	Annual operating hours[2]	NO_x		CO		VOC		SO_2		PM		PM_{10}	
							lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
EE5	SXEW Emergency Fire Pump	197	10.77	137,000	1.48	500	6.51	1.63	1.40	0.35	0.52	0.13	2.24E-03	5.59E-04	0.46	0.11	0.46	0.11
Sxlpwrprm8	20 Dam Hanover	275	14.75	137,000	2.02	500	8.91	2.23	1.92	0.48	0.71	0.18	3.06E-03	7.65E-04	0.63	0.16	0.63	0.16
Sxlpwrprm5	11 Dam Hanover	225	12.20	137,000	1.67	500	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04	0.52	0.13	0.52	0.13
Sxlgdwn1	10 Dam Hanover	309	16.48	137,000	2.26	500	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04	0.70	0.18	0.70	0.18
Sxlpwrprm4	14 Dam Hanover	225	12.20	137,000	1.67	500	7.37	1.84	1.59	0.40	0.58	0.15	2.53E-03	6.33E-04	0.52	0.13	0.52	0.13
Sxlpwrprm2	Spare	309	16.48	137,000	2.26	500	9.96	2.49	2.15	0.54	0.79	0.20	3.42E-03	8.55E-04	0.70	0.18	0.70	0.18
Sxlpwrprm3	Dam 11	174	10.30	137,000	1.41	500	6.22	1.56	1.34	0.34	0.49	0.12	2.14E-03	5.34E-04	0.44	0.11	0.44	0.11
Sxlpwrprm7	Dam 13	175	6.70	137,000	0.92	500	4.05	1.01	0.87	0.22	0.32	0.080	1.39E-03	3.48E-04	0.28	0.071	0.28	0.071
Cummins Generator/1823	South Side Tailing office	32	2.36	137,000	0.32	500	1.42	0.36	0.31	0.077	0.11	0.028	4.89E-04	1.22E-04	0.10	0.025	0.10	0.025
DEUTZ	Groundhog	114	6.54	137,000	0.90	500	3.95	0.99	0.85	0.21	0.31	0.078	1.36E-03	3.39E-04	0.28	0.069	0.28	0.069
FWP01	Concentrator Fire Emergency Pump	185	10.16	137,000	1.39	500	6.14	1.53	1.32	0.33	0.49	0.12	2.11E-03	5.27E-04	0.43	0.11	0.43	0.11
ID	**Description**	**Hp**	**Max fuel use, cu.ft/hr**	**Natural Gas heat value, Btu/scf**	**Max heat input, MMBtu/hr**	**Annual operating hours[2]**	**NO_x**		**CO**		**VOC**		**SO_2**		**PM**		**PM_{10}**	
							lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
GENERAC1	MIS Building	60	730.00	1,020	0.74	500	3.04	0.76	0.24	0.059	0.088	0.022	4.38E-04	1.09E-04	7.38E-03	1.84E-03	5.74E-05	1.44E-05
ID	**Description**	**Hp**	**Max fuel use, cu.ft/hr[3]**	**LPG heat value, Btu/scf[4]**	**Max heat input, MMBtu/hr**	**Annual operating hours[2]**	**NO_x**		**CO**		**VOC**		**SO_2**		**PM**		**PM_{10}**	
							lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
GENERAC2	SX-EW Tank house	50	200.00	2,514	0.50	500	2.05	0.51	0.16	0.040	0.059	0.015	2.96E-04	7.39E-05	4.98E-03	1.25E-03	3.88E-05	9.69E-06
GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	15	42.80	2,514	0.11	500	0.44	0.11	0.034	8.53E-03	0.013	3.17E-03	6.33E-05	1.58E-05	1.07E-03	2.67E-04	8.30E-06	2.07E-06
CAT5	Santa Rita Tower	67	289.00	2,514	0.73	500	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04	7.20E-03	1.80E-03	5.60E-05	1.40E-05
CAT6	Nun Complex Communication Station	67	289.00	2,514	0.73	500	2.96	0.74	0.23	0.058	0.086	0.021	4.27E-04	1.07E-04	7.20E-03	1.80E-03	5.60E-05	1.40E-05
GENERAC8	Santa Rita Tower	82	265.65	2,514	0.67	500	2.72	0.68	0.21	0.053	0.079	0.020	3.93E-04	9.82E-05	6.62E-03	1.65E-03	5.15E-05	1.29E-05
Elliot Magnetek	Mine Warehouse	16	71.60	2,514	0.18	500	0.73	0.18	0.057	0.014	0.021	5.31E-03	1.06E-04	2.65E-05	1.78E-03	4.46E-04	1.39E-05	3.47E-06
RT-1	West Stockpile Radio Tower [9]	67	288.00	2,514	0.72	500	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	7.18E-03	1.79E-03	5.58E-05	1.40E-05
RT-2	Cobre Radio Tower [9]	67	288.00	2,514	0.72	500	0.15	0.037	0.30	0.074	0.10	0.026	4.26E-04	1.06E-04	7.18E-03	1.79E-03	5.58E-05	1.40E-05
RT-3	North Lampbright Radio Tower	67	289.00	2,514	0.73	500	0.15	0.037	0.30	0.074	0.10	0.026	4.27E-04	1.07E-04	7.18E-03	1.79E-03	5.60E-05	1.40E-05
TOTAL							**87.22**	**21.80**	**17.53**	**4.38**	**6.44**	**1.61**	**0.028**	**7.03E-03**	**5.11**	**1.28**	**5.05**	**1.26**

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Cobre Mine - Emergency Generator Engine Emissions
Units: See Units ID

Basis		
Fuel Sulfur content, S	0.0015	gr/100 ft^3
Max Fuel usage	Variable	gal/hr
Diesel heat value	137,000	Btu/gallon
Natural Gas H.V	1,020	Btu/SCF
LPG H.V	2,514	Btu/SCF
Annual Operating Hours	500	

ID	Description	Hp	$PM_{2.5}$		HAPs[2,7]		Benzene		Acetaldehyde		Acrolein		Formaldehyde		Naphthalene		Toluene		Xylene		CO_2e	CO_2	N_2O	CH_4
			lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
EE5	SXEW Emergency Fire Pump	197	0.46	0.11	5.54E-03	1.38E-03	1.38E-03	3.44E-04	1.13E-03	2.83E-04	1.36E-04	3.41E-05	1.74E-03	4.35E-04	1.25E-04	3.13E-05	6.04E-04	1.51E-04	4.21E-04	1.05E-04	54.75	54.57	4.43E-04	2.21E-03
Sxlpwrprm8	20 Dam Hanover	275	0.63	0.16	7.58E-03	1.89E-03	1.89E-03	4.71E-04	1.55E-03	3.87E-04	1.87E-04	4.67E-05	2.38E-03	5.96E-04	1.71E-04	4.28E-05	8.26E-04	2.07E-04	5.76E-04	1.44E-04	74.97	74.72	6.06E-04	3.03E-03
Sxlpwrprm5	11 Dam Hanover	225	0.52	0.13	6.27E-03	1.57E-03	1.56E-03	3.90E-04	1.28E-03	3.20E-04	1.55E-04	3.86E-05	1.97E-03	4.93E-04	1.42E-04	3.54E-05	6.84E-04	1.71E-04	4.76E-04	1.19E-04	62.00	61.80	5.01E-04	2.51E-03
Sxlgdwn1	10 Dam Hanover	309	0.70	0.18	8.47E-03	2.12E-03	2.11E-03	5.27E-04	1.73E-03	4.33E-04	2.09E-04	5.22E-05	2.66E-03	6.66E-04	1.91E-04	4.79E-05	9.24E-04	2.31E-04	6.44E-04	1.61E-04	83.78	83.51	6.77E-04	3.39E-03
Sxlpwrprm4	14 Dam Hanover	225	0.52	0.13	6.27E-03	1.57E-03	1.56E-03	3.90E-04	1.28E-03	3.20E-04	1.55E-04	3.86E-05	1.97E-03	4.93E-04	1.42E-04	3.54E-05	6.84E-04	1.71E-04	4.76E-04	1.19E-04	62.00	61.80	5.01E-04	2.51E-03
Sxlpwrprm2	Spare	309	0.70	0.18	8.47E-03	2.12E-03	2.11E-03	5.27E-04	1.73E-03	4.33E-04	2.09E-04	5.22E-05	2.66E-03	6.66E-04	1.91E-04	4.79E-05	9.24E-04	2.31E-04	6.44E-04	1.61E-04	83.78	83.51	6.77E-04	3.39E-03
Sxlpwrprm3	Dam 11	174	0.44	0.11	5.29E-03	1.32E-03	1.32E-03	3.29E-04	1.08E-03	2.71E-04	1.31E-04	3.26E-05	1.67E-03	4.16E-04	1.20E-04	2.99E-05	5.77E-04	1.44E-04	4.02E-04	1.01E-04	52.35	52.18	4.23E-04	2.12E-03
Sxlpwrprm7	Dam 13	175	0.28	0.071	3.44E-03	8.61E-04	8.56E-04	2.14E-04	7.04E-04	1.76E-04	8.49E-05	2.12E-05	1.08E-03	2.71E-04	7.78E-05	1.95E-05	3.75E-04	9.39E-05	2.62E-04	6.54E-05	34.06	33.94	2.75E-04	1.38E-03
Cummins Generator/1823	South Side Tailing office	32	0.10	0.025	1.21E-03	3.03E-04	3.01E-04	7.53E-05	2.48E-04	6.19E-05	2.99E-05	7.46E-06	3.81E-04	9.52E-05	2.74E-05	6.84E-06	1.32E-04	3.30E-05	9.20E-05	2.30E-05	11.97	11.93	9.68E-05	4.84E-04
DEUTZ	Groundhog	114	0.28	0.069	3.36E-03	8.40E-04	8.36E-04	2.09E-04	6.87E-04	1.72E-04	8.28E-05	2.07E-05	1.06E-03	2.64E-04	7.60E-05	1.90E-05	3.66E-04	9.16E-05	2.55E-04	6.38E-05	33.23	33.12	2.69E-04	1.34E-03
FWP01	Concentrator Fire Emergency Pump	185	0.43	0.11	5.22E-03	1.31E-03	1.30E-03	3.25E-04	1.07E-03	2.67E-04	1.29E-04	3.22E-05	1.64E-03	4.11E-04	1.18E-04	2.95E-05	5.69E-04	1.42E-04	3.97E-04	9.92E-05	51.64	51.47	4.18E-04	2.09E-03

ID	Description	Hp	$PM_{2.5}$		HAPs[8]		Benzene		Acetaldehyde		Acrolein		Formaldehyde		Naphthalene		Toluene		Xylene		CO_2e	CO_2	N_2O	CH_4
			lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
GENERAC1	MIS Building	60	5.74E-05	1.44E-05	0.050	0.013	3.28E-04	8.19E-05	6.22E-03	1.56E-03	3.83E-03	9.57E-04	0.039	9.83E-03	5.54E-05	1.38E-05	3.04E-04	7.59E-05	1.37E-04	3.43E-05	19.77	19.75	3.72E-05	3.72E-04

ID	Description	Hp	$PM_{2.5}$		HAPs[8]		Benzene		Acetaldehyde		Acrolein		Formaldehyde		Naphthalene		Toluene		Xylene		CO_2e	CO_2	N_2O	CH_4
			lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
GENERAC2	SX-EW Tank house	50	3.88E-05	9.69E-06	0.034	8.47E-03	2.21E-04	5.53E-05	4.20E-03	1.05E-03	2.58E-03	6.46E-04	0.027	2.12E-03	4.26E-05	1.07E-05	2.06E-04	5.14E-05	1.43E-04	3.58E-05	15.57	15.51	1.51E-04	7.54E-04
GENERAC4	Mine Pit Slope Monitoring Station - Slope 2	15	8.30E-06	2.07E-06	7.25E-03	1.81E-03	1.00E-04	2.51E-05	8.25E-05	2.06E-05	9.95E-06	2.49E-06	5.68E-03	4.53E-04	9.12E-06	2.28E-06	4.40E-05	1.10E-05	3.07E-05	7.67E-06	3.33	3.32	3.23E-05	1.61E-04
CAT5	Santa Rita Tower	67	5.60E-05	1.40E-05	0.049	0.012	6.78E-04	1.69E-04	5.57E-04	1.39E-04	6.72E-05	1.68E-05	0.038	3.06E-03	6.16E-05	1.54E-05	2.97E-04	7.43E-05	2.07E-04	5.18E-05	22.51	22.42	2.18E-04	1.09E-03
CAT6	Nun Complex Communication Station	67	5.60E-05	1.40E-05	0.049	0.012	6.78E-04	1.69E-04	5.57E-04	1.39E-04	6.72E-05	1.68E-05	0.038	3.06E-03	6.16E-05	1.54E-05	2.97E-04	7.43E-05	2.07E-04	5.18E-05	22.51	22.42	2.18E-04	1.09E-03
GENERAC8	Santa Rita Tower	82	5.15E-05	1.29E-05	0.045	0.011	6.23E-04	1.56E-04	5.12E-04	1.28E-04	6.18E-05	1.54E-05	0.035	2.81E-03	5.66E-05	1.42E-05	2.73E-04	6.83E-05	1.90E-04	4.76E-05	20.69	20.61	2.00E-04	1.00E-03
Elliot Magnetek	Mine Warehouse	16	1.39E-05	3.47E-06	0.012	3.03E-03	1.68E-04	4.20E-05	1.38E-04	3.45E-05	1.67E-05	4.16E-06	9.50E-03	7.58E-04	1.53E-05	3.82E-06	7.36E-05	1.84E-05	5.13E-05	1.28E-05	5.58	5.55	5.40E-05	2.70E-04
RT-1	West Stockpile Radio Tower [9]	67	5.58E-05	1.40E-05	0.049	0.012	6.76E-04	1.69E-04	5.55E-04	1.39E-04	6.70E-05	1.67E-05	0.038	3.05E-03	6.14E-05	1.53E-05	2.96E-04	7.40E-05	2.06E-04	5.16E-05	22.43	22.34	2.17E-04	1.09E-03
RT-2	Cobre Radio Tower [9]	67	5.58E-05	1.40E-05	0.049	0.012	6.76E-04	1.69E-04	5.55E-04	1.39E-04	6.70E-05	1.67E-05	0.038	3.05E-03	6.14E-05	1.53E-05	2.96E-04	7.40E-05	2.06E-04	5.16E-05	22.43	22.34	2.17E-04	1.09E-03
RT-3	North Lampbright Radio Tower	67	5.60E-05	1.40E-05	0.049	0.012	6.78E-04	1.69E-04	5.57E-04	1.39E-04	6.72E-05	1.68E-05	0.038	3.06E-03	6.16E-05	1.54E-05	2.97E-04	7.43E-05	2.07E-04	5.18E-05	22.51	22.42	2.18E-04	1.09E-03
			5.05	**1.26**	**0.45**	**0.11**	**0.020**	**5.01E-03**	**0.026**	**6.61E-03**	**8.34E-03**	**2.09E-03**	**0.33**	**0.036**	**1.87E-03**	**4.67E-04**	**9.05E-03**	**2.26E-03**	**6.23E-03**	**1.56E-03**	**781.85**	**779.23**	**6.45E-03**	**0.032**

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Cobre Mine - Emergency Generator Engine Emissions

Units: See Units ID

Units	AP-42 Emission Factors for Diesel Fuel Combustion[5]						
	CO	NO_x	VOC	PM	PM_{10}	$PM_{2.5}$	SO_2
lb/MMBtu	0.95	4.41	0.350	0.310	0.310	0.310	0.0015

Units	AP-42 Emission Factors Natural Gas Combustion[6]						
	CO	NO_x	VOC	PM	PM_{10}	$PM_{2.5}$	SO_2
lb/MMBtu	0.32	4.1	0.12	0.0099	0.000077	0.000077	0.00059

FEDERAL HAP/NM TOXIC AIR POLLUTANT EMISSIONS ESTIMATION for Emergency Generators

Compound		Diesel Emission Factor (lb/MMBtu)[7]	LPG/NG Emission Factor (lb/MMBtu)[8]
Pollutant	Species		
Hazardous Air Pollutants	Benzene	9.33E-04	4.40E-04
	Acetaldehyde	7.67E-04	8.36E-03
	Acrolein	9.25E-05	5.14E-03
	Formaldehyde	1.18E-03	5.28E-02
	Naphthalene	8.48E-05	7.44E-05
	Toluene	4.09E-04	4.08E-04
	Xylenes	2.85E-04	1.84E-04

Certificate of Conformity [9]				
	CO	NO_x	VOC	Unit
CAT DG50-2	2	1	0.7	g/hp-hr

Notes:

[1]Diesel fuel usage was based on estimated diesel usage via trending analysis. Annual usage is based on a limit of 500 hour/year for emergency equipment. Heat input value in MMBtu is based on 137,000 Btu/gallon conversion

[2]Operating hours are limited to less than 500 hours/year per rolling 12-month period and operated only during the unavoidable loss of commercial utility power.

[3]The maximum fuel usage for unit "GENERAC4" and "Elliot Magnetek" were based on the manufacture fuel usage for "GENERAC3" which is a unit of similar capacity.

[4]LPG heat value is based on heating value for Propane. LPG fuel is primarily composed of Propane.

[5]Based on emission factors for uncontrolled diesel industrial engines present in USEPA AP-42 Section 3.3 "Gasoline and Diesel Industrial Engines" (10/96). NOx emission factor is uncontrolled. $PM=PM_{10}=PM_{2.5}$. PM_{10} = particulate matter less than or equal to 10 µm aerodynamic diameter. All particulate is assumed to be≤ 1 µm in size. Criteria pollutant emission factors were obtained from Table 3.3-1. SO_2 emission factor = 1.01S, where S = % sulfur.

[6]Based on emission factors for uncontrolled 4-stroke lean-burn engines present in USEPA AP-42 Section 3.2 "Natural Gas-Fired Reciprocal Engines" (7/00). NO_x and CO emission factor is uncontrolled with 90-105 % load . Criteria pollutant emission factors were obtained from Table 3.2-1 and 3.2-2. SO2 emission factor = 1.01S, where S = % sulfur.

[7]HAP emissions are based on USEPA AP-42 Section 3.3 "Gasoline and Diesel Industrial Engines" (10/96) Table 3.3-2

[7]HAP emissions are based on USEPA AP-42 Section 3.2 "Natural Gas-fired Reciprocating Industrial Engines" (10/96) Table 3.2-2

[9]Emission factors for NO_x, CO, and VOC from CAT DG60-2 engines are based on EPA Certificate of Conformity NSPS JJJJ limits.

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Chino Mine - Mechanical Evaporators
Units: EVAP1, EVAP2, EVAP3, EVAP4

Estimated Emissions from Evaporation System at Estrella and Res 9

No. of Minetek Evaporators	4		
Process Rates		**Units**	**Comments**
Annual flow	315,360	1,000 gallons/year	
Hourly flow	36	1,000 gallons/hour	
Flow rate	600	GPM	*Manufacturer specifications; Minetek Evaporator - Model 600/300*
Maximum TDS	73,400	ppm	*Maximum TDS concentration from analyitical data for Estrella Lake Water Chemistry*

Emission Factors	**$PM_{2.5}$[1]**	**PM_{10}[1]**	**PM**
(lb/1,000 gal)	0.030	0.039	0.15

Particulate Matter Emissions

	$PM_{2.5}$[2]		**PM_{10}[2]**		**PM[3]**	
Unit	**lb/hr**	**tons/yr**	**lb/hr**	**tons/yr**	**lb/hr**	**tons/yr**
EVAP1	0.32	1.42	0.43	1.86	1.66	7.26
EVAP2	0.32	1.42	0.43	1.86	1.66	7.26
EVAP3	0.32	1.42	0.43	1.86	1.66	7.26
EVAP4	0.32	1.42	0.43	1.86	1.66	7.26

HAP/TAP Emissions

	Aluminum		**Arsenic**		**Cadmium**		**Chlorine**		**Cobalt**		**Chromium**		**Copper**		**Fluorine**		**Manganese**		**Nickel**		**Lead**		**Selenium**		**Uranium**	
Unit	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**
EVAP1	5.12E-03	2.24E-02	1.18E-07	5.16E-07	6.09E-04	2.67E-03	8.55E-05	3.74E-04	4.66E-05	2.04E-04	6.90E-07	3.02E-06	5.64E-04	2.47E-03	2.37E-04	1.04E-03	4.76E-03	2.09E-02	1.24E-05	5.41E-05	8.58E-07	5.41E-05	4.58E-06	2.01E-05	2.04E-06	8.92E-06
EVAP2	5.12E-03	2.24E-02	1.18E-07	5.16E-07	6.09E-04	2.67E-03	8.55E-05	3.74E-04	4.66E-05	2.04E-04	6.90E-07	3.02E-06	5.64E-04	2.47E-03	2.37E-04	1.04E-03	4.76E-03	2.09E-02	1.24E-05	5.41E-05	8.58E-07	5.41E-05	4.58E-06	2.01E-05	2.04E-06	8.92E-06
EVAP3	5.12E-03	2.24E-02	1.18E-07	5.16E-07	6.09E-04	2.67E-03	8.55E-05	3.74E-04	4.66E-05	2.04E-04	6.90E-07	3.02E-06	5.64E-04	2.47E-03	2.37E-04	1.04E-03	4.76E-03	2.09E-02	1.24E-05	5.41E-05	8.58E-07	5.41E-05	4.58E-06	2.01E-05	2.04E-06	8.92E-06
EVAP4	5.12E-03	2.24E-02	1.18E-07	5.16E-07	6.09E-04	2.67E-03	8.55E-05	3.74E-04	4.66E-05	2.04E-04	6.90E-07	3.02E-06	5.64E-04	2.47E-03	2.37E-04	1.04E-03	4.76E-03	2.09E-02	1.24E-05	5.41E-05	8.58E-07	5.41E-05	4.58E-06	2.01E-05	2.04E-06	8.92E-06
TAP Screening Threshold	0.667	-	-	-	0.00333		-	-	0.01		0.0333		0.0667		0.133		0.333		0.0667		-	-	0.0133		0.0133	
Air Dispersion Modeling Required?	**No**	**-**	**-**	**-**	**No**		**-**	**-**	**No**		**No**		**No**		**No**		**No**		**No**		**-**	**-**	**No**		**No**	

Aluminum	**Arsenic**	**Cadmium**	**Chlorine**	**Cobalt**	**Chromium**	**Copper**	**Fluorine**	**Manganese**	**Nickel**	**Lead**	**Selenium**	**Uranium**
%	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**
30.87%	0.00%	3.6734%	0.52%	0.28%	0.00%	3.40%	1.429%	28.72%	0.07%	0.01%	0.03%	0.01%

Notes

[1] Emissions from Chino's Minetek evaporator are determined using the results from a study completed by Trinity Consultants for Griffith Energy Power Plant (GEPP). The study involved GEPP completing ambient monitoring of a turbo-mister (former name of an EcoMister) and then back calculating an emission rate through modeling. The results from the GEPP study can be scaled to similar evaporators using volumetric throughputs and total dissolved solids (TDS) contents and assuming the evaporation rates and droplet size distributions are similar.

[2] Assumed 70% control for pit sidewalls. *Cole, C. F., & Fabrick, A. J. (1984).*

[3] PM emissions scaled using the Riesman Frisbie methodology from "Calculating Realistic PM10 Emissions from Cooling Towers."

Freeport-McMoRan Chino Mines Company
Revised: February 2026

GDF - Emission Summary

Units: GDF

Emission Unit	Total Uncontrolled Emissions													
	NO_x		CO		SO_2		VOC		$PM_{2.5}$		PM_{10}		HAPS	
	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
GDF (Crusher)	-	-	-	-	-	-	0.92	4.04	-	-	-	-	0.48	2.10
GDF (Mill)	-	-	-	-	-	-	0.50	2.20	-	-	-	-	0.26	1.14
GDF (SXEW)	-	-	-	-	-	-	0.114	0.50	-	-	-	-	0.059	0.26
GDF (Hurley)	-	-	-	-	-	-	0.60	2.61	-	-	-	-	0.31	1.35
GDF (Hamilton)	-	-	-	-	-	-	0.24	1.07	-	-	-	-	0.127	0.56
Total	**-**	**-**	**-**	**-**	**-**	**-**	**2.38**	**10.42**	**-**	**-**	**-**	**-**	**1.24**	**5.41**

Freeport-McMoRan Chino Mines Company
Revised: February 2026

GDF - Calculations

Units: GDF

GASOLINE DISPENSING FACILITY (Unit GDF) TOTAL VOC EMISSIONS

GDF Location	Maximum Usage Rate		VOC Emissions (Per Tank per Location)		VOC Emissions (Total per Location)	
	Number of Tanks	gals/yr[1]	lb/hr	tons/yr	lb/hr	tons/yr
Crusher	1	291,735	0.92	4.04	0.92	4.04
Mill	1	139,920	0.50	2.20	0.50	2.20
SXEW	1	98,445	0.114	0.50	0.114	0.50
Hurley	1	81,542	0.60	2.61	0.60	2.61
Hamilton	1	57,254	0.24	1.07	0.24	1.07
		Total	**2.38**	**10.42**	**2.38**	**10.42**

[1]Annual throughput rates are based the maximum monthly throughput data from 2019 through 2024 with a 25% safety factor.

GASOLINE DISPENSING FACILITY (GDF) HAP EMISSIONS

GDF Location	Benzene		Hexane		Toluene		Xylene		Ethylbenzene	
	lbs/hr	TPY	lbs/hr	TPY	lbs/hr	TPY	lbs/hr	TPY	lbs/hr	TPY
Crusher	0.045	0.198	0.037	0.162	0.23	1.01	0.138	0.61	0.028	0.121
Mill	0.025	0.108	0.020	0.088	0.126	0.55	0.075	0.33	0.015	0.066
SXEW	0.0056	0.025	0.0046	0.020	0.029	0.125	0.017	0.08	0.0034	0.015
Hurley	0.029	0.13	0.024	0.104	0.15	0.65	0.089	0.39	0.018	0.078
Hamilton	0.012	0.052	0.0098	0.043	0.061	0.27	0.037	0.160	0.0073	0.032
Total Individual HAPs	0.117	0.51	0.095	0.42	0.59	2.61	0.36	1.56	0.071	0.31
Total HAP (tpy)	5.41									

Storage Tank Content	HAP Mass fraction [2]				
	Benzene	Hexane	Toluene	Xylene	Ethylbenzene
Gasoline	0.049	0.040	0.25	0.15	0.030

Notes:

[1]Based on emission calculations in Table "GASOLINE DISPENSING FACILITY (GDF) POTENTIAL VOC EMISSIONS"

[2]Mass fraction is based on the average percent content of the HAP constituent in gasoline. Data obtained from typical material MSDS for gasoline

Sample Calculations:

Benzene

Crusher = 0.92 lb/hr x 0.049 Benzene mass fraction of product = 0.045 lb/hr

Freeport-McMoRan Chino Mines Company
Revised: February 2026

GDF - Calculations

Units: GDF - Horizontal Tank

Tank ID	GDF (Crusher)			
Description	GDF (Crusher)			
Facility Location	Crusher			
Storage Material	Motor Gasoline RVP 13	select	Type of material stored in the tank	

Physical Tank Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Tank Orientation		Horizontal	select one		
Roof Type		N/A	select one	N/A if tank is Horiz	
Tank Cone Roof Slope	S_R	N/A	ft/ft	A standard value of 0.0625 is used for Cone Roof	(Eq. 1-20)
Tank Diameter	D	10	ft		
Tank Shell Height	H_S	N/A	ft	N/A if tank is Horizontal	
Tank Shell Radius	R_S	5	ft	$R_S = 1/2\ D$	
Length of the Tank (Horiz. Only)	L	28.5	ft		
Annual Net Throughput	Q	6,946.07	bbl/yr		
Breather Vent Pressure Setting	P_{BP}	-0.03	psig		
Breather Vent Vacuum Setting	P_{BV}	0.03	psig		
Shell Color/ Shade		White	select one		
Shell Paint Condition		Average	select one		
Tank Surface Solar Absorptance	$\propto$	0.25	dimensionless	Based on color and paint condition.	Table 7.1-6

Emissions Summary	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Standing Losses	L_S	5473.17	lb/yr	$L_S = 365\ K_E\ (\pi/4\ D^2)\ H_{VO}\ K_S\ W_V$	(Eq. 1-4)
Working Loss	L_W	2605.99	lb/yr	$L_W = V_Q\ K_N\ K_P\ W_V\ K_B$	(Eq. 1-37)
Total VOC Losses	L_T	**0.92**	**lb/hr**	$L_T = (L_S + L_W) / (8760\ hr/yr)$	(Eq. 1-1)
Total VOC Losses	L_T	**4.04**	**tpy**	$L_T = (L_S + L_W) / (2000\ lb/ton)$	(Eq. 1-1)

Weather Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Nearest City to Facility		Gallup, NM	select one		
Avg Annual Min Temp	T_{AN}	32	°F	Based on closest city to the facility.	Table 7.1-7
Avg Annual Max Temp	T_{AX}	65.6	°F	Based on closest city to the facility.	Table 7.1-7
Avg Daily Total Insolation Factor	I	1669	Btu/ft^2-day	Based on closest city to the facility.	Table 7.1-7
Atmospheric Pressure	P_A	11.63	psi	Based on closest city to the facility.	Table 7.1-7

Calculations of Emissions	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Vapor Space Expansion Factor	K_E	0.35	dimensionless	$K_E = \Delta T_V / T_{LA} + (\Delta P_V - \Delta P_B) / (P_A - P_{VA})$	(Eq. 1-5)
Avg Daily Vapor Temp Range	ΔT_V	28.51	°R	$\Delta T_V = 0.6\ \Delta T_A + 0.02 \propto I$	(Eq. 1-8)
Avg Daily Vapor Pressure Range	ΔP_V	1.63	psia	$\Delta P_V = P_{VX} - P_{VN}$	(Eq. 1-9)
Breather Vent Pressure Setting Range	ΔP_B	-0.06	psig	$\Delta P_B = P_{BP} - P_{BV}$	(Eq. 1-10)
Average Daily Ambient Temp Range	ΔT_A	33.60	°R	$\Delta T_A = T_{AX} - T_{AN}$	(Eq. 1-11)
Avg Daily Max Ambient Temp	T_{AX}	525.3	°R	T_{AX} (°R) = T_{AX} (°F) + 491.67	
Avg Daily Min Ambient Temp	T_{AN}	491.7	°R	T_{AN} (°R) = T_{AN} (°F) + 491.67	
Effective Tank Diameter (Horiz Tanks)	D_E	19.05	ft	$D_E = \sqrt{}(L\ D / \pi/4)$ (to be used in lieu of D)	(Eq. 1-14)
Effective Height (Horiz Tanks)	H_E	14.96	ft	$H_E = \pi/4\ D$	(Eq. 1-15)
Vapor Space Outage (Vertical Tank)	H_{VO}	N/A	ft	$H_{VO} = H_S - H_L + H_{RO}$	(Eq. 1-18)
Vapor Space Outage (Horiz Tank)	H_{VO}	7.48	ft	$H_{VO} = H_E / 2$	(Eq. 1-18)
Liquid Height	H_L	N/A	ft	Typically assumed to be half-full level	(Eq. 1-18)
Roof Outage (Coned Roof)	H_{RO}		ft	$H_{RO} = (1/3)\ H_R$	(Eq. 1-19)
Tank Roof Height (Cone Roof)	H_R	N/A	ft	$H_R = S_R\ R_S$	(Eq. 1-20)
Roof Outage (Dome Roof)	H_{RO}	N/A	ft	$H_{RO} = 0.137\ R_S$ (see description)	(Eq. 1-22)
Tank Roof Height (Dome Roof)	H_R	N/A	ft	$H_R = 0.268\ R_S$ (see description)	(Eq. 1-22)
Vented Vapor Saturation Factor	K_S	0.30	dimensionless	$K_S = 1 / (1 + 0.053\ P_{VA}\ H_{VO})$	(Eq. 1-23)
Stock Vapor Density	W_V	0.067	lb/ft^3	$W_V = (M_V\ P_{VA}) / (R\ T_V)$	(Eq. 1-24)
The Ideal Gas Constant	R	10.731	psia-ft^3 / lbmol-°R	Constant	(Eq. 1-24)
Vapor Press at the Avg Daily Max Liq Surface Temp	P_{VX}	6.79	psia	$P_{VX} = \exp[\ A - (B/T_{LX})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Press at the Avg Daily Min Liq Surface Temp	P_{VN}	5.16	psia	$P_{VN} = \exp[\ A - (B/T_{LN})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Pressure at Avg Daily Liq Surface Temp	P_{VA}	5.929	psia	$P_{VA} = \exp[\ A - (B/T_{LA})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Molecular Weight	M_V	62	lb/lbmol	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	A	11.644	dimensionless	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	B	5043.6	°R	Based on selected material type	Table 7.1-2
Avg Daily Max Liq Surface Temp	T_{LX}	518.43	°R	$T_{LX} = T_{LA} + 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Min Liq Surface Temp	T_{LN}	504.18	°R	$T_{LN} = T_{LA} - 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Liq Surface Temp	T_{LA}	511.31	°R	$T_{LA} = 0.4\ T_{AA} + 0.6\ T_B + 0.005\ \propto I$	(Eq. 1-30)
Avg Daily Ambient Temp	T_{AA}	508.47	°R	$T_{AA} = (T_{AX} + T_{AN}) / 2$	(Eq. 1-32)
Liquid Bulk Temp	T_B	509.72	°R	$T_B = T_{AA} + 0.003\ \propto_S I$	(Eq. 1-33)
Avg Vapor Temp	T_V	512.60	°R	$T_V = 0.7\ T_{AA} + 0.3\ T_B + 0.009 \propto I$	(Eq. 1-35)
Working Loss Turnover (Saturation) Factor	K_N	1.00	dimensionless	$K_N = (180 + N) / 6N$ (if $N > 36$); $K_N = 1$ ($N \leq 36$)	(Eq. 1-37)
Number of Turnovers per Year	N	17.42	dimensionless	$N = \Sigma H_{QI} / (H_{LX} - H_{LN})$	(Eq. 1-38)
Annual Sum of Increases in Liquid Level	ΣH_{QI}	136.83	ft/yr	$\Sigma H_{QI} = (5.614\ Q) / ((\pi/4)\ D^2)$	(Eq. 1-39)
Max Liquid Height	H_{LX}	7.85	ft	$H_{LX} = H_S - 1$ (vertical); $H_{LX} = (\pi/4)\ D$ (Horiz)	(Eq. 1-39)
Min Liquid Height	H_{LN}	0	ft	$H_{LX} = 1$ (vertical); $H_{LX} = 0$ (Horiz)	(Eq. 1-39)
Working Loss Product Factor	K_P	1	dimensionless	$K_P = 0.75$ (crude oils); $K_P = 1$ (all other organic liquids);	(Eq. 1-39)
Vent Setting Correction Factor	K_B	1	dimensionless	$K_B = 1$ (for a vent setting range up to ± 0.03 psig)	(Eq. 1-39)
Net Working Loss Throughput	V_Q	38995.25	ft^3/yr	$V_Q = 5.614\ Q$	(Eq. 1-41)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

GDF - Calculations

Units: GDF - Fixed Roof Tank

Tank ID	GDF (Mill)		
Description	GDF (Mill)		
Facility Location	Mill		
Storage Material	Motor Gasoline RVP 13	select	Type of material stored in the tank

Physical Tank Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Tank Orientation		Vertical	select one		
Roof Type		Cone	select one	N/A if tank is Horiz	
Tank Cone Roof Slope	S_R	0.0625	ft/ft	A standard value of 0.0625 is used	(Eq. 1-18)
Tank Diameter	D	10.42	ft		
Tank Shell Height	H_S	16.0	ft	N/A if tank is Horizontal	
Tank Shell Radius	R_S	5.21	ft	R_S = 1/2 D	
Length of the Tank (Horiz. Only)	L	N/A	ft		
Annual Net Throughput	Q	3331.43	bbl/yr		
Breather Vent Pressure Setting	P_{BP}	-0.03	psig		
Breather Vent Vacuum Setting	P_{BV}	0.03	psig		
Shell Color/ Shade		Gray / Medium	select one		
Shell Paint Condition		Average	select one		
Tank Surface Solar Absorptance	$\propto$	0.71	dimensionless	Based on color and paint condition.	Table 7.1-6

Emissions Summary	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Standing Losses	L_S	3045.12	lb/yr	$L_S = 365\ K_E\ (\pi/4\ D^2)\ H_{VO}\ K_S\ W_V$	(Eq. 1-4)
Working Loss	L_W	1360.73	lb/yr	$L_W = V_Q\ K_N\ K_P\ W_V\ K_B$	(Eq. 1-37)
Total VOC Losses	L_T	**0.50**	**lb/hr**	$L_T = (L_S + L_W) / (8760$ hr/yr)	(Eq. 1-1)
Total VOC Losses	L_T	**2.20**	**tpy**	$L_T = (L_S + L_W) / (2000$ lb/ton)	(Eq. 1-1)

Weather Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Nearest City to Facility		Gallup, NM	select one		
Avg Annual Min Temp	T_{AN}	32	°F	Based on closest city to the facility.	Table 7.1-7
Avg Annual Max Temp	T_{AX}	65.6	°F	Based on closest city to the facility.	Table 7.1-7
Avg Daily Total Insolation Factor	I	1669	Btu/ft^2-day	Based on closest city to the facility.	Table 7.1-7
Atmospheric Pressure	P_A	11.63	psi	Based on closest city to the facility.	Table 7.1-7

Calculations of Emissions	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Vapor Space Expansion Factor	K_E	0.63	dimensionless	$K_E = \Delta T_V / T_{LA} + (\Delta P_V - \Delta P_B) / (P_A - P_{VA})$	(Eq. 1-5)
Avg Daily Vapor Temp Range	ΔT_V	43.86	°R	$\Delta T_V = 0.6\ \Delta T_A + 0.02 \propto I$	(Eq. 1-8)
Avg Daily Vapor Pressure Range	ΔP_V	2.72	psia	$\Delta P_V = P_{VX} - P_{VN}$	(Eq. 1-9)
Breather Vent Pressure Setting Range	ΔP_B	-0.06	psig	$\Delta P_B = P_{BP} - P_{BV}$	(Eq. 1-10)
Average Daily Ambient Temp Range	ΔT_A	33.60	°R	$\Delta T_A = T_{AX} - T_{AN}$	(Eq. 1-11)
Avg Daily Max Ambient Temp	T_{AX}	525.3	°R	T_{AX} (°R) = T_{AX} (°F) + 491.67	
Avg Daily Min Ambient Temp	T_{AN}	491.7	°R	T_{AN} (°R) = T_{AN} (°F) + 491.67	
Effective Tank Diameter (Horiz Tanks)	D_E	N/A	ft	$D_E = \sqrt{}$ (L D / π/4) (to be used in lieu of D)	(Eq. 1-14)
Effective Height (Horiz Tanks)	H_E	N/A	ft	$H_E = \pi/4$ D	(Eq. 1-15)
Vapor Space Outage (Vertical Tank)	H_{VO}	8.11	ft	$H_{VO} = H_S - H_L + H_{RO}$	(Eq. 1-18)
Vapor Space Outage (Horiz Tank)	H_{VO}	N/A	ft	$H_{VO} = H_E / 2$	(Eq. 1-18)
Liquid Height	H_L	8.00	ft	Typically assumed to be half-full level	(Eq. 1-18)
Roof Outage (Coned Roof)	H_{RO}	0.11	ft	$H_{RO} = (1/3)\ H_R$	(Eq. 1-19)
Tank Roof Height (Cone Roof)	H_R	0.33	ft	$H_R = S_R\ R_S$	(Eq. 1-20)
Roof Outage (Dome Roof)	H_{RO}	N/A	ft	$H_{RO} = 0.137\ R_S$ (see description)	(Eq. 1-22)
Tank Roof Height (Dome Roof)	H_R	N/A	ft	$H_R = 0.268\ R_S$ (see description)	(Eq. 1-22)
Vented Vapor Saturation Factor	K_S	0.26	dimensionless	$K_S = 1 / (1 + 0.053\ P_{VA}\ H_{VO})$	(Eq. 1-23)
Stock Vapor Density	W_V	0.073	lb/ft^3	$W_V = (M_V\ P_{VA}) / (R\ T_V)$	(Eq. 1-24)
The Ideal Gas Constant	R	10.731	psia-ft^3 / lbmol-°R	Constant	(Eq. 1-24)
Vapor Press at the Avg Daily Max Liq Surface Temp	P_{VX}	8.02	psia	$P_{VX} = \exp[\ A - (B/T_{LX})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Press at the Avg Daily Min Liq Surface Temp	P_{VN}	5.30	psia	$P_{VN} = \exp[\ A - (B/T_{LN})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Pressure at Avg Daily Liq Surface Temp	P_{VA}	6.551	psia	$P_{VA} = \exp[\ A - (B/T_{LA})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Molecular Weight	M_V	62	lb/lbmol	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	A	11.644	dimensionless	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	B	5043.6	°R	Based on selected material type	Table 7.1-2
Avg Daily Max Liq Surface Temp	T_{LX}	527.49	°R	$T_{LX} = T_{LA} + 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Min Liq Surface Temp	T_{LN}	505.56	°R	$T_{LN} = T_{LA} - 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Liq Surface Temp	T_{LA}	516.53	°R	$T_{LA} = 0.4\ T_{AA} + 0.6\ T_B + 0.005 \propto I$	(Eq. 1-30)
Avg Daily Ambient Temp	T_{AA}	508.47	°R	$T_{AA} = (T_{AX} + T_{AN}) / 2$	(Eq. 1-32)
Liquid Bulk Temp	T_B	512.02	°R	$T_B = T_{AA} + 0.003 \propto_S I$	(Eq. 1-33)
Avg Vapor Temp	T_V	520.20	°R	$T_V = 0.7\ T_{AA} + 0.3\ T_B + 0.009 \propto I$	(Eq. 1-35)
Working Loss Turnover (Saturation) Factor	K_N	1.00	dimensionless	$K_N = (180 + N) / 6N$ (if N > 36); $K_N = 1$ (N ≤ 36)	(Eq. 1-37)
Number of Turnovers per Year	N	15.68	dimensionless	$N = \Sigma H_{QI} / (H_{LX} - H_{LN})$	(Eq. 1-38)
Annual Sum of Increases in Liquid Level	ΣH_{QI}	219.46	ft/yr	$\Sigma H_{QI} = (5.614\ Q) / ((\pi/4)\ D^2)$	(Eq. 1-39)
Max Liquid Height	H_{LX}	15.00	ft	$H_{LX} = H_S - 1$ (vertical); $H_{LX} = (\pi/4)$ D (Horiz)	(Eq. 1-39)
Min Liquid Height	H_{LN}	1	ft	$H_{LX} = 1$ (vertical); $H_{LX} = 0$ (Horiz)	(Eq. 1-39)
Working Loss Product Factor	K_P	1	dimensionless	$K_P = 0.75$ (crude oils); $K_P = 1$ (all other organic liquids);	(Eq. 1-39)
Vent Setting Correction Factor	K_B	1	dimensionless	$K_B = 1$ (for a vent setting range up to ± 0.03 psig)	(Eq. 1-39)
Net Working Loss Throughput	V_Q	18702.64	ft^3/yr	$V_Q = 5.614\ Q$	(Eq. 1-41)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

GDF - Calculations

Units: GDF - Horizontal Tank

Tank ID	GDF (SXEW)		
Description	GDF (SXEW)		
Facility Location	SXEW		
Storage Material	Motor Gasoline RVP 13	select	Type of material stored in the tank

Physical Tank Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Tank Orientation		Horizontal	select one		
Roof Type		N/A	select one	N/A if tank is Horizontal	
Tank Cone Roof Slope	S_R	N/A	ft/ft	A standard value of 0.0625 is used	(Eq. 1-18)
Tank Diameter	D	3.83	ft		
Tank Shell Height	H_S	N/A	ft	N/A if tank is Horizontal	
Tank Shell Radius	R_S	1.92	ft	R_S = 1/2 D	
Length of the Tank (Horiz. Only)	L	12.58	ft		
Annual Net Throughput	Q	2343.93	bbl/yr		
Breather Vent Pressure Setting	P_{BP}	-0.03	psig		
Breather Vent Vacuum Setting	P_{BV}	0.03	psig		
Shell Color/ Shade		White	select one		
Shell Paint Condition		Good	select one		
Tank Surface Solar Absorptance	$\propto$	0.17	dimensionless	Based on color and paint condition.	Table 7.1-6

Emissions Summary	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Standing Losses	L_S	571.20	lb/yr	$L_S = 365\ K_E\ (\pi/4\ D^2)\ H_{VO}\ K_S\ W_V$	(Eq. 1-4)
Working Loss	L_W	431.22	lb/yr	$L_W = V_Q\ K_N\ K_P\ W_V\ K_B$	(Eq. 1-37)
Total VOC Losses	L_T	**0.114**	**lb/hr**	$L_T = (L_S + L_W) / (8760$ hr/yr)	(Eq. 1-1)
Total VOC Losses	L_T	**0.50**	**tpy**	$L_T = (L_S + L_W) / (2000$ lb/ton)	(Eq. 1-1)

Weather Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Nearest City to Facility		Gallup, NM	select one		
Avg Annual Min Temp	T_{AN}	32	°F	Based on closest city to the facility.	Table 7.1-7
Avg Annual Max Temp	T_{AX}	65.6	°F	Based on closest city to the facility.	Table 7.1-7
Avg Daily Total Insolation Factor	I	1669	Btu/ft^2-day	Based on closest city to the facility.	Table 7.1-7
Atmospheric Pressure	P_A	11.63	psi	Based on closest city to the facility.	Table 7.1-7

Calculations of Emissions	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Vapor Space Expansion Factor	K_E	0.31	dimensionless	$K_E = \Delta T_V / T_{LA} + (\Delta P_V - \Delta P_B) / (P_A - P_{VA})$	(Eq. 1-5)
Avg Daily Vapor Temp Range	ΔT_V	25.83	°R	$\Delta T_V = 0.6\ \Delta T_A + 0.02 \propto I$	(Eq. 1-8)
Avg Daily Vapor Pressure Range	ΔP_V	1.46	psia	$\Delta P_V = P_{VX} - P_{VN}$	(Eq. 1-9)
Breather Vent Pressure Setting Range	ΔP_B	-0.06	psig	$\Delta P_B = P_{BP} - P_{BV}$	(Eq. 1-10)
Average Daily Ambient Temp Range	ΔT_A	33.60	°R	$\Delta T_A = T_{AX} - T_{AN}$	(Eq. 1-11)
Avg Daily Max Ambient Temp	T_{AX}	525.3	°R	T_{AX} (°R) = T_{AX} (°F) + 491.67	
Avg Daily Min Ambient Temp	T_{AN}	491.7	°R	T_{AN} (°R) = T_{AN} (°F) + 491.67	
Effective Tank Diameter (Horiz Tanks)	D_E	7.84	ft	$D_E = \sqrt{}$ (L D / π/4) (to be used in lieu of D)	(Eq. 1-14)
Effective Height (Horiz Tanks)	H_E	6.16	ft	$H_E = \pi/4$ D	(Eq. 1-15)
Vapor Space Outage (Vertical Tank)	H_{VO}	N/A	ft	$H_{VO} = H_S - H_L + H_{RO}$	(Eq. 1-18)
Vapor Space Outage (Horiz Tank)	H_{VO}	3.08	ft	$H_{VO} = H_E / 2$	(Eq. 1-18)
Liquid Height	H_L	N/A	ft	Typically assumed to be half-full level	(Eq. 1-18)
Roof Outage (Coned Roof)	H_{RO}		ft	$H_{RO} = (1/3)\ H_R$	(Eq. 1-19)
Tank Roof Height (Cone Roof)	H_R	N/A	ft	$H_R = S_R\ R_S$	(Eq. 1-20)
Roof Outage (Dome Roof)	H_{RO}	N/A	ft	$H_{RO} = 0.137\ R_S$ (see description)	(Eq. 1-22)
Tank Roof Height (Dome Roof)	H_R	N/A	ft	$H_R = 0.268\ R_S$ (see description)	(Eq. 1-22)
Vented Vapor Saturation Factor	K_S	0.51	dimensionless	$K_S = 1 / (1 + 0.053\ P_{VA}\ H_{VO})$	(Eq. 1-23)
Stock Vapor Density	W_V	0.066	lb/ft^3	$W_V = (M_V\ P_{VA}) / (R\ T_V)$	(Eq. 1-24)
The Ideal Gas Constant	R	10.731	psia-ft^3 / lbmol-°R	Constant	(Eq. 1-24)
Vapor Press at the Avg Daily Max Liq Surface Temp	P_{VX}	6.59	psia	$P_{VX} = \exp[\ A - (B/T_{LX})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Press at the Avg Daily Min Liq Surface Temp	P_{VN}	5.13	psia	$P_{VN} = \exp[\ A - (B/T_{LN})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Pressure at Avg Daily Liq Surface Temp	P_{VA}	5.826	psia	$P_{VA} = \exp[\ A - (B/T_{LA})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Molecular Weight	M_V	62	lb/lbmol	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	A	11.644	dimensionless	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	B	5043.6	°R	Based on selected material type	Table 7.1-2
Avg Daily Max Liq Surface Temp	T_{LX}	516.86	°R	$T_{LX} = T_{LA} + 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Min Liq Surface Temp	T_{LN}	503.94	°R	$T_{LN} = T_{LA} - 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Liq Surface Temp	T_{LA}	510.40	°R	$T_{LA} = 0.4\ T_{AA} + 0.6\ T_B + 0.005 \propto I$	(Eq. 1-30)
Avg Daily Ambient Temp	T_{AA}	508.47	°R	$T_{AA} = (T_{AX} + T_{AN}) / 2$	(Eq. 1-32)
Liquid Bulk Temp	T_B	509.32	°R	$T_B = T_{AA} + 0.003 \propto_S I$	(Eq. 1-33)
Avg Vapor Temp	T_V	511.28	°R	$T_V = 0.7\ T_{AA} + 0.3\ T_B + 0.009 \propto I$	(Eq. 1-35)
Working Loss Turnover (Saturation) Factor	K_N	0.50	dimensionless	$K_N = (180 + N) / 6N$ (if N > 36); $K_N = 1$ (N ≤ 36)	(Eq. 1-37)
Number of Turnovers per Year	N	90.61	dimensionless	$N = \Sigma H_{QI} / (H_{LX} - H_{LN})$	(Eq. 1-38)
Annual Sum of Increases in Liquid Level	ΣH_{QI}	272.80	ft/yr	$\Sigma H_{QI} = (5.614\ Q) / ((\pi/4)\ D^2)$	(Eq. 1-39)
Max Liquid Height	H_{LX}	3.01	ft	$H_{LX} = H_S - 1$ (vertical); $H_{LX} = (\pi/4)$ D (Horiz)	(Eq. 1-39)
Min Liquid Height	H_{LN}	0	ft	$H_{LX} = 1$ (vertical); $H_{LX} = 0$ (Horiz)	(Eq. 1-39)
Working Loss Product Factor	K_P	1	dimensionless	$K_P = 0.75$ (crude oils); $K_P = 1$ (all other organic liquids);	(Eq. 1-39)
Vent Setting Correction Factor	K_B	1	dimensionless	$K_B = 1$ (for a vent setting range up to ± 0.03 psig)	(Eq. 1-39)
Net Working Loss Throughput	V_Q	13158.82	ft^3/yr	$V_Q = 5.614\ Q$	(Eq. 1-41)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

GDF - Calculations

Units: GDF - Fixed roof tank

Tank ID	GDF (Hurley)		
Description	GDF (Hurley)		
Facility Location	Hurley		
Storage Material	Motor Gasoline RVP 13	select	Type of material stored in the tank

Physical Tank Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Tank Orientation		Vertical	select one		
Roof Type		Cone	select one	N/A if tank is Horiz	
Tank Cone Roof Slope	S_R	0.0625	ft/ft	A standard value of 0.0625 is used	(Eq. 1-18)
Tank Diameter	D	12.5	ft		
Tank Shell Height	H_S	16.56	ft	N/A if tank is Horizontal	
Tank Shell Radius	R_S	6.25	ft	R_S = 1/2 D	
Length of the Tank (Horiz. Only)	L	N/A	ft	N/A if tank is Horizontal	
Annual Net Throughput	Q	1941.48	bbl/yr		
Breather Vent Pressure Setting	P_{BP}	-0.03	psig		
Breather Vent Vacuum Setting	P_{BV}	0.03	psig		
Shell Color/ Shade		Gray / Medium	select one		
Shell Paint Condition		Average	select one		
Tank Surface Solar Absorptance	$\propto$	0.71	dimensionless	Based on color and paint condition.	Table 7.1-6

Emissions Summary	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Standing Losses	L_S	4426.45	lb/yr	$L_S = 365\ K_E\ (\pi/4\ D^2)\ H_{VO}\ K_S\ W_V$	(Eq. 1-4)
Working Loss	L_W	793.00	lb/yr	$L_W = V_Q\ K_N\ K_P\ W_V\ K_B$	(Eq. 1-37)
Total VOC Losses	L_T	**0.596**	**lb/hr**	$L_T = (L_S + L_W) / (8760$ hr/yr)	(Eq. 1-1)
Total VOC Losses	L_T	**2.61**	**tpy**	$L_T = (L_S + L_W) / (2000$ lb/ton)	(Eq. 1-1)

Weather Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Nearest City to Facility		Gallup, NM	select one		
Avg Annual Min Temp	T_{AN}	32	°F	Based on closest city to the facility.	Table 7.1-7
Avg Annual Max Temp	T_{AX}	65.6	°F	Based on closest city to the facility.	Table 7.1-7
Avg Daily Total Insolation Factor	I	1669	Btu/ft^2-day	Based on closest city to the facility.	Table 7.1-7
Atmospheric Pressure	P_A	11.63	psi	Based on closest city to the facility.	Table 7.1-7

Calculations of Emissions	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Vapor Space Expansion Factor	K_E	0.63	dimensionless	$K_E = \Delta T_V / T_{LA} + (\Delta P_V - \Delta P_B) / (P_A - P_{VA})$	(Eq. 1-5)
Avg Daily Vapor Temp Range	ΔT_V	43.86	°R	$\Delta T_V = 0.6\ \Delta T_A + 0.02 \propto I$	(Eq. 1-8)
Avg Daily Vapor Pressure Range	ΔP_V	2.72	psia	$\Delta P_V = P_{VX} - P_{VN}$	(Eq. 1-9)
Breather Vent Pressure Setting Range	ΔP_B	-0.06	psig	$\Delta P_B = P_{BP} - P_{BV}$	(Eq. 1-10)
Average Daily Ambient Temp Range	ΔT_A	33.60	°R	$\Delta T_A = T_{AX} - T_{AN}$	(Eq. 1-11)
Avg Daily Max Ambient Temp	T_{AX}	525.3	°R	T_{AX} (°R) = T_{AX} (°F) + 491.67	
Avg Daily Min Ambient Temp	T_{AN}	491.7	°R	T_{AN} (°R) = T_{AN} (°F) + 491.67	
Effective Tank Diameter (Horiz Tanks)	D_E	N/A	ft	$D_E = \sqrt{}$ (L D / π/4) (to be used in lieu of D)	(Eq. 1-14)
Effective Height (Horiz Tanks)	H_E	N/A	ft	$H_E = \pi/4$ D	(Eq. 1-15)
Vapor Space Outage (Vertical Tank)	H_{VO}	8.41	ft	$H_{VO} = H_S - H_L + H_{RO}$	(Eq. 1-18)
Vapor Space Outage (Horiz Tank)	H_{VO}	N/A	ft	$H_{VO} = H_E / 2$	(Eq. 1-18)
Liquid Height	H_L	8.28	ft	Typically assumed to be half-full level	(Eq. 1-18)
Roof Outage (Coned Roof)	H_{RO}	0.13	ft	$H_{RO} = (1/3)\ H_R$	(Eq. 1-19)
Tank Roof Height (Cone Roof)	H_R	0.39	ft	$H_R = S_R\ R_S$	(Eq. 1-20)
Roof Outage (Dome Roof)	H_{RO}	N/A	ft	$H_{RO} = 0.137\ R_S$ (see description)	(Eq. 1-22)
Tank Roof Height (Dome Roof)	H_R	N/A	ft	$H_R = 0.268\ R_S$ (see description)	(Eq. 1-22)
Vented Vapor Saturation Factor	K_S	0.26	dimensionless	$K_S = 1 / (1 + 0.053\ P_{VA}\ H_{VO})$	(Eq. 1-23)
Stock Vapor Density	W_V	0.073	lb/ft^3	$W_V = (M_V\ P_{VA}) / (R\ T_V)$	(Eq. 1-24)
The Ideal Gas Constant	R	10.731	psia-ft^3 / lbmol-°R	Constant	(Eq. 1-24)
Vapor Press at the Avg Daily Max Liq Surface Temp	P_{VX}	8.02	psia	$P_{VX} = \exp[\ A - (B/T_{LX})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Press at the Avg Daily Min Liq Surface Temp	P_{VN}	5.30	psia	$P_{VN} = \exp[\ A - (B/T_{LN})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Pressure at Avg Daily Liq Surface Temp	P_{VA}	6.551	psia	$P_{VA} = \exp[\ A - (B/T_{LA})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Molecular Weight	M_V	62	lb/lbmol	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	A	11.644	dimensionless	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	B	5043.6	°R	Based on selected material type	Table 7.1-2
Avg Daily Max Liq Surface Temp	T_{LX}	527.49	°R	$T_{LX} = T_{LA} + 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Min Liq Surface Temp	T_{LN}	505.56	°R	$T_{LN} = T_{LA} - 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Liq Surface Temp	T_{LA}	516.53	°R	$T_{LA} = 0.4\ T_{AA} + 0.6\ T_B + 0.005 \propto I$	(Eq. 1-30)
Avg Daily Ambient Temp	T_{AA}	508.47	°R	$T_{AA} = (T_{AX} + T_{AN}) / 2$	(Eq. 1-32)
Liquid Bulk Temp	T_B	512.02	°R	$T_B = T_{AA} + 0.003 \propto_S I$	(Eq. 1-33)
Avg Vapor Temp	T_V	520.20	°R	$T_V = 0.7\ T_{AA} + 0.3\ T_B + 0.009 \propto I$	(Eq. 1-35)
Working Loss Turnover (Saturation) Factor	K_N	1.00	dimensionless	$K_N = (180 + N) / 6N$ (if N > 36); $K_N = 1$ (N ≤ 36)	(Eq. 1-37)
Number of Turnovers per Year	N	6.10	dimensionless	$N = \Sigma H_{QI} / (H_{LX} - H_{LN})$	(Eq. 1-38)
Annual Sum of Increases in Liquid Level	ΣH_{QI}	88.82	ft/yr	$\Sigma H_{QI} = (5.614\ Q) / ((\pi/4)\ D^2)$	(Eq. 1-39)
Max Liquid Height	H_{LX}	15.56	ft	$H_{LX} = H_S$ - 1 (vertical); $H_{LX} = (\pi/4)$ D (Horiz)	(Eq. 1-39)
Min Liquid Height	H_{LN}	1	ft	H_{LX} = 1 (vertical); H_{LX} = 0 (Horiz)	(Eq. 1-39)
Working Loss Product Factor	K_P	1	dimensionless	K_P = 0.75 (crude oils); K_P = 1 (all other organic liquids);	(Eq. 1-39)
Vent Setting Correction Factor	K_B	1	dimensionless	K_B = 1 (for a vent setting range up to ± 0.03 psig)	(Eq. 1-39)
Net Working Loss Throughput	V_Q	10899.45	ft^3/yr	$V_Q = 5.614\ Q$	(Eq. 1-41)

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GDF - Calculations

Units: GDF - Horizontal Tank

Tank ID	GDF (Hamilton)		
Description	GDF (Hamilton)		
Facility Location	Hamilton		
Storage Material	Motor Gasoline RVP 13	select	Type of material stored in the tank

Physical Tank Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Tank Orientation		Horizontal	select one		
Roof Type		N/A	select one	N/A if tank is Horiz	
Tank Cone Roof Slope	S_R	N/A	ft/ft	A standard value of 0.0625 is used for Cone Roof	(Eq. 1-18)
Tank Diameter	D	6	ft		
Tank Shell Height	H_S	N/A	ft	N/A if tank is Horizontal	
Tank Shell Radius	R_S	3	ft	R_S = 1/2 D	
Length of the Tank (Horiz. Only)	L	18.92	ft		
Annual Net Throughput	Q	1363.18	bbl/yr		
Breather Vent Pressure Setting	P_{BP}	-0.03	psig		
Breather Vent Vacuum Setting	P_{BV}	0.03	psig		
Shell Color/ Shade		White	select one		
Shell Paint Condition		Good	select one		
Tank Surface Solar Absorptance	$\propto$	0.17	dimensionless	Based on color and paint condition.	Table 7.1-6

Emissions Summary	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Standing Losses	L_S	1636.03	lb/yr	$L_S = 365\ K_E\ (\pi/4\ D^2)\ H_{VO}\ K_S\ W_V$	(Eq. 1-4)
Working Loss	L_W	503.83	lb/yr	$L_W = V_Q\ K_N\ K_P\ W_V\ K_B$	(Eq. 1-37)
Total VOC Losses	L_T	**0.24**	**lb/hr**	$L_T = (L_S + L_W) / (8760$ hr/yr)	(Eq. 1-1)
Total VOC Losses	L_T	**1.07**	**tpy**	$L_T = (L_S + L_W) / (2000$ lb/ton)	(Eq. 1-1)

Weather Properties	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Nearest City to Facility		Gallup, NM	select one		
Avg Annual Min Temp	T_{AN}	32	°F	Based on closest city to the facility.	Table 7.1-7
Avg Annual Max Temp	T_{AX}	65.6	°F	Based on closest city to the facility.	Table 7.1-7
Avg Daily Total Insolation Factor	I	1669	Btu/ft^2-day	Based on closest city to the facility.	Table 7.1-7
Atmospheric Pressure	P_A	11.63	psi	Based on closest city to the facility.	Table 7.1-7

Calculations of Emissions	**Symbol**	**Value**	**Unit**	**Notes and Equations**	
Vapor Space Expansion Factor	K_E	0.31	dimensionless	$K_E = \Delta T_V / T_{LA} + (\Delta P_V - \Delta P_B) / (P_A - P_{VA})$	(Eq. 1-5)
Avg Daily Vapor Temp Range	ΔT_V	25.83	°R	$\Delta T_V = 0.6\ \Delta T_A + 0.02 \propto I$	(Eq. 1-8)
Avg Daily Vapor Pressure Range	ΔP_V	1.46	psia	$\Delta P_V = P_{VX} - P_{VN}$	(Eq. 1-9)
Breather Vent Pressure Setting Range	ΔP_B	-0.06	psig	$\Delta P_B = P_{BP} - P_{BV}$	(Eq. 1-10)
Average Daily Ambient Temp Range	ΔT_A	33.60	°R	$\Delta T_A = T_{AX} - T_{AN}$	(Eq. 1-11)
Avg Daily Max Ambient Temp	T_{AX}	525.3	°R	T_{AX} (°R) = T_{AX} (°F) + 491.67	
Avg Daily Min Ambient Temp	T_{AN}	491.7	°R	T_{AN} (°R) = T_{AN} (°F) + 491.67	
Effective Tank Diameter (Horiz Tanks)	D_E	12.02	ft	$D_E = \sqrt{}$ (L D / π/4) (to be used in lieu of D)	(Eq. 1-14)
Effective Height (Horiz Tanks)	H_E	9.44	ft	$H_E = \pi/4$ D	(Eq. 1-15)
Vapor Space Outage (Vertical Tank)	H_{VO}	N/A	ft	$H_{VO} = H_S - H_L + H_{RO}$	(Eq. 1-18)
Vapor Space Outage (Horiz Tank)	H_{VO}	4.72	ft	$H_{VO} = H_E / 2$	(Eq. 1-18)
Liquid Height	H_L	N/A	ft	Typically assumed to be half-full level	(Eq. 1-18)
Roof Outage (Coned Roof)	H_{RO}		ft	$H_{RO} = (1/3)\ H_R$	(Eq. 1-19)
Tank Roof Height (Cone Roof)	H_R	N/A	ft	$H_R = S_R\ R_S$	(Eq. 1-20)
Roof Outage (Dome Roof)	H_{RO}	N/A	ft	$H_{RO} = 0.137\ R_S$ (see description)	(Eq. 1-22)
Tank Roof Height (Dome Roof)	H_R	N/A	ft	$H_R = 0.268\ R_S$ (see description)	(Eq. 1-22)
Vented Vapor Saturation Factor	K_S	0.41	dimensionless	$K_S = 1 / (1 + 0.053\ P_{VA}\ H_{VO})$	(Eq. 1-23)
Stock Vapor Density	W_V	0.066	lb/ft^3	$W_V = (M_V\ P_{VA}) / (R\ T_V)$	(Eq. 1-24)
The Ideal Gas Constant	R	10.731	psia-ft^3 / lbmol-°R	Constant	(Eq. 1-24)
Vapor Press at the Avg Daily Max Liq Surface Temp	P_{VX}	6.59	psia	$P_{VX} = \exp[\ A - (B/T_{LX})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Press at the Avg Daily Min Liq Surface Temp	P_{VN}	5.13	psia	$P_{VN} = \exp[\ A - (B/T_{LN})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Pressure at Avg Daily Liq Surface Temp	P_{VA}	5.826	psia	$P_{VA} = \exp[\ A - (B/T_{LA})\ ]$	(Eq. 1-27) (see Eq. 1-5) Note 5
Vapor Molecular Weight	M_V	62	lb/lbmol	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	A	11.644	dimensionless	Based on selected material type	Table 7.1-2
Vapor Pressure Equation Constant	B	5043.6	°R	Based on selected material type	Table 7.1-2
Avg Daily Max Liq Surface Temp	T_{LX}	516.86	°R	$T_{LX} = T_{LA} + 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Min Liq Surface Temp	T_{LN}	503.94	°R	$T_{LN} = T_{LA} - 0.25\ \Delta T_V$	Figure 7.1-16
Avg Daily Liq Surface Temp	T_{LA}	510.40	°R	$T_{LA} = 0.4\ T_{AA} + 0.6\ T_B + 0.005 \propto I$	(Eq. 1-30)
Avg Daily Ambient Temp	T_{AA}	508.47	°R	$T_{AA} = (T_{AX} + T_{AN}) / 2$	(Eq. 1-32)
Liquid Bulk Temp	T_B	509.32	°R	$T_B = T_{AA} + 0.003 \propto_S I$	(Eq. 1-33)
Avg Vapor Temp	T_V	511.28	°R	$T_V = 0.7\ T_{AA} + 0.3\ T_B + 0.009 \propto I$	(Eq. 1-35)
Working Loss Turnover (Saturation) Factor	K_N	1.00	dimensionless	$K_N = (180 + N) / 6N$ (if N > 36); $K_N = 1$ (N ≤ 36)	(Eq. 1-37)
Number of Turnovers per Year	N	14.31	dimensionless	$N = \Sigma H_{QI} / (H_{LX} - H_{LN})$	(Eq. 1-38)
Annual Sum of Increases in Liquid Level	ΣH_{QI}	67.43	ft/yr	$\Sigma H_{QI} = (5.614\ Q) / ((\pi/4)\ D^2)$	(Eq. 1-39)
Max Liquid Height	H_{LX}	4.71	ft	$H_{LX} = H_S - 1$ (vertical); $H_{LX} = (\pi/4)$ D (Horiz)	(Eq. 1-39)
Min Liquid Height	H_{LN}	0	ft	$H_{LX} = 1$ (vertical); $H_{LX} = 0$ (Horiz)	(Eq. 1-39)
Working Loss Product Factor	K_P	1	dimensionless	$K_P = 0.75$ (crude oils); $K_P = 1$ (all other organic liquids);	(Eq. 1-39)
Vent Setting Correction Factor	K_B	1	dimensionless	$K_B = 1$ (for a vent setting range up to ± 0.03 psig)	(Eq. 1-39)
Net Working Loss Throughput	V_Q	7652.88	ft^3/yr	$V_Q = 5.614\ Q$	(Eq. 1-41)

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Hurley Power Plant - Emission Summary

Units: FLTR-BLND, F-2-1-1.4, F-2-1-1.5

Name	Total Uncontrolled Emissions																			
	NO_x		CO		VOC		SO_2		PM		PM_{10}		$PM_{2.5}$		HAPS		CO_2e	CO_2	N_2O	CH_4
	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
FLTR-BLND	-	-	-	-	-	-	-	-	5.76	9.03	2.31	3.64	2.29	3.49	-	-	-	-	-	-
F-2-1-1.4	39.90	174.76	20.00	87.60	2.80	12.26	0.40	1.75	2.30	10.07	2.30	10.07	2.30	10.07	0.49	2.13	319,330.62	319,087.33	0.45	4.46
F-2-1-1.5	2.40	10.51	1.30	5.69	0.60	2.63	0.030	0.13	0.30	1.31	0.30	1.31	0.30	1.31	0.090	0.39	25,411.36	25,385.26	0.048	0.48

Name	Total Controlled Emissions																			
	NO_x		CO		VOC		SO_2		PM		PM_{10}		$PM_{2.5}$		HAPS		CO_2e	CO_2	N_2O	CH_4
	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
FLTR-BLND	-	-	-	-	-	-	-	-	0.86	1.35	0.35	0.55	0.34	0.52	-	-	-	-	-	-
F-2-1-1.4	39.90	174.76	20.00	87.60	2.80	12.26	0.40	1.75	2.30	10.07	2.30	10.07	2.30	10.07	0.49	2.13	319,330.62	319,087.33	0.45	4.46
F-2-1-1.5	2.40	10.51	1.30	5.69	0.60	2.63	0.030	0.13	0.30	1.31	0.30	1.31	0.30	1.31	0.090	0.39	25,411.36	25,385.26	0.048	0.48

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Hurley Power Plant - Filter/Blending Plant Emissions (Fugitive) - Scenario #1 - Loading Rail Car or Semi-Truck (One Loader):

Unit: FLTR/BLND

	Basis		
Annual throughput of concentrate:	788,400	dry tons	
Hourly throughput of concentrate for conveyance:	90	tons	
Hourly front end loader loading rate:	260	tons	
Building Enclosure Efficiency:	85	%	[industry experience]
Maximum annual operating days:	365		
Maximum daily operating hours:	24		

Hurley Power Plant - Filter/Blending Plant Emissions (Fugitive) - Scenario #2 - Loading Rail Cars or Semi-Trucks + 3 Conveyor Drops + Emergency Concentrate Storage Pad

Unit FLTR/BLND

	Basis		
Annual throughput of concentrate:	788,400	dry tons	
Hourly throughput of concentrate for conveyance:	90	tons	
Hourly front end loader loading rate:	260	tons	
Building Enclosure Efficiency:	85	%	[industry experience]
Maximum annual operating days:	365		
Maximum daily operating hours:	24		Note - Rail car loading will only occur during daylight hours. All other operations may occur 24/7.

Hurley Power Plant - Filter/Blending Plant Emissions (Fugitive) - Scenario #3 - Rail Car and Semi-Truck Loaded Simultaneously

Unit FLTR/BLND

	Basis		
Annual throughput of concentrate:	788,400	dry tons	
Hourly throughput of concentrate for conveyance:	90	tons	
Hourly front end loader loading rate:	260	tons	
Building Enclosure Efficiency:	85	%	[industry experience]
Maximum annual operating days:	365		
Maximum daily operating hours:	24		Note - Rail car and semi-truck loading will only occur during daylight hours. All other operations may occur 24/7.

Hurley Power Plant - Stationary Gas Turbine Emissions

Unit F-2-1-1.4

	Basis	
Fuel parameters		
Natural Gas Heat Content	1,020	Btu/scf
Fuel Usage		
Firing Rate	455	MMBtu/hr
Maximum daily operating hours:	24	hr/day
Potential Annual Operation	365	days/yr
Maximum hourly operating hours:	8,760	hr/yr

Hurley Power Plant - Natural Gas-Fired Heat Recovery Steam Generator (HRSG) Duct Burner Emissions

Unit F-2-1-1.5

	Basis	
Fuel parameters		
Natural Gas Heat Content	1,020	Btu/scf
Fuel Usage		
Firing Rate	48.8	MMBtu/hr
Maximum daily operating hours:	24	hr/day
Potential Annual Operation	365	days/yr
Maximum hourly operating hours:	8,760	hr/yr

Freeport-McMoRan Chino Mines Company
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Hurley Power Plant - Stationary Gas Turbine Emissions
Unit: F-2-1-1.4

Basis		
Fuel parameters		
Natural Gas Heat Content	1,020	Btu/scf
Fuel Usage		
Firing Rate:	455	MMBtu/hr
Maximum daily operating hours:	24	hr/day
Potential Annual Operation:	365	days/yr
Maximum hourly operating hours:	8760	hr/yr

Pollutant		Emission Factor[1]	UNCONTROLLED PTE EMISSIONS	
		lb/MMscf	(lb/hr)[2]	(ton/yr)[3]
NOx		-	39.90	174.76
CO		-	20.00	87.60
SO_2		-	0.40	1.75
VOC		-	2.80	12.26
PM		-	2.30	10.07
PM_{10}		-	2.30	10.07
$PM_{2.5}$		-	2.30	10.07
Federal Hazardous Air Pollutants (HAPs) & NM Toxic Air Pollutants	Lead	No Data	-	-
	1-3 Butadiene	4.30E-07	1.96E-04	8.57E-04
	Acetaldehyde	4.00E-05	0.018	0.080
	Acrolein	6.40E-06	2.91E-03	0.013
	Benzene	1.20E-05	5.46E-03	0.024
	Ethylbenzene	3.20E-05	0.015	0.064
	Formaldehyde	7.10E-04	0.32	1.41
	Naphthalene	1.30E-06	5.92E-04	2.59E-03
	PAH	2.20E-06	1.00E-03	4.38E-03
	Propylene Oxide	2.90E-05	0.013	0.058
	Toluene	1.30E-04	0.059	0.26
	Xylenes	6.40E-05	0.029	0.13
	Sulfuric Acid[4]	-	0.020	0.088
TOTAL HAPs			**0.49**	**2.13**

Notes:

[1] HAP emission factors provided from Table 3.1-3 provided in AP-42 Chapter 3.1 Stationary Gas Turbine (4/00).

[2] Maximum hourly emission rates allowed by air permits 376-M4 and P066R1.

[3] Based on 8,760 annual operating hours.

[4] A nominal estimate of the sulfur oxides emissions is calculated by assuming that all fuel sulfur is converted to SO_2. However, sulfur oxide emissions are in the form of both SO_2 and SO_3. Measurements show that the ratio of SO_3 to SO_2 varies. For emissions reporting, a 95% of the sulfur into the turbine is converted to SO_2 in the exhaust. The remaining sulfur (5%) is converted into SO_3. SO_3 combines with water vapor in the exhaust to form sulfuric acid.

SO_2 emissions (lb/hr) = 0.40
SO_2 emissions (tpy) = 1.75

SO_3 emissions (lb/hr) = 0.02
SO_3 emissions (tpy) = 0.09

H_2SO_4 emissions are calculated based on 100% stoichiometric conversion of sulfur as SO_3 to H_2SO_4, i.e.,

$SO_3 + H_20 \Rightarrow H_2SO_4$
1 mole of SO_3 => 1 mole of H_2SO_4
1 lb/hr SO_3 => 1 lb/hr H_2SO_4

Therefore, 0.02 lb/hr of SO_3 => 0.02 lb/hr of H_2SO_4
Therefore, 0.09 tpy of SO3 => 0.09 tpy of H_2SO_4

Hurley Power Plant - Turbine Potential Greenhouse Gas (GHG) Emissions
Unit: F-2-1-1.4

	Basis		
Maximum Potential Firing Rate:	455	MMBtu/hr	
Maximum Potential Operation Schedule:	8,760	hr/yr	
Maximum Potential Heat Input:	3,985,800	MMBtu/yr	
Maximum Potential Fuel Usage:	3.88E+09	scf/yr	
Average molecular weight of natural gas:	17.0	kg/kg-mole	[based on 94% CH_4, 5% C_2H_6, and 1% C_3H_8]
Molar volume conversion factor [(1)]:	849.5	scf/kg-mole	

TAKEN FROM TABLE C–2 TO SUBPART C OF PART 98—DEFAULT CH_4 AND N_2O EMISSION FACTORS FOR VARIOUS TYPES OF FUEL			
Natural gas	**MMBtu/scf**	**kg CH_4/MMBtu**	**kg N_2O/MMBtu**
Pipeline (Weighted U.S. Average)	0.001028	1.00E-03	1.00E-04

Greenhouse Gas	Maximum Potential GHG Emissions[(1)] (metric tons)	Global Warming Potential[(2)] (GWP) (kg CO_2e/kg GHG)	Maximum Potential CO_2	
			metric tons CO_2e	short tons CO_2e
CO_2	284,899.40	1	284,899.40	319,087.33
N_2O	0.40	265	105.62	118.30
CH_4	3.99	28	111.60	124.99
TOTAL			285,116.63	319,330.62

Notes:

[1] *CO_2 = 44/12 x Fuel x MW/MVC x 0.001 (40 CFR Part 98, Subpart C, Eq. C-5 - Tier 3 Calculation Methodology)*

Where:

CO_2 = Annual CO_2 mass emissions from combustion of the specific gaseous fuel (metric tons).
Fuel = Annual volume of the gaseous fuel combusted (scf)
MW = Annual average molecular weight of the gaseous fuel (kg/kg-mole)
MVC = Molar volume conversion factor (849.5 scf/kg-mole at 68 °F per §98.33(a)(3)(iii)).
44/12 = Ratio of molecular weights, CO_2 to carbon.
0.001 = Conversion factor from kg to metric tons

N_2O or CH_4 = Fuel x HHV x EF x 0.001 (40 CFR Part 98, Subpart C, Eq. C-8 - Tier 1 or 3 Calculation Methodology)

Where:

CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of a particular type of fuel (metric tons).
Fuel = Mass or volume of the fuel combusted, either from company records or directly
HHV = Default high heat value of the fuel from Table C–1 of this subpart (MMBtu per mass or
EF = Fuel-specific default emission factor for CH_4 or N_2O, from Table C–2 of this subpart (kg
0.001 = Conversion factor from kg to metric tons

[2] GWP values from 40 CFR Part 98, Subpart A, Table A-1.

[3] CO_2e = GHG x GWP

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Hurley Power Plant - Natural Gas-Fired Heat Recovery Steam Generator (HRSG) Duct Burner Emissions
Unit: F-2-1-1.5

Basis		
Fuel parameters		
Natural Gas Heat Content	1,020	Btu/scf
Fuel Usage		
Firing Rate:	48.8	MMBtu/hr
Maximum daily operating hours:	24.0	hr/day
Potential Annual Operation:	365.0	days/yr
Maximum hourly operating hours:	8760.0	hr/yr

Pollutant		AP-42 Emission Factor[1]	UNCONTROLLED PTE EMISSIONS	
		lb/MMscf	(lb/hr)[2]	(ton/yr)[3]
NOx		--	2.40	10.51
CO		--	1.30	5.69
SO_2		--	0.030	0.13
VOC		--	0.60	2.63
PM		--	0.30	1.31
PM_{10}		--	0.30	1.31
$PM_{2.5}$		--	0.30	1.31
Federal Hazardous Air Pollutants (HAPs) & NM Toxic Air Pollutants	Lead	0.0005	2.39E-05	1.05E-04
	2-Methylnapthalene	2.40E-05	1.15E-06	5.03E-06
	Benzene	2.10E-03	1.00E-04	4.40E-04
	Dichlorobenzene	1.20E-03	5.74E-05	2.51E-04
	Fluoranthene	3.00E-06	1.44E-07	6.29E-07
	Fluorene	2.80E-06	1.34E-07	5.87E-07
	Formaldehyde	7.50E-02	3.59E-03	0.016
	Hexane	1.80E+00	0.086	0.38
	Naphthalene	6.10E-04	2.92E-05	1.28E-04
	Phenanthrene	1.70E-05	8.13E-07	3.56E-06
	Pyrene	5.00E-06	2.39E-07	1.05E-06
	Toluene	3.40E-03	1.63E-04	7.12E-04
TOTAL HAPs			**0.090**	**0.39**

Notes:

[1]Emissions for the Hurley HRSG duct burner are estimated from emission factors for boilers combusting natural gas. The rationale for this is that the duct burner combustion process is better represented by boilers firing natural gas than by combustion turbines firing natural gas. Lead and HAP emissions are based on emission factors from Tables 1.4-2 and 1.4-3 provided in AP-42, Chapter 1.4, Natural Gas Combustion (7/98).

[2]Maximum hourly emission rates allowed by air permits 376-M4 and P066R1.

[3]Based on 8,760 annual operating hours

Hurley Power Plant - HRSG Potential Greenhouse Gas (GHG) Emissions

Unit: F-2-1-1.5

	Basis	
Firing Rate	48.8	MMBtu/hr
Potential Annual Operation	8,760	hr/yr
Heat Input	427,488	MMBtu/yr

TAKEN FROM TABLE C–1 TO SUBPART C OF PART 98—DEFAULT CO2 EMISSION FACTORS AND HIGH HEAT VALUES FOR VARIOUS TYPES OF FUEL & TABLE C–2 TO SUBPART C OF PART 98—DEFAULT CH_4 AND N_2O EMISSION FACTORS FOR VARIOUS TYPES OF FUEL				
Natural gas	**MMBtu/scf**	**kg CO_2/MMBtu**	**kg CH_4/MMBtu**	**kg N_2O/MMBtu**
Pipeline (Weighted U.S. Average)	0.001028	53.02	1.00E-03	1.00E-04

Greenhouse Gas	**Maximum Potential GHG Emissions[1] (metric tons)**	**Global Warming Potential[2] (GWP) (kg CO_2e/kg GHG)**	**Maximum Potential CO_2**	
			metric tons CO_2e	**short tons CO_2e**
CO_2	22,665.41	1	22,665.41	25,385.26
N_2O	0.043	265	11.33	12.69
CH_4	0.43	28	11.97	13.41
TOTAL			22,688.71	25,411.36

Notes:

[1] CO_2, CH_4, or N_2O= *Fuel x HHV x EF x 0.001 (40 CFR Part 98, Subpart C, Eq. C-2a & C-9a- Tier 2 Calculation Methodology)*

Where:

CO_2 = Annual CO_2 mass emissions for a specific fuel type (metric tons).

CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of a particular type of fuel (metric tons).

Fuel = Mass or volume of the fuel combusted during the year, per § 98.6.

HHV = Annual average high heat value of the fuel from all valid samples for the year (MMBtu per mass or volume).

EF = Fuel-specific default CO_2 emission factor, from Table C–1 of 40 CFR Part 98, Subpart C (kg CO_2/MMBtu).

Fuel-specific default emission factor for CH_4 or N_2O, from Table C–2 of 40 CFR Part 98, Subpart C (kg CH_4 or N_2O per MMBtu).

0.001 = Conversion factor from kg to metric tons

[2] GWP values from 40 CFR Part 98, Subpart A, Table A-1.

[3] CO_2e = GHG x GWP

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Revised: February 2026

Hurley Power Plant - Filter/Blending Plant Emissions
Unit: FLTR/BLND

Hurley Power Plant - Filter/Blending Plant Emissions (Fugitive) - Scenario #1 - Loading Rail Car or Semi-Truck (One Loader):
Unit FLTR/BLND

Basis			
Annual throughput of concentrate[1]:	788,400	dry tons	
Hourly throughput of concentrate for conveyance[1]:	90	tons	
Hourly front end loader loading rate[1]:	260	tons	
Building Enclosure Efficiency:	85	%	[industry experience]
Maximum annual operating days:	365		
Maximum daily operating hours:	24		
Aerodynamic Particle Size Multiplier (k) (<30 µm)[2]:	0.74		
Aerodynamic Particle Size Multiplier (k) (<10 µm)[2]:	0.35		
Aerodynamic Particle Size Multiplier (k) (<2.5 µm)[2]:	0.053		
Moisture Content[2]:	8.15	%	
Wind Speed[2]:	2.53	mph	

Filter/Blending Plant

Source	Unit Number	PM Emissions (lb/ton processed)[2]	PM_{10} Emissions (lb/ton processed)[2]	$PM_{2.5}$ Emissions (lb/ton processed)[2]	Uncontrolled						Controlled					
					PM Emissions (lb/hr)	PM Emissions (tons/yr)	PM_{10} Emissions (lb/hr)	PM_{10} Emissions (tons/yr)	$PM_{2.5}$ Emissions (lb/hr)	$PM_{2.5}$ Emissions (tons/yr)	PM Emissions (lb/hr)	PM Emissions (tons/yr)	PM_{10} Emissions (lb/hr)	PM_{10} Emissions (tons/yr)	$PM_{2.5}$ Emissions (lb/hr)	$PM_{2.5}$ Emissions (tons/yr)
Conveyor Belt Drop Point #1 *(Filter Plant)*	CV-01	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
Conveyor Belt Drop Point #2 *(Filter Plant)*	CV-02	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
Conveyor Belt Drop Point #3 *(Filter Plant)*	CV-03	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
Conveyor Belt Drop Point #4 *(Blending Plant)*	CV-04	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
Conveyor Belt Drop Point #5 *(Blending Plant)*	CV-05	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
Conveyor Belt Drop Point #6 *(Blending Plant)*	CV-06	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
CAT966 Front End Loader (Concentrate Storage pile into a rail car for shipping offsite)[3]	F-1-3-2	0.01	0.004	0.004	2.60	3.94	1.04	1.58	1.04	1.58	0.39	0.59	0.16	0.24	0.16	0.24
TOTAL					**2.67**	**4.26**	**1.07**	**1.73**	**1.05**	**1.60**	**0.40**	**0.64**	**0.16**	**0.26**	**0.16**	**0.24**
TOTAL with Safety Factor[4]					**2.94**	**4.69**	**1.18**	**1.90**	**1.15**	**1.76**	**0.44**	**0.70**	**0.18**	**0.29**	**0.17**	**0.26**

Notes:

[1]Throughput data provided by Omar Picena of the Filter/Blending Plant (8/2025). Concentrate produced = Filter Plant throughput. (Reference email to Roger Felty 03/25/2011). Operations consist of 6 conveyor drops (CV-01 through CV-06) plus one material handling step using a Cat 966 to load material from the Concentrate Storage pile into a rail car OR semitruck for shipping offsite. (6 conveyor drops + one handling step).

[2]Conveyor Drop Point Emission Factors are calculated from Equation 1 in AP-42 Chapter 13.2.4 "Aggregate Handling and Storage Piles" (11/2006):

$E = k(0.0032) * (U/2.2)^{1.3} / (M/2)^{1.4}$, where E = emission factor (lb/ton), k = particle size multiplier (dimensionless), U = mean wind speed (mph), and M = material moisture content (%). The values of U and M are the mean of Ranges of Source Conditions for Equation 1 listed in the chapter.

[3]Front End Loader Emission Factors from AP-42 Table 11.24-2 in "Metallic Minerals Processing" for Material handling and transfer--all minerals except bauxite (01/1995).

[4]The following safety factor was applied to the scenario emissions: 10%

Sample Calculation:

Conveyor Belt Drop Point #1 (Filter Plant) Uncontrolled PM10 Emissions (lb/hr)= 90 tons/hr x 0.0001 lb/ton = 0.01 lb/hr
Conveyor Belt Drop Point #1, Controlled PM10 Emissions (lb/hr)= 0.01 lb/hr x (1 - 85%) = 0.001 lb/hr

Hurley Power Plant - Filter/Blending Plant Emissions (Fugitive) - Scenario #2 - Loading Rail Cars or Semi-Trucks + 3 Conveyor Drops + Emergency Concentrate Storage Pad

Unit FLTR/BLND

Basis			
Annual throughput of concentrate[1]:	788,400	dry tons	
Hourly throughput of concentrate for conveyance[1]:	90	tons	
Hourly front end loader loading rate[1]:	260	tons	
Building Enclosure Efficiency:	85	%	[industry experience]
Maximum annual operating days:	365		
Maximum daily operating hours:	24	Note - Rail car loading will only occur during daylight hours. All other operations may occur 24/7.	
Aerodynamic Particle Size Multiplier (k) (<30 µm)[2]:	0.74		
Aerodynamic Particle Size Multiplier (k) (<10 µm)[2]:	0.35		
Aerodynamic Particle Size Multiplier (k) (<2.5 µm)[2]:	0.053		
Moisture Content[2]:	8.15	%	
Wind Speed[2]:	2.53	mph	

Filter/Blending Plant

Source	Unit Number	PM Emissions (lb/ton processed)[2]	PM_{10} Emissions (lb/ton processed)[2]	$PM_{2.5}$ Emissions (lb/ton processed)[2]	Uncontrolled						Controlled					
					PM Emissions (lb/hr)	PM Emissions (tons/yr)	$PM_{10}/PM_{2.5}$ Emissions (lb/hr)	$PM_{10}/PM_{2.5}$ Emissions (tons/yr)	$PM_{10}/PM_{2.5}$ Emissions (lb/hr)	$PM_{10}/PM_{2.5}$ Emissions (tons/yr)	PM Emissions (lb/hr)	PM Emissions (tons/yr)	$PM_{10}/PM_{2.5}$ Emissions (lb/hr)	$PM_{10}/PM_{2.5}$ Emissions (tons/yr)	$PM_{10}/PM_{2.5}$ Emissions (lb/hr)	$PM_{10}/PM_{2.5}$ Emissions (tons/yr)
Conveyor Belt Drop Point #1 *(Filter Plant)*	CV-01	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
Conveyor Belt Drop Point #2 *(Filter Plant)*	CV-02	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
Conveyor Belt Drop Point #3 *(Filter Plant)*	CV-03	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
CAT966 Front End Loader (move material from Emergency Concentrate Storage Pad *[Filter Plant]* to Concentrate Storage pile *[Blending Plant]*)	F-1-3-2	0.01	0.004	0.004	2.60	3.94	1.04	1.58	1.04	1.58	0.39	0.59	0.16	0.24	0.16	0.24
CAT966 Front End Loader (Concentrate Storage pile into a rail car for shipping offsite) *(Blending Plant)* [3]	F-1-3-2	0.01	0.004	0.004	2.60	3.94	1.04	1.58	1.04	1.58	0.39	0.59	0.16	0.24	0.16	0.24
TOTAL					**5.24**	**8.05**	**2.10**	**3.23**	**2.08**	**3.17**	**0.79**	**1.21**	**0.31**	**0.48**	**0.31**	**0.47**
TOTAL with Safety Factor[4]					**5.76**	**8.85**	**2.31**	**3.55**	**2.29**	**3.48**	**0.86**	**1.33**	**0.35**	**0.53**	**0.34**	**0.52**

Notes:

[1]Throughput data provided by Omar Picena of the Filter/Blending Plant (8/2025). Concentrate produced = Plant throughput. (Reference email to Roger Felty 03/25/2011). Operations consist of 3 conveyor drops (CV-01 through CV-03) plus one material handling step using a Cat 966 to load material from the Emergency Concentrate Storage Pad to the Concentrate Storage pile plus one material handling step using a Cat 966 to load material from the Concentrate Storage pile into a rail car OR semi-truck for shipping offsite. (3 conveyor drops + two handling

[2]Conveyor Drop Point Emission Factors are calculated from Equation 1 in AP-42 Chapter 13.2.4 "Aggregate Handling and Storage Piles" (11/2006):
E = k(0.0032) * (U/2.2)1.3 / (M/2)1.4, where E = emission factor (lb/ton), k = particle size multiplier (dimensionless), U = mean wind speed (mph), and M = material moisture content (%). The values of U and M are the mean of Ranges of Source Conditions for Equation 1 listed in the

[3]Front End Loader Emission Factors from AP-42 Table 11.24-2 in "Metallic Minerals Processing" for Material handling and transfer--all minerals except bauxite (01/1995).

[4]The following safety factor was applied to the scenario emissions: 10%

Hurley Power Plant - Filter/Blending Plant Emissions (Fugitive) - Scenario #3 - Rail Car and Semi-Truck Loaded Simultaneously

Unit FLTR/BLND

Basis			
Annual throughput of concentrate[1]:	788,400	dry tons	
Hourly throughput of concentrate for conveyance[1]:	90	tons	
Hourly front end loader loading rate[1]:	260	tons	
Building Enclosure Efficiency:	85	%	[industry experience]
Maximum annual operating days:	365		
Maximum daily operating hours:	24	Note - Rail car loading will only occur during daylight hours. All other operations may occur 24/7.	
Aerodynamic Particle Size Multiplier (k) (<30 µm)[2]:	0.74		
Aerodynamic Particle Size Multiplier (k) (<10 µm)[2]:	0.35		
Aerodynamic Particle Size Multiplier (k) (<2.5 µm)[2]:	0.053		
Moisture Content[2]:	8.15	%	
Wind Speed[2]:	2.53	mph	

Filter/Blending Plant

Source	Unit Number	PM Emissions (lb/ton processed)[2]	PM_{10} Emissions (lb/ton processed)[2]	$PM_{2.5}$ Emissions (lb/ton processed)[2]	Uncontrolled						Controlled					
					PM Emissions (lb/hr)	PM Emissions (tons/yr)	PM_{10} Emissions (lb/hr)	PM_{10} Emissions (tons/yr)	$PM_{2.5}$ Emissions (lb/hr)	$PM_{2.5}$ Emissions (tons/yr)	PM Emissions (lb/hr)	PM Emissions (tons/yr)	PM_{10} Emissions (lb/hr)	PM_{10} Emissions (tons/yr)	$PM_{2.5}$ Emissions (lb/hr)	$PM_{2.5}$ Emissions (tons/yr)
Conveyor Belt Drop Point #1 *(Filter Plant)*	CV-01	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.79E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.32E-04	5.77E-04
Conveyor Belt Drop Point #2 *(Filter Plant)*	CV-02	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	2.54E-03	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	3.81E-04	5.77E-04
Conveyor Belt Drop Point #3 *(Filter Plant)*	CV-03	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	8.30E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.24E-04	5.77E-04
Conveyor Belt Drop Point #4 *(Blending Plant)*	CV-04	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	3.56E-03	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	5.34E-04	5.77E-04
Conveyor Belt Drop Point #5 *(Blending Plant)*	CV-05	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	2.34E-04	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	3.51E-05	5.77E-04
Conveyor Belt Drop Point #6 *(Blending Plant)*	CV-06	1.36E-04	6.45E-05	9.76E-06	0.012	0.054	5.80E-03	0.025	7.22E-06	3.85E-03	1.84E-03	8.06E-03	8.70E-04	3.81E-03	1.08E-06	5.77E-04
CAT966 Front End Loader (Concentrate Storage pile into a rail car for shipping offsite)[3]	F-1-3-2	0.01	0.004	0.004	0.90	3.94	0.36	1.58	1.40E-03	1.58	0.14	0.59	0.054	0.24	2.10E-04	0.24
CAT966 Front End Loader (Concentrate Storage pile (Blending Plant) into semitruck for shipping offsite)[3]	F-1-3-2	0.01	0.004	0.004	0.90	3.94	0.36	1.58	1.40E-03	1.58	0.14	0.59	0.054	0.24	2.10E-04	0.24
TOTAL					**1.87**	**8.21**	**0.75**	**3.31**	**0.011**	**3.18**	**0.28**	**1.23**	**0.11**	**0.50**	**1.63E-03**	**0.48**
TOTAL with Safety Factor[4]					**2.06**	**9.03**	**0.83**	**3.64**	**0.012**	**3.49**	**0.31**	**1.35**	**0.12**	**0.55**	**1.79E-03**	**0.52**

NOTES:

[1]Throughput data provided by Omar Picena of the Filter/Blending Plant (8/2025). Concentrate produced = Filter Plant throughput. (Reference email to Roger Felty 03/25/2011). Operations consist of 6 conveyor drops (CV-01 through CV-06) plus two material handling steps using a Cat 966 to load material from the Concentrate Storage pile into a rail car AND semitruck for shipping offsite. (6 conveyor drops + two handling steps).

[2]Conveyor Drop Point Emission Factors are calculated from Equation 1 in AP-42 Chapter 13.2.4 "Aggregate Handling and Storage Piles" (11/2006):

[3]Front End Loader Emission Factors from AP-42 Table 11.24-2 in "Metallic Minerals Processing" for Material handling and transfer--all minerals except bauxite (01/1995).

[4]The following safety factor was applied to the scenario emissions: 10%

Sample Calculation:

Conveyor Belt Drop Point #1 (Filter Plant) Uncontrolled PM10 Emissions (lb/hr)= 90 tons/hr x 0 lb/ton = 0.01 lb/hr

Conveyor Belt Drop Point #1, Controlled PM10 Emissions (lb/hr)= 0.01 lb/hr x (1 - 85%) = 0.001 lb/hr

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Ivanhoe Concentrator - Inputs
Units: LHS-01, LUS-01, IC-01, PC DUMP, PC-01, CV-01C, SAG-F1, SCDP

Uncontrolled Emissions

Emission Unit Name	VOC		HAPs		PM		PM_{10}		$PM_{2.5}$		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium	
	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	lb/hr	ton/yr	lb/hr	ton/yr
CV-01C- Ore Transfer Point (enclosed)	-	-	-	-	1.51	6.62	0.55	2.43	0.083	0.36	4.84E-06	6.42E-06	5.34E-06	7.09E-06	3.06E-04	4.05E-04	1.59E-06	2.11E-06	1.01E-06	1.34E-06	5.08E-05	6.74E-05
LHS-01 - Lime Handling System	-	-	-	-	22.00	51.07	22.00	51.07	3.30	7.66	-	-	-	-	-	-	-	-	-	-	-	-
LUS-01 - Lime Unloading System	-	-	-	-	119.94	51.07	119.94	51.07	17.99	7.66	-	-	-	-	-	-	-	-	-	-	-	-
Primary Crusher Dump Pocket (Uncontrolled)	-	-	-	-	0.14	0.62	0.054	0.24	8.06E-03	0.035	4.50E-07	1.97E-06	4.96E-07	2.17E-06	2.84E-05	1.24E-04	1.47E-07	6.46E-07	9.41E-08	4.12E-07	4.72E-06	2.07E-05
Primary Crusher Bag House	-	-	-	-	17.82	78.05	7.92	34.69	7.92	34.69	5.71E-05	2.50E-04	6.30E-05	2.76E-04	3.60E-03	0.016	1.87E-05	8.20E-05	1.19E-05	5.23E-05	5.99E-04	2.62E-03
IOS	-	-	-	-	0.059	0.26	0.029	0.13	4.42E-03	0.019	1.89E-05	8.28E-05	2.08E-05	9.13E-05	1.19E-03	5.22E-03	6.19E-06	2.71E-05	3.95E-06	1.73E-05	1.98E-04	8.68E-04
SAG-F1 - SAG Mill Conveyor No.1	-	-	-	-	0.74	3.31	0.27	1.21	0.041	0.18	2.38E-06	1.06E-05	2.62E-06	1.17E-05	1.50E-04	6.69E-04	7.80E-07	3.48E-06	4.97E-07	2.22E-06	2.50E-05	1.11E-04
SAG-F1 - SAG Mill Conveyor No.2	-	-	-	-	0.74	3.31	0.27	1.21	0.042	0.18	2.38E-06	1.06E-05	2.62E-06	1.17E-05	1.50E-04	6.69E-04	7.80E-07	3.48E-06	4.97E-07	2.22E-06	2.50E-05	1.11E-04
SCDP - Stacker Conveyor Drop Point	-	-	-	-	0.46	2.01	0.22	0.95	0.033	0.14	1.47E-06	6.42E-06	1.62E-06	7.09E-06	9.25E-05	4.05E-04	4.81E-07	2.11E-06	3.07E-07	1.34E-06	1.54E-05	6.74E-05
SAG - Underground SAG Mill Tunnel	-	-	-	-	9.90	43.36	3.63	15.90	0.54	2.38	3.17E-05	1.39E-04	3.50E-05	1.53E-04	2.00E-03	8.76E-03	1.04E-05	4.55E-05	6.63E-06	2.91E-05	3.33E-04	1.46E-03
FLOAT - SAG Mill Floatation	0.66	2.87	1.59E-03	6.97E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RC-01 - Recycle Crushing	-	-	-	-	3.11	13.60	1.38	6.04	1.38	6.04	9.95E-06	4.36E-05	1.10E-05	4.80E-05	6.27E-04	2.75E-03	3.26E-06	1.43E-05	2.08E-06	9.11E-06	1.04E-04	4.57E-04

Controlled Emissions

Emission Unit Name	VOC		HAPs		PM		PM_{10}		$PM_{2.5}$		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium	
	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	lb/hr	ton/yr	lb/hr	ton/yr
CV-01C- Ore Transfer Point (enclosed)	-	-	-	-	1.51	6.62	0.55	2.43	0.083	0.36	4.84E-06	6.42E-06	5.34E-06	7.09E-06	3.06E-04	4.05E-04	1.59E-06	2.11E-06	1.01E-06	1.34E-06	5.08E-05	6.74E-05
LHS-01 - Lime Handling System	-	-	-	-	0.044	0.10	0.044	0.10	6.60E-03	0.015	-	-	-	-	-	-	-	-	-	-	-	-
LUS-01 - Lime Unloading System	-	-	-	-	0.24	0.10	0.24	0.10	0.036	0.015	-	-	-	-	-	-	-	-	-	-	-	-
Primary Crusher Dump Pocket (Controlled)	-	-	-	-	0.14	0.62	0.016	0.071	2.42E-03	0.011	1.35E-07	5.91E-07	1.49E-07	6.52E-07	8.51E-06	3.73E-05	4.42E-08	1.94E-07	2.82E-08	1.24E-07	1.42E-06	6.20E-06
Primary Crusher Bag House	-	-	-	-	2.16	9.46	2.16	9.46	2.16	9.46	6.92E-06	3.03E-05	7.63E-06	3.34E-05	4.36E-04	1.91E-03	2.27E-06	9.93E-06	1.45E-06	6.34E-06	7.26E-05	3.18E-04
IOS	-	-	-	-	0.059	0.26	0.029	0.13	4.42E-03	0.019	1.89E-05	8.28E-05	2.08E-05	9.13E-05	1.19E-03	5.22E-03	6.19E-06	2.71E-05	3.95E-06	1.73E-05	1.98E-04	8.68E-04
SAG-F1 - SAG Mill Conveyor No.1	-	-	-	-	0.74	3.31	0.27	1.21	0.041	0.18	2.38E-06	1.06E-05	2.62E-06	1.17E-05	1.50E-04	6.69E-04	7.80E-07	3.48E-06	4.97E-07	2.22E-06	2.50E-05	1.11E-04
SAG-F1 - SAG Mill Conveyor No.2	-	-	-	-	0.74	3.31	0.27	1.21	0.042	0.18	2.38E-06	1.06E-05	2.62E-06	1.17E-05	1.50E-04	6.69E-04	7.80E-07	3.48E-06	4.97E-07	2.22E-06	2.50E-05	1.11E-04
SCDP - Stacker Conveyor Drop Point	-	-	-	-	0.46	2.01	0.22	0.95	0.033	0.14	1.47E-06	6.42E-06	1.62E-06	7.09E-06	9.25E-05	4.05E-04	4.81E-07	2.11E-06	3.07E-07	1.34E-06	1.54E-05	6.74E-05
SAG - Underground SAG Mill Tunnel	-	-	-	-	1.03	4.51	0.97	4.25	0.46	2.03	3.29E-06	1.44E-05	3.63E-06	1.59E-05	2.08E-04	9.10E-04	1.08E-06	4.73E-06	6.89E-07	3.02E-06	3.46E-05	1.51E-04
FLOAT - SAG Mill Floatation	0.66	2.87	1.59E-03	6.97E-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RC-01 - Recycle Crushing	-	-	-	-	0.031	0.14	0.014	0.060	0.014	0.060	9.95E-08	4.36E-07	1.10E-07	4.80E-07	6.27E-06	2.75E-05	3.26E-08	1.43E-07	2.08E-08	9.11E-08	1.04E-06	4.57E-06

Freeport-McMoRan Chino Mines Company
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Ivanhoe Concentrator - Inputs
Units: LHS-01, LUS-01, IC-01, PC DUMP, PC-01, CV-01C, SAG-F1, SCDP

Uncontrolled Emissions

Emission Unit Name	VOC		Cobalt		Copper		Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
	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	lb/hr	ton/yr	lb/hr	ton/yr
CV-01C- Ore Transfer Point (enclosed)	-	-	4.75E-05	6.30E-05	6.69E-03	8.87E-03	7.16E-06	9.49E-06	3.66E-05	4.86E-05	1.15E-05	1.52E-05	2.13E-05	2.83E-05	3.58E-07	4.75E-07	1.01E-05	1.34E-05	5.01E-05	6.65E-05	2.53E-05	3.36E-05
LHS-01 - Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LUS-01 - Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Primary Crusher Dump Pocket (Uncontrolled)	-	-	4.41E-06	1.93E-05	6.21E-04	2.72E-03	6.65E-07	2.91E-06	3.40E-06	1.49E-05	1.06E-06	4.66E-06	1.98E-06	8.68E-06	3.32E-08	1.46E-07	9.41E-07	4.12E-06	4.66E-06	2.04E-05	2.35E-06	1.03E-05
Primary Crusher Bag House	-	-	5.60E-04	2.45E-03	0.079	0.35	8.44E-05	3.69E-04	4.32E-04	1.89E-03	1.35E-04	5.92E-04	2.51E-04	1.10E-03	4.22E-06	1.85E-05	1.19E-04	5.23E-04	5.91E-04	2.59E-03	2.98E-04	1.31E-03
IOS	-	-	1.85E-04	8.12E-04	0.026	0.11	2.79E-05	1.22E-04	1.43E-04	6.26E-04	4.47E-05	1.96E-04	8.32E-05	3.64E-04	1.40E-06	6.11E-06	3.95E-05	1.73E-04	1.96E-04	8.57E-04	9.87E-05	4.32E-04
SAG-F1 - SAG Mill Conveyor No.1	-	-	2.33E-05	1.04E-04	3.28E-03	0.015	3.51E-06	1.57E-05	1.80E-05	8.02E-05	5.63E-06	2.51E-05	1.05E-05	4.67E-05	1.76E-07	7.84E-07	4.97E-06	2.22E-05	2.46E-05	1.10E-04	1.24E-05	5.54E-05
SAG-F1 - SAG Mill Conveyor No.2	-	-	2.33E-05	1.04E-04	3.28E-03	0.015	3.51E-06	1.57E-05	1.80E-05	8.02E-05	5.63E-06	2.51E-05	1.05E-05	4.67E-05	1.76E-07	7.84E-07	4.97E-06	2.22E-05	2.46E-05	1.10E-04	1.24E-05	5.54E-05
SCDP - Stacker Conveyor Drop Point	-	-	1.44E-05	6.30E-05	2.03E-03	8.87E-03	2.17E-06	9.49E-06	1.11E-05	4.86E-05	3.47E-06	1.52E-05	6.46E-06	2.83E-05	1.08E-07	4.75E-07	3.07E-06	1.34E-05	1.52E-05	6.65E-05	7.66E-06	3.36E-05
SAG - Underground SAG Mill Tunnel	-	-	3.11E-04	1.36E-03	0.044	0.19	4.69E-05	2.05E-04	2.40E-04	1.05E-03	7.50E-05	3.29E-04	1.40E-04	6.12E-04	2.34E-06	1.03E-05	6.63E-05	2.91E-04	3.28E-04	1.44E-03	1.66E-04	7.25E-04
FLOAT - SAG Mill Floatation	0.66	2.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RC-01 - Recycle Crushing	-	-	9.76E-05	4.27E-04	0.014	0.060	1.47E-05	6.44E-05	7.52E-05	3.29E-04	2.35E-05	1.03E-04	4.38E-05	1.92E-04	7.35E-07	3.22E-06	2.08E-05	9.11E-05	1.03E-04	4.51E-04	5.19E-05	2.27E-04

Controlled Emissions

Emission Unit Name	VOC		Cobalt		Copper		Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
	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	lb/hr	ton/yr	lb/hr	ton/yr
CV-01C- Ore Transfer Point (enclosed)	-	-	4.75E-05	6.30E-05	6.69E-03	8.87E-03	7.16E-06	9.49E-06	3.66E-05	4.86E-05	1.15E-05	1.52E-05	2.13E-05	2.83E-05	3.58E-07	4.75E-07	1.01E-05	1.34E-05	5.01E-05	6.65E-05	2.53E-05	3.36E-05
LHS-01 - Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LUS-01 - Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Primary Crusher Dump Pocket (Controlled)	-	-	1.32E-06	5.80E-06	1.86E-04	8.16E-04	1.99E-07	8.74E-07	1.02E-06	4.47E-06	3.19E-07	1.40E-06	5.94E-07	2.60E-06	9.97E-09	4.37E-08	2.82E-07	1.24E-06	1.40E-06	6.12E-06	7.05E-07	3.09E-06
Primary Crusher Bag House	-	-	6.79E-05	2.97E-04	9.56E-03	0.042	1.02E-05	4.48E-05	5.23E-05	2.29E-04	1.64E-05	7.17E-05	3.05E-05	1.33E-04	5.11E-07	2.24E-06	1.45E-05	6.34E-05	7.16E-05	3.14E-04	3.61E-05	1.58E-04
IOS	-	-	1.85E-04	8.12E-04	0.026	0.11	2.79E-05	1.22E-04	1.43E-04	6.26E-04	4.47E-05	1.96E-04	8.32E-05	3.64E-04	1.40E-06	6.11E-06	3.95E-05	1.73E-04	1.96E-04	8.57E-04	9.87E-05	4.32E-04
SAG-F1 - SAG Mill Conveyor No.1	-	-	2.33E-05	1.04E-04	3.28E-03	0.015	3.51E-06	1.57E-05	1.80E-05	8.02E-05	5.63E-06	2.51E-05	1.05E-05	4.67E-05	1.76E-07	7.84E-07	4.97E-06	2.22E-05	2.46E-05	1.10E-04	1.24E-05	5.54E-05
SAG-F1 - SAG Mill Conveyor No.2	-	-	2.33E-05	1.04E-04	3.28E-03	0.015	3.51E-06	1.57E-05	1.80E-05	8.02E-05	5.63E-06	2.51E-05	1.05E-05	4.67E-05	1.76E-07	7.84E-07	4.97E-06	2.22E-05	2.46E-05	1.10E-04	1.24E-05	5.54E-05
SCDP - Stacker Conveyor Drop Point	-	-	1.44E-05	6.30E-05	2.03E-03	8.87E-03	2.17E-06	9.49E-06	1.11E-05	4.86E-05	3.47E-06	1.52E-05	6.46E-06	2.83E-05	1.08E-07	4.75E-07	3.07E-06	1.34E-05	1.52E-05	6.65E-05	7.66E-06	3.36E-05
SAG - Underground SAG Mill Tunnel	-	-	3.23E-05	1.42E-04	4.55E-03	0.020	4.87E-06	2.13E-05	2.49E-05	1.09E-04	7.80E-06	3.41E-05	1.45E-05	6.35E-05	2.43E-07	1.07E-06	6.89E-06	3.02E-05	3.41E-05	1.49E-04	1.72E-05	7.54E-05
FLOAT - SAG Mill Floatation	0.66	2.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RC-01 - Recycle Crushing	-	-	9.76E-07	4.27E-06	1.37E-04	6.02E-04	1.47E-07	6.44E-07	7.52E-07	3.29E-06	2.35E-07	1.03E-06	4.38E-07	1.92E-06	7.35E-09	3.22E-08	2.08E-07	9.11E-07	1.03E-06	4.51E-06	5.19E-07	2.27E-06

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Ivanhoe Concentrator - Inputs
Units: LHS-01, LUS-01, IC-01, PC DUMP, PC-01, CV-01C, SAG-F1, SCDP

Uncontrolled Emissions

Emission Unit Name	VOC		2,6-Dimethyl-4-heptanone		Sodium Hydroxide		4-Methyl-2-pentanone		Cresylic Acid		Mercury		Selenium	
	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
CV-01C- Ore Transfer Point (enclosed)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LHS-01 - Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LUS-01 - Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Primary Crusher Dump Pocket (Uncontrolled)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Primary Crusher Bag House	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IOS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAG-F1 - SAG Mill Conveyor No.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAG-F1 - SAG Mill Conveyor No.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCDP - Stacker Conveyor Drop Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAG - Underground SAG Mill Tunnel	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLOAT - SAG Mill Floatation	0.66	2.87	-	-	7.04E-04	3.08E-03	-	-	-	-	-	-	-	-
RC-01 - Recycle Crushing	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Controlled Emissions

Emission Unit Name	VOC		2,6-Dimethyl-4-heptanone		Sodium Hydroxide		4-Methyl-2-pentanone		Cresylic Acid		Mercury		Selenium	
	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
CV-01C- Ore Transfer Point (enclosed)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LHS-01 - Lime Handling System	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LUS-01 - Lime Unloading System	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Primary Crusher Dump Pocket (Controlled)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Primary Crusher Bag House	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IOS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAG-F1 - SAG Mill Conveyor No.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAG-F1 - SAG Mill Conveyor No.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCDP - Stacker Conveyor Drop Point	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAG - Underground SAG Mill Tunnel	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLOAT - SAG Mill Floatation	0.66	2.87	-	-	7.04E-04	3.08E-03	-	-	-	-	-	-	-	-
RC-01 - Recycle Crushing	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Ivanhoe Concentrator - Inputs
Units: LHS-01, LUS-01, IC-01, PC DUMP, PC-01, CV-01C, SAG-F1, SCDP

Assumption: plant throughput remains the same, however a stockpile has been added adjacent to the crusher stockpile.

Units CV-01 C, SCDP

Basis			
Annual Throughput of Ore to Mill:	29,433,600	tons	
Daily Throughput of Ore to Mill:	80,640	tons	Annual average basis per Condition A601 A. of NSR Permit 0298M5
Hourly Throughput of Ore to Mill:	3,360	tons	Maximum single hourly rate per Condition A601 A. of NSR Permit 0298M5
Building Enclosure Efficiency:	85	%	Industry experience; used in controlled emission calculations for Ore Transfer Point and SAG Mill Conveyors only.
Annual operating days: [4]	365		
Daily operating hours: [4]	24		

Ivanhoe Concentrator - SAG Mill Feeder Emissions
Units SAG-F1

Basis			
Annual Throughput of Ore to Mill:	28,908,000	tons	
Daily Throughput of Ore to Mill:	79,200	tons	Annual average basis per Condition A601 A. of NSR Permit 0298M5
Hourly Throughput of Ore to Mill:	3,300	tons	Maximum single hourly rate per Condition A601 A. of NSR Permit 0298M5
Building Enclosure Efficiency:	85	%	Industry experience; used in controlled emission calculations for Ore Transfer Point and SAG Mill Conveyors only.
Annual operating days: [4]	365		
Daily operating hours: [4]	24		

Ivanhoe Concentrator - Lime System Wet Scrubber Emissions
Units LHS-01 and LUS-01

Basis			
Annual Throughput of lime unloading system:	46,428	tons	
Daily Throughput of lime unloading system:	127	tons	
Hourly Throughput of lime unloading system:	54.5	tons	
Annual Throughput of lime handling system:	46,428	tons	
Daily Throughput of lime handling system:	127	tons	
Hourly Throughput of lime handling system:	10	tons	
Control Efficiency of Wet Scrubber for Lime Handling:	99.8	%	[Manufacturer specs]
Control Efficiency of Wet Scrubber for Lime Unloading:	99.8	%	[Manufacturer specs]
Lime unloading annual operating days:	365		
Lime unloading daily operating hours:	2		
Lime handling annual operating days:	365		
Lime handling daily operating hours:	13		

Ivanhoe Concentrator - Crusher Dump Emissions
Unit PC DUMP

Basis			
Annual Throughput of Ore to Crusher:	29,433,600	tons	[Based on daily max X 365 day/yr]
Daily Throughput of Ore to Crusher:	80,640	tons	[Permit limit, NSR 298M5]
Hourly Throughput of Ore to Crusher:	3,360	tons	[Permit limit, NSR 298M5]
Control Efficiency of Dump Pocket Water Sprays:	70	%	[Minimum, based on design of typical system]
Annual operating days:	365		
Daily operating hours:	24		

Ivanhoe Concentrator - Primary Crusher and Baghouse Emissions
Unit PC-01

Basis			
Annual Throughput of Ore to Crusher:	28,908,000	tons	
Daily Throughput of Ore to Crusher:	79,200	tons	
Hourly Throughput of Ore to Crusher:	3,300	tons	
Design/Nominal Baghouse Capacity:	14,000	CFM	[Bechtel Specifications]
Control Efficiency of Dust Collector:	99.7	%	[Bechtel Specifications]
Grain Inlet Loading:	6.0	gr/cf	[Bechtel Specifications]
Annual operating days:	365		
Daily operating hours:	24		

Ivanhoe Concentrator - Sag Tunnel and Baghouse
Unit SAG

Basis			
Annual Throughput of Ore to SAG:	28,908,000	tons	
Daily Throughput of Ore to SAG:	79,200	tons	
Hourly Throughput of Ore to SAG:	3,300	tons	
Outlet Grain Loading:	0.005	gr/dscf	Golder Conceptual Design , pg.11
Inlet Grain Loading:	10	gr/dscf	Golder Conceptual Design, pg.11
Baghouse Flow Capacity:	24000	acfm	Golder Conceptual Design, pg.13
Annual operating days:	365		
Daily operating hours:	24		

Ivanhoe Concentrator - Recycle Crushing
Unit RC-01

Basis			
Annual Throughput of Ore to Crusher:	5,037,000	tons	
Daily Throughput of Ore to Crusher:	13,800	tons	
Hourly Throughput of Ore to Crusher:	575	tons	
Baghouse Flow Capacity:	10,440	CFM	Manufacturer's Specifications
Annual operating days:	365		
Daily operating hours:	24		

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Ivanhoe Concentrator - SAG Mill Feeder Emissions
Units CV-01 C, SCDP, SAG-F1

Basis			
Annual Throughput of Ore to Mill:	29,433,600	tons	
Daily Throughput of Ore to Mill:	80,640	tons	Annual average basis per Condition A601 A. of NSR Permit 0298M5
Hourly Throughput of Ore to Mill (Units CV-01C, SCDP):	3,360	tons	Maximum single hourly rate per Condition A601 A. of NSR Permit 0298M5
Hourly Throughput of Ore to Mill (SAG-F1):	3,300		
Building Enclosure Efficiency:	85	%	Industry experience; used in controlled emission calculations for Ore Transfer Point and SAG Mill Conveyors only.
Annual operating days:*	365		
Daily operating hours:*	24		
Aerodynamic Particle Size Multiplier (k) (<30 µm)[(2)]:	0.74		
Aerodynamic Particle Size Multiplier (k) (<10 µm)[(2)]:	0.35		
Aerodynamic Particle Size Multiplier (k) (<2.5 µm)[(2)]:	0.053		
Moisture Content[(2)]:	8.15	%	
Wind Speed[(2)]:	2.53	mph	

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%) [1]

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Criteria Pollutant	PM	PM_{10}	$PM_{2.5}$
Uncontrolled Emission Factors, lb/ton[2]	3.00E-03	1.10E-03	1.65E-04

Criteria Pollutant	PM	PM_{10}	$PM_{2.5}$
SCDP - Uncontrolled Emission Factors, lb/ton[3]	1.36E-04	6.45E-05	9.76E-06
SCDP - Controlled Emission Factors, lb/ton[3]	1.36E-04	6.45E-05	9.76E-06

Emission Unit Name	Controlled Pollutant Emissions, lb/hr																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
CV-01C- Ore Transfer Point (enclosed)	1.51	0.55	0.083	4.84E-06	5.34E-06	3.06E-04	1.59E-06	1.01E-06	5.08E-05	4.75E-05	6.69E-03	7.16E-06	3.66E-05	1.15E-05	2.13E-05	3.58E-07	1.01E-05	5.01E-05	2.53E-05
SCDP - Stacker Conveyor Drop Point	0.46	0.22	0.033	1.47E-06	1.62E-06	9.25E-05	4.81E-07	3.07E-07	1.54E-05	1.44E-05	2.03E-03	2.17E-06	1.11E-05	3.47E-06	6.46E-06	1.08E-07	3.07E-06	1.52E-05	7.66E-06
SAG-F1 - SAG Mill Conveyor No.1	0.74	0.27	0.041	2.38E-06	2.62E-06	1.50E-04	7.80E-07	4.97E-07	2.50E-05	2.33E-05	3.28E-03	3.51E-06	1.80E-05	5.63E-06	1.05E-05	1.76E-07	4.97E-06	2.46E-05	1.24E-05
SAG-F1 - SAG Mill Conveyor No.2	0.74	0.27	0.042	2.38E-06	2.62E-06	1.50E-04	7.80E-07	4.97E-07	2.50E-05	2.33E-05	3.28E-03	3.51E-06	1.80E-05	5.63E-06	1.05E-05	1.76E-07	4.97E-06	2.46E-05	1.24E-05
TOTALS	**3.45**	**1.32**	**0.20**	**1.11E-05**	**1.22E-05**	**6.98E-04**	**3.63E-06**	**2.31E-06**	**1.16E-04**	**1.09E-04**	**0.015**	**1.64E-05**	**8.37E-05**	**2.62E-05**	**4.87E-05**	**8.18E-07**	**2.31E-05**	**1.15E-04**	**5.78E-05**

Emission Unit Name	Controlled Pollutant Emissions, tpy																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
CV-01C- Ore Transfer Point (enclosed)	6.62	2.43	0.36	6.42E-06	7.09E-06	4.05E-04	2.11E-06	1.34E-06	6.74E-05	6.30E-05	8.87E-03	9.49E-06	4.86E-05	1.52E-05	2.83E-05	4.75E-07	1.34E-05	6.65E-05	3.36E-05
SCDP - Stacker Conveyor Drop Point	2.01	0.95	0.14	6.42E-06	7.09E-06	4.05E-04	2.11E-06	1.34E-06	6.74E-05	6.30E-05	8.87E-03	9.49E-06	4.86E-05	1.52E-05	2.83E-05	4.75E-07	1.34E-05	6.65E-05	3.36E-05
SAG-F1 - SAG Mill Conveyor No.1	3.31	1.21	0.18	1.06E-05	1.17E-05	6.69E-04	3.48E-06	2.22E-06	1.11E-04	1.04E-04	0.015	1.57E-05	8.02E-05	2.51E-05	4.67E-05	7.84E-07	2.22E-05	1.10E-04	5.54E-05
SAG-F1 - SAG Mill Conveyor No.2	3.31	1.21	0.18	1.06E-05	1.17E-05	6.69E-04	3.48E-06	2.22E-06	1.11E-04	1.04E-04	0.015	1.57E-05	8.02E-05	2.51E-05	4.67E-05	7.84E-07	2.22E-05	1.10E-04	5.54E-05
TOTALS	**15.25**	**5.81**	**0.87**	**3.41E-05**	**3.76E-05**	**2.15E-03**	**1.12E-05**	**7.12E-06**	**3.57E-04**	**3.34E-04**	**0.047**	**5.03E-05**	**2.58E-04**	**8.06E-05**	**1.50E-04**	**2.52E-06**	**7.12E-05**	**3.53E-04**	**1.78E-04**

Notes:

[1]Data taken from Chino 2024 TRI data received from Ellen Silk.

[2]Emission factors for the SAG Mill Conveyors and Ore Transfer Point were obtained from Table 11.19.2-2 of USEPA AP-42, conveyor transfer point emission factors for Crushed Stone Processing and Pulverized Mineral Processing (8/04). A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006.

[3]Conveyor Drop Point Emission Factors are calculated from Equation 1 in AP-42 Chapter 13.2.4 "Aggregate Handling and Storage Piles" (11/2006):
E = k(0.0032) * (U/2.2)1.3 / (M/2)1.4, where E = emission factor (lb/ton), k = particle size multiplier (dimensionless), U = mean wind speed (mph), and M = material moisture content (%). The values of U and M are the mean of Ranges of Source Conditions for Equation 1 listed in the chapter.

*Daily and annual operating schedule provided by E P Bock, Chino Mines Company, Mine Engineering.

Sample Calculations:

Stacker Conveyor Drop:

PM emissions (lb/hr) = 3360 tons/hr of ore x 0.003 lb of PM/ton of ore x (1-(85% eff.) = 0.46 lb/hr
PM emissions (tpy) = 29433600 tons/yr of ore x 0.003 lb of PM/ton of ore x 1.0 ton/2,000 lb x (1-(85% eff.) = 2.01 tpy
Antimony emissions (lb/hr) = 0.46 lb/hr x 0.0003% = 0.0000015 lb/hr
Antimony emissions (tpy) = 2.01 tpy x 0.0003% = 0.000006 tpy

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Ivanhoe Concentrator - Lime System Wet Scrubber Emissions
Units LHS-01 and LUS-01

Basis			
Annual Throughput of lime unloading system:	46,428	tons	
Daily Throughput of lime unloading system:	127	tons	
Hourly Throughput of lime unloading system:	55	tons	
Annual Throughput of lime handling system:	46,428	tons	
Daily Throughput of lime handling system:	127	tons	
Hourly Throughput of lime handling system:	10	tons	
Control Efficiency of Wet Scrubber for Lime Handling:	99.8	%	[Manufacturer specs]
Control Efficiency of Wet Scrubber for Lime Unloading:	99.8	%	[Manufacturer specs]
Lime unloading annual operating days:	365		
Lime unloading daily operating hours:	2		
Lime handling annual operating days:	365		
Lime handling daily operating hours:	13		

Criteria Pollutant	PM	PM_{10}	$PM_{2.5}$
Uncontrolled Emission Factors, lb/ton[1]	2.20	2.20	0.33

Emission Unit Name	Uncontrolled Pollutant Emissions, lb/hr[2]			Uncontrolled Pollutant Emissions, tpy[2]		
	PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$
LUS-01 - Lime Unloading System	119.94	119.94	17.99	51.07	51.07	7.66
LHS-01 - Lime Handling System	22.00	22.00	3.30	51.07	51.07	7.66
TOTALS	**141.94**	**141.94**	**21.29**	**102.14**	**102.14**	**15.32**

Emission Unit Name	Controlled Pollutant Emissions, lb/hr[2]			Controlled Pollutant Emissions, tpy[2]		
	PM	PM_{10}	$PM_{2.5}$	PM	PM_{10}	$PM_{2.5}$
LUS-01 - Lime Unloading System	0.24	0.24	0.036	0.10	0.10	0.015
LHS-01 - Lime Handling System	0.044	0.044	6.60E-03	0.10	0.10	0.015
TOTALS	**0.28**	**0.28**	**0.043**	**0.20**	**0.20**	**0.031**

Notes:

[1]Emission factors obtained from Table 11.17-4 of AP-42 Section 11.17, emission factors for lime handling raw material and product processing and handling, product transfer and conveying (2/98). Assumes all PM_{10} is equivalent to PM. A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006.

[2]Process operations and daily and annual operating schedule provided by Roger Magnuson, Chino Mines Company in 3/18/2011 email.

Sample Calculations:

Lime Unloading System:

PM emissions (lb/hr) = 2.2 lb of PM/ton of lime x 54.5 tons/hr of lime x (1-(99.8%) = 0.24 lb/hr

PM emissions (tpy) = 46428 tpy of lime x 2.2 lb of PM/ton of lime x 1.0 ton/2,000 lbs x (1-(99.8%) = 0.102 tpy

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Ivanhoe Concentrator - Crusher Dump Emissions
Unit PC DUMP

Basis			
Annual Throughput of Ore to Crusher:	29,433,600	tons	[Based on daily max X 365 day/yr]
Daily Throughput of Ore to Crusher:	80,640	tons	[Permit limit, NSR 298M5]
Hourly Throughput of Ore to Crusher:	3,360	tons	[Permit limit, NSR 298M5]
Control Efficiency of Dump Pocket Water Sprays:	70	%	[Minimum, based on design of typical system]
Annual operating days:	365		
Daily operating hours:	24		

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%) [1]

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Criteria Pollutant	PM	PM_{10}	$PM_{2.5}$
Uncontrolled Emission Factors, lb/ton[2]	4.18E-05	1.60E-05	2.40E-06

Emission Unit Name	Controlled Pollutant Emissions, lb/hr[3]																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Primary Crusher Dump Pocket (Controlled)	0.042	0.016	0.0024	1.35E-07	1.49E-07	8.51E-06	4.42E-08	2.82E-08	1.42E-06	1.32E-06	1.86E-04	1.99E-07	1.02E-06	3.19E-07	5.94E-07	9.97E-09	2.82E-07	1.40E-06	7.05E-07
(Uncontrolled)	0.140	0.054	0.0081	4.50E-07	4.96E-07	2.84E-05	1.47E-07	9.41E-08	4.72E-06	4.41E-06	6.21E-04	6.65E-07	3.40E-06	1.06E-06	1.98E-06	3.32E-08	9.41E-07	4.66E-06	2.35E-06
Emission Unit Name	**Controlled Pollutant Emissions, tpy[3]**																		
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Primary Crusher Dump Pocket (Controlled)	0.18	0.071	0.011	5.91E-07	6.52E-07	3.73E-05	1.94E-07	1.24E-07	6.20E-06	5.80E-06	8.16E-04	8.74E-07	4.47E-06	1.40E-06	2.60E-06	4.37E-08	1.24E-06	6.12E-06	3.09E-06
(Uncontrolled)	0.62	0.24	0.035	1.97E-06	2.17E-06	1.24E-04	6.46E-07	4.12E-07	2.07E-05	1.93E-05	2.72E-03	2.91E-06	1.49E-05	4.66E-06	8.68E-06	1.46E-07	4.12E-06	2.04E-05	1.03E-05

Notes:

[2]Emission factors obtained from Table 11.19-2.2, the AP-42, truck unloading emission factors for Crushed Stone Processing and Pulverized Mineral Processing (8/04). A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006.

[3]Daily and annual operating schedule and process parameters provided by E P Bock, Chino Mines Company, Mine Engineering.

Sample Calculations:

Primary Crusher Dump Pocket (Controlled)

PM emissions (lb/hr) = 3360 tons/hr of ore x 0 lb of PM/ton of ore x (1-70%)= 0.04 lb/hr

Antimony emissions (lb/hr) = 0.04 lb/hr x 0.0003% = 0.0000001 lb/hr

Antimony emissions (tpy) = 0.18 tpy x 0.00032% / 100 = 0.000001 tpy

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Revised: February 2026

Ivanhoe Concentrator - Primary Crusher and Baghouse Emissions
Unit PC-01

Basis			
Annual Throughput of Ore to Crusher:	28,908,000	tons	
Daily Throughput of Ore to Crusher:	79,200	tons	
Hourly Throughput of Ore to Crusher:	3,300	tons	
Design/Nominal Baghouse Capacity:	14,000	CFM	[Bechtel Specifications]
Control Efficiency of Dust Collector:	99.7	%	[Bechtel Specifications]
Grain Inlet Loading:	6	gr/scf	[Bechtel Specifications]
Annual operating days:	365		
Daily operating hours:	24		

Emission Factors (lb/ton)[1] **Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%) [2]**

PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
0.0054	0.0024	0.0024	3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Uncontrolled Pollutant Emissions

Emission Unit Name	Uncontrolled Pollutant Emissions, lb/hr																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Primary Crusher	17.82	7.92	7.92	5.71E-05	6.30E-05	3.60E-03	1.87E-05	1.19E-05	5.99E-04	5.60E-04	7.88E-02	8.44E-05	4.32E-04	1.35E-04	2.51E-04	4.22E-06	1.19E-04	5.91E-04	2.98E-04

Emission Unit Name	Uncontrolled Pollutant Emissions, tpy																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Primary Crusher	78.05	34.69	34.69	2.50E-04	2.76E-04	1.58E-02	8.20E-05	5.23E-05	2.62E-03	2.45E-03	3.45E-01	3.69E-04	1.89E-03	5.92E-04	1.10E-03	1.85E-05	5.23E-04	2.59E-03	1.31E-03

Controlled Pollutant Emissions

Emission Unit Name	Controlled Pollutant Emissions, lb/hr[3]																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Primary Crusher Baghouse	2.16	2.16	2.16	6.92E-06	7.63E-06	4.36E-04	2.27E-06	1.45E-06	7.26E-05	6.79E-05	9.56E-03	1.02E-05	5.23E-05	1.64E-05	3.05E-05	5.11E-07	1.45E-05	7.16E-05	3.61E-05

Emission Unit Name	Controlled Pollutant Emissions, tpy[3]																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Primary Crusher Baghouse	9.46	9.46	9.46	3.03E-05	3.34E-05	1.91E-03	9.93E-06	6.34E-06	3.18E-04	2.97E-04	4.19E-02	4.48E-05	2.29E-04	7.17E-05	1.33E-04	2.24E-06	6.34E-05	3.14E-04	1.58E-04

Notes:

[1]Emission factors obtained from AP-42 Table 11.19-2.2. Per sub note "n": emission factors for PM_{10} for tertiary crushers can be used as an upper limit for primary or secondary crushing, because there is no data available.

[2]Data taken from Chino 2024 TRI data received from Ellen Silk.

[3]Emissions from Primary Crusher and Crusher drop Point are controlled by a dust collector with a 99.7% vendor guarantee and a 6.0 gr/cf inlet loading.

Sample Calculations:

Primary Crusher Baghouse

PM emissions (lb/hr) = 14000 cf/min x 6 gr of PM/cf x lb/7,000 gr x 60 min/hr x (1 - 99.7%) = 2.16 lb/hr

Antimony emissions (lb/hr) = 2.16 lb/hr x 0.0003% = 0.00001 lb/hr

Antimony emissions (tpy) = 0.00001 lb/hr x 24 hours/day x 365 days/yr x 1.0 ton/2,000 lbs = 0.00003 tpy

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Chino Mine - Stockpile Wind Erosion
Unit: IOS

Wind erosion emissions for the intermediate ore stockpile are based on AP-42, Section 11.2.3, Aggregate Handling and Storage Piles (5/83).

Summary of Erodible Area Emissions	
Pollutant	**TOTALS**
PM (lb/hr)	**0.26**
PM (tons/yr)	**0.059**
PM_{10} (lb/hr)	**0.13**
PM_{10} (tons/yr)	**0.029**
$PM_{2.5}$ (lb/hr)	**0.019**
$PM_{2.5}$ (tons/yr)	**4.42E-03**

Annual Emissions from Active Areas
Erodible Area: **2.6** acres
Silt Percent: **4.8** %

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore (%)[1]

Composite Assay of Samples [mass fraction]	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
	3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Source: AP-42, 11.2.3.1 (5/83)								Erodible Area Emissions		
Area	Pollutant	Particle Size Multiplier, k_2	Silt Content of Aggregate, s^3	Number of Days with ≥ 0.25 in Precipitation, p^4	Percent Time of Unobstructed Wind Speed > 12 mph, f^5	Emission Factor[6]	Erodible Surface Area	Annual Emissions		Hourly Emissions, based on 8,760 hr/yr
			%		%	(lb/day/acre)	(m^2)	(lb/yr)	(tons/yr)	(lb/hr)
Stockpiles (Active)	PM	1	4.8	89	52.3	22.28	10,522	516.74	0.26	0.059
	PM_{10}	0.5	4.8	89	52.3	11.14	10,522	258.37	0.13	0.029
	$PM_{2.5}$	0.075	4.8	89	52.3	1.67	10,522	38.76	0.019	4.42E-03

HAPs/TAPs

Erodible Area Emissions																
Area	Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt		Copper	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
Stockpiles (Active)	1.89E-05	8.28E-05	2.08E-05	9.13E-05	1.19E-03	5.22E-03	6.19E-06	2.71E-05	3.95E-06	1.73E-05	1.98E-04	8.68E-04	1.85E-04	8.12E-04	0.026	0.11

Area	Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
Stockpiles (Active)	2.79E-05	1.22E-04	1.43E-04	6.26E-04	4.47E-05	1.96E-04	8.32E-05	3.64E-04	1.40E-06	6.11E-06	3.95E-05	1.73E-04	1.96E-04	8.57E-04	9.87E-05	4.32E-04

Notes:

[1]TAP emissions are calculated by multiplying the PM Emissions by the TAP content (%) in ore rock based on the 2024 assay data for ore. Material handling at Ivanhoe will occur with ore rock.

2k is a particle size multiplier: PM (30 um), k=1.0; PM10 (<10 um), k=0.5; PM2.5 (<2.5 um), k = 0.075. [AP-42, page 13.2.5-3]

[3] s is the silt content of aggregate, NMED Default from "Department Accepted Values for: Aggregate Handling, Storage Pile, and Haul Road Emissions" and [AP-42, Chapter 13.2.2]

[4] Value collected from the 2020-2024 precipitation data from the South Stockpile Met Station which is the closest weather station to the Chino Mine.

[5] Value collected from the 2020-2024 wind speed data from the South Stockpile Met Station which is the closest weather station to the Chino Mine.

[6]Emission factor calculation comes from AP-42 Fourth Edition Chapter 11.2.3.1 (5/83) equation 3 with a particle size multiplier from AP-42, page 13.2.5-3:

EF =(1.7*(s/1.5)*((365-p)/235))*(f/15))*[particle size multiplier].

where s = silt content of aggregate (%)

p = number of days with ≥ 0.25 mm (0.01 in.) of precipitation per year

f = percentage of time that the unobstructed wind speed exceeds 5.4 m/s (12 mph) at the mean pile height

Freeport-McMoRan Chino Mines Company
Revised: February 2026
SAG Tunnel Dust Collector

Item	Value	Unit	Notes
Annual Throughput of Ore to SAG:	28,908,000	tons/yr	
Daily Throughput of Ore to SAG:	79,200	ton/d	
Hourly Throughput of Ore to SAG:	3,300	ton/hr	
Outlet Grain Loading:	0.005	gr/dscf	Golder Conceptual Design , pg.11
Inlet Grain Loading:	10	gr/dscf	Golder Conceptual Design, pg.11
Baghouse Flow Capacity:	24000	acfm	Golder Conceptual Design, pg.13
Baghouse Flow Capacity:	24000.00	dscfm	Assumed to operate at STP
Filt. PM_{10} to Filt. PM Ratio	0.51	-	AP-42 Appendix B.2 Generalized Particle Size Distributions Table B.2.2 Category 3
Filt. $PM_{2.5}$ to Filt. PM Ratio	0.15	-	AP-42 Appendix B.2 Generalized Particle Size Distributions Table B.2.2 Category 3

PM_{10} Safety Factor: 85%
$PM_{2.5}$ Safety Factor: 200%

Emission Factors (lb/ton)[1],[2] **Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%)[3]**

PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
0.0030	0.00110	0.000165	3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Uncontrolled Pollutant Emissions

Emission Unit Name	Uncontrolled Pollutant Emissions, lb/hr																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Conveyor Transfer Point	9.90	3.63	0.54	3.17E-05	3.50E-05	2.00E-03	1.04E-05	6.63E-06	3.33E-04	3.11E-04	4.38E-02	4.69E-05	2.40E-04	7.50E-05	1.40E-04	2.34E-06	6.63E-05	3.28E-04	1.66E-04

Emission Unit Name	Uncontrolled Pollutant Emissions, tpy																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Conveyor Transfer Point	43.36	15.90	2.38	1.39E-04	1.53E-04	8.76E-03	4.55E-05	2.91E-05	1.46E-03	1.36E-03	1.92E-01	2.05E-04	1.05E-03	3.29E-04	6.12E-04	1.03E-05	2.91E-04	1.44E-03	7.25E-04

Controlled Pollutant Emissions

Emission Unit Name	Controlled Pollutant Emissions, lb/hr[4]																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Primary Crusher Baghouse	1.03	0.97	0.46	3.29E-06	3.63E-06	2.08E-04	1.08E-06	6.89E-07	3.46E-05	3.23E-05	4.55E-03	4.87E-06	2.49E-05	7.80E-06	1.45E-05	2.43E-07	6.89E-06	3.41E-05	1.72E-05

Emission Unit Name	Controlled Pollutant Emissions, tpy[4]																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Primary Crusher Baghouse	4.51	4.25	2.03	1.44E-05	1.59E-05	9.10E-04	4.73E-06	3.02E-06	1.51E-04	1.42E-04	1.99E-02	2.13E-05	1.09E-04	3.41E-05	6.35E-05	1.07E-06	3.02E-05	1.49E-04	7.54E-05

Notes:

[1]Emission factors obtained from AP-42 Table 11.19-2.2 for conveyor transfer points.

[2]PM_{10} and $PM_{2.5}$ emissions were calculated using the filterable ratio of PM/PM_{10} and $PM/PM_{2.5}$, respectively, plus a safety factor.

[3]Data taken from Chino 2024 TRI data received from Ellen Silk.

[4]PM emissions were calculated from the inlet/outlet grain loading (gr/dscf) and the bag house flow rate (dscfm)
(lb/hr) = Grain loading (gr/dscf) * baghouse flow rate (dscfm) * (60 min/hr) / (7000 gr/lb)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Ivanhoe Concentrator - SAG Mill Floatation
Unit FLOAT

Annual Reagent Use Safety Factor: 25%

Reagents Used in 2022[1]	Reagent Used (lb/year) [1]	Reagent Used (ton/year)	Sub-component	CAS No.	Wt.%	Sub-Component Used (ton/year)	Pollutant Classification	Emission Factor[2] (lb VOC/ton organic reagent)	VOC (ton/year) [3]	VOC (lb/hr) [4]	HAP (ton/year) [3]	HAP (lb/hr) [4]	TAP (ton/year) [3]	TAP (lb/hr) [4]
QuadraFroth P-100	3,766,900	1883.45	terpineol	8000-41-7	90%	1695.11	VOC		1.99	0.455	-	-	-	-
		1883.45	hydrocarbons, terpene processing by-products	68956-56-9	10%	188.35	VOC		0.221	0.051	-	-	-	-
Nalco 9714	718,500	359.25	*Not a hazardous substance or mixture.*	*N/A*	0%	0	N/A		-	-	-	-	-	-
Cytec 7048	319,400	159.70	Sec-butanol	78-92-2	5%	7.99	VOC		9.38E-03	2.14E-03	-	-	-	-
		159.70	Isobutanol	78-83-1	13%	20.76	VOC		0.024	5.569E-03	-	-	-	-
		159.70	Modified thiocarbamate (#1)		30%	47.91	VOC[4]		0.056	0.013	-	-	-	-
		159.70	Sodium Hydroxide	1310-73-2	0.9%	1.44	TAP	2.35	-	-	-	-	1.69E-03	3.86E-04
		159.70	Thiophosphate #1		30%	47.91	VOC[4]		0.056	0.013	-	-	-	-
Magnafloc 10	472,600	236.30	*Does not contain any health hazard components*	*N/A*	0%	0	N/A		-	-	-	-	-	-
7310 Promoter	474,700	237.35	Sodium dicresyl dithiophosphate	61792-48-1	90%	213.62	VOC		0.25	0.057	-	-	-	-
		237.35	Cresylic acid (cresol)	1319-77-3	2.5%	5.93	VOC/HAP		6.97E-03	1.59E-03	6.97E-03	1.59E-03	-	-
		237.35	Sodium hydroxide	1310-73-2	0.5%	1.19	TAP		-	-	-	-	1.39E-03	3.18E-04
Quadrafroth 222	428,400	214.20	1-Propene, hydroformylation products	203588-70-9	100%	214.20	VOC		0.25	0.057	-	-	-	-
Notes:								**Total VOC (ton/year)**	2.87	0.66	6.97E-03	1.59E-03	3.08E-03	7.04E-04

[1]Reagent usage is the annual maximum 2022-2024 monthly inventory received from Ellen Silk by email on 8/13/2025. A 25% safety factor was also included and values were rounded up to the nearest hundred.

[2]Emission factor taken from October 2009 study of the Henderson Mil to measure VOC emissions.

[3]Example of calculated VOC emission rates are calculated as follows :

VOC emissions (tpy) = [1,695 tons/year terpineol] x [2.35 lb of VOC/ton of QuadraFroth P-100 organic reagent] / [2,000 lbs/ton] = 1.99 tpy VOC

[4]Cas No. was left blank for sub-component due to trade secret. Sub-component was conservatively assumed to be a VOC.

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Recycle Crushing
Unit: RC-01

Item	Value	Unit	Notes
Annual Throughput of Ore to Crusher:	5,037,000	tons/yr	
Daily Throughput of Ore to Crusher:	13,800	ton/d	
Hourly Throughput of Ore to Crusher:	575	ton/hr	
Baghouse Flow Capacity:	10,440	acfm	Manufacturer's Specifications
Baghouse Flow Capacity:	10440	dscfm	Assumed to operate at STP
Baghouse Control Efficiency:	99.0%	%	Coperation PE806 Cartridge Guarantee
Filt. PM_{10} to Filt. PM Ratio	0.51	-	AP-42 Appendix B.2 Generalized Particle Size
Filt. $PM_{2.5}$ to Filt. PM Ratio	0.15	-	AP-42 Appendix B.2 Generalized Particle Size

Emission Factors (lb/ton)[1] **Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%) [2]**

PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
0.0054	0.0024	0.0024	3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Uncontrolled Pollutant Emissions

Emission Unit Name	Uncontrolled Pollutant Emissions, lb/hr																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Recycle Crusher	3.11	1.38	1.38	9.95E-06	1.10E-05	6.27E-04	3.26E-06	2.08E-06	1.04E-04	9.76E-05	1.37E-02	1.47E-05	7.52E-05	2.35E-05	4.38E-05	7.35E-07	2.08E-05	1.03E-04	5.19E-05

Emission Unit Name	Uncontrolled Pollutant Emissions, tpy																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Recycle Crusher	13.60	6.04	6.04	4.36E-05	4.80E-05	2.75E-03	1.43E-05	9.11E-06	4.57E-04	4.27E-04	6.02E-02	6.44E-05	3.29E-04	1.03E-04	1.92E-04	3.22E-06	9.11E-05	4.51E-04	2.27E-04

Controlled Pollutant Emissions

Emission Unit Name	Controlled Pollutant Emissions, lb/hr[3],[4]																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Recycle Crusher and Baghouse	0.031	0.014	0.014	9.95E-08	1.10E-07	6.27E-06	3.26E-08	2.08E-08	1.04E-06	9.76E-07	1.37E-04	1.47E-07	7.52E-07	2.35E-07	4.38E-07	7.35E-09	2.08E-07	1.03E-06	5.19E-07

Emission Unit Name	Controlled Pollutant Emissions, tpy[3],[4]																	
	PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Recycle Crusher and Baghouse	0.136	0.060	0.060	4.36E-07	4.80E-07	2.75E-05	1.43E-07	9.11E-08	4.57E-06	4.27E-06	6.02E-04	6.44E-07	3.29E-06	1.03E-06	1.92E-06	3.22E-08	9.11E-07	4.51E-06	2.27E-06

Notes:

[1]Emission factors obtained from AP-42 Table 11.19-2.2. Per sub note "n": emission factors for PM_{10} for tertiary crushers can be used as an upper limit for primary or secondary crushing, because there is no data available.

[2]Data taken from Chino 2024 TRI data received from Ellen Silk.

[3]PM emissions were calculated from the inlet/outlet grain loading (gr/dscf) and the bag house flow rate (dscfm)
(lb/hr) = Grain loading (gr/dscf) * baghouse flow rate (dscfm) * (60 min/hr) / (7000 gr/lb)

[4]PM_{10} and $PM_{2.5}$ emissions were calculated using the filterable ratio of PM/PM_{10} and $PM/PM_{2.5}$, respectively, plus a safety factor.

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Cobre & Chino Tailing Emissions - Emission Summary
Units: CB TLNGS & CM TLNGS

Unit	PM		PM_{10}		$PM_{2.5}$		Total HAP		Total TAP	
	(lb/yr)	(tons/yr)	(lb/yr)	(tons/yr)	(lb/yr)	(tons/yr)	(lb/yr)	(tons/yr)	(lb/yr)	(tons/yr)
CB TLNGS	0.27	1.17	0.13	0.59	0.020	0.088	2.04E-05	8.94E-05	2.45E-04	1.07E-03
CM TLNGS	56.60	511.94	58.44	255.97	8.77	38.40	4.32E-03	0.039	0.052	0.47
Total	**56.87**	**513.11**	**58.57**	**256.56**	**8.79**	**38.48**	**4.34E-03**	**0.039**	**0.052**	**0.47**

Unit	Aluminum		Arsenic		Barium		Cadmium		Chlorine		Cobalt		Chromium		Copper		Fluorine		Manganese		Nickel		Lead		Selenium	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	tpy	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
CB TLNGS	1.95E-04	8.53E-04	1.46E-07	6.39E-07	6.09E-07	2.67E-06	1.33E-08	5.84E-08	2.42E-07	1.06E-06	5.86E-07	2.57E-06	5.75E-07	2.52E-06	2.98E-05	1.31E-04	7.98E-08	3.50E-07	1.81E-05	7.92E-05	3.74E-07	1.64E-06	2.38E-07	1.04E-06	1.59E-07	6.95E-07
CM TLNGS	4.12E-02	3.72E-01	3.08E-05	2.79E-04	1.29E-04	1.16E-03	2.82E-06	2.55E-05	5.11E-05	4.62E-04	1.24E-04	1.12E-03	1.22E-04	1.10E-03	6.31E-03	5.71E-02	1.69E-05	1.53E-04	3.82E-03	3.46E-02	7.91E-05	7.15E-04	5.03E-05	4.55E-04	3.35E-05	3.03E-04
Total	**4.14E-02**	**3.73E-01**	**3.10E-05**	**2.80E-04**	**1.29E-04**	**1.17E-03**	**2.83E-06**	**2.55E-05**	**5.13E-05**	**4.63E-04**	**1.24E-04**	**1.12E-03**	**1.22E-04**	**1.10E-03**	**6.34E-03**	**5.72E-02**	**1.69E-05**	**1.53E-04**	**3.84E-03**	**3.47E-02**	**7.95E-05**	**7.17E-04**	**5.06E-05**	**4.56E-04**	**3.37E-05**	**3.04E-04**

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Cobre & Chino Tailing Emissions - Input Summary

Unit CB TLNGS & CM TLNGS

Wind Erosion Emissions for Cobre Tailings Impoundment

Unit CB TLNGS

Wind Erosion Emissions for Cobre Tailings Impoundment

Area	Acres
Total Impoundment Area	142
Area covered by pond water	25
Area covered by rock cover	108
Total Remaining Area	9
# of Times/Yr for New Erodible Material	1
Fastest MPH	45

Wind Erosion Emissions for Chino Tailings Impoundment

Unit CM TLNGS

Annual Emissions from Active Area

Area	Acres
Pond 7 Area	1690.15
Pond 7 Outslopes (dust capped/untreated)	358.08
Total Area	2,048
Area covered by pond water	145.85
Total Active Area[1]	**1,902**
# of Times/Yr for New Erodible Material	1
Fastest MPH	45

[1]Total Inactive area includes Pond 7 and Pond 7 Expansion.

Annual Emissions from Inactive Areas

Area	Acres
Total Inactive Area[2]	**2,026**

[2]Total Inactive area includes the following areas: Pond 6 West, Pond 6 East, Pond 4, Pond C, and Pond B.

Percentages of Area Covered*	
Total Pond 7 Area (acre)	1659
less area covered by pond water (acre)	446
% covered by pond water	27%
less beach area wetted by slurry (acre)	356
% beach area wetted by slurry	21%

*Percentages of Areas Covered are based on Pond 7 active retention area from 06/06/2018 calculations.

Chino Tailings Slurry Solids		Avg 2020-2024		HAP[2]	TAP[3]
Chemical		(mg/kg)	%		
Aluminum	Al	8280.0	7.28%	N	Y
Arsenic	As	6.2	0.01%	Y	N
Barium	Ba	25.9	0.02%	N	Y
Calcium	Ca	9480.0	8.33%	N	N
Cadmium	Cd	0.6	0.0005%	Y	Y
Chlorine	Cl	10.3	0.01%	Y	N
Cobalt	Co	24.9	0.02%	Y	Y
Chromium	Cr	24.4	0.02%	Y	Y
Copper	Cu	1268.5	1.11%	N	Y
Fluorine	F	3.4	0.003%	N	Y
Iron	Fe	86041.7	75.60%	N	N
Potassium	K	1578.2	1.39%	N	N
Magnesium	Mg	6013.3	5.28%	N	N
Manganese	Mn	768.8	0.68%	Y	Y
Sodium	Na	131.6	0.12%	N	N
Nickel	Ni	15.9	0.01%	Y	Y
Lead	Pb	10.1	0.01%	Y	N
Selenium	Se	6.7	0.01%	Y	Y
Vanadium	V	16.7	0.01%	N	N
Zinc	Zn	104.7	0.09%	N	N
	TOTAL	113,811.85	100.00%		

[1] Information from tailing slurry solids samples taken semi-annually from 3/5/2020 through 9/3/2024; received on 3/3/2025 from Ellen Silk.

[2] EPA's Initial List of Hazardous Air Pollutants with Modifications: https://www.epa.gov/haps/initial-list-hazardous-air-pollutants-modifications#mods

[3] 20.2.72.502 Toxic Air Pollutants and Emissions: https://www.srca.nm.gov/wp-content/uploads/attachments/20.002.0072.pdf

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Wind Erosion Emissions for Cobre Tailings Impoundment
Unit CB TLNGS

Wind erosion emissions for the tailings impoundment are based on AP-42, Section 13.2.5, Industrial Wind Erosion (11/06).
Emissions are based on the availability of erodible material, the wind speed threshold required to cause the material to become airborne, and how often new material is deposited on the area. Calculated emissions represent intermittent events that only occur when wind speeds are great enough to transport available materials. The emission rate is not a steady state event and decays rapidly to zero when erodible material is no longer available or when wind speeds are no longer great enough to transport material.

The entire Cobre Tailings Impoundment covers approximately 142 acres including the 25-acre Reclaim Pond. Of the 117 acres of the impoundment not covered by the Reclaim Pond, approximately 108 acres have been covered with a six-inch thick rock cover to alleviate wind-blown tailings. No new tailings have been placed in the tailings impoundment since 1999.

Cobre Tailings Impoundment (Inactive)	Acres
Total Impoundment Area	142
area covered by pond water	25
area with rock cover	108
Total Remaining Area of Erodible Material	9

All acreages are approximate.

Summary of Total Erodible Area Emissions - Cobre Tailings		
Pollutant	**Inactive Area**	**TOTALS**
PM (lb/hr)	0.27	**0.27**
PM (tons/yr)	1.17	**1.17**
PM_{10} (lb/hr)	0.13	**0.13**
PM_{10} (tons/yr)	0.59	**0.59**
$PM_{2.5}$ (lb/hr)	0.02	**0.02**
$PM_{2.5}$ (tons/yr)	0.09	**0.09**

See detailed calculations below.

Annual Emissions from Inactive Areas
Erodible Area: **9** acres
Emissions from inactive areas are based on one disturbance or one event that placed erodible material on the area.

Source: AP-42, 13.2.5 (11/06)														Erodible Area Emissions		
Area	**Pollutant**	**# of Times/Yr for New Erodible Material, N [1]**	**Particle Size Multiplier, k [2]**	**Threshold friction velocity, U_t [3]**	**Particle Roughness height [4]**	**Fastest Mile [5]**	**Fastest Mile**	**Height wind Measurement was taken [6]**	**U_{10} [7]**	**Friction velocity, U [8]**	**Erosion Potential, P_i [9]**	**Emission Factor [10]**	**Erodible Surface Area**	**Annual Emissions**		**Hourly Emissions, based on 8,760 hr/yr**
				(m/s)	(m)	(mph)	(m/s)	(m)	(m/s)	(m/s)	(g/m^2)	(g/m^2/yr)	(m^2)	(lb/yr)	(tons/yr)	(lb/hr)
Cobre (Inactive)	PM	1	1	0.54	0.002	45	20.12	10.00	20.12	1.07	29.21	29.21	36,422	2,346	1.17	0.27
	PM10	1	0.5	0.54	0.002	45	20.12	10.00	20.12	1.07	29.21	14.61	36,422	1,173	0.59	0.13
	PM2.5	1	0.075	0.54	0.002	45	20.12	10.00	20.12	1.07	29.21	2.19	36,422	176	0.09	0.02

HAPs/TAPs	Erodible Area Emissions															
	Aluminum		**Arsenic**		**Barium**		**Cadmium**		**Chlorine**		**Cobalt**		**Chromium**		**Copper**	
Area	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**
Cobre (Inactive)	1.95E-04	8.53E-04	1.46E-07	6.39E-07	6.09E-07	2.67E-06	1.33E-08	5.84E-08	2.42E-07	1.06E-06	5.86E-07	2.57E-06	5.75E-07	2.52E-06	2.98E-05	1.31E-04

	Erodible Area Emissions									
	Fluorine		**Manganese**		**Nickel**		**Lead**		**Selenium**	
Area	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**
Cobre (Inactive)	7.98E-08	3.50E-07	1.81E-05	7.92E-05	3.74E-07	1.64E-06	2.38E-07	1.04E-06	1.59E-07	6.95E-07

Aluminum	**Arsenic**	**Barium**	**Cadmium**	**Chlorine**	**Cobalt**	**Chromium**	**Copper**	**Fluorine**	**manganese**	**Nickel**	**Lead**	**Selenium**
%	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**
7.28%	0.01%	0.02%	0.0005%	0.01%	0.02%	0.02%	1.11%	0.003%	0.68%	0.01%	0.01%	0.01%

Chino Tailings Slurry Solids based on 2020-2024 data

Notes:
[1]For inactive areas, no new erodible material is placed. For purposes of providing a conservative estimate of emissions, N is set equal to 1.
[2]k is a particle size multiplier: PM (30 um), k=1.0; PM10 (<10 um), k=0.5; PM2.5 (<2.5 um), k = 0.075. [AP-42, page 13.2.5-3]
[3]Threshold friction velocity is based on fine coal dust on a concrete pad. [Ap-42, Table 13.2.5-2]
[4]Particle Roughness height is abased on the fine coal dust on a concreate pad. [AP-42 Table 13.2.5-5]
[5]The fastest mile (maximum 2-minute wind data from the 2007-2010) obtained from the Silver City station.
[6]Height of the wind measurement was taken.
[7]Standardization of wind measurement based on height: U_{10}^+ = wind measurement * (ln(10/particle height))/(ln(height wind measurement was taken/ particle height)).
[8]Friction Velocity equals the U_{10}^+ * 0.053
[9]Friction Potential function for a dry, exposed surface is:

$P = 58*(U - U_t)^2 + 25*(U-U_t)$
$P = 0$ for $U<U_t$
where U = friction velocity
U_t = threshold friction velocity (m/s)

[10]Emission Factor = Erosion Potential * Particle Size Multiplier

Freeport-McMoRan Chino Mines Company
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Wind Erosion Emissions for Chino Tailings Impoundment
Unit CM TLNGS

Wind erosion emissions for the tailings impoundment are based on AP-42, Section 13.2.5, Industrial Wind Erosion (11/06)
Emissions are based on the availability of erodible material, the wind speed threshold required to cause the material to become airborne, and how often new material is deposited on the area. Calculated emissions represent intermittent events that only occur when wind speeds are great enough to transport available materials. The emission rate is not a steady state event and decays rapidly to zero when erodible material is no longer available or when wind speeds are no longer great enough to transport material.

The entire Chino Tailings Impoundment covers approximately 3,750 acres of which approximately 2,400 acres have been reclaimed, revegetated, crimped with straw, or covered by water
Of the remaining approximately 1,350 acres available for erodible material, approximately 930 acres
are not actively used. Only Tailings Pond 7 is actively used for deposition of tailings slurry.

Annual Emissions from Active Areas*	
Area	**Acres**
Pond 7 Area	1690.15
Total Area	2048.23
Area covered by pond water	145.85
Total Active Area	**1902.37**

*Total Inactive area includes Pond 7

Annual Emissions from Inactive Areas**	
Area	**Acres**
Total Inactive Area	**2,026**

**Total Inactive area includes the following areas: Pond 6 West, Pond 6 East, Pond 4, Pond C, and Pond B

Summary of Total Erodible Area Emissions - Chino Tailings			
Pollutant	**Inactive Areas**	**Active Area**	**TOTALS**
PM (lb/hr)	0.00	56.60	**56.60**
PM (tons/yr)	264.03	247.91	**511.9**
PM10 (lb/hr)	30.14	28.30	**58.44**
PM10 (tons/yr)	132.01	123.96	**255.97**
PM2.5 (lb/hr)	4.52	4.25	**8.77**
PM2.5 (tons/yr)	19.80	18.59	**38.40**

See detailed calculations below.

Source: AP-42, 13.2.5 (11/06)													Erodible Area Emissions		
Area	**Pollutant**	**Fastest Mile [1]**	**Fastest Mile**	**# of Times/Yr for New Erodible Material, N [2]**	**Particle Size Multiplier, k [3]**	**Roughness height**	**u10+**	**Friction velocity, u^{*} [4]**	**Threshold friction velocity, u_t [5]**	**Erosion Potential, P_i**	**Emission Factor**	**Erodible Surface Area**	**Annual Emissions**		**Hourly Emissions, based on 8,760 hr/yr**
		(mph)	**(m/s)**			**(m)**	**(m/s)**	**(m/s)**	**(m/s)**	**(g/m^2)**	**(g/m^2/yr)**	**(m^2)**	**(lb/yr)**	**(tons/yr)**	**(lb/hr)**
Chino Inactive	PM	45	20.12	1	1	0.0001	20.12	1.07	0.54	29.21	29.21	8,199,098	528,057	264.03	
	PM10	45	20.12	1	0.5	0.0001	20.12	1.07	0.54	29.21	14.61	8,199,098	264,028	132.01	30.14
	PM2.5	45	20.12	1	0.075	0.0001	20.12	1.07	0.54	29.21	2.19	8,199,098	39,604	19.80	4.52

Annual Emissions from Active Area - Pond 7
Erodible Area: 1,902 acres
Emissions for the active area of Pond 7 are conservatively based on placement of new erodible material over the entire available area once every year.
See note 2 below for additional information.

Source: AP-42, 13.2.5 (11/06)													Erodible Area Emissions		
Area	**Pollutant**	**Fastest Mile [1]**	**Fastest Mile**	**# of Times/Yr for New Erodible Material, N [2]**	**Particle Size Multiplier, k [3]**	**Roughness height**	**u10+**	**Friction velocity, u^{*} [4]**	**Threshold friction velocity, u_t [5]**	**Erosion Potential, P_i**	**Emission Factor**	**Erodible Surface Area**	**Annual Emissions**		**Hourly Emissions, based on 8,760 hr/yr**
		(mph)	**(m/s)**			**(m)**	**(m/s)**	**(m/s)**	**(m/s)**	**(g/m^2)**	**(g/m^2/yr)**	**(m^2)**	**(lb/yr)**	**(tons/yr)**	**(lb/hr)**
Pond 7	PM	45	20.12	**1**	1	**0.0001**	20.12	1.07	0.54	29.21	29.21	7,698,635	495,825	247.91	56.60
	PM10	45	20.12	1	0.5	0.0001	20.12	1.07	0.54	29.21	14.61	7,698,635	247,913	123.96	28.30
	PM2.5	45	20.12	1	0.075	0.0001	20.12	1.07	0.54	29.21	2.19	7,698,635	37,187	18.59	4.25

HAPs/TAPs

	Erodible Area Emissions													
	Aluminum		**Arsenic**		**Barium**		**Cadmium**		**Chlorine**		**Cobalt**		**Chromium**	
Area	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**
Chino Inactive & Pond 7	4.12E-02	3.72E-01	3.08E-05	2.79E-04	1.29E-04	1.16E-03	2.82E-06	2.55E-05	5.11E-05	4.62E-04	1.24E-04	1.12E-03	1.22E-04	1.10E-03

	Erodible Area Emissions											
	Copper		**Fluorine**		**Manganese**		**Nickel**		**Lead**		**Selenium**	
Area	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**	**lb/hr**	**TPY**
Chino Inactive & Pond 7	6.31E-03	5.71E-02	1.69E-05	1.53E-04	3.82E-03	3.46E-02	7.91E-05	7.15E-04	5.03E-05	4.55E-04	3.35E-05	3.03E-04

Aluminum	**Arsenic**	**Barium**	**Cadmium**	**Chlorine**	**Cobalt**	**Chromium**	**Copper**	**Fluorine**	**manganese**	**Nickel**	**Lead**	**Selenium**
%	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**	**%**
7.28%	0.01%	0.02%	0.0005%	0.01%	0.02%	0.02%	1.11%	0.003%	0.68%	0.01%	0.01%	0.01%

Chino Tailings Slurry Solids based on 2020-2024 data

Notes:
[1]The fastest mile (maximum 2-minute wind data from the 2007-2010) obtained from the Silver City station.
[2]For inactive areas, no new erodible material is placed. For purposes of providing a conservative estimate of emissions, N is set equal to 1. For the active area, new material is placed over the entire surface every two years (G. Andazola, 5/6/11 phone call w/ R. Felty) and N is set equal to 1 to represent the new erodible material.
[3]k is a particle size multiplier: PM (30 um), k=1.0; PM10 (<10 um), k=0.5; PM2.5 (<2.5 um), k = 0.075. [AP-42, page 13.2.5-3]
[4]Friction velocity assumes a typical roughness height of 0.5cm for open terrain. [AP-42, page 13.2.5-5]
[5]Due to a lack of site-specific data, the threshold friction velocity is based on fine coal dust on a concrete pad. [AP-42, Table 13.2.5-2]

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Screen Emissions Summary

Units: CB SCRN, CB SCRN ENG

Uncontrolled Emissions

Unit	Description	PM		PM_{10}		$PM_{2.5}$		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt		Copper	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
CB SCRN (Uncontrolled)	Diesel Engine	13.73	30.06	5.09	11.14	0.76	1.67	4.40E-05	9.63E-05	4.85E-05	1.06E-04	2.77E-03	6.07E-03	1.44E-05	3.16E-05	9.20E-06	2.01E-05	4.61E-04	1.01E-03	4.32E-04	9.45E-04	6.07E-02	1.33E-01

ID	Description	NO_x		CO		VOC		SO_2		PM_{10}		$PM_{2.5}$		PM		Benzene		Acetaldehyde		Acrolein		Formaldehyde	
		lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Screening Plant - CAT C6.6 ACERT Tier 3 Diesel Engine	Diesel Engine	1.16	2.53	1.02	2.22	0.50	1.10	0.42	0.91	0.45	0.98	0.45	0.98	0.45	0.98	1.34E-03	2.94E-03	1.10E-03	2.42E-03	1.33E-04	2.91E-04	1.70E-03	3.72E-03

Controlled Emissions

Unit	Description	PM		PM_{10}		$PM_{2.5}$		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt		Copper	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
CB SCRN (Controlled)	Diesel Engine	3.47	7.60	1.51	3.30	0.20	0.44	1.11E-05	2.43E-05	1.23E-05	2.68E-05	7.01E-04	1.53E-03	3.64E-06	7.98E-06	2.32E-06	5.09E-06	1.17E-04	2.55E-04	1.09E-04	2.39E-04	1.53E-02	3.36E-02

ID	Description	NO_x		CO		VOC		SO_2		PM_{10}		$PM_{2.5}$		PM		Benzene		Acetaldehyde		Acrolein		Formaldehyde	
		lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Screening Plant - CAT C6.6 ACERT Tier 3 Diesel Engine	Diesel Engine	1.16	2.53	1.02	2.22	0.50	1.10	0.42	0.91	0.45	0.98	0.45	0.98	0.45	0.98	1.34E-03	2.94E-03	1.10E-03	2.42E-03	1.33E-04	2.91E-04	1.70E-03	3.72E-03

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Screen Emissions Summary

Units: CB SCRN, CB SCRN ENG

Uncontrolled Emissions

Unit	Description	Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
CB SCRN (Uncontrolled)	Diesel Engine	6.50E-05	1.42E-04	3.33E-04	7.28E-04	1.04E-04	4.24E-04	1.94E-04	4.24E-04	3.25E-06	7.12E-06	9.20E-05	2.01E-04	4.55E-04	9.97E-04	2.30E-04	5.03E-04

ID	Description	Naphthalene		Toluene		Xylenes		Total HAPs		CO_2e	CO_2	N_2O	CH_4
		lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
Screening Plant - CAT C6.6 ACERT Tier 3 Diesel Engine	Diesel Engine	1.22E-04	2.67E-04	5.88E-04	1.29E-03	4.10E-04	8.98E-04	5.40E-03	1.18E-02	527.45	525.72	0.004	0.021

Controlled Emissions

Unit	Description	Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
		lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
CB SCRN (Controlled)	Diesel Engine	1.64E-05	3.60E-05	8.40E-05	1.84E-04	2.63E-05	1.07E-04	4.89E-05	1.07E-04	8.21E-07	1.80E-06	2.32E-05	5.09E-05	1.15E-04	2.52E-04	5.80E-05	1.27E-04

ID	Description	Naphthalene		Toluene		Xylenes		Total HAPs		CO_2e	CO_2	N_2O	CH_4
		lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr	tons/yr
Screening Plant - CAT C6.6 ACERT Tier 3 Diesel Engine	Diesel Engine	1.22E-04	2.67E-04	5.88E-04	1.29E-03	4.10E-04	8.98E-04	5.40E-03	1.18E-02	527.45	525.72	0.00	0.02

Freeport-McMoRan Chino Mines Company
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Chino Mine Screen Plant Material Handling Emissions

Cobre Mine Screening Plant Material Handling Emissions - Magnetite
CB SCRN

Basis			
Maximum Annual Throughput of Screened Material	1,971,000	tons	[Annual throughput based on projected Cobre Mine material shipments.]
Maximum Annual Throughput of Material Handling	1,971,000	tons	
Maximum Hourly Throughput of Material	450	tons	
Annual Operating Hours	4,380	hrs	**Note: screening plant will only operate during daylight hours.**
Annual Operating Days	365	days	For reference only, not used in calculations.

Cobre Mine Screening Plant Engine Emissions
Unit CB SCRN ENG

Basis		
Engine Size [(1)]:	175	HP
Fuel Usage:	10.5	gal/hr
Diesel heat value:	137,000	Btu/gallon
Annual Operating Hours[(1)]:	4,380	

Freeport-McMoRan Chino Mines Company
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Cobre Mine Screening Plant Material Handling Emissions - Magnetite

CB SCRN

Basis			
Maximum Annual Throughput of Screened Material	1,971,000	tons	[Annual throughput based on projected Cobre Mine material shipments.]
Maximum Annual Throughput of Material Handling	1,971,000	tons	
Maximum Hourly Throughput of Material	450	tons	
Annual Operating Hours	4,380	hrs	**Note: screening plant will only operate during daylight hours.**
Annual Operating Days	365	days	For reference only, not used in calculations.

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%)

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Magnetite	Operating Parameters[1]			Uncontrolled Emission Factors[2,3]			Uncontrolled Emissions[4]																	
	Annual Throughput	Hourly Throughput	Number of Transfer Points	$PM_{2.5}$ (lb/ton)	PM_{10} (lb/ton)	PM (lb/ton)	$PM_{2.5}$		PM_{10}		PM		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt	
	tons	tons					lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Screening	1,971,000	450	1	1.31E-03	8.70E-03	2.50E-02	0.59	1.29	3.92	8.57	11.25	24.64	3.60E-05	7.89E-05	3.97E-05	8.70E-05	2.27E-03	4.98E-03	1.18E-05	2.59E-05	7.54E-06	1.65E-05	3.78E-04	8.28E-04	3.54E-04	7.74E-04
Material Handling	1,971,000	450	4	9.86E-05	6.51E-04	1.38E-03	0.18	0.39	1.17	2.57	2.48	5.43	7.94E-06	1.74E-05	8.76E-06	1.92E-05	5.01E-04	1.10E-03	2.60E-06	5.70E-06	1.66E-06	3.64E-06	8.33E-05	1.82E-04	7.79E-05	1.71E-04
TOTAL							0.76	1.67	5.09	11.14	13.73	30.06	4.40E-05	9.63E-05	4.85E-05	1.06E-04	2.77E-03	6.07E-03	1.44E-05	3.16E-05	9.20E-06	2.01E-05	4.61E-04	1.01E-03	4.32E-04	9.45E-04

Magnetite	Operating Parameters[1]			Uncontrolled Emission Factors[2,3]			Uncontrolled Emissions[4]															
	Annual Throughput	Hourly Throughput	Number of Transfer Points	$PM_{2.5}$ (lb/ton)	PM_{10} (lb/ton)	PM (lb/ton)	Copper		Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
	tons	tons					lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Screening	1,971,000	450	1	1.31E-03	8.70E-03	2.50E-02	4.98E-02	1.09E-01	5.33E-05	1.17E-04	2.73E-04	5.97E-04	8.53E-05	3.47E-04	1.59E-04	3.47E-04	2.66E-06	5.83E-06	7.54E-05	1.65E-04	3.73E-04	8.17E-04	1.88E-04	4.12E-04
Material Handling	1,971,000	450	4	9.86E-05	6.51E-04	1.38E-03	1.10E-02	2.40E-02	1.17E-05	2.57E-05	6.00E-05	1.31E-04	1.88E-05	7.65E-05	3.49E-05	7.65E-05	5.87E-07	1.28E-06	1.66E-05	3.64E-05	8.22E-05	1.80E-04	4.15E-05	9.08E-05
TOTAL							6.07E-02	1.33E-01	6.50E-05	1.42E-04	3.33E-04	7.28E-04	1.04E-04	4.24E-04	1.94E-04	4.24E-04	3.25E-06	7.12E-06	9.20E-05	2.01E-04	4.55E-04	9.97E-04	2.30E-04	5.03E-04

Magnetite	Operating Parameters[1]			Controlled Emission Factors[2,3,5]			Controlled Emissions[4]																	
	Annual Throughput	Hourly Throughput	Number of Transfer Points	$PM_{2.5}$ (lb/ton)	PM_{10} (lb/ton)	PM (lb/ton)	$PM_{2.5}$		PM_{10}		PM		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt	
	tons	tons					lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Screening	1,971,000	450	1	5.00E-05	7.40E-04	2.20E-03	0.02	0.05	0.33	0.73	0.99	2.17	3.17E-06	6.94E-06	3.50E-06	7.66E-06	2.00E-04	4.38E-04	1.04E-06	2.28E-06	6.63E-07	1.45E-06	3.33E-05	7.29E-05	3.11E-05	6.81E-05
Material Handling	1,971,000	450	4	9.86E-05	6.51E-04	1.38E-03	0.18	0.39	1.17	2.57	2.48	5.43	7.94E-06	1.74E-05	8.76E-06	1.92E-05	5.01E-04	1.10E-03	2.60E-06	5.70E-06	1.66E-06	3.64E-06	8.33E-05	1.82E-04	7.79E-05	1.71E-04
TOTAL							0.20	0.438	1.51	3.30	3.47	7.60	1.11E-05	2.43E-05	1.23E-05	2.68E-05	7.01E-04	1.53E-03	3.64E-06	7.98E-06	2.32E-06	5.09E-06	1.17E-04	2.55E-04	1.09E-04	2.39E-04

Magnetite	Operating Parameters[1]			Controlled Emission Factors[2,3,5]			Controlled Emissions[4]															
	Annual Throughput	Hourly Throughput	Number of Transfer Points	$PM_{2.5}$ (lb/ton)	PM_{10} (lb/ton)	PM (lb/ton)	Copper		Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
	tons	tons					lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
Screening	Number of Transfer Points	1	1	5.00E-05	7.40E-04	2.20E-03	4.38E-03	9.59E-03	4.69E-06	1.03E-05	2.40E-05	5.25E-05	7.50E-06	3.06E-05	1.40E-05	3.06E-05	2.34E-07	5.13E-07	6.63E-06	1.45E-05	3.28E-05	7.19E-05	1.66E-05	3.63E-05
Material Handling	1,971,000	450	4	9.86E-05	6.51E-04	1.38E-03	1.10E-02	2.40E-02	1.17E-05	2.57E-05	6.00E-05	1.31E-04	1.88E-05	7.65E-05	3.49E-05	7.65E-05	5.87E-07	1.28E-06	1.66E-05	3.64E-05	8.22E-05	1.80E-04	4.15E-05	9.08E-05
TOTAL							1.53E-02	3.36E-02	1.64E-05	3.60E-05	8.40E-05	1.84E-04	2.63E-05	1.07E-04	4.89E-05	1.07E-04	8.21E-07	1.80E-06	2.32E-05	5.09E-05	1.15E-04	2.52E-04	5.80E-05	1.27E-04

Notes:

[1] Throughputs and equipment specifications taken from Southern Materials Group (SMG), Cobre Magnetite Dam Mine Plan, Magnetite Screening Operation and Dust

[2] Material handling uncontrolled emission factors based on USEPA AP-42 USEPA's Drop Equation in AP-42, Section 13.2.4. Drop equation is as follows:

$$E\left(\frac{lb}{ton}\right) = k \cdot 0.0032 \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

E = Emission Factor (lbs/ton)

k = Particle Size Multiplier, dimensionless ($PM_{2.5}$= 0.053, PM_{10}= 0.35, PM=0.74)

U = Mean Wind Speed = 6.95 mph (Bayard, NM)

M = Moisture Content = 4% (Based on actual magnetite data from average moisture content)

[3] PM, PM10, and controlled PM2.5 emission factors from AP-42, Chapter 11.19.2, Crushed Stone Processing and Pulverized Mineral Processing, Table 11.19.2-2, Screening; uncontrolled PM2.5 emission factor calculated from uncontrolled PM10 emission factor using the ratio of 0.15 PM2.5/PM10 as recommended in Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. Total Controlled Emissions include emissions from uncontrolled aggregate handling.

[4] Hourly emissions are based on maximum hourly rate in calculation tables. Annual emissions are based on maximum annual rate in calculation tables.

[5] Per footnote b of AP-42 Table 11.19.2-2, "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." The moisture content of the material handling is higher than the wet suppression systems (controlled) from the AP-42 study. Therefore, controlled emission factors are employed for screening.

Sample Calculations:

Screening Uncontrolled PM-2.5 Emissions = 1971000 tons/yr x 1 transfer points x 0.00131 lb of PM-2.5/ton of material screened = 1.29 tpy

Material Handling Uncontrolled PM-2.5 Emission Factor = 0.053 x 0.0032 x ((6.95 mph/5)^1.3)/(4/2)^1.4 = 0.0000986 lb/ton

Material Handling Uncontrolled PM-2.5 Emissions = 1971000tons/yr x 4 transfer points x 0.0000986 lb of PM-2.5/ton of material screened = 0.39 tpy

Freeport-McMoRan Chino Mines Company
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Cobre Mine Screening Plant Engine Emissions

Unit CB SCRN ENG

Basis		
Engine Size [1]:	175	HP
Fuel Usage:	10.5	gal/hr
Diesel heat value:	137,000	Btu/gallon
Annual Operating Hours[1]:	4,380	

ID	Description	Max fuel use, gal/hr	Diesel heat value, Btu/gal	Max heat input, MMBtu/hr	Annual operating hours	CO		NO_x		VOC		PM		PM_{10}		$PM_{2.5}$		SO_2	
						lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Screening Plant - CAT C6.6 ACERT Tier 3 Diesel Engine	Diesel Engine	10.5	137,000	1.44	4,380	1.02	2.22	1.16	2.53	0.50	1.10	0.45	0.98	0.45	0.98	0.45	0.98	0.42	0.91

Units	Emission Factors for Diesel Fuel Combustion[3,4]						
	CO	NO_x	VOC	PM	PM_{10}	$PM_{2.5}$	SO_2
lb/hp-hr	0.0058	0.0066	-	-	-	-	-
lb/MMBtu	-	-	0.35	0.31	0.31	0.31	0.29

FEDERAL HAP/NM TOXIC AIR POLLUTANT EMISSIONS ESTIMATION

Compound		Emission Factor (lb/MMBtu)[5]	Air Emissions	
Pollutant	Species		(lb/hr)	(tpy)
Hazardous Air Pollutants	Benzene	9.33E-04	1.34E-03	2.94E-03
	Acetaldehyde	7.67E-04	1.10E-03	2.42E-03
	Acrolein	9.25E-05	1.33E-04	2.91E-04
	Formaldehyde	1.18E-03	1.70E-03	3.72E-03
	Naphthalene	8.48E-05	1.22E-04	2.67E-04
	Toluene	4.09E-04	5.88E-04	1.29E-03
	Xylenes	2.85E-04	4.10E-04	8.98E-04
TOTAL			**5.40E-03**	**1.18E-02**

Notes:

[1] Engine horsepower and fuel usage based on CAT specification sheet for C6.6 ACERT industrial open power unit. Annual operating hours based on anticipated operation of screening plant.

[2] Fuel usage based on standard conversion factors, engine size, and diesel fuel density of 0.845-0.850 kg/L at 15°C and fuel inlet temperature of 40°C.

[3] CO and NOx emission factors were obtained from NSPS, Tier 3 emission standards for stationary compression ignition (CI) internal combustion engines (ICE) (40 CFR 60.4202- ref. 89.112, Table 1).

[4] VOC, $PM/PM_{10}/PM_{2.5}$, and SO_2 emission factors were obtained from uncontrolled diesel industrial engines present in Table 3.3-1, USEPA AP-42 Section 3.3 "Gasoline And Diesel Industrial Engines" (10/96).

[5] HAP/Air Toxics emission factors were obtained from Table 3.3-2 in USEPA AP-42 Section 3.3 "Gasoline And Diesel Industrial Engines" (10/96).

Sample Calculations:

CO emission rate, lb/hr = 0.0058 lb/hp-hr x 175 HP = 1.02 lb/hr
CO emission rate, tpy = 1.02 lb/hr x 4380 hours/yr x 1.0 ton/2,000 lbs = 2.22 tpy
VOC emission rate, lb/hr = 1.44 MMBtu/hr x 0.35 lb/MMBtu = 0.5 lb/hr
VOC emission rate, tpy = 0.5 lb/hr x 4380 hours/yr x 1.0 ton/2,000 lbs = 1.1 tpy
Toluene emission rate, lb/hr = 0.0004 lb/MMBtu x 1.44 MMBtu/hr = 0.0006 lb/hr
Toluene emission rate, TPY = 0.0004 lb/MMBtu x 1.44 MMBtu/hr x 1.0 ton/2,000 lbs x 8,760 hr/year = 0.001 TPY

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Cobre Mine Screening Plant Engine Emissions

Unit CB SCRN ENG

Cobre Mine, Screening Plant - Internal Combustion Engine Potential Greenhouse Gas (GHG) Emissions

	Basis	
Engine Size [1]:	175	hp
Specific fuel consumption [1]:	10.50	gal/hr
Max Heat Input:	1.45	MMBtu/hr
Operating Schedule:	4,380	hr/yr
Annual Heat Input:	6,346.6	MMBtu/yr

TAKEN FROM TABLE C–1 TO SUBPART C OF PART 98—DEFAULT CO_2 EMISSION FACTORS AND HIGH HEAT VALUES FOR VARIOUS TYPES OF FUEL
& TABLE C–2 TO SUBPART C OF PART 98—DEFAULT CH_4 AND N_2O EMISSION FACTORS FOR VARIOUS TYPES OF FUEL

Petroleum products	MMBtu/ gallon	kg CO_2/ MMBtu	kg CH_4/MMBtu	kg N_2O/MMBtu
Distillate Fuel Oil No. 2	0.138	73.96	3.00E-03	6.00E-04

ID	Description	Maximum Potential CO_2 Equivalent (CO_2e) Emissions[2]												TOTAL Maximum Potential GHG Emissions (short tons)	TOTAL CO_2e (short tons)
		CO_2				N_2O				CH_4					
		Maximum Potential GHG Emissions[1] (metric tons)	Global Warming Potential[3] (GWP) (kg CO2e/kg GHG)	metric tons CO_2e	short tons CO_2e	Maximum Potential GHG Emissions[1] (metric tons)	Global Warming Potential[3] (GWP) (kg CO2e/kg GHG)	metric tons CO_2e	short tons CO_2e	Maximum Potential GHG Emissions[1] (metric tons)	Global Warming Potential[3] (GWP) (kg CO2e/kg GHG)	metric tons CO_2e	short tons CO_2e		
Screening Plant - CAT C6.6 ACERT Tier 3 Diesel Engine	Diesel Engine	469.40	1.0	469.40	525.72	0.00381	265.0	1.0091	1.13	0.0190	28.0	0.53	0.60	**517.45**	**527.45**

Notes:

[1] CO_2, CH_4, or N_2O= *Fuel x HHV x EF x 0.001 (40 CFR Part 98, Subpart C, Eq. C-2a & C-9a- Tier 2 Calculation Methodology)*

Where:

CO_2 = Annual CO_2 mass emissions for a specific fuel type (metric tons).
CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of a particular type of fuel (metric tons).
Fuel = Mass or volume of the fuel combusted during the year, per § 98.6.
HHV = Annual average high heat value of the fuel from all valid samples for the year (MMBtu per mass or volume).
EF = Fuel-specific default CO_2 emission factor, from Table C–1 of 40 CFR Part 98, Subpart C (kg CO_2/MMBtu).
Fuel-specific default emission factor for CH_4 or N_2O, from Table C–2 of 40 CFR Part 98, Subpart C (kg CH_4 or N_2O per MMBtu).
0.001 = Conversion factor from kg to metric tons

[2] CO_2e = GHG x GWP

[3] GWP values from 40 CFR Part 98, Subpart A, Table A-1.

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SXEW

Units: SXEW 10 MST, SXEW Boiler No.1, SXEW Boiler No.2, SXEW Boiler No.3, SXEW RT, & SXEW SAT

Name	Total Uncontrolled Emissions															
	NO_x		CO		VOC		SO_2		PM		PM_{10}		$PM_{2.5}$		HAPS	
	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr
SXEW 8MST	-	-	-	-	1.44	0.33	-	-	-	-	-	-	-	-	1.43	0.33
SXEW Boiler No. 1	0.78	0.18	0.45	0.10	6.01E-02	1.37E-02	3.18E-02	7.27E-03	0.042	9.60E-03	4.21E-02	9.60E-03	4.21E-02	9.60E-03	-	-
SXEW Boiler No. 2	0.78	0.18	0.45	0.10	6.01E-02	1.37E-02	3.18E-02	7.27E-03	0.042	9.60E-03	4.21E-02	9.60E-03	4.21E-02	9.60E-03	-	-
SXEW Boiler No. 3	0.87	0.20	0.50	0.11	6.70E-02	1.53E-02	3.55E-02	8.11E-03	0.047	1.07E-02	4.69E-02	1.07E-02	4.69E-02	1.07E-02	-	-
SXEW RT	-	-	-	-	0.144	0.033	-	-	-	-	-	-	-	-	0.143	0.033
SXEW SAT	-	-	-	-	-	-	-	-	-	-	10.00	2.28	-	-	-	-

Name	Total Controlled Emissions															
	NO_x		CO		VOC		SO_2		PM		PM_{10}		$PM_{2.5}$		HAPS	
	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr
SXEW 8MST	-	-	-	-	1.44	0.33	-	-	-	-	-	-	-	-	1.43	0.33
SXEW Boiler No. 1	0.78	0.18	0.45	0.10	6.01E-02	1.37E-02	3.18E-02	7.27E-03	4.21E-02	9.60E-03	4.21E-02	9.60E-03	4.21E-02	9.60E-03	-	-
SXEW Boiler No. 2	0.78	0.18	0.45	0.10	6.01E-02	1.37E-02	3.18E-02	7.27E-03	4.21E-02	9.60E-03	4.21E-02	9.60E-03	4.21E-02	9.60E-03	-	-
SXEW Boiler No. 3	0.87	0.20	0.50	0.11	6.70E-02	1.53E-02	3.55E-02	8.11E-03	4.69E-02	1.07E-02	4.69E-02	1.07E-02	4.69E-02	1.07E-02	-	-
SXEW RT	-	-	-	-	0.144	0.033	-	-	-	-	-	-	-	-	0.143	0.033
SXEW SAT	-	-	-	-	-	-	-	-	-	-	10.00	2.28	-	-	-	-

Freeport-McMoRan Chino Mines Company
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SXEW

Units: SXEW 10 MST, SXEW Boiler No.1, SXEW Boiler No.2, SXEW Boiler No.3, SXEW RT, & SXEW SAT

Total Uncontrolled Emissions														GHG Emissions			
Benzene		Ethylbenzene		Toluene		Xylene		1,2,4 - trimethylbenzene		1,3,5 - trimethylbenzene		Sulfuric Acid		CO_2e	CO_2	N_2O	CH_4
tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr
1.86E-01	4.24E-02	2.16E-01	4.93E-02	1.32E+00	3.01E-01	2.24E-01	5.10E-02	3.42E-03	7.81E-04	2.34E-02	5.35E-03	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	778.47	775.48	7.39E-03	3.69E-02
-	-	-	-	-	-	-	-	-	-	-	-	-	-	778.47	775.48	7.39E-03	3.69E-02
-	-	-	-	-	-	-	-	-	-	-	-	-	-	868.41	865.07	8.24E-03	4.12E-02
1.86E-02	4.24E-03	2.17E-02	4.96E-03	1.31E-01	2.99E-02	8.11E-02	1.85E-02	4.41E-04	1.01E-04	2.83E-03	6.45E-04	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	10.00	2.28	-	-	-	-

Total Controlled Emissions														GHG Emissions			
Benzene		Ethylbenzene		Toluene		Xylene		1,2,4 - trimethylbenzene		1,3,5 - trimethylbenzene		Sulfuric Acid		CO_2e	CO_2	N_2O	CH_4
tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	tons/yr	tons/yr	tons/yr
1.86E-01	4.24E-02	2.16E-01	4.93E-02	1.32E+00	3.01E-01	2.24E-01	5.10E-02	3.42E-03	7.81E-04	2.34E-02	5.35E-03	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	778.4683	775.4763	7.39E-03	3.69E-02
-	-	-	-	-	-	-	-	-	-	-	-	-	-	778.4683	775.4763	7.39E-03	3.69E-02
-	-	-	-	-	-	-	-	-	-	-	-	-	-	868.4109	865.0731	8.24E-03	4.12E-02
1.86E-02	4.24E-03	2.17E-02	4.96E-03	1.31E-01	2.99E-02	8.11E-02	1.85E-02	4.41E-04	1.01E-04	2.83E-03	6.45E-04	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	10.00	2.28	-	-	-	-

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SX/EW - Propane-fired Boiler Emissions

Units SXEW Boiler No. 1, SXEW Boiler No. 2, SXEW Boiler No. 3

	Basis	
Boiler No.1 Max Rating	1.255	MMBtu/hr
Boiler No.2 Max Rating	1.255	MMBtu/hr
Boiler No.3 Max Rating	1.4	MMBtu/hr
LPG Heating Value	91,500	Btu/gallon
Fuel Sulfur content, S	5.3	gr/100 ft^3
Annual Operating Hours	8,760	

ID	Description	Max fuel use, gal/hr[1]	Max heat input,	Annual operating	NO_x		CO		VOC		SO_2		PM		PM_{10}		$PM_{2.5}$	
					lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
SXEW Boiler No.1	SX/EW Water Heater East	13.72	1.255	8,760	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	3.18E-02	0.010	0.042	0.010	0.042	0.010	0.042
SXEW Boiler No.2	SX/EW Water Heater	13.72	1.255	8,760	0.18	0.78	0.10	0.45	0.014	0.060	7.27E-03	3.18E-02	0.010	0.042	0.010	0.042	0.010	0.042
SXEW Boiler No.3	SX/EW Water Heater West	15.30	1.40	8,760	0.20	0.87	0.11	0.50	0.015	0.067	8.11E-03	3.55E-02	0.011	0.047	0.011	0.047	0.011	0.047
TOTAL					**0.56**	**2.43**	**0.320**	**1.40**	**0.043**	**0.187**	**0.0226**	**0.0992**	**0.0299**	**0.131**	**0.0299**	**0.131**	**0.0299**	**0.131**

Units	AP-42 Emission Factors for LPG Combustion[2]						
	CO	NO_x	VOC	PM	PM_{10}	$PM_{2.5}$	SO_2
lb/10^3gal	7.5	13	1.0	0.7	0.7	0.7	0.530

FEDERAL HAP/NM TOXIC AIR POLLUTANT EMISSIONS ESTIMATION[3]

Notes:

[1] Propane fuel usage, gal/hr, is calculated from heat input (MMBtu/hr) given a natural gas heating value, 91.5 MMBtu/10^3gal.

[2] Based on emission factors for commercial boilers presented in USEPA AP-42 Section 1.5 "Liquefied Petroleum Gas Combustion" (7/08), Table 1.5-1. SO_2 emission factor = 0.10S where S = grains Sulfur/100 ft^3 gas vapor.

[2]Filterable particulate matter (PM) is that PM collected on or prior to the filter of an EPA Method 5 (or equivalent) sampling train. For natural gas, a fuel with similar combustion characteristics, all PM is less than 10µm in aerodynamic

[3] No HAP/TAP emission factors available in USEPA AP-42 Section 1.5 "Liquefied Petroleum Gas Combustion" (7/08).

[4] 2.6 grams SO_2/GJ LPG x 32.064 grams S/64.06 grams SO_2 x 15.43 grains/gram x 1.055 GJ/MMBtu x 0.002516 MMBtu/ft^3 x 100 = 5.3 grains/100ft^3

[4] average national sulfur content of LPG is 0.012% by mass (approximately 2.6 g of SO_2/GJ of heat input) per Appendix K-2 of undated document at US Department of Energy website:
http://www1.eere.energy.gov/buildings/appliance_standards/residential/pdfs/k-2.pdf

Sample Calculations:

CO, lb/hr = 7.5 lb/1,000 gal x 13.72 gal/hr = 0.103 lb/hr
CO, TPY = 0.1029 lb/hr x 8760 hr/yr x 1.0 ton/2,000 lbs = 0.451 TPY

Freeport-McMoRan Chino Mines Company
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SX/EW - Propane-fired Boiler Emissions

Units SXEW Boiler No. 1, SXEW Boiler No. 2, SXEW Boiler No. 3

SX/EW - Propane-fired Boiler Potential Greenhouse Gas (GHG) Emissions

Basis		
Boiler No.1 Max Rating	1.255	MMBtu/hr
Boiler No.2 Max Rating	1.255	MMBtu/hr
Boiler No.3 Max Rating	1.4	MMBtu/hr
Operating Schedule per Boiler:	8,760	hr/yr
Annual Fuel Usage Boiler 1	10,994	MMBtu/yr
Annual Fuel Usage Boiler 2	10,994	MMBtu/yr
Annual Fuel Usage Boiler 3	12,264	MMBtu/yr

TAKEN FROM TABLE C–1 TO SUBPART C OF PART 98—DEFAULT CO_2 EMISSION FACTORS AND HIGH HEAT VALUES FOR VARIOUS TYPES OF FUEL
& TABLE C–2 TO SUBPART C OF PART 98—DEFAULT CH_4 AND N_2O EMISSION FACTORS FOR VARIOUS TYPES OF FUEL

Petroleum products	MMBtu/gallon	kg CO_2/MMBtu	kg CH_4/MMBtu	kg N_2O/ MMBtu
Liquefied petroleum gases (LPG)	0.092	62.98	3.00E-03	6.00E-04

ID	Description	Maximum Potential CO_2 Equivalent (CO2e) Emissions[2]												TOTAL Maximum Potential GHG Emissions (short tons)	TOTAL CO_2e (short tons)
		CO_2				N_2O				CH_4					
		Maximum Potential GHG Emissions[1] (metric tons)	Global Warming Potential[3] (GWP) (kg CO2e/kg GHG)	metric tons CO_2e	short tons CO_2e	Maximum Potential GHG Emissions[1] (metric tons)	Global Warming Potential[3] (GWP) (kg CO2e/kg GHG)	metric tons CO_2e	short tons CO_2e	Maximum Potential GHG Emissions[1] (metric tons)	Global Warming Potential[3] (GWP) (kg CO2e/kg GHG)	metric tons CO_2e	short tons CO_2e		
Boiler No.1	SX/EW Water Heater East	692.4	1.0	692.4	775.5	0.0066	265.0	1.75	2.0	0.033	28.0	0.923	1.0	**763.3**	**778.5**
Boiler No.2	SX/EW Water Heater West	692.4	1.0	692.4	775.5	0.0066	265.0	1.75	2.0	0.033	28.0	0.923	1.0	**763.3**	**778.5**
Boiler No.3	SX/EW Water Heater	772.4	1.0	772.4	865.1	0.0074	265.0	1.95	2.2	0.037	28.0	1.030	1.2	**851.5**	**868.4**
TOTAL		**2,157.2**		**2,157.2**	**2,416.0**	**0.021**		**5.45**	**6.10**	**0.103**		**2.88**	**3.22**	**2,378**	**2,425**

Notes:

(1) CO_2, CH_4, or N_2O= *Fuel x HHV x EF x 0.001 (40 CFR Part 98, Subpart C, Eq. C-2a & C-9a- Tier 2 Calculation Methodology)*

Where:

CO_2 = Annual CO_2 mass emissions for a specific fuel type (metric tons).

CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of a particular type of fuel (metric tons).

Fuel = Mass or volume of the fuel combusted during the year, per § 98.6.

HHV = Annual average high heat value of the fuel from all valid samples for the year (MMBtu per mass or volume).

EF = Fuel-specific default CO_2 emission factor, from Table C–1 of 40 CFR Part 98, Subpart C (kg CO_2/MMBtu).

Fuel-specific default emission factor for CH_4 or N_2O, from Table C–2 of 40 CFR Part 98, Subpart C (kg CH_4 or N_2O per MMBtu).

0.001 = Conversion factor from kg to metric tons

(2) CO_2e = GHG x GWP

(3) GWP values from 40 CFR Part 98, Subpart A, Table A-1.

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SX/EW -Chemical Summary

Please note that the information provided in the table below is considered CONFIDENTIAL BUSINESS INFORMATION by the chemical suppliers that provided the information.

Chemical Concentration [ppm]								
Reagent Name	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylene**	**1,2,4 - TMB**	**1,3,5 - TMB**	**Total HAPs**	**Other VOCs**
Extractants								
ACORGA M5910	3.35	7.25	3.40	8.60	6.35	3.35		13.90
ACORGA M5640	5.00	17.90	23.30	34.80				
ACORGA OR25	3.35	7.25	3.40	8.60	6.35	3.35		
COGNIS LIX 684N-LV							43.5	60.0
Diluents								
Penreco 170ES	25.0	25.0	25.0	25.0				
Escaid 110		169.0					10.0	
Escaid 115							10.0	
ORFOM SX-80	5.00	5.0	5.0	5.0	0.0	0.0	0.0	0.00

Data for ACORGA extractants provided by Cytec.
Data for Penreco 170ES provided by Calumet Specialty Products.
Data for SX-80 provided by Chevron Phillips.
Data for Escaid provided by ExonnMobil.
Data for LIX provided by Cognis.
Blank cells indicate that data for this chemical was not available from the chemical supplier.
1,2,4 - TMB = 1,2,4-trimethylbenzene
1,3,5 - TMB = 1,3,5-trimethylbenzene
Other VOCs represented by octane, heptane, hexane, and pentane.

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SX/EW - Plant Mixer/ Settler Tank Emissions
Unit: SXEW 8MST

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

MAXIMUM SX/EW Plant Mixer/Settler Tank Emissions - Penreco 170ES and ACORGA M5640

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

number of tanks	6	area of each tank	6,150	ft^2	total area	36,900	ft^2
number of tanks	2	area of each tank	6,525	ft^2	total area	13,050	ft^2

Chemical Product	Percent
Penreco 170ES	92%
ACORGA M5640	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	23.5	7.48E-02	0.0018	5.73E-06	1.14E-06	3.69E-06	0.184	0.042
Toluene	0.0833	92.13	24.5	9.19E-02	0.067	2.51E-04	1.25E-06	4.04E-06	0.202	0.046
Ethylbenzene	0.0760	106.16	24.9	1.08E-01	0.057	2.46E-04	1.34E-06	4.32E-06	0.216	0.049
Total Xylene	0.0760	106.16	25.7	1.11E-01	0.037	1.61E-04	1.39E-06	4.48E-06	0.224	0.051
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.000	0.000
1,3,5 - trimethylbenzene	0.066	120.2	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.000	0.000
Other VOCs (non-HAPs)	0.066	112.1	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.000	0.000
Total HAPs									**0.83**	**0.19**
Total VOCs									**0.83**	**0.19**

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).

Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm							Notes
	Benzene	Toluene	Ethyl-benzene	Xylene	1,2,4 - tmb	1,3,5 - tmb	Other	
Penreco 170ES	25.00	25.00	25.00	25.00	0.00	0.00	0.00	confidential information supplied by Calumet Specialty Products
ACORGA M5640	5.00	17.90	23.30	34.80	0.00	0.00	0.00	confidential information supplied by Cytec
Organic in ppm	23.48	24.46	24.87	25.74	0.00	0.00	0.00	composite concentration, Ci

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SX/EW - Plant Mixer/ Settler Tank Emissions
Unit: SXEW 8MST

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant Mixer/Settler Tank Emissions - Penreco 170ES and ACORGA M5910

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

Emissions from the use of ACORGA M5910 also represent emissions from the use of ACORGA OR25 since the chemical constituents are the same.

number of tanks	6	area of each tank	6,150	ft^2	total area	36,900	ft^2
number of tanks	2	area of each tank	6,525	ft^2	total area	13,050	ft^2

Chemical Product	Percent
Penreco 170ES	94%
ACORGA M5910	6%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	23.6	7.52E-02	0.0018	5.73E-06	1.15E-06	3.72E-06	0.19	0.04
Toluene	0.0833	92.13	23.9	8.97E-02	0.067	2.51E-04	1.22E-06	3.94E-06	0.20	0.04
Ethylbenzene	0.0760	106.16	23.6	1.02E-01	0.057	2.46E-04	1.27E-06	4.10E-06	0.21	0.05
Total Xylene	0.0760	106.16	24.0	1.04E-01	0.037	1.61E-04	1.29E-06	4.17E-06	0.21	0.05
1,2,4 - trimethylbenzene	0.066	120.2	0.40	0.002	0.00	0.00E+00	2.12E-08	6.85E-08	3.42E-03	7.81E-04
1,3,5 - trimethylbenzene	0.066	120.2	0.21	0.001	0.000	0.00E+00	1.12E-08	3.61E-08	1.80E-03	4.12E-04
Other VOCs (non-HAPs)	0.066	112.1	0.88	0.004	0.000	0.00E+00	4.33E-08	1.40E-07	6.98E-03	1.59E-03
Total HAPs									0.80	0.18
Total VOCs									0.81	0.18

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm							Notes
	Benzene	Toluene	Ethyl-benzene	Xylene	1,2,4 - tmb	1,3,5 - tmb	Other	
Penreco 170ES	25.00	25.00	25.00	25.00	0.00	0.00	0.00	confidential information supplied by Calumet Specialty Products
ACORGA M5910	3.35	7.25	3.40	8.60	6.35	3.35	13.90	confidential information supplied by Cytec
Organic in ppm	23.63	23.87	23.63	23.96	0.40	0.21	0.88	composite concentration, Ci

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SX/EW - Plant Mixer/ Settler Tank Emissions
Unit: SXEW 8MST

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant Mixer/Settler Tank Emissions - Penreco 170ES and COGNIS LIX 684N-LV

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

number of tanks	6	area of each tank	6,150	ft^2	total area	36,900	ft^2
number of tanks	2	area of each tank	6,525	ft^2	total area	13,050	ft^2

Chemical Product	Percent
Penreco 170ES	92%
COGNIS LIX 684N-LV	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	23.1	7.35E-02	0.0018	5.73E-06	1.12E-06	3.63E-06	0.181	0.041
Toluene	0.0833	92.13	23.1	8.67E-02	0.067	2.51E-04	1.18E-06	3.81E-06	0.191	0.044
Ethylbenzene	0.0760	106.16	23.1	1.00E-01	0.057	2.46E-04	1.24E-06	4.01E-06	0.200	0.046
Total Xylene	0.0760	106.16	23.1	1.00E-01	0.037	1.61E-04	1.24E-06	4.02E-06	0.201	0.046
Total HAPs[(1)]	0.082	103.94	3.31	0.014	0.60	2.54E-03	1.54E-07	4.99E-07	0.007	0.001
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5 - trimethylbenzene	0.066	120.2	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Other VOCs (non-HAPs)	0.066	112.1	4.56	0.021	0.000	0.00E+00	2.24E-07	7.23E-07	3.61E-02	8.25E-03
Total HAPs									0.78	0.18
Total VOCs									0.82	0.19

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
Penreco 170ES	25.00	25.00	25.00	25.00	0.00	0.00	0.00	0.00	confidential information supplied by Calumet Specialty Products
COGNIS LIX 684N-LV	0.00	0.00	0.00	0.00	43.50	0.00	0.00	60.00	confidential information supplied by Cytec
Organic in ppm	23.10	23.10	23.10	23.10	3.31	0.00	0.00	4.56	composite concentration, Ci

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SX/EW - Plant Mixer/ Settler Tank Emissions
Unit: SXEW 8MST

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant Mixer/Settler Tank Emissions - Escaid 110 and ACORGA M5910

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

Emissions from the use of Escaid 110 also represent emissions from the use of Escaid 115 since the chemical constituents are the same.
Emissions from the use of ACORGA M5910 also represent emissions from the use of ACORGA OR25 since the chemical constituents are the same.

number of tanks	6	area of each tank	6,150	ft^2	total area	36,900	ft^2
number of tanks	2	area of each tank	6,525	ft^2	total area	13,050	ft^2

Chemical Product	Percent
Escaid 110	94%
ACORGA M5910	6%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	0.21	6.76E-04	0.0018	5.73E-06	1.03E-08	3.31E-08	1.65E-03	3.78E-04
Toluene	0.0833	92.13	158.75	5.96E-01	0.067	2.51E-04	8.14E-06	2.63E-05	1.31E+00	3.00E-01
Ethylbenzene	0.0760	106.16	0.22	9.33E-04	0.057	2.46E-04	8.56E-09	2.76E-08	1.38E-03	3.15E-04
Total Xylene	0.0760	106.16	0.55	2.36E-03	0.037	1.61E-04	2.74E-08	8.85E-08	4.42E-03	1.01E-03
Total HAPs(1)	0.082	103.94	9.37	0.040	0.60	2.54E-03	5.00E-07	1.62E-06	8.07E-02	1.84E-02
1,2,4 - trimethylbenzene	0.066	120.19	0.40	0.002	0.00	0.00E+00	2.12E-08	6.85E-08	3.42E-03	7.81E-04
1,3,5 - trimethylbenzene	0.066	120.19	0.21	0.001	0.000	0.00E+00	1.12E-08	3.61E-08	1.80E-03	4.12E-04
Other VOCs (non-HAPs)	0.066	112.06	0.88	0.004	0.000	0.00E+00	4.33E-08	1.40E-07	6.98E-03	1.59E-03
Total HAPs									1.401	0.320
Total VOCs									1.413	0.323

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
Escaid 110	0.00	169.00	0.00	0.00	10.00	0.00	0.00	0.00	confidential information supplied by ExxonMobil
ACORGA M5910	3.35	7.25	3.40	8.60	0.00	6.35	3.35	13.90	confidential information supplied by Cytec
Organic in ppm	0.21	158.75	0.22	0.55	9.37	0.40	0.21	0.88	composite concentration, Ci

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SX/EW - Plant Mixer/ Settler Tank Emissions
Unit: SXEW 8MST

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant Mixer/Settler Tank Emissions - Escaid 110 and Cognis LIX 684N-LV

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

Emissions from the use of Escaid 110 also represent emissions from the use of Escaid 115 since the chemical constituents are the same.

number of tanks	6	area of each tank	6,150	ft^2	total area	36,900	ft^2
number of tanks	2	area of each tank	6,525	ft^2	total area	13,050	ft^2

Chemical Product	Percent
Escaid 110	94%
COGNIS LIX 684N-LV	6%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	0.00	0.00E+00	0.0018	5.73E-06	-8.77E-11	-2.83E-10	-1.41E-05	-3.23E-06
Toluene	0.0833	92.13	158.29	5.94E-01	0.067	2.51E-04	8.11E-06	2.62E-05	1.31E+00	2.99E-01
Ethylbenzene	0.0760	106.16	0.00	0.00E+00	0.057	2.46E-04	-3.06E-09	-9.89E-09	-4.94E-04	-1.13E-04
Total Xylene	0.0760	106.16	0.00	0.00E+00	0.037	1.61E-04	-2.00E-09	-6.46E-09	-3.23E-04	-7.37E-05
Total HAPs[(1)]	0.082	103.9	9.37	0.040	0.60	2.54E-03	5.00E-07	1.62E-06	8.07E-02	1.84E-02
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5 - trimethylbenzene	0.066	120.2	2.76	0.014	0.000	0.00E+00	1.45E-07	4.69E-07	2.34E-02	5.35E-03
Other VOCs (non-HAPs)	0.066	112.1	3.80	0.017	0.000	0.00E+00	1.87E-07	6.03E-07	3.01E-02	6.88E-03
Total HAPs									1.389	0.317
Total VOCs									1.442	0.329

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
Escaid 110	0.00	169.00	0.00	0.00	10.00	0.00	0.00	0.00	confidential information supplied by ExxonMobil
COGNIS LIX 684N-LV	0.00	0.00	0.00	0.00	0.00	0.00	43.50	60.00	confidential information supplied by Cytec
Organic in ppm	0.00	158.29	0.00	0.00	9.37	0.00	2.76	3.80	composite concentration, Ci

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SX/EW - Plant Mixer/ Settler Tank Emissions
Unit: SXEW 8MST

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant Mixer/Settler Tank Emissions - Escaid 110 and ACORGA M5640

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

Emissions from the use of Escaid 110 also represent emissions from the use of Escaid 115 since the chemical constituents are the same.

number of tanks	6	area of each tank	6,150	ft^2	total area	36,900	ft^2
number of tanks	2	area of each tank	6,525	ft^2	total area	13,050	ft^2

Chemical Product	Percent
Escaid 110	94%
ACORGA M5640	6%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	0.32	1.01E-03	0.0018	5.73E-06	1.53E-08	4.96E-08	2.48E-03	5.65E-04
Toluene	0.0833	92.13	159.42	5.99E-01	0.067	2.51E-04	8.17E-06	2.64E-05	1.32E+00	3.01E-01
Ethylbenzene	0.0760	106.16	1.48	6.39E-03	0.057	2.46E-04	7.66E-08	2.47E-07	1.24E-02	2.82E-03
Total Xylene	0.0760	106.16	2.21	9.55E-03	0.037	1.61E-04	1.17E-07	3.78E-07	1.89E-02	4.31E-03
Total HAPs[(1)]	0.082	103.9	9.37	0.040	0.600	2.54E-03	5.00E-07	1.62E-06	8.07E-02	1.84E-02
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5 - trimethylbenzene	0.066	120.2	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Other VOCs (non-HAPs)	0.066	112.1	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total HAPs									1.433	0.327
Total VOCs									1.433	0.327

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
Escaid 110	0.00	169.00	0.00	0.00	10.00	0.00	0.00	0.00	confidential information supplied by ExxonMobil
ACORGA M5640	5.00	17.90	23.30	34.80	0.00	0.00	0.00	0.00	confidential information supplied by Cytec
Organic in ppm	0.32	159.42	1.48	2.21	9.37	0.00	0.00	0.00	composite concentration, Ci

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SX/EW - Plant Mixer/ Settler Tank Emissions
Unit: SXEW 8MST

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant Mixer/Settler Tank Emissions - ORFOM SX-80 and ACORGA M5910

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

Emissions from the use of ACORGA M5910 also represent emissions from the use of ACORGA OR25 since the chemical constituents are the same.

number of tanks	6	area of each tank	6,150	ft^2	total area	36,900	ft^2
number of tanks	2	area of each tank	6,525	ft^2	total area	13,050	ft^2

Chemical Product	Percent
ORFOM SX-80	94%
ACORGA M5910	6%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	4.90	1.56E-02	0.0018	5.73E-06	2.38E-07	7.70E-07	0.04	0.01
Toluene	0.0833	92.13	5.14	1.93E-02	0.067	2.51E-04	2.60E-07	8.41E-07	0.04	0.01
Ethylbenzene	0.0760	106.16	4.90	2.12E-02	0.057	2.46E-04	2.61E-07	8.43E-07	0.04	0.01
Total Xylene	0.0760	106.16	5.23	2.26E-02	0.037	1.61E-04	2.80E-07	9.04E-07	0.05	0.01
Total HAPs(1)	0.082	103.94	0.00	0.000	0.60	0.00E+00	0.00E+00	0.00E+00	0.00	0.00
1,2,4 - trimethylbenzene	0.066	120.19	0.40	0.002	0.00	0.00E+00	2.12E-08	6.85E-08	0.00	0.00
1,3,5 - trimethylbenzene	0.066	120.19	0.21	0.001	0.000	0.00E+00	1.12E-08	3.61E-08	0.00	0.00
Other VOCs (non-HAPs)	0.066	112.06	0.88	0.004	0.000	0.00E+00	4.33E-08	1.40E-07	0.01	0.00
Total HAPs									0.168	0.038
Total VOCs									0.180	0.041

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
ORFOM SX-80	5.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	confidential information supplied by Chevron Phillips
ACORGA M5910	3.35	7.25	3.40	8.60	0.00	6.35	3.35	13.90	confidential information supplied by Cytec
Organic in ppm	4.90	5.14	4.90	5.23	0.00	0.40	0.21	0.88	composite concentration, Ci

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SX/EW - Plant Mixer/ Settler Tank Emissions
Unit: SXEW 8MST

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant Mixer/Settler Tank Emissions - ORFOM SX-80 and Cognis LIX 684N-LV

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

number of tanks	6	area of each tank	6,150	ft^2	total area	36,900	ft^2
number of tanks	2	area of each tank	6,525	ft^2	total area	13,050	ft^2

Chemical Product	Percent
ORFOM SX-80	92%
COGNIS LIX 684N-LV	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	4.62	1.47E-02	0.0018	5.73E-06	2.25E-07	7.26E-07	0.04	0.01
Toluene	0.0833	92.13	4.62	1.73E-02	0.067	2.51E-04	2.33E-07	7.54E-07	0.04	0.01
Ethylbenzene	0.0760	106.16	4.62	2.00E-02	0.057	2.46E-04	2.46E-07	7.95E-07	0.04	0.01
Total Xylene	0.0760	106.16	4.62	2.00E-02	0.037	1.61E-04	2.47E-07	7.98E-07	0.04	0.01
Total HAPs[(1)]	0.082	103.9	3.31	0.014	0.60	2.54E-03	1.54E-07	4.99E-07	0.02	0.01
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.00	0.00
1,3,5 - trimethylbenzene	0.066	120.2	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00	0.00
Other VOCs (non-HAPs)	0.066	112.1	4.56	0.021	0.000	0.00E+00	2.24E-07	7.23E-07	0.04	0.01
Total HAPs									0.18	0.04
Total VOCs									0.21	0.05

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
ORFOM SX-80	5.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	confidential information supplied by Chevron Phillips
COGNIS LIX 684N-LV	0.00	0.00	0.00	0.00	43.50	0.00	0.00	60.00	confidential information supplied by Cytec
Organic in ppm	4.62	4.62	4.62	4.62	3.31	0.00	0.00	4.56	composite concentration, Ci

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SX/EW - Plant Mixer/ Settler Tank Emissions
Unit: SXEW 8MST

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant Mixer/Settler Tank Emissions - ORFOM SX-80 and ACORGA M5640

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

number of tanks	6	area of each tank	6,150	ft^2	total area	36,900	ft^2
number of tanks	2	area of each tank	6,525	ft^2	total area	13,050	ft^2

Chemical Product	Percent
ORFOM SX-80	92%
ACORGA M5640	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	5.00	1.59E-02	0.0018	5.73E-06	2.43E-07	7.86E-07	0.04	0.01
Toluene	0.0833	92.13	5.98	2.25E-02	0.067	2.51E-04	3.03E-07	9.79E-07	0.05	0.01
Ethylbenzene	0.0760	106.16	6.39	2.77E-02	0.057	2.46E-04	3.41E-07	1.10E-06	0.06	0.01
Total Xylene	0.0760	106.16	7.26	3.14E-02	0.037	1.61E-04	3.90E-07	1.26E-06	0.06	0.01
Total HAPs(1)	0.082	103.9	0.00	0.000	0.600	0.00E+00	0.00E+00	0.00E+00	0.00	0.00
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.00	0.00
1,3,5 - trimethylbenzene	0.066	120.2	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00	0.00
Other VOCs (non-HAPs)	0.066	112.1	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00	0.00
Total HAPs									0.206	0.047
Total VOCs									0.206	0.047

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
ORFOM SX-80	5.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	confidential information supplied by Chevron Phillips
ACORGA M5640	5.00	17.90	23.30	34.80	0.00	0.00	0.00	0.00	confidential information supplied by Cytec
Organic in ppm	5.00	5.98	6.39	7.26	0.00	0.00	0.00	0.00	composite concentration, Ci

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SXEW - Raffinate Tank Emissions

Units: SXEW RT

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

MAXIMUM SX/EW Plant 900,000 Gallon Raffinate Tank Emissions - Penreco 170ES and ACORGA M5640

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Appendix F, References.

number of tanks	1	area of each tank	5,024 ft^2	total area	5,024 ft^2

Chemical Product	Percent
Penreco 170ES	92%
ACORGA M5640	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	23.48	0.0748	0.0018	5.73E-06	1.14E-06	3.69E-06	1.86E-02	4.24E-03
Toluene	0.0833	92.14	24.46	0.092	0.067	2.51E-04	1.25E-06	4.04E-06	2.03E-02	4.63E-03
Ethylbenzene	0.0760	106.17	24.87	0.108	0.057	2.46E-04	1.34E-06	4.32E-06	2.17E-02	4.96E-03
Total Xylene	0.0760	106.16	25.74	0.111	0.037	1.61E-04	1.39E-06	4.48E-06	2.25E-02	5.13E-03
1,2,4 - trimethylbenzene	0.070	120.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5 - trimethylbenzene	0.070	120.2	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
Other VOCs (non-HAPs)	0.066	112.1	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
								Total HAPs	**0.083**	**0.019**
								Total VOCs	**0.083**	**0.019**

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	1,2,4 - TMB	1,3,5 - TMB	Total HAPs	Other VOCs	
Penreco 170ES	25.00	25.00	25.00	25.00	0.00	0.00	0.00	0.00	confidential information supplied by Calumet Specialty Products
ACORGA M5640	5.00	17.90	23.30	34.80	0.00	0.00	0.00	0.00	confidential information supplied by Cytec
Organic in ppm	23.48	24.46	24.87	25.74	0.00	0.00	0.00	0.00	composite concentration, Ci

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SXEW - Raffinate Tank Emissions

Units: SXEW RT

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant 900,000 Gallon Raffinate Tank Emissions - Penreco 170ES and ACORGA M5910

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Appendix F, References.

Emissions from the use of ACORGA M5910 also represent emissions from the use of ACORGA OR25 since the chemical constituents are the same.

number of tanks	1	area of each tank	5,024 ft^2	total area	5,024 ft^2

Chemical Product	Percent
Penreco 170ES	92%
ACORGA M5910	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	23.35	0.0744	0.0018	5.73E-06	1.14E-06	3.67E-06	1.85E-02	4.21E-03
Toluene	0.0833	92.14	23.65	0.089	0.067	2.51E-04	1.21E-06	3.91E-06	1.96E-02	4.48E-03
Ethylbenzene	0.0760	106.17	23.36	0.101	0.057	2.46E-04	1.26E-06	4.06E-06	2.04E-02	4.65E-03
Total Xylene	0.0760	106.16	23.75	0.103	0.037	1.61E-04	1.28E-06	4.13E-06	2.07E-02	4.74E-03
1,2,4 - trimethylbenzene	0.070	120.2	0.48	0.00	0.0000	0.00E+00	2.72E-08	8.77E-08	4.41E-04	1.01E-04
1,3,5 - trimethylbenzene	0.070	120.2	0.25	0.0012	0.0000	0.00E+00	1.44E-08	4.64E-08	2.33E-04	5.32E-05
Other VOCs (non-HAPs)	0.066	112.1	1.06	0.0048	0.0000	0.00E+00	5.19E-08	1.68E-07	8.42E-04	1.92E-04
								Total HAPs	0.079	0.018
								Total VOCs	0.081	0.018

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm							Notes
	Benzene	Toluene	Ethyl-benzene	Xylene	1,2,4 - tmb	1,3,5 - tmb	Other	
Penreco 170ES	25.00	25.00	25.00	25.00	0.00	0.00	0.00	confidential information supplied by Calumet Specialty Products
ACORGA M5910	3.35	7.25	3.40	8.60	6.35	3.35	13.90	confidential information supplied by Cytec
Organic in ppm	23.35	23.65	23.36	23.75	0.48	0.25	1.06	composite concentration, Ci

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SXEW - Raffinate Tank Emissions

Units: SXEW RT

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant 900,000 Gallon Raffinate Tank Emissions - Penreco 170ES and COGNIS LIX 684N-LV

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Appendix F, References.

number of tanks	1	area of each tank	5,024 ft^2	total area	5,024 ft^2

Chemical Product	Percent
Penreco 170ES	92%
COGNIS LIX 684N-LV	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	23.10	0.0735	0.0018	5.73E-06	1.12E-06	3.63E-06	1.83E-02	4.17E-03
Toluene	0.0833	92.14	23.10	0.087	0.067	2.51E-04	1.18E-06	3.82E-06	1.92E-02	4.38E-03
Ethylbenzene	0.0760	106.17	23.10	0.100	0.057	2.46E-04	1.24E-06	4.01E-06	2.02E-02	4.60E-03
Total Xylene	0.0760	106.16	23.10	0.100	0.037	1.61E-04	1.24E-06	4.02E-06	2.02E-02	4.61E-03
Total HAPs(1)	0.082	103.94	3.31	0.014	0.60	2.54E-03	1.54E-07	4.99E-07	2.51E-03	5.72E-04
1,2,4 - trimethylbenzene	0.070	120.2	0.00	0.00	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5 - trimethylbenzene	0.070	120.2	0.00	0.0000	0.0000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Other VOCs (non-HAPs)	0.066	112.1	4.56	0.0208	0.0000	0.00E+00	2.24E-07	7.23E-07	3.63E-03	8.30E-04
								Total HAPs	0.080	0.018
								Total VOCs	0.084	0.019

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	1,2,4 - TMB	1,3,5 - TMB	Total HAPs	Other VOCs	
Penreco 170ES	25.00	25.00	25.00	25.00	0.00	0.00	0.00	0.00	confidential information supplied by Calumet Specialty Products
COGNIS LIX 684N-LV	0.00	0.00	0.00	0.00	0.00	0.00	43.50	60.00	confidential information supplied by Cytec
Organic in ppm	23.10	23.10	23.10	23.10	0.00	0.00	3.31	4.56	composite concentration, Ci

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SXEW - Raffinate Tank Emissions

Units: SXEW RT

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant 900,000 Gallon Raffinate Tank Emissions - Escaid 110 and ACORGA M5910

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

Emissions from the use of Escaid 110 also represent emissions from the use of Escaid 115 since the chemical constituents are the same.

Emissions from the use of ACORGA M5910 also represent emissions from the use of ACORGA OR25 since the chemical constituents are the same.

number of tanks	1	area of each tank	5,024 ft^2	total area	5,024 ft^2

Chemical Product	Percent
Escaid 110	92%
ACORGA M5910	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	0.25	8.11E-04	0.0018	5.73E-06	1.23E-08	3.98E-08	2.00E-04	4.56E-05
Toluene	0.0833	92.13	156.71	5.88E-01	0.067	2.51E-04	8.03E-06	2.59E-05	1.30E-01	2.98E-02
Ethylbenzene	0.0760	106.16	0.26	1.12E-03	0.057	2.46E-04	1.09E-08	3.51E-08	1.76E-04	4.03E-05
Total Xylene	0.0760	106.16	0.65	2.83E-03	0.037	1.61E-04	3.32E-08	1.07E-07	5.39E-04	1.23E-04
Total HAPs(1)	0.082	103.94	9.24	0.039	0.60	2.54E-03	4.93E-07	1.59E-06	8.00E-03	1.83E-03
1,2,4 - trimethylbenzene	0.066	120.19	0.48	0.002	0.00	0.00E+00	2.54E-08	8.21E-08	4.13E-04	9.42E-05
1,3,5 - trimethylbenzene	0.066	120.19	0.25	0.001	0.000	0.00E+00	1.34E-08	4.33E-08	2.18E-04	4.97E-05
Other VOCs (non-HAPs)	0.066	112.06	1.06	0.005	0.000	0.00E+00	5.19E-08	1.68E-07	8.42E-04	1.92E-04
								Total HAPs	0.139	0.032
								Total VOCs	0.141	0.032

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
Escaid 110	0.00	169.00	0.00	0.00	10.00	0.00	0.00	0.00	confidential information supplied by ExxonMobil
ACORGA M5910	3.35	7.25	3.40	8.60	0.00	6.35	3.35	13.90	confidential information supplied by Cytec
Organic in ppm	0.25	156.71	0.26	0.65	9.24	0.48	0.25	1.06	composite concentration, Ci

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SXEW - Raffinate Tank Emissions

Units: SXEW RT

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant 900,000 Gallon Raffinate Tank Emissions - Escaid 110 and COGNIS LIX 684N-LV

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.
Emissions from the use of Escaid 110 also represent emissions from the use of Escaid 115 since the chemical constituents are the same.

number of tanks	1	area of each tank	5,024 ft^2	total area	5,024 ft^2

Chemical Product	Percent
Escaid 110	92%
COGNIS LIX 684N-LV	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	0.00	0.00	0.0018	5.73E-06	-8.77E-11	-2.83E-10	-1.42E-06	-3.25E-07
Toluene	0.0833	92.13	156.16	0.59	0.067	2.51E-04	8.00E-06	2.59E-05	1.30E-01	2.97E-02
Ethylbenzene	0.0760	106.16	0.00	0.00	0.057	2.46E-04	-3.06E-09	-9.89E-09	-4.97E-05	-1.13E-05
Total Xylene	0.0760	106.16	0.00	0.00	0.037	1.61E-04	-2.00E-09	-6.46E-09	-3.25E-05	-7.41E-06
Total HAPs(1)	0.082	103.9	9.24	0.039	0.600	2.54E-03	4.93E-07	1.59E-06	8.00E-03	1.83E-03
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5 - trimethylbenzene	0.066	120.2	3.31	0.016	0.000	0.00E+00	1.74E-07	5.63E-07	2.83E-03	6.45E-04
Other VOCs (non-HAPs)	0.066	112.1	4.56	0.021	0.000	0.00E+00	2.24E-07	7.23E-07	3.63E-03	8.30E-04
								Total HAPs	0.138	0.031
								Total VOCs	0.144	0.033

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
Escaid 110	0.00	169.00	0.00	0.00	10.00	0.00	0.00	0.00	confidential information supplied by ExxonMobil
COGNIS LIX 684N-LV	0.00	0.00	0.00	0.00	0.00	0.00	43.50	60.00	confidential information supplied by Cytec
Organic in ppm	0.00	156.16	0.00	0.00	9.24	0.00	3.31	4.56	composite concentration, Ci

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SXEW - Raffinate Tank Emissions

Units: SXEW RT

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant 900,000 Gallon Raffinate Tank Emissions - Escaid 110 and ACORGA M5640

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.
Emissions from the use of Escaid 110 also represent emissions from the use of Escaid 115 since the chemical constituents are the same.

number of tanks	1	area of each tank	5,024 ft^2	total area	5,024 ft^2

Chemical Product	Percent
Escaid 110	92%
ACORGA M5640	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	0.38	1.21E-03	0.0018	5.73E-06	1.84E-08	5.95E-08	2.99E-04	6.82E-05
Toluene	0.0833	92.13	157.52	5.92E-01	0.067	2.51E-04	8.07E-06	2.61E-05	1.31E-01	2.99E-02
Ethylbenzene	0.0760	106.16	1.77	7.66E-03	0.057	2.46E-04	9.24E-08	2.98E-07	1.50E-03	3.42E-04
Total Xylene	0.0760	106.16	2.64	1.14E-02	0.037	1.61E-04	1.41E-07	4.54E-07	2.28E-03	5.21E-04
Total HAPs(1)	0.082	103.9	9.24	0.039	0.600	2.54E-03	4.93E-07	1.59E-06	8.00E-03	1.83E-03
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5 - trimethylbenzene	0.066	120.2	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Other VOCs (non-HAPs)	0.066	112.1	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								Total HAPs	0.143	0.033
								Total VOCs	0.143	0.033

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
Escaid 110	0.00	169.00	0.00	0.00	10.00	0.00	0.00	0.00	confidential information supplied by ExxonMobil
ACORGA M5640	5.00	17.90	23.30	34.80	0.00	0.00	0.00	0.00	confidential information supplied by Cytec
Organic in ppm	0.38	157.52	1.77	2.64	9.24	0.00	0.00	0.00	composite concentration, Ci

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SXEW - Raffinate Tank Emissions

Units: SXEW RT

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant 900,000 Gallon Raffinate Tank Emissions - ORFOM SX-80 and ACORGA M5910

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.
Emissions from the use of ACORGA M5910 also represent emissions from the use of ACORGA OR25 since the chemical constituents are the same.

number of tanks	1	area of each tank	5,024 ft^2	total area	5,024 ft^2

Chemical Product	Percent
ORFOM SX-80	92%
ACORGA M5910	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	4.87	1.55E-02	0.0018	5.73E-06	2.37E-07	7.66E-07	3.85E-03	8.79E-04
Toluene	0.0833	92.13	5.17	1.94E-02	0.067	2.51E-04	2.62E-07	8.45E-07	4.25E-03	9.70E-04
Ethylbenzene	0.0760	106.16	4.88	2.11E-02	0.057	2.46E-04	2.60E-07	8.40E-07	4.22E-03	9.63E-04
Total Xylene	0.0760	106.16	5.27	2.28E-02	0.037	1.61E-04	2.82E-07	9.12E-07	4.58E-03	1.05E-03
Total HAPs(1)	0.082	103.94	0.00	0.000	0.60	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2,4 - trimethylbenzene	0.066	120.19	0.48	0.002	0.00	0.00E+00	2.54E-08	8.21E-08	4.13E-04	9.42E-05
1,3,5 - trimethylbenzene	0.066	120.19	0.25	0.001	0.000	0.00E+00	1.34E-08	4.33E-08	2.18E-04	4.97E-05
Other VOCs (non-HAPs)	0.066	112.06	1.06	0.005	0.000	0.00E+00	5.19E-08	1.68E-07	8.42E-04	1.92E-04
								Total HAPs	0.017	0.004
								Total VOCs	0.018	0.004

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
ORFOM SX-80	5.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	confidential information supplied by Chevron Phillips
ACORGA M5910	3.35	7.25	3.40	8.60	0.00	6.35	3.35	13.90	confidential information supplied by Cytec
Organic in ppm	4.87	5.17	4.88	5.27	0.00	0.48	0.25	1.06	composite concentration, Ci

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SXEW - Raffinate Tank Emissions

Units: SXEW RT

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant 900,000 Gallon Raffinate Tank Emissions - ORFOM SX-80 and COGNIS LIX 684N-LV

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

number of tanks	1	area of each tank	5,024 ft^2	total area	5,024 ft^2

Chemical Product	Percent
ORFOM SX-80	92%
COGNIS LIX 684N-LV	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	4.62	0.01	0.0018	5.73E-06	2.25E-07	7.26E-07	3.65E-03	8.33E-04
Toluene	0.0833	92.13	4.62	0.02	0.067	2.51E-04	2.33E-07	7.54E-07	3.79E-03	8.65E-04
Ethylbenzene	0.0760	106.16	4.62	0.02	0.057	2.46E-04	2.46E-07	7.95E-07	3.99E-03	9.11E-04
Total Xylene	0.0760	106.16	4.62	0.02	0.037	1.61E-04	2.47E-07	7.98E-07	4.01E-03	9.15E-04
Total HAPs(1)	0.082	103.9	3.31	0.014	0.600	2.54E-03	1.54E-07	4.99E-07	2.51E-03	5.72E-04
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5 - trimethylbenzene	0.066	120.2	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Other VOCs (non-HAPs)	0.066	112.1	4.56	0.021	0.000	0.00E+00	2.24E-07	7.23E-07	3.63E-03	8.30E-04
								Total HAPs	0.018	0.004
								Total VOCs	0.022	0.005

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
ORFOM SX-80	5.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	confidential information supplied by Chevron Phillips
COGNIS LIX 684N-LV	0.00	0.00	0.00	0.00	43.50	0.00	0.00	60.00	confidential information supplied by Cytec
Organic in ppm	4.62	4.62	4.62	4.62	3.31	0.00	0.00	4.56	composite concentration, Ci

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SXEW - Raffinate Tank Emissions

Units: SXEW RT

Note: The highest emissions from any combination of tank contents is used in the facility-wide emissions summary table.

SX/EW Plant 900,000 Gallon Raffinate Tank Emissions - ORFOM SX-80 and ACORGA M5640

The following calculations are based on the BHP Copper VOC study conducted in 1997. A summary and copy of the report is included in Section 7.

number of tanks	1	area of each tank	5,024 ft^2	total area	5,024 ft^2

Chemical Product	Percent
ORFOM SX-80	92%
ACORGA M5640	8%

Component	D cm^2/sec	MW g/gmole	Ci ppm	Ci g/m^3	Ch ppm	Ch g/m^3	Diff F g/m^2-s	Emission Rate ton/yr-ft^2	Emission Rate tons/year	Emission Rate lb/hr
Benzene	0.0933	78.11	5.00	1.59E-02	0.0018	5.73E-06	2.43E-07	7.86E-07	3.95E-03	9.02E-04
Toluene	0.0833	92.13	5.98	2.25E-02	0.067	2.51E-04	3.03E-07	9.79E-07	4.92E-03	1.12E-03
Ethylbenzene	0.0760	106.16	6.39	2.77E-02	0.057	2.46E-04	3.41E-07	1.10E-06	5.54E-03	1.27E-03
Total Xylene	0.0760	106.16	7.26	3.14E-02	0.037	1.61E-04	3.90E-07	1.26E-06	6.32E-03	1.44E-03
Total HAPs[(1)]	0.082	103.9	0.00	0.000	0.600	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,2,4 - trimethylbenzene	0.066	120.2	0.00	0.000	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1,3,5 - trimethylbenzene	0.066	120.2	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Other VOCs (non-HAPs)	0.066	112.1	0.00	0.000	0.000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
								Total HAPs	0.021	0.005
								Total VOCs	0.021	0.005

(1) Total HAPs Molecular weight and Ch, ppm is obtained by determining the average of total HAP constituents within the product.

Where: D = constituent diffusivity (from EPA Reference Link for Estimated Diffusion Coefficients in Air and Water; Assumed Pressure of 1 atm, and Temperature of 25.84 deg. C per 1995 met. data)
MW = constituent molecular weight
Ci = constituent concentration at liquid surface, ppm. (from manufacturer data)
Ci, g/m^3, calculated from ideal gas law. Conservative temperature of 25.84 deg. C used based on 1995 meteorological data (Average plus Standard Deviation).
Ch = constituent concentration at 0.61 meter, ppm. Assumed same as BHP's measured concentrations at H=1 m
H = distance above liquid surface = 0.61 m

Chemical	Concentration in ppm								Notes
	Benzene	Toluene	Ethylbenzene	Total Xylene	Total HAPs	1,2,4 - TMB	1,3,5 - TMB	Other VOCs	
ORFOM SX-80	5.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	confidential information supplied by Chevron Phillips
ACORGA M5640	5.00	17.90	23.30	34.80	0.00	0.00	0.00	0.00	confidential information supplied by Cytec
Organic in ppm	5.00	5.98	6.39	7.26	0.00	0.00	0.00	0.00	composite concentration, Ci

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SXEW - Sulfuric Acid Emission Estimates for the Chino SX/EW Tank House

Units: SXEW SAT

Parameter[(1)]	Value	Units	Notes
A1 (Inlet Area)	6,515	sqft	Based on measurements taken at Chino facility
A2 (Outlet Area)	1,760	sqft	Based on measurements taken at Chino facility
H (Height separating inlet from outlet)	30	ft	Based on measurements taken at Chino facility
Ti (Inside Temperature)	523	deg R (63°F)	Based on measurements taken at Chino facility
To (Outside Temperature)	515	deg R (55.2°F)	Based on measurements taken at Chino facility
h (Natural plane calculation)	**2.01**	ft	Equation 8
Cv (effectiveness of openings)	0.55	-	Page 26.11 of ASHRAE HVAC Handbook 2001
Aw (Area of openings)	1,260	sqft	Based on measurements taken at Chino facility
V (Wind speed)[(3)]	10.00	MPH	Based on meteorological data at Chino facility
Qw (Wind effect calc.)	**609,840**	cfm	Equation 1
A (Area)	1,760	sqft	Based on measurements taken at Chino facility
Cs (Stack effect coefficient)	0.0449	-	26.22 Table 7 of of ASHRAE HVAC Handbook 2001
h (Natural plane calculation)	2.01	ft	Equation 8
Ti (Inside Temperature)	523	deg R	Based on measurements taken at Chino facility
dT (Temperature difference)	7.47	deg R	Ti - To
Fc (Correction Factor)	1.37	-	Figure 7 on Page 26.11 of ASHRAE HVAC Handbook 2001
Qs (Thermal effect calc.)	**8,837**	cfm	Equation 9
Q_{Total} (combined wind & thermal)	**609,904**	**cfm**	Equation 10
H_2SO_4 Concentration	1.00	mg/m^3	Maximum OEL for an 8 hour work shift
H_2SO_4 Concentration	6.24E-08	lb/cf	Unit conversion
ACID MIST EMISSIONS (classified as PM_{10})	2.282	lb/hr	(lb/year) / (8,760 hours/year)
	19,994	lb/yr	Equation 12
	10.00	**TPY**	(lb/year) / (2,000 lbs/ton)

Notes:

[1] Equipment information and specs provided by Clyde Durham, Sr. Environmental Engineer Chino, ELWD, Air Compliance Programs. Data taken from 1997 Notice of Intent submitted to NMED.

[2] Calculation method based on American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 2001 Fundamentals Handbook.

[3] Average wind speed obtained from on-site MET station data.

[4] H_2SO_4 concentration is the OEL for an 8 hour work shift

Conversions:

1 lb = 454 grams
1 ft = 0.3048 m
cf = cubic foot
cm = cubic meter
cfm = cubic feet per minute

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SXEW - Sulfuric Acid Emission Estimates for the Chino SX/EW Tank House

Units: SXEW SAT

EMISSIONS BASED ON THE FOLLOWING ASHRAE EQUATIONS:
See Section 7 for additional details.

Flow due to wind effect: $Q_w = (88)C_wA_wV$ (Eqn. 1)

where,
Q_W = wind effect air flow (ft^3/min)
C_V= effectiveness of openings (orifice coefficient)
A_W = area of windward inlet openings (ft^2)
V = wind velocity (MPH)
88 = conversion factor (MPH to ft/min)

Flow due to stack effect: $h_{th} = h(1 - s_h)$ (Eqn. 2)

where,
h_{Th}= thermostatic head (ft of air)
h = height of feet of hot air in an enclosure
s_h = specific gravity of hot air relative to cold air

Since the specific gravity of the cooler air is equal to unity (as point of reference), becomes: $$s_h = \frac{s_c T_o}{T_i} = \frac{T_o}{T_i}$$ (Eqn. 3)

where,
s_c = specific gravity of cool air in an enclosure
T_i = absolute temperature of the hot interior air
T_o = absolute temperature of the cooler air

Combining Eqns. 2 & 3: $$h_{th} = h(1 - \frac{T_o}{T_i}) = h\frac{(T_i - T_o)}{T_i} = h\frac{\Delta T}{T_i}$$ (Eqn. 4)

Since the value of h_{Th} is in feet of air, it can be used directly in the following equation to ascertain velocity through an orifice: $$v = C_s\sqrt{2gh_{th}}$$ (Eqn. 5)

where,
v = orifice velocity (ft/s)
Cs = effectiveness of openings (orifice coefficient)
g = gravitational constant (32.2 ft/s^2)
h_{Th}= thermostatic head (ft)

Combining Eqns. 4 & 5: $$v = C_s\sqrt{(2)(32.2)h\frac{\Delta T}{T_i}} = 8.02C_s\sqrt{h\frac{\Delta T}{T_i}}$$ (Eqn. 6)

Orifice flowrates can be calculated by multiplying the orifice velocity by the orifice cross sectional area: $$Q_s = (8.02)(60)C_sA\sqrt{h\frac{\Delta T}{T_i}}$$ (Eqn. 7)

where,
Q_s = stack effect air flow (ft_3/min)
A = flow area (ft^2)
60 = conversion factor (ft/s to ft/min)

Freeport-McMoRan Chino Mines Company
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SXEW - Sulfuric Acid Emission Estimates for the Chino SX/EW Tank House

Units: SXEW SAT

According to the ASHRAE Fundamentals Handbook, the thermal effect flowrate is greatest when the inlet and outlet openings are equal. In the case of unequal openings, the smaller area should be used in the equation and the flowrate corrected using a correction factor, F_c, that accounts for the increase in flow (percent). This correction is determined from the ratio of inlet to outlet areas and Figure 7 located on page 26.11 of the 2001 Fundamentals Handbook.

To calculate h, the following equation can be used:

$$h = \frac{H}{1 + \frac{A_1^2 T_i}{A_2^2 T_o}} \qquad \text{(Eqn. 8)}$$

where,

A_1 = area of lower openings (ft^2)

A_2 = area of upper openings (ft^2)

H = distance from lower to upper openings (ft)

Combining Eqns. 7 & 8, taking into account F_c, correction factor:

$$Q_s = (481.2) F_c C_s A \sqrt{\frac{\frac{H\Delta T}{T_i}}{1 + \frac{A_1^2 T_i}{A_2^2 T_o}}} \qquad \text{(Eqn. 9)}$$

Combining wind effect and stack effect flowrates:

$$Q_{Total} = \sqrt{Q_w^2 + Q_s^2} \qquad \text{(Eqn. 10)}$$

Substituting equations (1) and (9) into (10) yields the final equation:

$$Q = \sqrt{(7{,}744) C_w^2 A_w^2 V^2 + (231{,}533.44) F_c^2 C_s^2 A^2 \frac{\frac{H\Delta T}{T_i}}{1 + \frac{A_1^2 T_i}{A_2^2 T_o}}} \qquad (11)$$

Calculation of acid mist emission

When the ventilation rate and acid mist concentration are known, the acid mist emissions can be determined from the following equation:

$$E_A = kQZ \qquad (12)$$

where E_A = Acid mist emission rate (ton/yr)

k = Conversion factor

Z = Acid mist concentration (mg/m^3)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

White House Crushing Plant Emission Summary

Units: WH Crush

Emissions Summary																				
Unit Number	**PM**		**PM_{10}**		**$PM_{2.5}$**		**Antimony**		**Arsenic**		**Barium**		**Beryllium**		**Cadmium**		**Chromium**		**Cobalt**	
	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**	**lb/hr**	**ton/yr**
White House Cusher - Conveyor	39.73	87.00	18.12	39.67	2.74	6.00	1.27E-04	2.79E-04	1.40E-04	3.07E-04	8.03E-03	1.76E-02	4.17E-05	9.14E-05	2.66E-05	5.83E-05	1.34E-03	2.92E-03	1.25E-03	2.73E-03
White House Cusher - Crushers	2.61	5.72	1.16	2.54	1.16	2.54	8.37E-06	1.83E-05	9.23E-06	2.02E-05	5.28E-04	1.16E-03	2.74E-06	6.01E-06	1.75E-06	3.83E-06	8.78E-05	1.92E-04	8.21E-05	1.80E-04
White House Cusher - Screens	15.32	33.54	5.33	11.67	0.80	1.75	4.91E-05	1.07E-04	5.41E-05	1.19E-04	3.09E-03	6.78E-03	1.61E-05	3.52E-05	1.03E-05	2.25E-05	5.15E-04	1.13E-03	4.81E-04	1.05E-03
White House Cusher - Load & Unload	20.88	45.73	9.87	21.62	1.50	3.27	6.69E-05	1.46E-04	7.38E-05	1.62E-04	4.22E-03	9.24E-03	2.19E-05	4.80E-05	1.40E-05	3.06E-05	7.02E-04	1.54E-03	6.56E-04	1.44E-03
Total	**78.53**	**171.99**	**34.48**	**75.51**	**6.20**	**13.57**	**2.52E-04**	**5.51E-04**	**2.77E-04**	**6.08E-04**	**1.59E-02**	**3.48E-02**	**8.25E-05**	**1.81E-04**	**5.26E-05**	**1.15E-04**	**2.64E-03**	**5.78E-03**	**2.47E-03**	**5.41E-03**

Emissions Summary																		
Unit Number	**Copper**		**Lead**		**Manganese**		**Molybdenum**		**Nickel**		**Silver**		**Thallium**		**Vanadium**		**Zinc**	
	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**
White House Cusher - Conveyor	1.76E-01	3.85E-01	1.88E-04	4.12E-04	9.62E-04	2.11E-03	3.01E-04	6.59E-04	5.60E-04	1.23E-03	9.40E-06	2.06E-05	2.66E-04	5.83E-04	1.32E-03	2.88E-03	6.65E-04	1.46E-03
White House Cusher - Crushers	1.16E-02	2.53E-02	1.24E-05	2.71E-05	6.33E-05	1.39E-04	1.98E-05	4.34E-05	3.68E-05	8.07E-05	6.18E-07	1.35E-06	1.75E-05	3.83E-05	8.66E-05	1.90E-04	4.37E-05	9.57E-05
White House Cusher - Screens	6.78E-02	1.48E-01	7.25E-05	1.59E-04	3.71E-04	8.13E-04	1.16E-04	2.54E-04	2.16E-04	4.73E-04	3.62E-06	7.94E-06	1.03E-04	2.25E-04	5.08E-04	1.11E-03	2.56E-04	5.61E-04
White House Cusher - Load & Unload	9.24E-02	2.02E-01	9.88E-05	2.16E-04	5.06E-04	1.11E-03	1.58E-04	3.47E-04	2.94E-04	6.45E-04	4.94E-06	1.08E-05	1.40E-04	3.06E-04	6.92E-04	1.52E-03	3.49E-04	7.65E-04
Total	**3.47E-01**	**7.61E-01**	**3.72E-04**	**8.14E-04**	**1.90E-03**	**4.17E-03**	**5.95E-04**	**1.30E-03**	**1.11E-03**	**2.43E-03**	**1.86E-05**	**4.07E-05**	**5.26E-04**	**1.15E-03**	**2.60E-03**	**5.70E-03**	**1.31E-03**	**2.88E-03**

Freeport-McMoRan Chino Mines Company
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White House Crushing and Screening Plant
Unit: WH Crush

Operating Hours		
Modeled Throughput	279	metric tons/hr
	312.48	US tons/hr
Scaled or Actual Throughput	500	US tons/hr
	12000	US tons/day
	4380000	US tons/yr
Scaling Factor	1.60	
Annual Operating Days	365	days
Annual Operating Hours	12	hr

Conveyor Throughputs*			
Conveyor ID Number	Modeled Throughput (metric tons/hr)	Modeled Throughput (US tons/hr)	Scaled Throughput (US tons/hr)
Conv-1	34	38.08	60.93
Conv-2	245	274.40	439.07
Conv-3	268	300.16	480.29
Conv-4	268	300.16	480.29
Conv-5	60	67.20	107.53
Conv-6	73	81.76	130.82
Conv-7	56	62.72	100.36
Conv-8	55	61.60	98.57
Conv-9	23	25.76	41.22
*conveyor drop point (Aggregate Handling)	279.0	312.48	500

Crusher Throughputs				
Crusher ID Number	Modeled Throughput (metric tons/hr)	Modeled Throughput (US tons/hr)	Scaled Throughput (US tons/hr)	Material Handling Size
Crush-1	164	183.68	293.91	Primary [1]
Crush-2	268	300.16	480.29	Teritiary[2]

Screening Throughputs				
Screening ID Number	Modeled Throughput (metric tons/hr)	Modeled Throughput (US tons/hr)	Scaled Throughput (US tons/hr)	Material Handling Size
Screen-1	279	312.48	500.00	Normal[3]
Screen-2	268	300.16	480.29	Normal[4]

Truck Loading & Unloading Fragmented Stone Emissions			
Loading ID Number	Modeled Throughput (metric tons/hr)	Modeled Throughput (US tons/hr)	Scaled Throughput (US tons/hr)
Load & Unload[5,6]	279	312.48	500

Aggregate Handling Emissions				
Loading ID Number	Throughput (metric tons/hr)	Throughput (US tons/hr)	Scaled Throughput (US tons/hr)	Drop Points
Aggregate-1[7]	279	312.48	500	1

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%)[8]

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper
3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01

Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Notes

*There will be 5 piles and associated drop points. However, each pile has a fraction of the total mass, so the total throughput of 500 tph divided by 5 drop points equals 100 tph per each drop point

*The conveyor drop point (aggregate handling) AP-42 emission factors takes into account the following activities: 1) loading of aggregate onto the storage pile; 2) wind erosion associated with the pile; 3) load out of aggregate for shipment or for return to the process.

[1]The first crusher is considered a primary crusher and according to AP-42 Table 11.19.2-2 sub note "n": emission factors for PM_{10} for tertiary crushers can be used as an upper limit for primary or secondary crushing.

[2]The second crusher further reduces the ore size in a revolving process to reduce the ore size below 40 mm or 1.57 inches; therefore, the emission factors from AP-42 territory crushing process are used.

[3]Screen-1 is screening material to size 130mm; therefore, the AP-42 Normal Screen Emission Factors will be used.

[4]Based on technical specs, Screen-2 is a cascading screen with multiple sizes pulled out. The smallest screen handling size is 5.0mm or 0.197 inches; the fore, the AP-42 Normal Screen Emission Factors will be used. (the cut off to use AP-42 fine screen is anything less than 0.185 inches)

[5]Unloading is fragmented stone being carried into the plant via truck.

[6] Loading is the crushed stone leaving the plant via truck

[7] There will be 5 piles and associated drop points. However, each pile has a fraction of the total mass, so the total throughput of 450 tph is used to calculate the aggregate handling.

[8]Data taken from Chino 2024 TRI data received from Ellen Silk.

Freeport-McMoRan Chino Mines Company
Revised: February 2026

White House Crushing and Screening Plant
Unit: WH Crush (Loading & Unloading)

Basis		
Annual throughput of ore to mill	4,380,000.00	US tons/yr
Daily throughput of ore to mill	12000	US tons/day
Hourly throughput of ore to mill	500	US tons/hr
Annual Operating Days	365	days
Daily Operating Hours	12	hours

White House Cusher - Conveyor

White House Cusher - Screens	Emission Factors (lb/ton)		
	PM	PM10	PM2.5
Truck Unloading - Fragmented Stone [1]	4.18E-05	1.60E-05	2.40E-06
Truck Loading (Drop Equation) [2]	0.067	3.16E-02	0.0048

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%)[(1)]

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Load ID Number	Hourly Throughput (tons/hr)	Operating Efficiency	Controlled or Uncontrolled	Pollutant Emissions lb/hr																	
				PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Unload	312.48	0.00%	uncontrolled	0.01	0.0050	7.50E-04	4.18E-08	4.61E-08	2.64E-06	1.37E-08	8.75E-09	4.39E-07	4.11E-07	5.78E-05	6.18E-08	3.16E-07	9.90E-08	1.84E-07	3.09E-09	8.75E-08	4.33E-07	2.18E-07
Load	312.48	0.00%	uncontrolled	20.87	9.87	1.49E+00	6.68E-05	7.37E-05	4.22E-03	2.19E-05	1.40E-05	7.01E-04	6.56E-04	9.23E-02	9.88E-05	5.06E-04	1.58E-04	2.94E-04	4.94E-06	1.40E-04	6.92E-04	3.49E-04
Totals				**20.88**	**9.87**	**1.50**	**6.69E-05**	**7.38E-05**	**4.22E-03**	**2.19E-05**	**1.40E-05**	**7.02E-04**	**6.56E-04**	**9.24E-02**	**9.88E-05**	**5.06E-04**	**1.58E-04**	**2.94E-04**	**4.94E-06**	**1.40E-04**	**6.92E-04**	**3.49E-04**

Load ID Number	Hourly Throughput (tons/hr)	Operating Efficiency	Controlled or Uncontrolled	Pollutant Emissions ton/yr																	
				PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Unload	312.48	0.00%	uncontrolled	0.03	0.011	0.0016	9.16E-08	1.01E-07	5.78E-06	3.00E-08	1.92E-08	9.62E-07	8.99E-07	1.27E-04	1.35E-07	6.93E-07	2.17E-07	4.03E-07	6.77E-09	1.92E-07	9.48E-07	4.78E-07
Load	312.48	0.00%	uncontrolled	45.70	21.61	3.27	1.46E-04	1.61E-04	9.23E-03	4.80E-05	3.06E-05	1.54E-03	1.44E-03	2.02E-01	2.16E-04	1.11E-03	3.46E-04	6.44E-04	1.08E-05	3.06E-04	1.52E-03	7.64E-04
Totals				**45.73**	**21.62**	**3.27**	**1.46E-04**	**1.62E-04**	**9.24E-03**	**4.80E-05**	**3.06E-05**	**1.54E-03**	**1.44E-03**	**2.02E-01**	**2.16E-04**	**1.11E-03**	**3.47E-04**	**6.45E-04**	**1.08E-05**	**3.06E-04**	**1.52E-03**	**7.65E-04**

Notes

[1]The emission factors for material handling are based on AP-42, Chapter 11.19.2, Table 11.19.2-2 Crushed Stone Processing and Pulverized Mineral Processing (August 2004) for Truck Unloading - Fragmented Stone. The basis for these emission factors is the PM10 emission factor for truck unloading of fragmented stone in Table 11.19.2-2. This table provides a PM10 emission factor, but does not provide PM2.5 or PM emission factors. A PM2.5 emission factor was calculated from the available PM10 emission factor using the ratio of 0.15 PM2.5/PM10 as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. An uncontrolled PM emission factor was calculated from the available uncontrolled PM10 emission factor using the PM/PM10 ratio calculated from the following uncontrolled PM and PM10 emission factors in Table 11.19.2-2: Tertiary Crushing (0.0054/0.0024 = 2.25); Fines Crushing

[2] Material handling uncontrolled emission factors based on USEPA AP-42 USEPA's Drop Equation in AP-42, Section 13.2.4. Drop equation is as follows: where,

$$E\left(\frac{lb}{ton}\right) = k \cdot 0.0032 \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

	PM	PM_{10}	$PM_{2.5}$	
E	0.067	0.032	0.0048	lbs/ton
k	0.74	0.35	0.053	unitless
U	6.95	6.95	6.95	mph
M	0.25	0.25	0.25	%

E = Emission Factor (lbs/ton)
k = Particle Size Multiplier, dimensionless ($PM_{2.5}$= 0.053, PM_{10}= 0.35, PM=0.74)
U = Mean Wind Speed = 6.95 mph (Bayard, NM)
M = Moisture Content = 0.25% Assuming the lowest possible moisture content to be conservative.

Sample Calculations

PM emissions Unload (lb/hr) = 312 tons/hr of ore x 0 lb of PM/ton of ore x (1-0%)= 0.01 lb/hr
Antimony Unload emissions (lb/hr) = 0.01 lb/hr x 0.0003% = 0 lb/hr

Freeport-McMoRan Chino Mines Company
Revised: February 2026

White House Crushing and Screening Plant
Unit: WH Crush (Conveyor Transfer Points)

	Basis	
Annual throguhput of ore to mill	4,380,000.00	US tons/yr
Daily throughput of ore to mill	12000	US tons/day
Hourly throughput of ore to mill	500	US tons/hr
Annual Operating Days	365	days
Daily Operating Hours	12	hours

	Emission Factors (lb/ton)		
	PM	PM_{10}	$PM_{2.5}$
Conveyor Transfer Point (uncontrolled)[1,2]	0.003	0.0011	0.000165
Conveyor Transfer Point (controlled)[1,3]	0.00014	0.000046	0.000013
Coveyor Drop Point (aggregate handling- uncontrolled) [4,5,6,7]	0.067	0.032	0.005

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%)

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Conveyor ID Number	Transfer Point[4]	Hourly Throughput	Operating efficiency	Controlled or Uncontrolled	Pollutant Emissions lb/hr																
					PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Conv-1	a	38.08	0.00%	uncontrolled	0.11	0.04	0.01	3.66E-07	4.04E-07	2.31E-05	1.20E-07	7.65E-08	3.84E-06	3.59E-06	5.05E-04	5.41E-07	2.77E-06	8.66E-07	1.61E-06	2.70E-08	7.65E-07	3.79E-06	1.91E-06
	c	100.00	0.00%	uncontrolled	6.68	3.16	0.48	2.14E-05	2.36E-05	1.35E-03	7.01E-06	4.47E-06	2.24E-04	2.10E-04	2.95E-02	3.16E-05	1.62E-04	5.06E-05	9.42E-05	1.58E-06	4.47E-05	2.21E-04	1.12E-04
Conv-2	a	274.40	0.00%	uncontrolled	0.82	0.30	0.05	2.64E-06	2.91E-06	1.66E-04	8.64E-07	5.51E-07	2.77E-05	2.59E-05	3.64E-03	3.90E-06	1.99E-05	6.24E-06	1.16E-05	1.95E-07	5.51E-06	2.73E-05	1.38E-05
	b	274.40	0.00%	uncontrolled	0.82	0.30	0.05	2.64E-06	2.91E-06	1.66E-04	8.64E-07	5.51E-07	2.77E-05	2.59E-05	3.64E-03	3.90E-06	1.99E-05	6.24E-06	1.16E-05	1.95E-07	5.51E-06	2.73E-05	1.38E-05
Conv-3	a	300.16	0.00%	uncontrolled	0.90	0.33	0.05	2.88E-06	3.18E-06	1.82E-04	9.46E-07	6.03E-07	3.03E-05	2.83E-05	3.98E-03	4.26E-06	2.18E-05	6.83E-06	1.27E-05	2.13E-07	6.03E-06	2.99E-05	1.51E-05
	b	300.16	0.00%	uncontrolled	0.90	0.33	0.05	2.88E-06	3.18E-06	1.82E-04	9.46E-07	6.03E-07	3.03E-05	2.83E-05	3.98E-03	4.26E-06	2.18E-05	6.83E-06	1.27E-05	2.13E-07	6.03E-06	2.99E-05	1.51E-05
Conv-4	a	300.16	0.00%	uncontrolled	0.90	0.33	0.05	2.88E-06	3.18E-06	1.82E-04	9.46E-07	6.03E-07	3.03E-05	2.83E-05	3.98E-03	4.26E-06	2.18E-05	6.83E-06	1.27E-05	2.13E-07	6.03E-06	2.99E-05	1.51E-05
	b	300.16	0.00%	uncontrolled	0.90	0.33	0.05	2.88E-06	3.18E-06	1.82E-04	9.46E-07	6.03E-07	3.03E-05	2.83E-05	3.98E-03	4.26E-06	2.18E-05	6.83E-06	1.27E-05	2.13E-07	6.03E-06	2.99E-05	1.51E-05
Conv-5	a	67.20	0.00%	uncontrolled	0.20	0.07	0.01	6.46E-07	7.12E-07	4.07E-05	2.12E-07	1.35E-07	6.78E-06	6.34E-06	8.92E-04	9.54E-07	4.88E-06	1.53E-06	2.84E-06	4.77E-08	1.35E-06	6.68E-06	3.37E-06
	c	100.00	0.00%	uncontrolled	6.68	3.16	0.48	2.14E-05	2.36E-05	1.35E-03	7.01E-06	4.47E-06	2.24E-04	2.10E-04	2.95E-02	3.16E-05	1.62E-04	5.06E-05	9.42E-05	1.58E-06	4.47E-05	2.21E-04	1.12E-04
Conv-6	a	81.76	0.00%	uncontrolled	0.25	0.09	0.01	7.86E-07	8.67E-07	4.96E-05	2.58E-07	1.64E-07	8.24E-06	7.71E-06	1.09E-03	1.16E-06	5.94E-06	1.86E-06	3.46E-06	5.81E-08	1.64E-06	8.13E-06	4.10E-06
	c	100.00	0.00%	uncontrolled	6.68	3.16	0.48	2.14E-05	2.36E-05	1.35E-03	7.01E-06	4.47E-06	2.24E-04	2.10E-04	2.95E-02	3.16E-05	1.62E-04	5.06E-05	9.42E-05	1.58E-06	4.47E-05	2.21E-04	1.12E-04
Conv-7	a	62.72	0.00%	uncontrolled	0.19	0.07	0.01	6.03E-07	6.65E-07	3.80E-05	1.98E-07	1.26E-07	6.32E-06	5.91E-06	8.32E-04	8.91E-07	4.56E-06	1.43E-06	2.65E-06	4.45E-08	1.26E-06	6.24E-06	3.15E-06
	c	100.00	0.00%	uncontrolled	6.68	3.16	0.48	2.14E-05	2.36E-05	1.35E-03	7.01E-06	4.47E-06	2.24E-04	2.10E-04	2.95E-02	3.16E-05	1.62E-04	5.06E-05	9.42E-05	1.58E-06	4.47E-05	2.21E-04	1.12E-04
Conv-8	a	61.60	0.00%	uncontrolled	0.18	0.07	0.01	5.92E-07	6.53E-07	3.73E-05	1.94E-07	1.24E-07	6.21E-06	5.81E-06	8.18E-04	8.75E-07	4.48E-06	1.40E-06	2.61E-06	4.37E-08	1.24E-06	6.13E-06	3.09E-06
	c	100.00	0.00%	uncontrolled	6.68	3.16	0.48	2.14E-05	2.36E-05	1.35E-03	7.01E-06	4.47E-06	2.24E-04	2.10E-04	2.95E-02	3.16E-05	1.62E-04	5.06E-05	9.42E-05	1.58E-06	4.47E-05	2.21E-04	1.12E-04
Conv-9	a	25.76	0.00%	uncontrolled	0.08	0.03	0.00	2.48E-07	2.73E-07	1.56E-05	8.12E-08	5.18E-08	2.60E-06	2.43E-06	3.42E-04	3.66E-07	1.87E-06	5.86E-07	1.09E-06	1.83E-08	5.18E-07	2.56E-06	1.29E-06
	b	25.76	0.00%	uncontrolled	0.08	0.03	0.00	2.48E-07	2.73E-07	1.56E-05	8.12E-08	5.18E-08	2.60E-06	2.43E-06	3.42E-04	3.66E-07	1.87E-06	5.86E-07	1.09E-06	1.83E-08	5.18E-07	2.56E-06	1.29E-06
Total					**39.73**	**18.12**	**2.74**	**1.27E-04**	**1.40E-04**	**8.03E-03**	**4.17E-05**	**2.66E-05**	**1.34E-03**	**1.25E-03**	**1.76E-01**	**1.88E-04**	**9.62E-04**	**3.01E-04**	**5.60E-04**	**9.40E-06**	**2.66E-04**	**1.32E-03**	**6.65E-04**

Freeport-McMoRan Chino Mines Company
Revised: February 2026

White House Crushing and Screening Plant
Unit: WH Crush (Conveyor Transfer Points)

Conveyor ID Number	Transfer Point	Hourly Throughput	Operating efficiency	Controlled or Uncontrolled	Pollutant Emissions ton/yr																	
					PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Conv-1	a	38.08	0.00%	uncontrolled	0.25	0.09	0.01	8.01E-07	8.84E-07	5.06E-05	2.63E-07	1.68E-07	8.41E-06	7.86E-06	1.11E-03	1.18E-06	6.06E-06	1.90E-06	3.53E-06	5.92E-08	1.68E-06	8.29E-06	4.18E-06
	c	100.00	0.00%	uncontrolled	14.62	6.92	1.05	4.68E-05	5.17E-05	2.95E-03	1.54E-05	9.80E-06	4.92E-04	4.60E-04	6.47E-02	6.92E-05	3.54E-04	1.11E-04	2.06E-04	3.46E-06	9.80E-05	4.85E-04	2.45E-04
Conv-2	a	274.40	0.00%	uncontrolled	1.80	0.66	0.10	5.77E-06	6.37E-06	3.64E-04	1.89E-06	1.21E-06	6.06E-05	5.67E-05	7.98E-03	8.53E-06	4.37E-05	1.37E-05	2.54E-05	4.27E-07	1.21E-05	5.98E-05	3.02E-05
	b	274.40	0.00%	uncontrolled	1.80	0.66	0.10	5.77E-06	6.37E-06	3.64E-04	1.89E-06	1.21E-06	6.06E-05	5.67E-05	7.98E-03	8.53E-06	4.37E-05	1.37E-05	2.54E-05	4.27E-07	1.21E-05	5.98E-05	3.02E-05
Conv-3	a	300.16	0.00%	uncontrolled	1.97	0.72	0.11	6.32E-06	6.97E-06	3.98E-04	2.07E-06	1.32E-06	6.63E-05	6.20E-05	8.72E-03	9.33E-06	4.78E-05	1.49E-05	2.78E-05	4.67E-07	1.32E-05	6.54E-05	3.30E-05
	b	300.16	0.00%	uncontrolled	1.97	0.72	0.11	6.32E-06	6.97E-06	3.98E-04	2.07E-06	1.32E-06	6.63E-05	6.20E-05	8.72E-03	9.33E-06	4.78E-05	1.49E-05	2.78E-05	4.67E-07	1.32E-05	6.54E-05	3.30E-05
Conv-4	a	300.16	0.00%	uncontrolled	1.97	0.72	0.11	6.32E-06	6.97E-06	3.98E-04	2.07E-06	1.32E-06	6.63E-05	6.20E-05	8.72E-03	9.33E-06	4.78E-05	1.49E-05	2.78E-05	4.67E-07	1.32E-05	6.54E-05	3.30E-05
	b	300.16	0.00%	uncontrolled	1.97	0.72	0.11	6.32E-06	6.97E-06	3.98E-04	2.07E-06	1.32E-06	6.63E-05	6.20E-05	8.72E-03	9.33E-06	4.78E-05	1.49E-05	2.78E-05	4.67E-07	1.32E-05	6.54E-05	3.30E-05
Conv-5	a	67.20	0.00%	uncontrolled	0.44	0.16	0.02	1.41E-06	1.56E-06	8.92E-05	4.64E-07	2.96E-07	1.48E-05	1.39E-05	1.95E-03	2.09E-06	1.07E-05	3.35E-06	6.23E-06	1.04E-07	2.96E-06	1.46E-05	7.39E-06
	c	100.00	0.00%	uncontrolled	14.62	6.92	1.05	4.68E-05	5.17E-05	2.95E-03	1.54E-05	9.80E-06	4.92E-04	4.60E-04	6.47E-02	6.92E-05	3.54E-04	1.11E-04	2.06E-04	3.46E-06	9.80E-05	4.85E-04	2.45E-04
Conv-6	a	81.76	0.00%	uncontrolled	0.54	0.20	0.03	1.72E-06	1.90E-06	1.09E-04	5.64E-07	3.60E-07	1.81E-05	1.69E-05	2.38E-03	2.54E-06	1.30E-05	4.07E-06	7.58E-06	1.27E-07	3.60E-06	1.78E-05	8.99E-06
	c	100.00	0.00%	uncontrolled	14.62	6.92	1.05	4.68E-05	5.17E-05	2.95E-03	1.54E-05	9.80E-06	4.92E-04	4.60E-04	6.47E-02	6.92E-05	3.54E-04	1.11E-04	2.06E-04	3.46E-06	9.80E-05	4.85E-04	2.45E-04
Conv-7	a	62.72	0.00%	uncontrolled	0.41	0.15	0.02	1.32E-06	1.46E-06	8.33E-05	4.33E-07	2.76E-07	1.39E-05	1.30E-05	1.82E-03	1.95E-06	9.98E-06	3.12E-06	5.81E-06	9.75E-08	2.76E-06	1.37E-05	6.89E-06
	c	100.00	0.00%	uncontrolled	14.62	6.92	1.05	4.68E-05	5.17E-05	2.95E-03	1.54E-05	9.80E-06	4.92E-04	4.60E-04	6.47E-02	6.92E-05	3.54E-04	1.11E-04	2.06E-04	3.46E-06	9.80E-05	4.85E-04	2.45E-04
Conv-8	a	61.60	0.00%	uncontrolled	0.40	0.15	0.02	1.30E-06	1.43E-06	8.18E-05	4.25E-07	2.71E-07	1.36E-05	1.27E-05	1.79E-03	1.92E-06	9.80E-06	3.07E-06	5.71E-06	9.58E-08	2.71E-06	1.34E-05	6.77E-06
	c	100.00	0.00%	uncontrolled	14.62	6.92	1.05	4.68E-05	5.17E-05	2.95E-03	1.54E-05	9.80E-06	4.92E-04	4.60E-04	6.47E-02	6.92E-05	3.54E-04	1.11E-04	2.06E-04	3.46E-06	9.80E-05	4.85E-04	2.45E-04
Conv-9	a	25.76	0.00%	uncontrolled	0.17	0.06	0.01	5.42E-07	5.98E-07	3.42E-05	1.78E-07	1.13E-07	5.69E-06	5.32E-06	7.49E-04	8.01E-07	4.10E-06	1.28E-06	2.39E-06	4.01E-08	1.13E-06	5.61E-06	2.83E-06
	b	25.76	0.00%	uncontrolled	0.17	0.06	0.01	5.42E-07	5.98E-07	3.42E-05	1.78E-07	1.13E-07	5.69E-06	5.32E-06	7.49E-04	8.01E-07	4.10E-06	1.28E-06	2.39E-06	4.01E-08	1.13E-06	5.61E-06	2.83E-06
Total					**87.00**	**39.67**	**6.00**	**2.79E-04**	**3.07E-04**	**1.76E-02**	**9.14E-05**	**5.83E-05**	**2.92E-03**	**2.73E-03**	**3.85E-01**	**4.12E-04**	**2.11E-03**	**6.59E-04**	**1.23E-03**	**2.06E-05**	**5.83E-04**	**2.88E-03**	**1.46E-03**

Notes

[1] Emission factors obtained from AP-42 Table 11.19-2.2

[2] PM2.5 emission factor was calculated from the available PM10 emission factor using the ratio of 0.15 PM2.5/PM10 as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006.

[3] 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 appropriate control efficiency that best reflects the effectiveness of the controls employed.

[4] There will be 5 piles and associated drop points. However, each pile has a fraction of the total mass, so the total throughput of 500 tph divided by 5 drop points equals 100 tph per each drop point

[5] Conveyor drop point uncontrolled emission factors based on USEPA AP-42 USEPA's Drop Equation in AP-42, Section 13.2.4. Drop equation is as follows:

where,

$$E\left(\frac{lb}{ton}\right) = k \cdot 0.0032 \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}}$$

	PM	PM_{10}	$PM_{2.5}$	
E	0.067	0.032	0.0048	lbs/ton
k	0.74	0.35	0.053	unitless
U	6.95	6.95	6.95	mph
M	0.25	0.25	0.25	%

E = Emission Factor (lbs/ton)
k = Particle Size Multiplier, dimensionless ($PM_{2.5}$= 0.053, PM_{10}= 0.35, PM=0.74)
U = Mean Wind Speed = 6.95 mph (Bayard, NM)
M = Moisture Content = 0.25% Assuming the lowest possible moisture content to be conservative.

[6] The conveyor drop point (aggregate handling) AP-42 emission factors takes into account the following activities: 1) loading of aggregate onto the storage pile; 2) wind erosion associated with the pile; 3) load out of aggregate for shipment or for return to the process.

[7] PM, PM_{10}, and controlled $PM_{2.5}$ emission factors from AP-42, Chapter 11.19.2, Crushed Stone Processing and Pulverized Mineral Processing, Table 11.19.2-2, Screening; uncontrolled $PM_{2.5}$ emission factor calculated from uncontrolled PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006. Total Controlled Emissions include emissions from uncontrolled aggregate handling.

[8] a = the load point conveyor belt; b = the release point of the conveyor belt; c = conveyor

Sample Calculations

PM emissions (lb/hr) = 38 tons/hr of ore x 0.003 lb of PM/ton of ore x (1-0%)= 0.11 lb/hr
Antimony emissions (lb/hr) = 0.11 lb/hr x 0.0003% = 0.0000004 lb/hr

Freeport-McMoRan Chino Mines Company
Revised: February 2026

White House Crushing and Screening Plant
Unit: WH Crush (Crushers)

Basis		
Annual throughput of ore to mill	4380000	US tons/yr
Daily throughput of ore to mill	12000	US tons/day
Hourly throughput of ore to mill	500	US tons/hr
Annual Operating Days	365	days
	12	hours

	Emission Factors (lb/ton)		
	PM	PM10	PM2.5
Primary Crushing (uncontrolled)[1,2,3]	0.0054	0.0024	0.0024
Primary Crushing (controlled)[1,2,3]	0.0012	0.00054	0.00054
Tertiary Crushing (uncontrolled)[1,4]	0.0054	0.0024	0.0024
Tertiary Crushing (controlled)[1]	0.0012	0.00054	0.00010

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%)

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Crusher ID Number	Hourly Throughput (tons/hr)	Operating efficiency	Material handling Size	Controlled or Uncontrolled	Pollutant Emissions lb/hr																
					PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Crush-1	183.68	0.00%	Primary	uncontrolled	0.99	0.44	0.44	3.18E-06	3.50E-06	2.00E-04	1.04E-06	6.64E-07	3.33E-05	3.12E-05	4.39E-03	4.69E-06	2.40E-05	7.52E-06	1.40E-05	2.35E-07	6.64E-06	3.29E-05	1.66E-05
Crush-2	300.16	0.00%	Tertiary	uncontrolled	1.62	0.72	0.72	5.19E-06	5.73E-06	3.28E-04	1.70E-06	1.09E-06	5.45E-05	5.09E-05	7.17E-03	7.67E-06	3.93E-05	1.23E-05	2.29E-05	3.84E-07	1.09E-05	5.37E-05	2.71E-05
Totals					**2.61**	**1.16**	**1.16**	**8.37E-06**	**9.23E-06**	**5.28E-04**	**2.74E-06**	**1.75E-06**	**8.78E-05**	**8.21E-05**	**1.16E-02**	**1.24E-05**	**6.33E-05**	**1.98E-05**	**3.68E-05**	**6.18E-07**	**1.75E-05**	**8.66E-05**	**4.37E-05**

Crusher ID Number	Hourly Throughput (tons/hr)	Operating efficiency	Material handling Size	Controlled or Uncontrolled	Pollutant Emissions ton/yr																
					PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Crush-1	183.68	0.00%	Primary	uncontrolled	2.17	0.97	0.97	6.96E-06	7.67E-06	4.39E-04	2.28E-06	1.46E-06	7.30E-05	6.83E-05	9.61E-03	1.03E-05	5.26E-05	1.65E-05	3.06E-05	5.14E-07	1.46E-05	7.20E-05	3.63E-05
Crush-2	300.16	0.00%	Tertiary	uncontrolled	3.55	1.58	1.58	1.14E-05	1.25E-05	7.17E-04	3.73E-06	2.38E-06	1.19E-04	1.12E-04	1.57E-02	1.68E-05	8.60E-05	2.69E-05	5.01E-05	8.40E-07	2.38E-05	1.18E-04	5.94E-05
Totals					**5.72**	**2.54**	**2.54**	**1.83E-05**	**2.02E-05**	**1.16E-03**	**6.01E-06**	**3.83E-06**	**1.92E-04**	**1.80E-04**	**2.53E-02**	**2.71E-05**	**1.39E-04**	**4.34E-05**	**8.07E-05**	**1.35E-06**	**3.83E-05**	**1.90E-04**	**9.57E-05**

Notes

[1] Emission factors obtained from AP-42 Table 11.19-2.2.

[2] PM Primary emission factors equals PM Tertiary Crushing emission factors.

[3] According to AP-42 Table 11.19.2-2 sub note "n": emission factors for PM_{10} for tertiary crushers can be used as an upper limit for primary or secondary crushing, because there is no

[4] According to AP-42 Table 11.19.2-2 sub note "n": emission factors for PM_{10} for uncontrolled tertiary crushers equals $PM_{2.5}$ for uncontrolled tertiary crushers.

Sample Calculations

PM emissions Crush-1 (lb/hr) = 183.68 tons/hr of ore x 0.0012 lb of PM/ton of ore x (1-0%)= 0.99 lb/hr

Antimony emissions (lb/hr) = 0.99 lb/hr x 0.0003% = 0.0000035 lb/hr

Freeport-McMoRan Chino Mines Company
Revised: February 2026

White House Crushing and Screening Plant
Unit: WH Crush (Crushers)

Basis		
Annual throughput of ore to mill	4380000	US tons/yr
Daily throughput of ore to mill	12000	US tons/day
Hourly throughput of ore to mill	500	US tons/hr
Annual Operating Days	365	days
Daily Operating Hours	12	hours

	Emission Factors (lb/ton)		
	PM	PM10	PM2.5
Fine Screening (uncontrolled)[1,2]	0.300	0.072	0.011
Fine Screening (controlled)[1]	0.0036	0.0022	0.00033
Screening (uncontrolled)[1,2]	0.025	0.0087	0.0013
Screening (controlled)[1]	0.0022	0.00074	0.0005

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Mill (%)

Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
3.20E-04	3.53E-04	2.02E-02	1.05E-04	6.70E-05	3.36E-03	3.14E-03	4.42E-01	4.73E-04	2.42E-03	7.58E-04	1.41E-03	2.37E-05	6.70E-04	3.32E-03	1.67E-03

Screen ID Number	Hourly Throughput (tons/hr)	Operating Efficiency	Material Handling Size	Controlled or Uncontrolled	Pollutant Emissions lb/hr																	
					PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Screen-1	312.48	0.00%	Normal	uncontrolled	7.81	2.72	0.41	2.50E-05	2.76E-05	1.58E-03	8.20E-06	5.23E-06	2.63E-04	2.46E-04	3.46E-02	3.70E-05	1.89E-04	5.92E-05	1.10E-04	1.85E-06	5.23E-05	2.59E-04	1.31E-04
Screen-2	300.16	0.00%	Normal	uncontrolled	7.50	2.61	0.39	2.40E-05	2.65E-05	1.52E-03	7.88E-06	5.03E-06	2.52E-04	2.36E-04	3.32E-02	3.55E-05	1.82E-04	5.69E-05	1.06E-04	1.78E-06	5.03E-05	2.49E-04	1.26E-04
Totals					**15.32**	**5.33**	**0.80**	**4.91E-05**	**5.41E-05**	**3.09E-03**	**1.61E-05**	**1.03E-05**	**5.15E-04**	**4.81E-04**	**6.78E-02**	**7.25E-05**	**3.71E-04**	**1.16E-04**	**2.16E-04**	**3.62E-06**	**1.03E-04**	**5.08E-04**	**2.56E-04**

Screen ID Number	Hourly Throughput (tons/hr)	Operating Efficiency	Material Handling Size	Controlled or Uncontrolled	Pollutant Emissions ton/yr																	
					PM	PM_{10}	$PM_{2.5}$	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
Screen-1	312.48	0.00%	Normal	uncontrolled	17.11	5.95	0.89	5.48E-05	6.04E-05	3.46E-03	1.80E-05	1.15E-05	5.75E-04	5.38E-04	7.57E-02	8.10E-05	4.14E-04	1.30E-04	2.41E-04	4.05E-06	1.15E-04	5.67E-04	2.86E-04
Screen-2	300.16	0.00%	Normal	uncontrolled	16.43	5.72	0.86	5.26E-05	5.81E-05	3.32E-03	1.73E-05	1.10E-05	5.52E-04	5.17E-04	7.27E-02	7.78E-05	3.98E-04	1.25E-04	2.32E-04	3.89E-06	1.10E-04	5.45E-04	2.75E-04
Totals					**33.54**	**11.67**	**1.75**	**1.07E-04**	**1.19E-04**	**6.78E-03**	**3.52E-05**	**2.25E-05**	**1.13E-03**	**1.05E-03**	**1.48E-01**	**1.59E-04**	**8.13E-04**	**2.54E-04**	**4.73E-04**	**7.94E-06**	**2.25E-04**	**1.11E-03**	**5.61E-04**

Notes

[1] Emission factors obtained from AP-42 Table 11.19-2.2

[2] PM2.5 emission factor was calculated from the available PM10 emission factor using the ratio of 0.15 PM2.5/PM10 as recommended in the Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006.

Sample Calculations

PM emissions Screen-1 (lb/hr) = 312.48 tons/hr of ore x 0.3 lb of PM/ton of ore x (1-0%)= 7.81 lb/hr
Antimony emissions (lb/hr) = 7.81 lb/hr x 0.0003% = 0.0000276 lb/hr

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Aggregate and Material Handling Emission Summary

Units: CBM MH Mag, CMB MH CONT-HAN, & CM MH

Uncontrolled Emission Summary																				
Unit Number	PM		PM_{10}		$PM_{2.5}$		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt	
	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	lb/hr	ton/yr
CBM MH Mag	0.038	0.069	0.014	0.026	2.16E-03	3.94E-03	--	--	--	--	--	--	--	--	--	--	5.27E-06	9.61E-06	--	--
CBM MH HAN	0.35	1.53	0.13	0.59	0.020	0.088	1.78E-06	7.81E-06	2.30E-06	1.01E-05	8.57E-05	3.76E-04	2.62E-07	1.15E-06	5.77E-07	2.53E-06	3.18E-05	1.39E-04	1.18E-05	5.17E-05
CM MH	3.97	17.39	1.52	6.66	0.23	1.00	1.61E-05	7.06E-05	2.08E-05	9.12E-05	7.76E-04	3.40E-03	9.07E-07	3.97E-06	5.22E-06	2.29E-05	2.88E-04	1.26E-03	1.07E-04	4.68E-04
Cobre Mine Mag & HAN	0.39	1.60	0.15	0.61	0.022	0.092	1.78E-06	7.81E-06	2.30E-06	1.01E-05	8.57E-05	3.76E-04	2.62E-07	1.15E-06	5.77E-07	2.53E-06	3.71E-05	1.49E-04	1.18E-05	5.17E-05
BORR MH	3.34E-03	0.015	1.28E-03	5.60E-03	1.92E-04	8.40E-04	1.79E-05	5.94E-08	1.75E-08	7.67E-08	6.52E-07	2.86E-06	1.99E-09	8.73E-09	4.39E-09	1.92E-08	2.42E-07	1.06E-06	8.98E-08	3.93E-07
Total	**4.36**	**19.01**	**1.67**	**7.28**	**0.25**	**1.09**	**3.58E-05**	**7.85E-05**	**2.31E-05**	**1.01E-04**	**8.62E-04**	**3.78E-03**	**1.17E-06**	**5.13E-06**	**5.80E-06**	**2.54E-05**	**3.25E-04**	**1.41E-03**	**1.19E-04**	**5.20E-04**

Uncontrolled Emission Summary																				
Unit Number	Copper		Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc		Aluminum	
	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	lb/hr	ton/yr
CBM MH Mag	4.14E-05	7.55E-05	--	--	1.68E-04	3.06E-04	--	--	2.26E-06	4.12E-06	--	--	--	--	--	--	--	--	7.94E-05	1.45E-04
CBM MH HAN	8.58E-04	3.76E-03	7.62E-06	2.33E-05	1.88E-04	8.23E-04	2.04E-06	8.93E-06	5.44E-06	2.38E-05	1.56E-07	6.83E-07	1.23E-05	5.39E-05	2.91E-06	1.27E-05	1.13E-04	4.94E-04	--	--
CM MH	7.76E-03	0.034	7.62E-06	2.33E-05	1.88E-04	8.23E-04	2.04E-06	8.93E-06	5.44E-06	2.38E-05	1.56E-07	6.83E-07	1.13E-04	4.94E-04	1.23E-05	5.39E-05	1.13E-04	4.94E-04	--	--
Cobre Mine Mag & HAN	8.99E-04	3.83E-03	7.62E-06	2.33E-05	3.56E-04	1.13E-03	2.04E-06	8.93E-06	7.70E-06	2.79E-05	1.56E-07	6.83E-07	1.23E-05	5.39E-05	2.91E-06	1.27E-05	1.13E-04	4.94E-04	7.94E-05	1.45E-04
BORR MH	6.53E-06	2.86E-05	7.27E-08	3.19E-07	1.79E-06	7.85E-06	1.94E-08	8.52E-08	5.19E-08	2.27E-07	1.49E-09	6.51E-09	1.08E-06	4.72E-06	1.17E-07	5.14E-07	1.08E-06	4.72E-06	--	--
Total	**8.67E-03**	**0.038**	**1.53E-05**	**4.68E-05**	**5.45E-04**	**1.96E-03**	**4.10E-06**	**1.79E-05**	**1.32E-05**	**5.20E-05**	**3.13E-07**	**1.37E-06**	**1.26E-04**	**5.53E-04**	**1.53E-05**	**6.72E-05**	**2.27E-04**	**9.93E-04**	**7.94E-05**	**1.45E-04**

Controlled Emission Summary																				
Unit Number	PM		PM_{10}		$PM_{2.5}$		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt	
	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	lb/hr	ton/yr
CBM MH Mag	0.038	0.069	0.014	0.026	2.16E-03	3.94E-03	--	--	--	--	--	--	--	--	--	--	5.27E-06	9.61E-06	--	--
CBM MH HAN	0.35	1.53	0.13	0.59	0.020	0.088	1.78E-06	7.81E-06	2.30E-06	1.01E-05	8.57E-05	3.76E-04	2.62E-07	1.15E-06	5.77E-07	2.53E-06	3.18E-05	1.39E-04	1.18E-05	5.17E-05
CM MH	3.97	17.39	1.52	6.66	0.23	1.00	1.61E-05	7.06E-05	2.08E-05	9.12E-05	7.76E-04	3.40E-03	9.07E-07	3.97E-06	5.22E-06	2.29E-05	2.88E-04	1.26E-03	1.07E-04	4.68E-04
Cobre Mine Mag & HAN	0.39	1.60	0.15	0.61	0.022	0.092	1.78E-06	7.81E-06	2.30E-06	1.01E-05	8.57E-05	3.76E-04	2.62E-07	1.15E-06	5.77E-07	2.53E-06	3.71E-05	1.49E-04	1.18E-05	5.17E-05
BORR MH	3.34E-03	0.015	1.28E-03	5.60E-03	1.92E-04	8.40E-04	1.79E-05	5.94E-08	1.75E-08	7.67E-08	6.52E-07	2.86E-06	1.99E-09	8.73E-09	4.39E-09	1.92E-08	2.42E-07	1.06E-06	8.98E-08	3.93E-07
Total	**4.36**	**19.01**	**1.67**	**7.28**	**0.25**	**1.09**	**3.58E-05**	**7.85E-05**	**2.31E-05**	**1.01E-04**	**8.62E-04**	**3.78E-03**	**1.17E-06**	**5.13E-06**	**5.80E-06**	**2.54E-05**	**3.25E-04**	**1.41E-03**	**1.19E-04**	**5.20E-04**

Controlled Emission Summary																				
Unit Number	Copper		Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc		Aluminum	
	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	lb/hr	ton/yr
CBM MH Mag	4.14E-05	7.55E-05	--	--	1.68E-04	3.06E-04	--	--	2.26E-06	4.12E-06	--	--	--	--	--	--	--	--	7.94E-05	1.45E-04
CBM MH HAN	8.58E-04	3.76E-03	7.62E-06	2.33E-05	1.88E-04	8.23E-04	2.04E-06	8.93E-06	5.44E-06	2.38E-05	1.56E-07	6.83E-07	1.23E-05	5.39E-05	2.91E-06	1.27E-05	1.13E-04	4.94E-04	--	--
CM MH	7.76E-03	0.034	7.62E-06	2.33E-05	1.88E-04	8.23E-04	2.04E-06	8.93E-06	5.44E-06	2.38E-05	1.56E-07	6.83E-07	1.13E-04	4.94E-04	1.23E-05	5.39E-05	1.13E-04	4.94E-04	--	--
Cobre Mine Mag & HAN	8.99E-04	3.83E-03	7.62E-06	2.33E-05	3.56E-04	1.13E-03	2.04E-06	8.93E-06	7.70E-06	2.79E-05	1.56E-07	6.83E-07	1.23E-05	5.39E-05	2.91E-06	1.27E-05	1.13E-04	4.94E-04	7.94E-05	1.45E-04
BORR MH	6.53E-06	2.86E-05	7.27E-08	3.19E-07	1.79E-06	7.85E-06	1.94E-08	8.52E-08	5.19E-08	2.27E-07	1.49E-09	6.51E-09	1.08E-06	4.72E-06	1.17E-07	5.14E-07	1.08E-06	4.72E-06	--	--
Total	**8.67E-03**	**0.038**	**1.53E-05**	**4.68E-05**	**5.45E-04**	**1.96E-03**	**4.10E-06**	**1.79E-05**	**1.32E-05**	**5.20E-05**	**3.13E-07**	**1.37E-06**	**1.26E-04**	**5.53E-04**	**1.53E-05**	**6.72E-05**	**2.27E-04**	**9.93E-04**	**7.94E-05**	**1.45E-04**

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Aggregate and Material Handling Inputs
Units: CBM MH & CM MH

Cobre Mine Material Handling - Magnetite Stockpile
Unit CBM MH

Material Handling of Magnetite			
	Current	Desired	Minimum
Maximum Daily Magnetite Throughput (tons):	4,500		1400
Maximum Annual Magnetite Throughput (tons):	1,642,500		
Annual operating days (7 days/week* 52 weeks/year):	365		
Estimated Average Daily operating hours:	10		

Cobre Mine Material Handling Emissions - Mining Hanover Mountain
Unit CBM HAN

Material Handling (Unloading) - Mine Hanover Mountain			
	Current	Desired	Minimum
Daily throughput for Hanover Mountain/Continental Pit (tons)	126,000	300,000	126,000
Annual throughput for Hanover Mountain/Continental Pit (tons)	45,990,000	109,500,000	45,990,000
Annual operating Days (7 days/week x 52 weeks/year)	365	365	365
Daily operating hours	24	24	24

Cobre Mine Material Handling (Unloading) Emissions - Mining Hanover Mountain
Unit CBM MH

Material Handling from Hanover Mountain			
	Current	Desired	Minimum
Maximum daily amount unloading to SWRDF/Humbolt stockpile (tons)	60,000	75,000	75,000
Maximum annual amount unloaded to SWRDF/Humbolt stockpile (tons)	21,900,000	27,375,000	27,375,000
Annual operating hours:	365	365	365
Daily operating hours	24	24	24

Chino Mine Material Handling Emissions
Unit CM MH

Chino Mine Material Handling			
	Current	Desired	Minimum
Maximum daily amount handled at Pit and unloaded at Stockpiles (tons	1,000,000	1,000,000	1,000,000
Maximum annual amount handled at Pit and unloaded at Stockpiles (tons	365,000,000	365,000,000	365,000,000
Maximum daily amount unloaded to 3A leach stockpile (tons	0	0	100,000
Maximum annual amount unloaded to 3A leach stockpile (tons	0	0	36,500,000
Maximum daily amount unloaded to Cloud 9 leach stockpile (tons	0	0	100,000
Maximum annual amount unloaded Cloud 9 leach stockpile (tons	0	0	36,500,000
Maximum daily amount unloaded to Kessel leach stockpile (tons	0	0	160,000
Maximum annual amount unloaded Kessel leach stockpile (tons	0	0	58,400,000
Maximum daily amount unloaded to North Lampbright leach stockpile (tons	0	160,000	160,000
Maximum annual amount unloaded to North Lampbright leach stockpile (tons	0	58,400,000	58,400,000
Maximum daily amount unloaded to Lampbright leach stockpile (tons	350,000	0	190,000
Maximum annual amount unloaded to Lampbright leach stockpile (tons	127,750,000	0	69,350,000
Maximum daily amount unloaded to South waste stockpile (tons	435,000	485,000	300,000
Maximum annual amount unloaded to South waste stockpile (tons	158,775,000	177,025,000	109,500,000
Maximum daily amount unloaded to West waste stockpile (tons	100,000	250,000	100,000
Maximum annual amount unloaded to West waste stockpile (tons	36,500,000	91,250,000	36,500,000
Maximum daily amount handled to Crusher/Storage Stockpile (tons	0	170,000	170,000
Maximum annual amount unloaded to Crusher/Storage Stockpile (tons	0	62,050,000	62,050,000
Maximum daily amount handled to Whitehouse Stockpile (tons	0	0	0
Maximum annual amount unloaded to Whitehouse Stockpile (tons	0	0	0
Annual operating days:	365	365	365
Daily operating hours:	24	24	24

Chino Mine Stockpiles
Unit IOS

Wind Speed:	45	mph

Freeport-McMoRan Chino Mines Company
Revised: June 2022

Aggregate and Material Handling - Cobre Haul Road Borrow Pit
Unit: Cobre Haul Road Borrow Pit

	Basis		
Maximum daily amount handled:	959	tons	Based on forecasted maximum production rates
Maximum annual amount handled:	350,000	tons	
Maximum daily amount unloaded to repair Haul roads:	959	tons	
Maximum annual amount unloaded to repair Haul roads:	350,000	tons	
Annual operating days:	365	(7 days/week x 52 weeks/year)	
Daily operating hours:	24		

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Waste Rock (%)[1]

Composite Assay of Samples [mass fraction]	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
	3.53E-04	3.69E-04	1.95E-02	5.32E-05	1.32E-04	3.96E-03	1.70E-03	6.95E-02	2.18E-03	5.36E-02	4.71E-04	1.15E-03	2.89E-05	4.22E-04	3.52E-03	3.22E-02

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Leach (%)[1]

Composite Assay of Samples [mass fraction]	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
	4.06E-04	5.24E-04	9.65E-03	5.97E-05	1.22E-04	7.25E-03	2.69E-03	1.95E-01	1.37E-03	2.33E-02	5.82E-04	1.55E-03	4.45E-05	8.30E-04	2.40E-03	1.82E-02

Criteria Pollutant	Emission Factors (lb/ton)			
	PM	PM10	PM2.5	Units
Truck Unloading - Fragmented Stone [2]	4.18E-05	1.60E-05	2.40E-06	lb/ton

Emissions Activity	Maximum Mine Material Throughput[3]			PM Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
	tons/hr	tons/day	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Loading - Cobre Haul Road Borrow Pit	40	959	350,000	1.67E-03	7.32E-03	6.39E-04	2.80E-03	9.59E-05	4.20E-04
Unloading - Haul Road Repairs	40	959	350,000	1.67E-03	7.32E-03	6.39E-04	2.80E-03	9.59E-05	4.20E-04
TOTAL				**3.34E-03**	**1.46E-02**	**1.28E-03**	**5.60E-03**	**1.92E-04**	**8.40E-04**

FEDERAL HAP/NM TOXIC AIR POLLUTANT EMISSIONS ESTIMATION

Emissions Activity	TAP Emissions[4]															
	Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt		Copper	
	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
Loading - Cobre Haul Road Borrow Pit	6.78E-09	2.97E-08	8.75E-09	3.83E-08	3.26E-07	1.43E-06	9.97E-10	4.37E-09	2.20E-09	9.62E-09	1.21E-07	5.30E-07	4.49E-08	1.97E-07	3.26E-06	1.43E-05
Unloading - Haul Road Repairs	6.78E-09	2.97E-08	8.75E-09	3.83E-08	3.26E-07	1.43E-06	9.97E-10	4.37E-09	2.20E-09	9.62E-09	1.21E-07	5.30E-07	4.49E-08	1.97E-07	3.26E-06	1.43E-05
TOTAL	**1.36E-08**	**5.94E-08**	**1.75E-08**	**7.67E-08**	**6.52E-07**	**2.86E-06**	**1.99E-09**	**8.73E-09**	**4.39E-09**	**1.92E-08**	**2.42E-07**	**1.06E-06**	**8.98E-08**	**3.93E-07**	**6.53E-06**	**2.86E-05**

Emissions Activity	TAP Emissions[4]															
	Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
	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
Loading - Cobre Haul Road Borrow Pit	3.64E-08	1.59E-07	8.96E-07	3.92E-06	9.72E-09	4.26E-08	2.60E-08	1.14E-07	7.44E-10	3.26E-09	1.39E-08	6.08E-08	5.87E-08	2.57E-07	5.38E-07	2.36E-06
Unloading - Haul Road Repairs	3.64E-08	1.59E-07	8.96E-07	3.92E-06	9.72E-09	4.26E-08	2.60E-08	1.14E-07	7.44E-10	3.26E-09	1.39E-08	6.08E-08	5.87E-08	2.57E-07	5.38E-07	2.36E-06
TOTAL	**7.27E-08**	**3.19E-07**	**1.79E-06**	**7.85E-06**	**1.94E-08**	**8.52E-08**	**5.19E-08**	**2.27E-07**	**1.49E-09**	**6.51E-09**	**2.77E-08**	**1.22E-07**	**1.17E-07**	**5.14E-07**	**1.08E-06**	**4.72E-06**

Notes:

(1) Process parameters provided by Tyler Solem Cobre Haul Road Blasting emails, 11/15/2021. Metal content data from Chino TRI Assay data provided by Clyde Durham 1/28/11 email to R. Felty (ARCADIS-US). The mine plan is constantly in flux, and the forecast tonnages can change month to month. Daily overall tonnage and daily Lampbright tonnages fluctuate the most. Therefore, daily tonnages are slightly increased to allow for a buffer and are not directly calculated from annual tonnages and operating schedule.

(2) The emission factors for material handling are based on AP-42, Chapter 11.19.2, Table 11.19.2-2 Crushed Stone Processing and Pulverized Mineral Processing (August 2004) for Truck Unloading - Fragmented Stone. The basis for these emission factors is the PM_{10} emission factor for truck unloading of fragmented stone in Table 11.19.2-2. This table provides a PM_{10} emission factor, but does not provide $PM_{2.5}$ or PM emission factors. A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4, *Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors* - November 2006. An uncontrolled PM emission factor was calculated from the available uncontrolled PM_{10} emission factor using the PM/PM_{10} ratio calculated from the following uncontrolled PM and PM_{10} emission factors in Table 11.19.2-2: Tertiary Crushing (0.0054/0.0024 = 2.25); Fines Crushing (0.0390/0.0150 = 2.60); Screening (0.025/0.0087 = 2.87; and Conveyor Transfer Point (0.0030/0.00110 = 2.73). See sample calculation below.

(3)Maximum Material Throughput is based on maximum annual throughput provided by Freeport's estimated material production

(4) TAP emissions for waste rock and leach rock calculated by multiplying the PM Emissions by the TAP content (%) in waste rock or in leach rock, respectively. Material handling at Hanover will occur with waste rock and leach rock, so conservative TAPs emissions for material handling are based on the higher TAP % available for waste rock or leach rock. For example, antimony emissions from material handling are based on antimony % in leach rock and barium emissions from material handling in the pit are based on barium % in waste rock.

Sample Calculations:

Unloading - Haul Road Repairs:

PM Emission Factor (lb/ton) = [2.25 tertiary crushing + 2.60 fines crushing + 2.87 screening + 2.73 conveyor transfer point]/4 x 0.000016 lb/ton PM-10 emission factor =0.000042 lb/ton

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Aggregate and Material Handling - Magnetite Stockpile
Unit: CBM MH Mag

Basis		
Maximum daily amount from material handling:	4,500	tons
Maximum annual amount from material handling:	1,642,500	tons
Annual operating days:	365	(7 days/week x 52 weeks/year)
Estimated Average Daily operating hours:	10	

Note: operating basis information provided by Bruce Taylor, Cobre Operations Manager

Composite Assay of Samples [mass fraction]	Measured Magnetite Analysis[1]				
	Copper	Chromium	Nickel	Aluminum	Manganese
Magnetite	0.0011	0.00014	0.000060	0.0021	0.0045

Criteria Pollutant	Emission Factors (lb/ton)			
	PM	PM10	PM2.5	Units
Truck Unloading - Fragmented Stone [2]	4.18E-05	1.60E-05	2.40E-06	lb/ton

Emissions Activity [3]	Maximum Mine Material Throughput[4]			PM Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
	tons/hr	tons/day	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Unloading - Magnetite Pit to Storage	450	4,500	1,642,500	1.88E-02	3.43E-02	7.20E-03	1.31E-02	1.08E-03	1.97E-03
Loading - Semi-Trucks	450	4,500	1,642,500	1.88E-02	3.43E-02	7.20E-03	1.31E-02	1.08E-03	1.97E-03
TOTAL				**0.038**	**0.069**	**0.014**	**0.026**	**0.002**	**0.004**

FEDERAL HAP/NM TOXIC AIR POLLUTANT EMISSIONS ESTIMATION

Emissions Activity	TAP Emissions (as % PM)									
	Copper		Chromium		Nickel		Aluminum		Manganese	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
Magnetite Pit to Storage (Unloading)	2.07E-05	3.78E-05	2.63E-06	4.81E-06	1.13E-06	2.06E-06	3.97E-05	7.24E-05	8.39E-05	1.53E-04
Semi-Truck Loading	2.07E-05	3.78E-05	2.63E-06	4.81E-06	1.13E-06	2.06E-06	3.97E-05	7.24E-05	8.39E-05	1.53E-04
TOTAL	**4.14E-05**	**7.55E-05**	**5.27E-06**	**9.61E-06**	**2.26E-06**	**4.12E-06**	**7.94E-05**	**1.45E-04**	**1.68E-04**	**3.06E-04**

Notes:

(1). Mass fraction is based on the average content of the constituent within magnetite. Data obtained from Typical Magnetite Analysis, Phelps Dodge mining Company, Cobre Mining Division.

(2) The emission factors for material handling are based on AP-42, Chapter 11.19.2, Table 11.19.2-2 Crushed Stone Processing and Pulverized Mineral Processing (August 2004) for Truck Unloading - Fragmented Stone & Truck Loading - Conveyor crushed stone. The basis for these emission factors is the PM_{10} emission factor for truck unloading of fragmented stone & Truck Loading - Conveyor, crushed stone in Table 11.19.2-2. This table provides a PM_{10} emission factor, but does not provide $PM_{2.5}$ or PM emission factors. A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4, *Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors* - November 2006. An uncontrolled PM emission factor was calculated from the available uncontrolled PM_{10} emission factor using the PM/PM_{10} ratio calculated from the following uncontrolled PM and PM_{10} emission factors in Table 11.19.2-2: Tertiary Crushing (0.0054/0.0024 = 2.25); Fines Crushing (0.0390/0.0150 = 2.60); Screening (0.025/0.0087 = 2.87; and Conveyor Transfer Point 0.0030/0.00110 = 2.73). See sample calculation below.

(3) Material handling in the magnetite pit consists of one handling step: front-end loader pickup/loading into haul truck. Material handling at the loadout consists of two handling steps: haul truck dumping at load out (one step) and front-end loader pickup/loading into rail car or over-the-road truck (one step) for a total of two handling steps.

(4) Provided by Cobre Mining Company, Senior Environmental Engineer. Rail/truck loading occurs during daylight hours, 7 days/week. Average annual daylight hours estimated to be 10 hours/day over the course of a year.

Sample Calculations:

PM Emission Factor (lb/ton) = [2.25 tertiary crushing + 2.60 fines crushing + 2.87 screening + 2.73 conveyor transfer point]/4 x 0.000016 lb/ton PM-10 emission factor = 0.0000418 lb/ton

Semi-Truck Loadout PM Emissions (lb/hr) = 450 tons/hr x 0.000016 lb/ton x 0.0188 lb/hr

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Aggregate and Material Handling - Mining Hanover Mountain
Unit: CBM MH

	Basis		
Maximum daily amount loaded at Hanover Mountain/Continental:	126,000	tons	Based on forecasted maximum production rates
Maximum annual amount loaded at Hanover Mountain/Continental:	45,990,000	tons	
Maximum daily amount unloaded to SWRDF/Humbolt stockpile:	75,000	tons	
Maximum annual amount unloaded to SWRDF/Humbolt stockpile:	27,375,000	tons	
Annual operating days:	365	(7 days/week x 52 weeks/year)	
Daily operating hours:	24		

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Waste Rock (%)[1]

Composite Assay of Samples [mass fraction]	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
	3.53E-04	3.69E-04	1.95E-02	5.32E-05	1.32E-04	3.96E-03	1.70E-03	6.95E-02	2.18E-03	5.36E-02	4.71E-04	1.15E-03	2.89E-05	4.22E-04	3.52E-03	3.22E-02

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Leach (%)[1]

Composite Assay of Samples [mass fraction]	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
	4.06E-04	5.24E-04	9.65E-03	5.97E-05	1.22E-04	7.25E-03	2.69E-03	1.95E-01	1.37E-03	2.33E-02	5.82E-04	1.55E-03	4.45E-05	8.30E-04	2.40E-03	1.82E-02

Criteria Pollutant	Emission Factors (lb/ton)			
	PM	PM_{10}	$PM_{2.5}$	Units
Truck Unloading - Fragmented Stone [2]	4.18E-05	1.60E-05	2.40E-06	lb/ton

Emissions Activity	Maximum Mine Material Throughput[3]			PM Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
	tons/hr	tons/day	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Loading - Hanover/Continental	5,250	126,000	45,990,000	0.22	0.96	0.084	0.37	0.013	0.06
Unloading - SWRDF/Humbolt Stockpile	3,125	75,000	27,375,000	0.13	0.57	0.050	0.22	0.008	0.033
TOTAL				**0.35**	**1.53**	**0.13**	**0.59**	**0.02**	**0.09**

FEDERAL HAP/NM TOXIC AIR POLLUTANT EMISSIONS ESTIMATION

Emissions Activity	TAP Emissions[4]															
	Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt		Copper	
	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
Loading - Hanover/Continental	8.91E-07	3.90E-06	1.15E-06	5.04E-06	4.29E-05	1.88E-04	1.31E-07	5.74E-07	2.89E-07	1.26E-06	1.59E-05	6.97E-05	5.90E-06	2.58E-05	4.29E-04	1.88E-03
Unloading - SWRDF/Humbolt Stockpile	8.91E-07	3.90E-06	1.15E-06	5.04E-06	4.29E-05	1.88E-04	1.31E-07	5.74E-07	2.89E-07	1.26E-06	1.59E-05	6.97E-05	5.90E-06	2.58E-05	4.29E-04	1.88E-03
TOTAL	**1.78E-06**	**7.81E-06**	**2.30E-06**	**1.01E-05**	**8.57E-05**	**3.76E-04**	**2.62E-07**	**1.15E-06**	**5.77E-07**	**2.53E-06**	**3.18E-05**	**1.39E-04**	**1.18E-05**	**5.17E-05**	**8.58E-04**	**3.76E-03**

Emissions Activity	TAP Emissions[4]															
	Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
	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
Loading - Hanover/Continental	4.78E-06	2.09E-05	1.18E-04	5.16E-04	1.28E-06	5.60E-06	3.41E-06	1.49E-05	9.77E-08	4.28E-07	1.82E-06	7.98E-06	7.72E-06	3.38E-05	7.07E-05	3.10E-04
Unloading - SWRDF/Humbolt Stockpile	2.84E-06	2.32E-06	7.01E-05	3.07E-04	7.60E-07	3.33E-06	2.03E-06	8.89E-06	5.82E-08	2.55E-07	1.08E-06	4.75E-06	4.59E-06	2.01E-05	4.21E-05	1.84E-04
TOTAL	**7.62E-06**	**2.33E-05**	**1.88E-04**	**8.23E-04**	**2.04E-06**	**8.93E-06**	**5.44E-06**	**2.38E-05**	**1.56E-07**	**6.83E-07**	**2.91E-06**	**1.27E-05**	**1.23E-05**	**5.39E-05**	**1.13E-04**	**4.94E-04**

Notes:

(1) Process parameters provided by E.P. Bock and Mikel Lindley emails, Chino Mine Engineering, 1/25/11, 3/9/11, and 3/18/2011. Metal content data from Chino TRI Assay data provided by Ellen Silk. The mine plan is constantly in flux, and the forecast tonnages can change month to month. Daily overall tonnage and daily Lampbright tonnages fluctuate the most. Therefore, daily tonnages are slightly increased to allow for a buffer and are not directly calculated from annual tonnages and operating

(2) The emission factors for material handling are based on AP-42, Chapter 11.19.2, Table 11.19.2-2 Crushed Stone Processing and Pulverized Mineral Processing (August 2004) for Truck Unloading - Fragmented Stone. The basis for these emission factors is the PM_{10} emission factor for truck unloading of fragmented stone in Table 11.19.2-2. This table provides a PM_{10} emission factor, but does not provide $PM_{2.5}$ or PM emission factors. A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4, *Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors* - November 2006. An uncontrolled PM emission factor was calculated from the available uncontrolled PM_{10} emission factor using the PM/PM_{10} ratio calculated from the following uncontrolled PM and PM_{10} emission factors in Table 11.19.2-2: Tertiary Crushing (0.0054/0.0024 = 2.25); Fines Crushing (0.0390/0.0150 = 2.60); Screening (0.025/0.0087 = 2.87; and Conveyor Transfer Point (0.0030/0.00110 = 2.73). See sample calculation below.

(3)Maximum Material Throughput is based on maximum annual throughput provided by Freeport

(4) TAP emissions for waste rock and leach rock calculated by multiplying the PM Emissions by the TAP content (%) in waste rock or in leach rock, respectively. Material handling at Hanover will occur with waste rock and leach rock, so conservative TAPs emissions for material handling are based on the higher TAP % available for waste rock or leach rock. For example, antimony emissions from material handling are based on antimony % in leach rock and barium emissions from material handling in the pit are based on barium % in waste rock.

Sample Calculations:

Unloading - South waste stockpile:

PM Emission Factor (lb/ton) = [2.25 tertiary crushing + 2.60 fines crushing + 2.87 screening + 2.73 conveyor transfer point]/4 x 0.000016 lb/ton PM-10 emission factor =0.000042 lb/ton

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Aggregate and Material Handling - Chino Mine Material Handling

Unit: CM MH

	Basis	
Maximum daily amount handled at Pit and unloaded at Stockpiles:	1,000,000	tons
Maximum annual amount handled at Pit and unloaded at Stockpiles:	365,000,000	tons
Maximum daily amount unloaded to 3A stockpile:	100,000	tons
Maximum annual amount unloaded to 3A stockpile:	36,500,000	tons
Maximum daily amount unloaded to Cloud 9 stockpile:	100,000	tons
Maximum annual amount unloaded Cloud 9 stockpile:	36,500,000	tons
Maximum daily amount unloaded to Kessel stockpile:	160,000	tons
Maximum annual amount unloaded Kessel stockpile:	58,400,000	tons
Maximum daily amount unloaded to North Lampbright leach stockpile:	160,000	tons
Maximum annual amount unloaded to North Lampbright leach stockpile:	58,400,000	tons
Maximum daily amount unloaded to Lampbright leach stockpile:	190,000	tons
Maximum annual amount unloaded to Lampbright leach stockpile:	69,350,000	tons
Maximum daily amount unloaded to South waste stockpile:	300,000	tons
Maximum annual amount unloaded to South waste stockpile:	109,500,000	tons
Maximum daily amount unloaded to West waste stockpile:	100,000	tons
Maximum annual amount unloaded to West waste stockpile:	36,500,000	tons
Maximum daily amount handled to Crusher/Storage Stockpile	170,000	tons
Maximum annual amount unloaded to Crusher/Storage Stockpile	62,050,000	tons
Maximum daily amount handled to Whitehouse Stockpile:	0	tons
Maximum annual amount unloaded to Whitehouse Stockpile:	0	tons
Annual operating days:	365	(7 days/week x 52 weeks/year)
Daily operating hours:	24	

Maximum daily amount handled to Whitehouse Stockpile (tons)

Maximum annual amount unloaded to Whitehouse Stockpile (tons)

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Waste Rock (%)[1]

Composite Assay of Samples [mass fraction]	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
	3.53E-04	3.69E-04	1.95E-02	5.32E-05	1.32E-04	3.96E-03	1.70E-03	6.95E-02	2.18E-03	5.36E-02	4.71E-04	1.15E-03	2.89E-05	4.22E-04	3.52E-03	3.22E-02

Federal Hazardous Air Pollutants and New Mexico Toxic Air Pollutants Content of Ore for Leach (%)[1]

Composite Assay of Samples [mass fraction]	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Molybdenum	Nickel	Silver	Thallium	Vanadium	Zinc
	4.06E-04	5.24E-04	9.65E-03	5.97E-05	1.22E-04	7.25E-03	2.69E-03	1.95E-01	1.37E-03	2.33E-02	5.82E-04	1.55E-03	4.45E-05	8.30E-04	2.40E-03	1.82E-02

Criteria Pollutant	Emission Factors			
	PM	PM10	PM2.5	Units
Truck Unloading - Fragmented Stone [2]	4.18E-05	1.60E-05	2.40E-06	lb/ton

Emissions Activity	Maximum Mine Material Throughput [3]			PM Emissions		PM_{10} Emissions		$PM_{2.5}$ Emissions	
	tons/hr	tons/day	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
Loading - Santa Rita Pit	41,667	1,000,000	365,000,000	1.74	7.63	0.67	2.92	0.10	0.44
Unloading - 3A Stockpile	4,167	100,000	36,500,000	0.17	0.76	0.07	0.29	0.010	0.04
Unloading - Cloud 9 Stockpile	4,167	100,000	36,500,000	0.17	0.76	0.07	0.29	0.010	0.04
Unloading - Kessel stockpile	6,667	160,000	58,400,000	0.28	1.22	0.11	0.47	0.016	0.07
Unloading - North Lampbright Leach Stockpile	6,667	160,000	58,400,000	0.28	1.22	0.11	0.47	0.016	0.07
Unloading - Lampbright Leach Stockpile	7,917	190,000	69,350,000	0.33	1.45	0.13	0.55	0.019	0.08
Unloading - South Waste + Leach Stockpile	12,500	300,000	109,500,000	0.52	2.29	0.20	0.88	0.03	0.13
Unloading - West Waste Stockpile	4,167	100,000	36,500,000	0.17	0.76	0.07	0.29	0.010	0.04
Unloading - Crusher/Storage Stockpile	7,083	170,000	62,050,000	0.30	1.30	0.11	0.50	0.02	0.07
TOTAL				**3.97**	**17.39**	**1.52**	**6.66**	**0.23**	**1.00**

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Aggregate and Material Handling - Chino Mine Material Handling
Unit: CM MH

FEDERAL HAP/NM TOXIC AIR POLLUTANT EMISSIONS ESTIMATION

Emissions Activity	TAP Emissions[4]															
	Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Cobalt		Copper	
	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
Material Handling at Santa Rita Pit	7.07E-06	3.10E-05	9.13E-06	4.00E-05	3.40E-04	1.49E-03	3.98E-07	1.74E-06	2.29E-06	1.00E-05	1.26E-04	5.53E-04	4.68E-05	2.05E-04	3.40E-03	1.49E-02
Unloading - 3A Stockpile	7.07E-07	3.10E-06	9.13E-07	4.00E-06	3.40E-05	1.49E-04	3.98E-08	1.74E-07	2.29E-07	1.00E-06	1.26E-05	5.53E-05	4.68E-06	2.05E-05	3.40E-04	1.49E-03
Unloading - Cloud 9 Stockpile	7.07E-07	3.10E-06	9.13E-07	4.00E-06	3.40E-05	1.49E-04	3.98E-08	1.74E-07	2.29E-07	1.00E-06	1.26E-05	5.53E-05	4.68E-06	2.05E-05	3.40E-04	1.49E-03
Unloading - Kessel stockpile	1.13E-06	4.96E-06	1.46E-06	6.40E-06	5.44E-05	2.38E-04	6.37E-08	2.79E-07	3.67E-07	1.61E-06	2.02E-05	8.85E-05	7.49E-06	3.28E-05	5.45E-04	2.39E-03
Unloading - North Lampbright Leach Stockpile	1.13E-06	4.96E-06	1.46E-06	6.40E-06	5.44E-05	2.38E-04	6.37E-08	2.79E-07	3.67E-07	1.61E-06	2.02E-05	8.85E-05	7.49E-06	3.28E-05	5.45E-04	2.39E-03
Unloading - Lampbright Leach Stockpile	1.34E-06	5.89E-06	1.73E-06	7.60E-06	6.46E-05	2.83E-04	7.56E-08	3.31E-07	4.35E-07	1.91E-06	2.40E-05	1.05E-04	8.90E-06	3.90E-05	6.47E-04	2.83E-03
Unloading - South Waste + Leach Stockpile	2.12E-06	9.29E-06	2.74E-06	1.20E-05	1.02E-04	4.47E-04	1.19E-07	5.23E-07	6.87E-07	3.01E-06	3.79E-05	1.66E-04	1.40E-05	6.15E-05	1.02E-03	4.47E-03
Unloading - West Waste Stockpile	7.07E-07	3.10E-06	9.13E-07	4.00E-06	3.40E-05	1.49E-04	3.98E-08	1.74E-07	2.29E-07	1.00E-06	1.26E-05	5.53E-05	4.68E-06	2.05E-05	3.40E-04	1.49E-03
Unloading - Crusher/Storage Stockpile	1.20E-06	5.27E-06	1.55E-06	6.80E-06	5.78E-05	2.53E-04	6.76E-08	2.96E-07	3.89E-07	1.71E-06	2.15E-05	9.40E-05	7.96E-06	3.49E-05	5.79E-04	2.54E-03
TOTAL	**1.61E-05**	**7.06E-05**	**2.08E-05**	**9.12E-05**	**7.76E-04**	**3.40E-03**	**9.07E-07**	**3.97E-06**	**5.22E-06**	**2.29E-05**	**2.88E-04**	**1.26E-03**	**1.07E-04**	**4.68E-04**	**7.76E-03**	**3.40E-02**

Emissions Activity	TAP Emissions[4]															
	Lead		Manganese		Molybdenum		Nickel		Silver		Thallium		Vanadium		Zinc	
	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
Material Handling at Santa Rita Pit	3.79E-05	1.66E-04	9.34E-04	4.09E-03	3.88E-06	1.70E-05	2.71E-05	1.19E-04	7.76E-07	3.40E-06	5.54E-06	2.43E-05	6.12E-05	2.68E-04	5.61E-04	2.46E-03
Unloading - 3A Stockpile	3.79E-06	1.66E-05	9.34E-05	4.09E-04	3.88E-07	1.70E-06	2.71E-06	1.19E-05	7.76E-08	3.40E-07	5.54E-07	2.43E-06	6.12E-06	2.68E-05	5.61E-05	2.46E-04
Unloading - Cloud 9 Stockpile	3.79E-06	1.66E-05	9.34E-05	4.09E-04	3.88E-07	1.70E-06	2.71E-06	1.19E-05	7.76E-08	3.40E-07	5.54E-07	2.43E-06	6.12E-06	2.68E-05	5.61E-05	2.46E-04
Unloading - Kessel stockpile	6.07E-06	2.66E-05	1.49E-04	6.55E-04	6.21E-07	2.72E-06	4.33E-06	1.90E-05	1.24E-07	5.43E-07	8.86E-07	3.88E-06	9.80E-06	4.29E-05	8.98E-05	3.93E-04
Unloading - North Lampbright Leach Stockpile	6.07E-06	2.66E-05	1.49E-04	6.55E-04	6.21E-07	2.72E-06	4.33E-06	1.90E-05	1.24E-07	5.43E-07	8.86E-07	3.88E-06	9.80E-06	4.29E-05	8.98E-05	3.93E-04
Unloading - Lampbright Leach Stockpile	7.21E-06	3.16E-05	1.78E-04	7.78E-04	7.37E-07	3.23E-06	5.14E-06	2.25E-05	1.47E-07	6.45E-07	1.05E-06	4.61E-06	1.16E-05	5.10E-05	1.07E-04	4.67E-04
Unloading - South Waste + Leach Stockpile	1.14E-05	4.98E-05	2.80E-04	1.23E-03	1.16E-06	5.10E-06	8.12E-06	3.56E-05	2.33E-07	1.02E-06	1.66E-06	7.28E-06	1.84E-05	8.05E-05	1.68E-04	7.38E-04
Unloading - West Waste Stockpile	3.79E-06	1.66E-05	9.34E-05	4.09E-04	3.88E-07	1.70E-06	2.71E-06	1.19E-05	7.76E-08	3.40E-07	5.54E-07	2.43E-06	6.12E-06	2.68E-05	5.61E-05	2.46E-04
Unloading - Crusher/Storage Stockpile	6.45E-06	2.82E-05	1.59E-04	6.96E-04	6.60E-07	2.89E-06	4.60E-06	2.02E-05	1.32E-07	5.77E-07	9.41E-07	4.12E-06	1.04E-05	4.56E-05	9.54E-05	4.18E-04
TOTAL	**8.65E-05**	**3.79E-04**	**2.13E-03**	**9.33E-03**	**8.85E-06**	**3.88E-05**	**6.17E-05**	**2.70E-04**	**1.77E-06**	**7.74E-06**	**1.26E-05**	**5.53E-05**	**1.40E-04**	**6.12E-04**	**1.28E-03**	**5.61E-03**

Notes:

(1) Process parameters provided by E.P. Bock and Mikel Lindley emails, Chino Mine Engineering, 1/25/11, 3/9/11, and 3/18/2011. Metal content data from Chino TRI Assay data provided by Clyde Durham 1/28/11 email to R. Felty (ARCADIS-US). The mine plan is constantly in flux, and the forecast tonnages can change month to month. Daily overall tonnage and daily Lampbright tonnages fluctuate the most. Therefore, daily tonnages are slightly increased to allow for a buffer and are not directly calculated from annual tonnages and operating schedule.

(2) The emission factors for material handling are based on AP-42, Chapter 11.19.2, Table 11.19.2-2 Crushed Stone Processing and Pulverized Mineral Processing (August 2004) for Truck Unloading - Fragmented Stone. The basis for these emission factors is the PM_{10} emission factor for truck unloading of fragmented stone in Table 11.19.2-2. This table provides a PM_{10} emission factor, but does not provide $PM_{2.5}$ or PM emission factors. A $PM_{2.5}$ emission factor was calculated from the available PM_{10} emission factor using the ratio of 0.15 $PM_{2.5}/PM_{10}$ as recommended in the Background Document for AP-42, Chapter 13.2.4, *Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors* - November 2006. An uncontrolled PM emission factor was calculated from the available uncontrolled PM_{10} emission factor using the PM/PM_{10} ratio calculated from the following uncontrolled PM and PM_{10} emission factors in Table 11.19.2-2: Tertiary Crushing (0.0054/0.0024 = 2.25); Fines Crushing (0.0390/0.0150 = 2.60); Screening (0.025/0.0087 = 2.87; and Conveyor Transfer Point (0.0030/0.00110 = 2.73). See sample calculation below.

(3) Maximum Material Throughput is based on maximum annual throughput provided by Freeport

(4) TAP emissions for waste rock and leach rock calculated by multiplying the PM Emissions by the TAP content (%) in waste rock or in leach rock, respectively. Material handling at Hanover will occur with waste rock and leach rock, so conservative TAPs emissions for material handling are based on the higher TAP % available for waste rock or leach rock. For example, antimony emissions from material handling are based on antimony % in leach rock and barium emissions from material handling in the pit are based on barium % in waste rock.

Sample Calculations:

Unloading to Stockpiles:

PM Emission Factor (lb/ton) = [2.25 tertiary crushing + 2.60 fines crushing + 2.87 screening + 2.73 conveyor transfer point]/4 x 0.000016 lb/ton PM-10 emission factor =0.000042 lb/ton

PM-10 Emissions Handling (lb/hr) = 41667 tons/hr x 0.000016 lb/ton = 0.667 lb/hr

PM-10 Emissions Handling (tpy) = 109500000 tons/yr x 0.000016 lb/ton x 1.0 ton/2,000 lbs = 2.29 tpy

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Haul Road Emission Summary

Units: CBM HR & CM HR

Uncontrolled Emissions													
Road Number	Road Name	Total Emissions						Emissions per Volume Source					
		$PM_{2.5}$		PM_{10}		PM		$PM_{2.5}$		PM_{10}		PM	
		tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr
PIT	Santa Rita - In Pit Roads	537	150.11	5,368	1501.07	21,954	6139.45	--	--	--	--	--	--
2	Maintenance Entrance Road	48.65	2.83	486.54	28.34	1909.01	111.19	2.43	0.14	24.33	1.42	95.45	5.56
3	Cobre Haul Road	140.04	26.11	1400.44	261.10	5494.88	1024.47	1.32	0.25	13.21	2.46	51.84	9.66
4	SWRDF Road	43.21	9.15	432.06	91.54	1695.27	359.17	1.03	0.22	10.29	2.18	40.36	8.55
5 North*	Hanover Mountain Road	10.33	2.92	103.26	29.17	405.17	114.45	0.69	0.19	6.88	1.94	27.01	7.63
5 South*	Muffler	120.06	6.99	1200.62	69.93	4710.84	274.38	10.01	0.58	100.05	5.83	392.57	22.87
6	South Stockpile Road	246.75	14.37	2467.51	143.72	9681.69	563.91	6.67	0.39	66.69	3.88	261.67	15.24
7	3A / 9 Dam	446.85	26.03	4468.51	260.27	17532.97	1021.20	7.70	0.45	77.04	4.49	302.29	17.61
8	West Stockpile - South Segment	132.21	9.34	1322.10	93.37	5187.51	366.35	3.22	0.23	32.25	2.28	126.52	8.94
9	West Stockpile - North Segment	124.45	8.79	1244.51	87.89	4883.03	344.85	3.28	0.23	32.75	2.31	128.50	9.07
11	Café to Lampbright	137.10	12.32	1370.98	123.23	5379.28	483.50	4.57	0.41	45.70	4.11	179.31	16.12
13	Upper Lampbright	344.07	28.27	3440.67	282.75	13500.05	1109.40	4.78	0.39	47.79	3.93	187.50	15.41
14	Lower Lampbright	83.12	6.83	831.17	68.30	3261.25	268.00	3.78	0.31	37.78	3.10	148.24	12.18
15	Crusher / Stockpiles / Rehandle	43.05	4.86	430.45	48.64	1688.96	190.84	1.96	0.22	19.57	2.21	76.77	8.67
16	Roundabout	18.85	1.10	188.50	10.98	739.59	43.08	6.28	0.37	62.83	3.66	246.53	14.36
17	Princess Ramp	15.02	4.24	150.15	42.42	589.15	166.43	0.60	0.17	6.01	1.70	23.57	6.66
21	Kessel	116.77	32.99	1167.69	329.86	4581.63	1294.24	1.07	0.30	10.71	3.03	42.03	11.87
22	North Lampbright	51.77	14.63	517.75	146.26	2031.48	573.86	1.26	0.36	12.63	3.57	49.55	14.00
Total		**2659.07**	**361.88**	**26590.69**	**3618.81**	**105226.21**	**14448.78**	**60.65**	**5.21**	**606.50**	**52.09**	**2379.72**	**204.40**

Controlled Emissions													
Road Number	Road Name	Total Emissions						Emissions per Volume Source					
		$PM_{2.5}$		PM_{10}		PM		$PM_{2.5}$		PM_{10}		PM	
		tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr
PIT	Santa Rita - In Pit Roads	60.12	16.81	601	168.12	2,459	687.62	--	--	--	--	--	--
2	Maintenance Entrance Road	5.45	0.32	54.49	3.17	213.81	12.45	0.27	0.02	2.72	0.16	10.69	0.62
3	Cobre Haul Road	4.48	0.84	44.81	8.36	175.84	32.78	0.04	0.01	0.42	0.08	1.66	0.31
4	SWRDF Road	4.84	1.03	48.39	10.25	189.87	40.23	0.12	0.02	1.15	0.24	4.52	0.96
5 North*	Hanover Mountain Road	0.330	0.09	3.30	0.93	12.97	3.66	0.022	0.01	0.22	0.06	0.86	0.24
5 South*	Muffler	13.447	0.78	134.47	7.83	527.61	30.73	1.121	0.07	11.21	0.65	43.97	2.56
6	South Stockpile Road	27.64	1.61	276.36	16.10	1084.35	63.16	0.747	0.04	7.47	0.44	29.31	1.71
7	3A / 9 Dam	50.05	2.91	500.47	29.15	1963.69	114.37	0.86	0.05	8.63	0.50	33.86	1.97
8	West Stockpile - South Segment	14.808	1.05	148.08	10.46	581.00	41.03	0.361	0.03	3.61	0.26	14.17	1.00
9	West Stockpile - North Segment	13.938	0.98	139.38	9.84	546.90	38.62	0.367	0.03	3.67	0.26	14.39	1.02
11	Café to Lampbright	15.35	1.38	153.55	13.80	602.48	54.15	0.51	0.05	5.12	0.46	20.08	1.81
13	Upper Lampbright	38.54	3.17	385.35	31.67	1512.01	124.25	0.535	0.04	5.35	0.44	21.00	1.73
14	Lower Lampbright	9.309	0.77	93.09	7.65	365.26	30.02	0.423	0.03	4.23	0.35	16.60	1.36
15	Crusher / Stockpiles / Rehandle	4.821	0.54	48.21	5.45	189.16	21.37	0.219	0.02	2.19	0.25	8.60	0.97
16	Roundabout	2.11	0.12	21.11	1.23	82.83	4.82	0.7037	0.04	7.037	0.41	27.612	1.61
17	Princess Ramp	1.68	0.48	16.82	4.75	65.98	18.64	0.0673	0.02	0.673	0.19	2.639	0.75
21	Kessel	13.08	3.69	130.78	36.94	513.14	144.96	0.1200	0.03	1.200	0.34	4.708	1.33
22	North Lampbright	5.80	1.64	57.99	16.38	227.53	64.27	0.1414	0.04	1.414	0.40	5.549	1.57
Total		**285.79**	**38.21**	**2857.86**	**382.09**	**11313.33**	**1527.15**	**6.63**	**0.55**	**66.32**	**5.48**	**260.22**	**21.51**

* Road 5 is split into 2 segments. The northern section of the road (5 North) and the southern section (5 South).

Summary for Facility Summary	Controlled						Uncontrolled					
	$PM_{2.5}$		PM_{10}		PM		$PM_{2.5}$		PM_{10}		PM	
	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr
CBM HR	9.65	1.95	96.51	19.54	378.67	76.67	193.58	38.18	1935.77	381.81	7595.32	1498.09
CM HR	276.14	36.25	2761.35	362.54	10934.66	1450.48	2465.49	323.70	24654.92	3237.01	97630.89	12950.69
Total	285.79	38.21	2857.86	382.09	11313.33	1527.15	2659.07	361.88	26590.69	3618.81	105226.21	14448.78

Freeport-McMoRan Chino Mines Company
Revised: February 2026

New Haul Road Inputs

Facility Constants	
Days of Precipitation	70

				Passenger/Maintenance/Delivery	6	0

Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
2	Maintenance Entrance Road	100,000	36	2,778	177,025,000	1770
2	Maintenance Entrance Road	0	0	0	0	0
2	Maintenance Entrance Road	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
3	Cobre Haul Road	66,000	36	1,833	36,500,000	553
3	Cobre Haul Road	0	0	0	0	0
3	Cobre Haul Road	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
4	SWRDF Road	75,000	36	2,083	36,500,000	487
4	SWRDF Road	0	0	0	0	0
4	SWRDF Road	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
5 North [1]	Hanover Mountain Road	126,000	36	3,500	45,990,000	365
5 North [1]	Hanover Mountain Road	0	0	0	0	0
5 North [1]	Hanover Mountain Road	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
5 South [1]	Muffler	100,000	36	2,778	177,025,000	1770
5 South [1]	Muffler	0	0	0	0	0
5 South [1]	Muffler	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
6	South Stockpile Road	100,000	36	2,778	177,025,000	1770
6	South Stockpile Road	0	0	0	0	0
6	South Stockpile Road	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
7	3A / 9 Dam	100,000	36	2,778	177,025,000	1770
7	3A / 9 Dam	0	0	0	0	0
7	3A / 9 Dam	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
8	West Stockpile - South Segment	100,000	36	2,778	146,000,000	1460
8	West Stockpile - South Segment	0	0	0	0	0
8	West Stockpile - South Segment	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
9	West Stockpile - North Segment	100,000	36	2,778	146,000,000	1460
9	West Stockpile - North Segment	0	0	0	0	0
9	West Stockpile - North Segment	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
11	Café to Lampbright	175,000	36	4,861	200,750,000	1147
11	Café to Lampbright	0	0	0	0	0
11	Café to Lampbright	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
13	Upper Lampbright	160,000	36	4,444	200,750,000	1255
13	Upper Lampbright	0	0	0	0	0
13	Upper Lampbright	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
14	Lower Lampbright	160,000	36	4,444	200,750,000	1255
14	Lower Lampbright	0	0	0	0	0
14	Lower Lampbright	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
15	Crusher / Stockpiles / Rehandle	100,000	36	2,778	91,250,000	913
15	Crusher / Stockpiles / Rehandle	0	0	0	0	0
15	Crusher / Stockpiles / Rehandle	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
16	Roundabout	100,000	36	2,778	177,025,000	1770
16	Roundabout	0	0	0	0	0
16	Roundabout	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
17	Princess Ramp	100,000	36	2,778	36,500,000	365
17	Princess Ramp	0	0	0	0	0
17	Princess Ramp	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
21	Kessel Stockpile Road	160,000	36	4,444	58,400,000	365
21	Kessel Stockpile Road	0	0	0	0	0
21	Kessel Stockpile Road	0	0	0	0	0
Road Number	Road Name	Truck Throughput Rate (tons/day)[1]	Number of Trucks	Truck Throughput Rate (tons/day per truck)	Maximum Production Rate (tons/year)[2]	Maximum Operating Schedule (day/year)[3]
22	North Lampbright	160,000	36	4,444	58,400,000	365
22	North Lampbright	0	0	0	0	0
22	North Lampbright	0	0	0	0	0

1 The amount of tons the vehicle is able to move in one day
2 The amount of material moved in a year.
3 The number of days required to move all the material in one year (Maximum Production Rate / Truck Throughput rate)
4 The length of shift in hours per day
5 Maximum operating schedule is the number of hours required to move all the material in one year. (Maximum Operating Schedule * Length of Shift).
6 Truck Empty Weight based on information provided by Freeport
7 Weight of Loaded Truck in tons
8 Weighted average of light vehicles and haul trucks on each haul road segment based upon truck weight and vehicle miles traveled.
9 d = average hourly daytime traffic rate, roundtrips per hour (h-1)
d based on Maximum Production Rate and Vehicle Load = (Maximum Production Rate/Maximum Operating Hours/ Weight of Truck Load)
10 L is the roundtrip distance and based on Mine engineering estimates of maximum one-way haul distances projected for 2019. One-way distances doubled for roundtrip totals.
11 Hourly Vehicle Miles Traveled (VMT) = (Number of Trips per hour* trip distance)
12 Annual Vehicle Miles Traveled (VMT) = (Hourly VMT* Maximum Operating Schedule)
13 Control Efficiency taken from "Department Accepted Values for: "Aggregate Handling, Storage Piles, and Haul Road Emissions"
14 Silt Content taken from "Department Accepted Values for: "Aggregate Handling, Storage Piles, and Haul Road Emissions"
15 Number of volume sources based off modeling and vehicle load length.

Freeport-McMoRan Chino Mines Company
Revised: February 2026

New Haul Road Inputs

Facility Constants		
Days of Precipitation	70	10

Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
2	Maintenance Entrance Road	24	42486	169	268	15.55	2.0	0.70
2	Maintenance Entrance Road	0	0	0	0	0	0.0	0.00
2	Maintenance Entrance Road	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
3	Cobre Haul Road	24	13272.72727	169	268	10.26	2.0	8.40
3	Cobre Haul Road	0	0	0	0	0	0.0	0.00
3	Cobre Haul Road	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
4	SWRDF Road	24	11680	169	268	11.66	2.0	3.06
4	SWRDF Road	0	0	0	0	0	0.0	0.00
4	SWRDF Road	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
5 North [1]	Hanover Mountain Road	24	8760	169	268	19.59	2.0	0.66
5 North [1]	Hanover Mountain Road	0	0	0	0	0	0.0	0.00
5 North [1]	Hanover Mountain Road	0	0	0	0	0	0.0	0.00
					0			
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
5 South [1]	Muffler	24	42486	169	268	15.55	2.0	1.52
5 South [1]	Muffler	0	0	0	0	0	0.0	0.00
5 South [1]	Muffler	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	
6	South Stockpile Road	24	42486	169	268	15.55	2.0	2.80
6	South Stockpile Road	0	0	0	0	0	0.0	0.00
6	South Stockpile Road	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
7	3A / 9 Dam	24	42486	169	268	15.55	2.0	4.66
7	3A / 9 Dam	0	0	0	0	0	0.0	0.00
7	3A / 9 Dam	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
8	West Stockpile - South Segment	24	35040	169	268	15.55	2.0	2.00
8	West Stockpile - South Segment	0	0	0	0	0	0.0	0.00
8	West Stockpile - South Segment	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
9	West Stockpile - North Segment	24	35040	169	268	15.55	2.0	1.90
9	West Stockpile - North Segment	0	0	0	0	0	0.0	0.00
9	West Stockpile - North Segment	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
11	Café to Lampbright	24	27531.42857	169	268	27.21	2.0	1.50
11	Café to Lampbright	0	0	0	0	0	0.0	0.00
11	Café to Lampbright	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
13	Upper Lampbright	24	30112.5	169	268	24.88	2.0	3.28
13	Upper Lampbright	0	0	0	0	0	0.0	0.00
13	Upper Lampbright	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
14	Lower Lampbright	24	30112.5	169	268	24.88	2.0	0.98
14	Lower Lampbright	0	0	0	0	0	0.0	0.00
14	Lower Lampbright	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
15	Crusher / Stockpiles / Rehandle	24	21900	169	268	15.55	2.0	1.22
15	Crusher / Stockpiles / Rehandle	0	0	0	0	0	0.0	0.00
15	Crusher / Stockpiles / Rehandle	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
16	Roundabout	24	42486	169	268	15.55	2.0	0.30
16	Roundabout	0	0	0	0	0	0.0	0.00
16	Roundabout	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
17	Princess Ramp	24	8760	169	268	15.55	2.0	1.18
17	Princess Ramp	0	0	0	0	0	0.0	0.00
17	Princess Ramp	0	0	0	0	0	0.0	0.00
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
21	Kessel Stockpile Road	24	8760	169	268	24.88	2.0	4.50
21	Kessel Stockpile Road	0	8760	0	0	0	0	0
21	Kessel Stockpile Road	0	8760	0	0	0	0	0
Road Number	Road Name	Length of Shift (hr/day)[4]	Maximum Operating Schedule (hours/year)[5]	Truck Empty Weight (tons)[6]	Weight of Truck Load (tons)[7]	d (trips/hour)[9]	Trips per Segment	L (mile/trip)[10]
22	North Lampbright	24	8760	169	268	24.88	2.0	2.24
22	North Lampbright	0	8760	0	0	0	0	0
22	North Lampbright	0	8760	0	0	0	0	0

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New Haul Road Inputs

Facility Constants	
Days of Precipitation	70

Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
2	Maintenance Entrance Road	11	462379	63.87	88.8%	4.8	20
2	Maintenance Entrance Road	0	0	0	88.8%		20
2	Maintenance Entrance Road	0	0	0	88.8%		20
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
3	Cobre Haul Road	86	1144030	89.39	96.8%	4.8	106
3	Cobre Haul Road	0	0	0	96.8%		106
3	Cobre Haul Road	0	0	0	96.8%		106
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
4	SWRDF Road	36	416754	61.79	88.8%	4.8	42
4	SWRDF Road	0	0	0	88.8%		42
4	SWRDF Road	0	0	0	88.8%		42
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
5 North [1]	Hanover Mountain Road	13	113259	46.45	96.8%	4.8	15
5 North [1]	Hanover Mountain Road	0	0	0	96.8%		15
5 North [1]	Hanover Mountain Road	0	0	0	96.8%		15
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
5 South [1]	Muffler	24	1004022	84.86	88.8%	4.8	12
5 South [1]	Muffler	0	0	0	88.8%		12
5 South [1]	Muffler	0	0	0	88.8%		12
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
6	South Stockpile Road	44	1849515	108.23	88.8%	4.8	37
6	South Stockpile Road	0	0	0	88.8%		37
6	South Stockpile Road	0	0	0	88.8%		37
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
7	3A / 9 Dam	72	3078121	130.58	88.8%	4.8	58
7	3A / 9 Dam	0	0	0	88.8%		58
7	3A / 9 Dam	0	0	0	88.8%		58
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
8	West Stockpile - South Segment	31	1089552	87.67	88.8%	4.8	41
8	West Stockpile - South Segment	0	0	0	88.8%		41
8	West Stockpile - South Segment	0	0	0	88.8%		41
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
9	West Stockpile - North Segment	30	1035075	85.89	88.80%	4.8	38
9	West Stockpile - North Segment	0	0	0	88.8%		38
9	West Stockpile - North Segment	0	0	0	88.8%		38
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
11	Café to Lampbright	41	1123601	88.75	88.80%	4.8	30
11	Café to Lampbright	0	0	0	88.8%		30
11	Café to Lampbright	0	0	0	88.8%		30
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
13	Upper Lampbright	82	2456940	120.54	88.8%	4.8	72
13	Upper Lampbright	0	0	0	88.8%		72
13	Upper Lampbright	0	0	0	88.8%		72
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
14	Lower Lampbright	24	734086	75.16	88.8%	4.8	22
14	Lower Lampbright	0	0	0	88.8%		22
14	Lower Lampbright	0	0	0	88.8%		22
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
15	Crusher / Stockpiles / Rehandle	19	415392	61.73	88.8%	4.8	22
15	Crusher / Stockpiles / Rehandle	0	0	0	88.8%		22
15	Crusher / Stockpiles / Rehandle	0	0	0	88.8%		22
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
16	Roundabout	5	198162	51.03	88.8%	4.8	3
16	Roundabout	0	0	0	88.8%		3
16	Roundabout	0	0	0	88.8%		3
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
17	Princess Ramp	18	160709	49.04	88.8%	4.8	25
17	Princess Ramp	0	0	0	88.8%		25
17	Princess Ramp	0	0	0	88.8%		25
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
21	Kessel Stockpile Road	111.9	980597	84.07	88.8%	4.8	109
21	Kessel Stockpile Road	0	0	0	88.8%		109
21	Kessel Stockpile Road	0	0	0	88.8%		109
Road Number	Road Name	Hourly VMT (miles/hr.)[11]	Annual VMT (miles/year)[12]	Average Truck Weight (tons)[8]	Control Effiency[13]	Silt Content[14]	number of volume sources[15]
22	North Lampbright	55.7	488119	65.01	88.8%	4.8	41
22	North Lampbright	0	0	0	88.8%		41
22	North Lampbright	0	0	0	88.8%		41

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Mean Vehicle Weight

Light Vehicle Description	Quantity of Vehicles	Vehicle Weight (tons)			Average Speed (mph)	Time Operated Per Vehicle (hours)			Vehicle Miles Traveled (VMT)[1]	
		Empty Weight	Loaded Weight	Average		Hourly	Daily	Annual	Hourly	Annual
16 Motor Graders	2		35.73	35.73	4	1	22	8,760	8	70,080
18 Motor Graders	3		37.16	37.16	4	1	22	8,760	12	105,120
994K Loaders	2		267.43	267.43	2	1	22	8,760	4	35,040
992G Loader	1		116.72	116.72	2	1	12	4,380	2	8,760
930M Loaders	2		15.69	15.69	3	1	3	1,095	6	6,570
345CL Excavator	1		42.20	42.20	0	1	1	365	0	91
320CL Excavator	1		25	25	0	1	1	365	0	91
988 Loader	1		56.29	56.29	2	1	8	2,920	2	5,840
966 Loader	1		25.56	25.56	2	1	8	2,920	2	5,840
824 Rubber Tire Dozers	4		37.48	37.48	7	1	20	7,300	28	204,400
793 Wreckers	2		147.55	147.55	5	1	2	730	10	7,300
789 Support Trucks	2		134.50	134.50	8.0	1	2	730	16.00	11,680
777 Water Trucks	7	98.10	181.50	139.80	10.0	1	20	7,300	70.00	511,000
Dozer Service Trucks	9		16.50	16.50	15.0	1	12	4,380	135.00	591,300
Backhoes	5		12.13	12.13	5.0	1	12	4,380	25.00	109,500
Delivery/Medium-Heavy Duty On-road Vehicles				25.00				--	16	119,342
Passenger/Light-Duty On-road Vehicles				5.00				--	163	1,193,424

Road Number	Haul Truck Vehicle Weight (tons)			Vehicle Miles Traveled (VMT)		Weighted Average Truck Weight[3]	
	Empty Weight	Loaded Weight	Average[2]	Hourly	Annual	Hourly	Annual
2	169	268	219	11	462,379	44.81	63.87
3	169	268	219	86	1,144,030	67.11	89.39
4	169	268	219	36	416,754	52.85	61.79
5 North [1]	169	268	219	13	113,259	45.50	46.45
5 South [1]	169	268	219	24	1,004,022	49.04	84.86
6	169	268	219	44	1,849,515	55.24	108.23
7	169	268	219	72	3,078,121	63.48	130.58
8	169	268	219	31	1,089,552	51.42	87.67
9	169	268	219	30	1,035,075	50.93	85.89
11	169	268	219	41	1,123,601	54.42	88.75
13	169	268	219	82	2,456,940	65.91	120.54
14	169	268	219	24	734,086	49.28	75.16
15	169	268	219	19	415,392	47.51	61.73
16	169	268	219	5	198,162	42.67	51.03
17	169	268	219	18	160,709	47.31	49.04
21	169	268	219	112	980,597	73.48	84.07
22	169	268	219	56	488,119	58.82	65.01

Notes:

[1] Light Vehicle VMT = Quantity of Light Vehicles (#) * Average Speed (mph) * Time Operated (hr/vehicle)

[2] Average Haul Truck Weight = (Truck Empty Weight + Weight of Truck with load)/2

[3] Average truck weight is the weighted average of light vehicles and haul trucks on each haul road segment based upon the average weight of the vehicles and the vehicle miles traveled.

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Chino Haul Road Emissions

Unit CM HR - In Pit Roads

Stockpile	1-way Trip Outside Pit Distance from Pit to Stockpile (miles)	Round Trip Outside Distance from Pit to Stockpile (miles)	VMT (miles/hr)	Monthly Miles Required to Move Throughput
Inside Pit Distance	1.00	2.00	311	123,134

Inside Pit Distance

Maximum Estimated Fugitive Emissions from Unpaved Chino Mine Haul Roads																
Equipment:	**Haul Truck - CAT 793**						**Other Vehicle - Passenger/Maintenance/Delivery**						**Total Maximum Fugitive Emissions Chino Mine Haul Roads**			
Hourly VMT [miles/hour][1]	310.9						83.8									
Annual Operating Hours	8,760						8,760									
Annual VMT (miles/year)[2]	2,723,881						734,000									
Control Efficiency[3]	88.8%						88.8%						**Controlled**		**Uncontrolled**	
Criteria Pollutants	**Annual Uncontrolled Emission Factor[4]**	**Hourly Uncontrolled Emission Factor[4]**	**Annual Emission Rate [tons/year]**		**Hourly Emission Rate [lb/hr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Uncontrolled Emission Factor[4]**	**Annual Emission Rate [tons/year]**		**Hourly Emission Rate [lb/hr]**		**[tons/ year]**	**[lb/hr]**	**[tons/ year]**	**[lb/hr]**
	[lb/VMT]	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**				
Particulate Matter ($PM_{2.5}$)	0.36	0.44	484	54	135	15.2	0.14	0.18	52.8	5.9	14.8	1.65	60	16.8	537	150
Particulate Matter (PM_{10})	3.55	4.35	4,840	542	1,353	152	1.44	1.76	528	59	148	16.5	601	168	5,368	1,501
Particulate Matter (PM)	14.53	17.80	19,794	2,217	5,535	620	5.89	7.21	2160	242	604	68	2,459	688	21,954	6,139

Freeport-McMoRan Chino Mines Company
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Road Name **Maintenance Entrance Road**
Road Number **2**

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	63.86831687						0						0					
Hourly VMT [miles/hour][1]	10.88						0.00						0.00					
Annual VMT [miles/year][2]	462378.73						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission**	**Hourly Controlled Emission**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission**	**Hourly Controlled Emission**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission**	**Hourly Controlled Emission**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Particulate Matter (PM 2.5)	0.21	0.26	48.65	5.45	2.83	0.32	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.10	2.60	486.54	54.49	28.34	3.17	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	8.26	10.22	1909.01	213.81	111.19	12.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**Maintenance Entrance Road**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	**[lb/hr]**	**[tons/year]**	**[lb/hr]**		**[tons/year]**	**[lb/hr]**	**[tons/year]**	**[lb/hr]**
Particulate Matter (PM 2.5)	5.45	0.32	48.65	2.83	20	0.27	0.02	2.43	0.14
Particulate Matter (PM 10)	54.49	3.17	486.54	28.34	20	2.72	0.16	24.33	1.42
Particulate Matter (PM)	213.81	12.45	1909.01	111.19	20	10.69	0.62	95.45	5.56

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name **Cobre Haul Road**
Road Number **3**

Truck type	Caterpillar 793				-				-			
Average Truck Weight [tons]	89.39				0				0			
Hourly VMT [miles/hour][1]	86.19				0.00				0.00			
Annual VMT [miles/year][2]	1144029.85				0.00				0.00			
Control Efficiency [%][3]	96.80%				96.80%				96.80%			
Criteria Pollutant	Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Annual Emission Rate[5] [lb/yr]	
	[lb./VMT]	[lb./VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled
Particulate Matter (PM 2.5)	0.24	0.30	140.04	4.48	26.11	0.84	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.45	3.03	1400.44	44.81	261.10	8.36	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	9.61	11.89	5494.88	175.84	1024.47	32.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	Cobre Haul Road		
Parameter	$PM_{2.5}$	PM_{10}	PM
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				Number of volume sources	Emissions per Volume Source[7]			
	Controlled		Uncontrolled			Controlled		Uncontrolled	
	[tons/year]	[lb/hr]	[tons/year]	[lb/hr]		[tons/year]	[lb/hr]	[tons/year]	[lb/hr]
Particulate Matter (PM 2.5)	4.48	0.84	140.04	26.11	106	0.04	0.01	1.32	0.25
Particulate Matter (PM 10)	44.81	8.36	1400.44	261.10	106	0.42	0.08	13.21	2.46
Particulate Matter (PM)	175.84	32.78	5494.88	1024.47	106	1.66	0.31	51.84	9.66

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name **SWRDF Road**
Road Number **4**

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	61.79459685						0						0					
Hourly VMT [miles/hour][1]	35.68						0.00						0.00					
Annual VMT [miles/year][2]	416753.73						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled
Particulate Matter (PM 2.5)	0.21	0.26	43.21	4.84	9.15	1.03	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.07	2.57	432.06	48.39	91.54	10.25	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	8.14	10.07	1695.27	189.87	359.17	40.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	SWRDF Road		
Parameter	$PM_{2.5}$	PM_{10}	PM
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	[lb/hr]	[tons/year]	[lb/hr]		[tons/year]	[lb/hr]	[tons/year]	[lb/hr]
Particulate Matter (PM 2.5)	4.84	1.03	43.21	9.15	42	0.12	0.024	1.03	0.22
Particulate Matter (PM 10)	48.39	10.25	432.06	91.54	42	1.15	0.24	10.29	2.18
Particulate Matter (PM)	189.87	40.23	1695.27	359.17	42	4.52	0.96	40.36	8.55

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[{}^{(365-P)}\!/_{365}\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Road Name	**Hanover Mountain Road**
Road Number	**5 North 1**

Truck type	Caterpillar 793	-	-
Average Truck Weight [tons]	46.44615232	0	0
Hourly VMT [miles/hour][1]	12.93	0.00	0.00
Annual VMT [miles/year][2]	113258.96	0.00	0.00
Control Efficiency [%][3]	96.80%	96.80%	96.80%

Criteria Pollutant	Annual Uncontrolled Emission Factor[4] [lb/VMT]	Hourly Controlled Emission Factor[4] [lb/VMT]	Annual Emission Rate[5] [tons/year] Uncontrolled	Annual Emission Rate[5] [tons/year] Controlled	Hourly Emission Rate[5] [lb/yr] Uncontrolled	Hourly Emission Rate[5] [lb/yr] Controlled	Annual Uncontrolled Emission Factor[4] [lb/VMT]	Hourly Controlled Emission Factor[4] [lb/VMT]	Annual Emission Rate[5] [tons/year] Uncontrolled	Annual Emission Rate[5] [tons/year] Controlled	Hourly Emission Rate[5] [lb/yr] Uncontrolled	Hourly Emission Rate[5] [lb/yr] Controlled	Annual Uncontrolled Emission Factor[4] [lb/VMT]	Hourly Controlled Emission Factor[4] [lb/VMT]	Annual Emission Rate[5] [tons/year] Uncontrolled	Annual Emission Rate[5] [tons/year] Controlled	Annual Emission Rate[5] [lb/yr] Uncontrolled	Annual Emission Rate[5] [lb/yr] Controlled
Particulate Matter (PM 2.5)	0.18	0.23	10.33	0.33	2.92	0.09	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	1.82	2.26	103.26	3.30	29.17	0.93	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	7.15	8.85	405.17	12.97	114.45	3.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	Hanover Mountain Road		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content		4.8	
P [days]		70	

	Total Maximum Fugitive Emissions[6] Controlled [tons/year]	Controlled [lb/hr]	Uncontrolled [tons/year]	Uncontrolled [lb/hr]	Number of volume sources	Emissions per Volume Source[7] Controlled [tons/year]	Controlled [lb/hr]	Uncontrolled [tons/year]	Uncontrolled [lb/hr]
Particulate Matter (PM 2.5)	0.330	0.09	10.33	2.92	15	0.02	0.01	0.69	0.19
Particulate Matter (PM 10)	3.30	0.93	103.26	29.17	15	0.22	0.06	6.88	1.94
Particulate Matter (PM)	12.97	3.66	405.17	114.45	15	0.86	0.24	27.01	7.63

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[{}^{(365-P)}\!\!\diagup\!\!{}_{365}\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name **Muffler**
Road Number **5 South 1**

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	84.86276297						0						0					
Hourly VMT [miles/hour][1]	23.63						0.00						0.00					
Annual VMT [miles/year][2]	1004022.39						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled
Particulate Matter (PM 2.5)	0.24	0.30	120.06	13.45	6.99	0.78	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.39	2.96	1200.62	134.47	69.93	7.83	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	9.38	11.61	4710.84	527.61	274.38	30.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**Muffler**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	[lb/hr]	[tons/year]	[lb/hr]		[tons/year]	[lb/hr]	[tons/year]	[lb/hr]
Particulate Matter (PM 2.5)	13.447	0.78	120.06	6.99	12	1.121	0.07	10.01	0.58
Particulate Matter (PM 10)	134.47	7.83	1200.62	69.93	12	11.21	0.65	100.05	5.83
Particulate Matter (PM)	527.61	30.73	4710.84	274.38	12	43.97	2.56	392.57	22.87

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unitless)
b = empirical constant (unitless)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)

[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours

[3] Control Efficiency is set at 88.8%; see control effieciency page for more info.

[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.

[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000

[5] Hourly Emission Rate = Hourly Uncontrolled E,ission Factor * Hourly VMT

6 Total Emission are the sum of all truck emissions operating on that road

7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources

* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name South Stockpile Road
Road Number 6

Truck type	Caterpillar 793				-				-			
Average Truck Weight [tons]	108.2323116				0				0			
Hourly VMT [miles/hour][1]	43.53233831				0				0			
Annual VMT [miles/year][2]	1849514.925				0				0			
Control Efficiency [%][3]	88.80%				88.80%				88.80%			
Criteria Pollutant	Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Annual Emission Rate[5] [lb/yr]	
	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled
Particulate Matter (PM 2.5)	0.27	0.33	246.75	27.64	14.37	1.61	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.67	3.30	2467.51	276.36	143.72	16.10	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	10.47	12.95	9681.69	1084.35	563.91	63.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	South Stockpile Road		
Parameter	$PM_{2.5}$	PM_{10}	PM
k*	0.15	1.50	4.90
a*	1	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				Number of volume sources	Emissions per Volume Source[7]			
	Controlled		Uncontrolled			Controlled		Uncontrolled	
	[tons/year]	[lb/hr]	[tons/year]	[lb/hr]		[tons/year]	[lb/hr]	[tons/year]	[lb/hr]
Particulate Matter (PM 2.5)	27.64	1.61	246.75	14.37	37	0.75	0.04	6.67	0.39
Particulate Matter (PM 10)	276.36	16.10	2467.51	143.72	37	7.47	0.44	66.69	3.88
Particulate Matter (PM)	1084.35	63.16	9681.69	563.91	37	29.31	1.71	261.67	15.24

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name **3A / 9 Dam**
Road Number **7**

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	130.5751133						0						0					
Hourly VMT [miles/hour][1]	72.45						0.00						0.00					
Annual VMT [miles/year][2]	3078121.27						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Annual Emission Rate[5] [lb/yr]	
	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled
Particulate Matter (PM 2.5)	0.29	0.36	446.85	50.05	26.03	2.91	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.90	3.59	4468.51	500.47	260.27	29.15	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	11.39	14.10	17532.97	1963.69	1021.20	114.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**3A / 9 Dam**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	**[lb/hr]**	**[tons/year]**	**[lb/hr]**		**[tons/year]**	**[lb/hr]**	**[tons/year]**	**[lb/hr]**
Particulate Matter (PM 2.5)	50.05	2.91	446.85	26.03	58	0.86	0.05	7.70	0.45
Particulate Matter (PM 10)	500.47	29.15	4468.51	260.27	58	8.63	0.50	77.04	4.49
Particulate Matter (PM)	1963.69	114.37	17532.97	1021.20	58	33.86	1.97	302.29	17.61

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name West Stockpile - South Segment
Road Number 8

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	87.6677117						0						0					
Hourly VMT [miles/hour][1]	31.09						0.00						0.00					
Annual VMT [miles/year][2]	1089552.24						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Annual Emission Rate[5] [lb/yr]	
	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled
Particulate Matter (PM 2.5)	0.24	0.30	132.21	14.81	9.34	1.05	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.43	3.00	1322.10	148.08	93.37	10.46	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	9.52	11.78	5187.51	581.00	366.35	41.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	West Stockpile - South Segment		
Parameter	$PM_{2.5}$	PM_{10}	PM
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				Number of volume sources	Emissions per Volume Source[7]			
	Controlled		Uncontrolled			Controlled		Uncontrolled	
	[tons/year]	[lb/hr]	[tons/year]	[lb/hr]		[tons/year]	[lb/hr]	[tons/year]	[lb/hr]
Particulate Matter (PM 2.5)	14.81	1.05	132.21	9.34	41	0.36	0.03	3.22	0.23
Particulate Matter (PM 10)	148.08	10.46	1322.10	93.37	41	3.61	0.26	32.25	2.28
Particulate Matter (PM)	581.00	41.03	5187.51	366.35	41	14.17	1.00	126.52	8.94

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{xt} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:
[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name West Stockpile - North Segment
Road Number 9

Truck type	Caterpillar 793				-				-			
Average Truck Weight [tons]	85.89491901				0				0			
Hourly VMT [miles/hour][1]	29.54				0.00				0.00			
Annual VMT [miles/year][2]	1035074.63				0.00				0.00			
Control Efficiency [%][3]	88.80%				88.80%				88.80%			
Criteria Pollutant	Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Annual Emission Rate[5] [lb/yr]	
	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled
Particulate Matter (PM 2.5)	0.24	0.30	124.45	13.94	8.79	0.98	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.40	2.98	1244.51	139.38	87.89	9.84	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	9.44	11.67	4883.03	546.90	344.85	38.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	West Stockpile - North Segment		
Parameter	$PM_{2.5}$	PM_{10}	PM
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				Number of volume sources	Emissions per Volume Source[7]			
	Controlled		Uncontrolled			Controlled		Uncontrolled	
	[tons/year]	[lb/hr]	[tons/year]	[lb/hr]		[tons/year]	[lb/hr]	[tons/year]	[lb/hr]
Particulate Matter (PM 2.5)	13.94	0.98	124.45	8.79	38	0.37	0.026	3.28	0.23
Particulate Matter (PM 10)	139.38	9.84	1244.51	87.89	38	3.67	0.26	32.75	2.31
Particulate Matter (PM)	546.90	38.62	4883.03	344.85	38	14.39	1.02	128.50	9.07

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name **Café to Lampbright**
Road Number **11**

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	88.75183587						0						0					
Hourly VMT [miles/hour][1]	40.81						0.00						0.00					
Annual VMT [miles/year][2]	1123600.75						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Particulate Matter (PM 2.5)	0.24	0.30	137.10	15.35	12.32	1.38	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.44	3.02	1370.98	153.55	123.23	13.80	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	9.58	11.85	5379.28	602.48	483.50	54.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**Café to Lampbright**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	**[lb/hr]**	**[tons/year]**	**[lb/hr]**		**[tons/year]**	**[lb/hr]**	**[tons/year]**	**[lb/hr]**
Particulate Matter (PM 2.5)	15.35	1.38	137.10	12.32	30	0.51	0.05	4.57	0.41
Particulate Matter (PM 10)	153.55	13.80	1370.98	123.23	30	5.12	0.46	45.70	4.11
Particulate Matter (PM)	602.48	54.15	5379.28	483.50	30	20.08	1.81	179.31	16.12

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[\frac{(365 - P)}{365}\right]$$

Where: E_{xt} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name **Upper Lampbright**
Road Number **13**

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	120.539453						0						0					
Hourly VMT [miles/hour][1]	81.59						0.00						0.00					
Annual VMT [miles/year][2]	2456940.30						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	**[lb/VMT][4]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT][4]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT][4]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Particulate Matter (PM 2.5)	0.28	0.35	344.07	38.54	28.27	3.17	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.80	3.47	3440.67	385.35	282.75	31.67	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	10.99	13.60	13500.05	1512.01	1109.40	124.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**Upper Lampbright**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	**[lb/hr]**	**[tons/year]**	**[lb/hr]**		**[tons/year]**	**[lb/hr]**	**[tons/year]**	**[lb/hr]**
Particulate Matter (PM 2.5)	38.54	3.17	344.07	28.27	72	0.54	0.044	4.78	0.39
Particulate Matter (PM 10)	385.35	31.67	3440.67	282.75	72	5.35	0.44	47.79	3.93
Particulate Matter (PM)	1512.01	124.25	13500.05	1109.40	72	21.00	1.73	187.50	15.41

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name **Lower Lampbright**
Road Number **14**

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	75.16416929						0						0					
Hourly VMT [miles/hour][1]	24.38						0.00						0.00					
Annual VMT [miles/year][2]	734085.82						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Particulate Matter (PM 2.5)	0.23	0.28	83.12	9.31	6.83	0.77	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.26	2.80	831.17	93.09	68.30	7.65	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	8.89	10.99	3261.25	365.26	268.00	30.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**Lower Lampbright**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content		4.8	
P [days]		70	

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	**[lb/hr]**	**[tons/year]**	**[lb/hr]**		**[tons/year]**	**[lb/hr]**	**[tons/year]**	**[lb/hr]**
Particulate Matter (PM 2.5)	9.31	0.77	83.12	6.83	22	0.42	0.03	3.78	0.31
Particulate Matter (PM 10)	93.09	7.65	831.17	68.30	22	4.23	0.35	37.78	3.10
Particulate Matter (PM)	365.26	30.02	3261.25	268.00	22	16.60	1.36	148.24	12.18

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[\frac{(365-P)}{365}\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name **Crusher / Stockpiles / Rehandle**
Road Number **15**

Truck type	Caterpillar 793				-				-			
Average Truck Weight [tons]	61.73183949				0				0			
Hourly VMT [miles/hour][1]	18.97				0.00				0.00			
Annual VMT [miles/year][2]	415391.79				0.00				0.00			
Control Efficiency [%][3]	88.80%				88.80%				88.80%			
Criteria Pollutant	Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Hourly Emission Rate[5] [lb/yr]		Annual Uncontrolled Emission Factor[4]	Hourly Controlled Emission Factor[4]	Annual Emission Rate[5] [tons/year]		Annual Emission Rate[5] [lb/yr]	
	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled	[lb/VMT]	[lb/VMT]	Uncontrolled	Controlled	Uncontrolled	Controlled
Particulate Matter (PM 2.5)	0.21	0.26	43.05	4.82	4.86	0.54	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.07	2.56	430.45	48.21	48.64	5.45	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	8.13	10.06	1688.96	189.16	190.84	21.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	Crusher / Stockpiles / Rehandle		
Parameter	$PM_{2.5}$	PM_{10}	PM
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				Number of volume sources	Emissions per Volume Source[7]			
	Controlled		Uncontrolled			Controlled		Uncontrolled	
	[tons/year]	[lb/hr]	[tons/year]	[lb/hr]		[tons/year]	[lb/hr]	[tons/year]	[lb/hr]
Particulate Matter (PM 2.5)	4.82	0.54	43.05	4.86	22	0.22	0.02	1.96	0.22
Particulate Matter (PM 10)	48.21	5.45	430.45	48.64	22	2.19	0.25	19.57	2.21
Particulate Matter (PM)	189.16	21.37	1688.96	190.84	22	8.60	0.97	76.77	8.67

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
Γ = vehicle miles traveled
particle size multiplier (lb/VMT)
empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[\frac{(365-P)}{365}\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
hourly emission factor (lb/VMT)
number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Road Name	**Roundabout**
Road Number	**16**

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	51.03473732						0						0					
Hourly VMT [miles/hour][1]	4.66						0.00						0.00					
Annual VMT [miles/year][2]	198162.31						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Particulate Matter (PM 2.5)	0.19	0.24	18.85	2.11	1.10	0.12	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	1.90	2.35	188.50	21.11	10.98	1.23	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	7.46	9.24	739.59	82.83	43.08	4.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**Roundabout**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	**[lb/hr]**	**[tons/year]**	**[lb/hr]**		**[tons/year]**	**[lb/hr]**	**[tons/year]**	**[lb/hr]**
Particulate Matter (PM 2.5)	2.11	0.12	18.85	1.10	3	0.70	0.04	6.28	0.37
Particulate Matter (PM 10)	21.11	1.23	188.50	10.98	3	7.04	0.41	62.83	3.66
Particulate Matter (PM 10)	82.83	4.82	739.59	43.08	3	27.61	1.61	246.53	14.36

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Road Name	**Princess Ramp**
Road Number	**17**

Truck type	Caterpillar 793						-						-					
Average Truck Weight [tons]	49.0411069						0						0					
Hourly VMT [miles/hour][1]	18.35						0.00						0.00					
Annual VMT [miles/year][2]	160708.96						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Particulate Matter (PM 2.5)	0.19	0.23	15.02	1.68	4.24	0.48	0.000	0.000	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	1.87	2.31	150.15	16.82	42.42	4.75	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.00	0.00
Particulate Matter (PM)	7.33	9.07	589.15	65.98	166.43	18.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**Princess Ramp**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	**[lb/hr]**	**[tons/year]**	**[lb/hr]**		**[tons/year]**	**[lb/hr]**	**[tons/year]**	**[lb/hr]**
Particulate Matter (PM 2.5)	1.68	0.48	15.02	4.24	25	0.07	0.02	0.60	0.17
Particulate Matter (PM)	16.82	4.75	150.15	42.42	25	0.67	0.19	6.01	1.70
Particulate Matter (PM 10)	65.98	18.64	589.15	166.43	25	2.64	0.75	23.57	6.66

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026

Road Name	**Kessel Stockpile Road**
Road Number	**21**

Truck type	0						0						0					
Average Truck Weight [tons]	84.07342329						0						0					
Hourly VMT [miles/hour][1]	111.94						0.00						0.00					
Annual VMT [miles/year][2]	980597.01						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Particulate Matter (PM 2.5)	0.24	0.29	116.77	13.078	32.99	3.694	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.38	2.95	1167.69	130.78	329.86	36.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Particulate Matter (PM)	9.34	11.56	4581.63	513.14	1294.24	144.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**Kessel Stockpile Road**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	**[lb/hr]**	**[tons/year]**	**[lb/hr]**		**[tons/year]**	**[lb/hr]**	**[tons/year]**	**[lb/hr]**
Particulate Matter (PM 2.5)	13.078	3.69	116.77	32.99	109	0.1200	0.0339	1.071	0.303
Particulate Matter (PM 10)	130.78	36.94	1167.69	329.86	109	1.200	0.339	10.71	3.03
Particulate Matter (PM)	513.14	144.96	4581.63	1294.24	109	4.71	1.330	42.03	11.87

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[\frac{(365 - P)}{365}\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

Freeport-McMoRan Chino Mines Company
Revised: February 2026
Road Name North Lampbright
Road Number 22

Truck type	0						0						0					
Average Truck Weight [tons]	65.01422887						0						0					
Hourly VMT [miles/hour][1]	55.72						0.00						0.00					
Annual VMT [miles/year][2]	488119.40						0.00						0.00					
Control Efficiency [%][3]	88.80%						88.80%						88.80%					
Criteria Pollutant	**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Hourly Emission Rate[5] [lb/yr]**		**Annual Uncontrolled Emission Factor[4]**	**Hourly Controlled Emission Factor[4]**	**Annual Emission Rate[5] [tons/year]**		**Annual Emission Rate[5] [lb/yr]**	
	[lb/VMT]	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**	**[lb/VMT]**	**[lb/VMT]**	**Uncontrolled**	**Controlled**	**Uncontrolled**	**Controlled**
Particulate Matter (PM 2.5)	0.21	0.26	51.77	5.799	14.63	1.638	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Particulate Matter (PM 10)	2.12	2.62	517.75	57.99	146.26	16.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Particulate Matter (PM)	8.32	10.30	2031.48	227.53	573.86	64.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Emission Factor Constants	**North Lampbright**		
Parameter	**$PM_{2.5}$**	**PM_{10}**	**PM**
k*	0.15	1.50	4.90
a*	0.90	0.90	0.70
b*	0.45	0.45	0.45
silt content	4.8		
P [days]	70		

	Total Maximum Fugitive Emissions[6]				**Number of volume sources**	**Emissions per Volume Source[7]**			
	Controlled		**Uncontrolled**			**Controlled**		**Uncontrolled**	
	[tons/year]	**[lb/hr]**	**[tons/year]**	**[lb/hr]**		**[tons/year]**	**[lb/hr]**	**[tons/year]**	**[lb/hr]**
Particulate Matter (PM 2.5)	5.799	1.64	51.77	14.63	41	0.1414	0.0400	1.263	0.357
Particulate Matter (PM 10)	57.99	16.38	517.75	146.26	41	1.414	0.400	12.63	3.57
Particulate Matter (PM)	227.53	64.27	2031.48	573.86	41	5.55	1.568	49.55	14.00

Fugitive emissions from traffic on unpaved surfaces by vehicles such as haul trucks and maintenance vehicles were estimated using EPA AP-42 emission factors, Section 13.2.2, Unpaved Roads (November 2006). The following equations are recommended for industrial sites:

(AP-42, Chapter 13.2.2, Equatior

$$E\left(\frac{lb}{VMT}\right) = k\left(\frac{s}{12}\right)^{a}\left(\frac{W}{3}\right)^{b}$$

Where: E = emission factor in lb/VMT
lb = pounds of pollutant
VMT = vehicle miles traveled
k = particle size multiplier (lb/VMT)
a = empirical constant (unit less)
b = empirical constant (unit less)
s = surface silt content, (%)
W = mean vehicle weight, full vs. empty (tons)

Hourly Emission Factor:

$$E_h\left(\frac{lb}{hr}\right) = E \cdot d \cdot L$$

Where: E_h = hourly emission factor (lb/hr)
E = emission factor (lb/VMT)
d = average hourly daytime traffic rate, roundtrips per hour (h^{-1})
L = longest haul road length in miles (roundtrip)

By considering annual natural mitigation from rainfall, the annual emission factor is affected:

(AP-42, Chapter 13.2.2, Equatior

$$E_{ext}\left(\frac{lb}{VMT}\right) = E \cdot \left[(365 - P)/365\right]$$

Where: E_{ext} = annual emission factor extrapolated for annual natural mitigation (lb/VMT)
E = hourly emission factor (lb/VMT)
P = number of days in a year with at least 0.01 inches of precipitation

Notes:

[1] Hourly Vehicle Miles Traveled = d (trips/hour) * L (mile/trip)
[2] Annual Vehicle Miles Traveled = Hourly Vehicle Miles Traveled (miles/hour) * Annual Operating Hours
[3] Control Efficiency is set at 88.8%; see control efficiency page for more info.
[4] Emission factors are from AP-42, Chapter 13.2.2, Unpaved Roads, vehicles traveling on unpaved surfaces at industrial sites.
[5] Annual Emission Rate = Annual Uncontrolled Emission Factor * Annual VMT ÷ 2000
[5] Hourly Emission Rate = Hourly Uncontrolled Emission Factor * Hourly VMT
6 Total Emission are the sum of all truck emissions operating on that road
7 Emission per Volume source = Total Emissions ÷ Number of Volume Sources
* Values for k, a, and b obtained from AP-42, Chapter 13.2.2, Unpaved Roads, Table 13.2.2-2 (November 2006)

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.

This section contains the following references or actual documentation to support the emissions in the required forms and the calculations in Section 6.

- Current and past versions of AP-42:
  - Specific applications used in this section:
    - AP-42 Chapter 1.4 “Natural Gas Combustion” Tables 1.4-2 and 1.4-3 (07/98)
    - AP-42 Chapter 1.5 "Liquefied Petroleum Gas Combustion" Table 1.5-1 (05/25)
    - AP-42 Chapter 3.1 “Stationary Gas Turbines” Table 3.1-3 (04/00)
    - AP-42 Chapter 3.2 "Natural Gas-fired Reciprocating Engines" Tables 3.2-1 and 3.2-2 (10/25)
    - AP-42 Chapter 3.3 "Gasoline and Diesel Industrial Engines” Table 3.3-1, Table 3.3-2 (04/25)
    - AP-42 Chapter 7.1 “Organic Liquid Storage Tanks” (09/25)
    - AP-42 Chapter 11.9 “Western Surface Coal Mining” Tables 11.9-1, 11.9-3, and 11.9-4 (10/98)
    - AP-42 Chapter 11.17 “Lime Manufacturing,” Tables 11.17-1, 11.17-2, and 11.17-4 (02/98)
    - AP-42 Chapter 11.19.2 “Crushed Stone Processing and Pulverized Mineral Processing” Table 11.19.2-2 (08/04)
    - AP-42 Chapter 11.24 "Metallic Minerals Processing" Table 11.24-2 (08/82)
    - AP-42 Chapter 13.2.2 “Unpaved Roads” (11/06)
    - AP-42 Chapter 13.2.4 “Aggregate Handling and Storage Piles” (11/06)
    - AP-42 Chapter 13.2.5 “Industrial Wind Erosion” (11/06)
    - AP-42 Fourth Edition Chapter 11.2.3.1 “Aggregate Handling and Storage Piles” (5/83) Equation 3
- Manufacturer Data
  - Generac specification sheet for SG035 generator
  - Polar Power 20 kW Diesel DC Generator
  - Duetz AG 75 – 147 kW engine
  - CAT specification sheet for C6.6 ACERT industrial open power unit
  - CAT specification sheet for C7.1 ACERT industrial engine

  - CAT specification sheet for C9.3 ACERT industrial engine
  - Caterpillar 153 bkW Engine
  - FTS Series 20 Blower manufacturer specifications
  - Boiler Derating Manufacture Data
- Material Safety Data Sheets
  - Acorga OR25 solvent extraction reagent
  - Acorga M5910 extraction reagent
  - Acorga M5640 solvent extraction reagent
  - LIX 684 N-LV
  - Escaid 115
  - Escaid 110
  - Gasoline, all grades
  - ShellSol D70
  - Penreco 170ES
  - ORFOM SX 80 solvent extraction diluent
- Published Studies and Journals
  - Trinity Consultants "Development of Pond Evaporation System Site-Specific Emission Factors" study results
  - NMED "Department Accepted Values for: Aggregate Handling, Storage Pile, and Haul Road Emissions"
  - Western Regional Air Partnership (WRAP) Fugitive Dust Handbook, published September 7, 2006
  - Riesman Frisbie methodology, "Calculating Realistic PM_{10} Emissions from Cooling Towers"
  - "*NOx Emissions from Blasting Operations in Open-Cut Coal Mining*" by Moetaz I. Attalla, Stuart J. Day, Tony Lange, William Lilley, and Scott Morgan (2008).
  - "*Factors Affecting Anfo Fumes Production*" by James H. Rowland III and Richard Mainiero (2001).
  - Equations from the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 2001 Fundamentals Handbook
  - October 2009 Henderson Mill Study
  - BHP Copper VOC study conducted in 1997
  - Cole, C. F., & Fabrick, A. J. (1984). Surface Mine Pit Retention. Journal of the Air Pollution Control Association, 34(6), 674–675.
- Site Specific Data
  - 2020-2024 semi-annual tailing slurry solid samples data received from Ellen Silk 3/3/2025
  - 2022-2024 precipitation data from South Stockpile Met Station
  - 2022-2024 wind speed data from South Stockpile Met Station
  - 2022-2024 Monthly Reagent Usage Inventory received from Ellen Silk 8/13/2025 email
  - Data from Estrella Pit Lake Sample Analysis
  - Chino TRI Assay data provided by Clyde Durham 1/28/11
  - Chino 2024 TRI assay data received from Ellen Silk
- EPA CFR
  - 40 CFR 98 Subpart A, Table A-1
  - 40 CFR 98 Subpart C, Table C-1, C-2
  - Appendix B.2 "Generalized Particle Size Distribution" Table B.2.2 Category 3

The following is a list of the supporting documentation used for each equipment and activity.

Diesel Emergency Generators

- AP-42 Chapter 3.3 "Gasoline and Diesel Industrial Engines" Table 3.3-1, Table 3.3-2 (04/25)
- 40 CFR 98 Subpart A, Table A-1
- 40 CFR 98 Subpart C, Table C-1, C-2
- Manufacturer Data

Natural Gas Emergency Generators

- AP-42 Chapter 3.2 "Natural Gas-fired Reciprocating Engines" Tables 3.2-1 and 3.2-2 (10/25)
- 40 CFR 98 Subpart A, Table A-1

- 40 CFR 98 Subpart C, Table C-1, C-2
- Manufacturer Data

LPG Emergency Generators

- AP-42 Chapter 3.2 "Natural Gas-fired Reciprocating Engines" Tables 3.2-1 and 3.2-2 (10/25)
- 40 CFR 98 Subpart A, Table A-1
- 40 CFR 98 Subpart C, Table C-1, C-2
- Manufacture Data

Tailings Impoundment

Tailings Impoundment (Units CB TLNGS & CM TLNGS)

- AP-42 Section 13.2.5 “Industrial Wind Erosion” (11/06)
- 2020-2024 semi-annual tailing slurry solid samples data received from Ellen Silk 3/3/2025

Haul Roads

Haul Roads (Units CBM HR & CM HR)

- AP-42 Section 13.2.2.2, Unpaved Roads
- Western Regional Air Partnership (WRAP) Fugitive Dust Handbook, published September 7, 2006
- Value for s based on NMED default value from http://www.epa.gov/ttn/chief/ap42/ch13/related/r13s0202_dec03.xls

Material Handling

Cobre Haul Road Borrow Pit Material Handling (Unit BORR_MH)

- AP-42 Chapter 11.19.2 “Crushed Stone Processing and Pulverized Mineral Processing” Table 11.19.2-2 (08/04)
- Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006.
- Chino TRI Assay data provided by Clyde Durham 1/28/11

Material Handling (Units CM MH and CBM MH)

- AP-42 Chapter 11.19.2 “Crushed Stone Processing and Pulverized Mineral Processing” Table 11.19.2-2 (08/04)
- Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006
- Chino 2024 TRI assay data received from Ellen Silk

Bulldozing and Grading

Chino Mine, Cobre Mine, and Tailings Bulldozing and Grading (Units BDZR, GRDR, BDZR TLNGS, GRDR TLNGS)

AP-42 Chapter 11.9 “Western Surface Coal Mining” Tables 11.9-1 and 11.9-3 (10/98)

Blasting

Cobre Haul Road Borrow Pit Blasting (Unit BORR_BLST)

- "*NO_x Emissions from Blasting Operations in Open-Cut Coal Mining*" by Moetaz I. Attalla, Stuart J. Day, Tony Lange, William Lilley, and Scott Morgan (2008).
- "*Factors Affecting Anfo Fumes Production*" by James H. Rowland III and Richard Mainiero (2001).
- AP-42 Chapter 11.9 “Western Surface Coal Mining” Tables 11.9-1 (10/98)

Hanover Mountain Blasting (Unit CBM BLST)

- "*NO_x Emissions from Blasting Operations in Open-Cut Coal Mining*" by Moetaz I. Attalla, Stuart J. Day, Tony Lange, William Lilley, and Scott Morgan (2008).
- "*Factors Affecting Anfo Fumes Production*" by James H. Rowland III and Richard Mainiero (2001).
- AP-42 Chapter 11.9 “Western Surface Coal Mining” Tables 11.9-1 (10/98)

Chino Mine Blasting (Unit CM BLST)

- "*NO_x Emissions from Blasting Operations in Open-Cut Coal Mining*" by Moetaz I. Attalla, Stuart J. Day, Tony Lange, William Lilley, and Scott Morgan (2008).
- "*Factors Affecting Anfo Fumes Production*" by James H. Rowland III and Richard Mainiero (2001).
- AP-42 Chapter 11.9 “Western Surface Coal Mining” Table 11.9-1 (10/98)

Drilling

Cobre Mine and Chino Mine Drilling (Unit CBM DRILL & CM DRILL)

- AP-42 Chapter 11.9 "Western Surface Coal Mining" Tables 11.9-2 and 11.9-4 (10/98)

Hurly Power Plant

Gas Turbine (Unit F-2-1-1.4)

- AP-42 Chapter 3.1 "Stationary Gas Turbines" Table 3.1-3 (04/00)
- 40 CFR 98 Subpart A, Table A-1
- 40 CFR 98 Subpart C, Table C-1, C-2

Steam Generator (Unit F-2-1-1.5)

- AP-42 Chapter 1.4 "Natural Gas Combustion" Tables 1.4-2 and 1.4-3 (07/98)
- 40 CFR 98 Subpart A, Table A-1
- 40 CFR 98 Subpart C, Table C-1, C-2

Filter/Blending Plant

Filter/Blending Plant (Unit FLTR/BLND)

- AP-42 Section 13.2.4 "Aggregate Handling and Storage Piles" (11/06) Equation 1
- AP-42 Chapter 11.24 "Metallic Minerals Processing" Table 11.24-2 (08/82)

Gasoline Dispensing Facilities

Gasoline Dispensing Facilities (Units GDF1, GDF2, GDF3, GDF4, GDF5)

- AP-42 Chapter 7.1 "Organic Liquid Storage Tanks" (09/25) for vertical and horizontal fixed roof tanks
- Gasoline Material Safety Data Sheet

Ivanhoe Concentrator

Enclosed Ore Transfer Point (Unit CV-01C)

- Chino 2024 TRI assay data received from Ellen Silk
- AP-42 Chapter 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing" Table 11.19.2-2 (08/04)
- Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006

Ivanhoe Concentrators (Units LHS-01 and LUS-01)

- AP-42 Chapter 11.17 "Lime Manufacturing," Tables 11.17-4 (02/98)
- Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006

Ivanhoe Concentrator Crusher Dump (Unit PC DUMP)

- Chino 2024 TRI assay data received from Ellen Silk
- AP-42 Chapter 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing" Table 11.19.2-2 (08/04)
- Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006

Ivanhoe Concentrator Primary Crusher Baghouse Emissions (Unit PC-01/PCBH-01)

- Chino 2024 TRI assay data received from Ellen Silk
- AP-42 Chapter 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing" Table 11.19.2-2 (08/04)
- Manufacturer specification sheet

Ivanhoe Intermediate Ore Stockpile (Unit IOS)

- AP-42 Fourth Edition Chapter 11.2.3.1 "Aggregate Handling and Storage Piles" (5/83) Equation 3
- AP-42 Section 13.2.5 "Industrial Wind Erosion" (11/06), pg 13.2.5-3
- 2020 – 2024 Precipitation Data from the South Stockpile Met Station
- 2020 – 2024 Wind Speed Data from the South Stockpile Met Station

SAG Mill Conveyor No.1 & SAG Mill Conveyor No.2 (Unit SAG F1)

- Chino 2024 TRI assay data received from Ellen Silk
  AP-42 Section 13.2.4 "Aggregate Handling and Storage Piles" (11/06)
- AP-42 Chapter 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing" Table 11.19.2-2 (08/04)
- Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006.

Stacker Conveyor Drop Point (Unit SCDP)

- Chino 2024 TRI assay data received from Ellen Silk
- AP-42 Chapter 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing" Table 11.19.2-2 (08/04)
- Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006.

SAG Tunnel and Baghouse (Unit SAG/SAG-BH)

- Chino 2024 TRI assay data received from Ellen Silk
- AP-42 Chapter 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing" Table 11.19.2-2 (08/04)
- Manufacturer specification sheet

SAG Mill Floatation (Unit FLOAT)

- 2022 – 2024 monthly reagent usage
- October 2009 Henderson Mill Study

Recycle Crusher and Baghouse (Unit RC-01/RCB-01)

- Chino Mines 2024 TRI data from Ellen Silk
- AP-42 Chapter 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing" Table 11.19.2-2 (08/04)

Screening Plant

Screen Plants (Unit CB SCRN)

- AP-42 Section 13.2.4 "Aggregate Handling and Storage Piles" (11/06)
- AP-42 Chapter 11.19.2 "Crushed Stone Processing and Pulverized Mineral Processing" Table 11.19.2-2 (08/04)
- Background Document for AP-42, Chapter 13.2.4, Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors - November 2006

Screening Engine (Unit CB SCRN ENG)

- CAT specification sheet for C6.6 ACERT industrial open power unit
- AP-42 Chapter 3.3 "Gasoline and Diesel Industrial Engines" Table 3.3-1, Table 3.3-2 (04/25)
- 40 CFR 98 Subpart A, Table A-1
- 40 CFR 98 Subpart C, Table C-1, C-2

Solvent Extraction/Electrowinning (SX/EW) Plant

SXEW Plant Ten Mixer/Settler Tanks (Unit SXEW 8MST)

- BHP Copper VOC study conducted in 1997
- MSDS for the following chemicals:
  - Acorga OR25 solvent extraction reagent
  - Acorga M5910 extraction reagent
  - Acorga M5640 solvent extraction reagent
  - LIX 684 N-LV
  - Escaid 115
  - Escaid 110
  - ShellSol D70
  - Penreco 170ES
  - ORFOM SX 80 solvent extraction diluent

SXEW Boilers (Units SXEW Boiler No. 1, SXEW Boiler No. 2, & SXEW Boiler No. 3)

- AP-42 Section 1.5 "Liquefied Petroleum Gas Combustion" (7/08), Table 1.5-1
- 40 CFR 98 Table C-1, C-2
- 40 CFR 98 Subpart A, Table A-1
- Boiler Derating Manufacture Data

SXEW Plant Raffinate Tank (Units SXEW RT)

- MSDS for the following chemicals:
    - Acorga OR25 solvent extraction reagent
    - Acorga M5910 extraction reagent
    - Acorga M5640 solvent extraction reagent
    - LIX 684 N-LV
    - Escaid 115
    - Escaid 110
    - Gasoline, all grades
    - ShellSol D70
    - Penreco 170ES
    - ORFOM SX 80 solvent extraction diluent

SXEW Plant Acid Tank House (Units SXEW SAT)

- Equations from the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 2001 Fundamentals Handbook

White House Crusher and Screening Plant

White House Crushing and Screening Plant (Unit WH Crush)

- AP-42 Chapter 11.19.2 “Crushed Stone Processing and Pulverized Mineral Processing” Table 11.19.2-2 (08/04)

Evaporators

Mechanical Evaporators (Units EVAP1 through EVAP4)

- Trinity Consultants study results
- Reisman Frisbie “Calculating Realistic PM_{10} Emissions from Cooling Towers”
- Cole, C. F., & Fabrick, A. J. (1984). Surface Mine Pit Retention. Journal of the Air Pollution Control Association, 34(6), 674–675.
- Estrella Pit Lake Analytical Data

AP-42 Documents

1.4 Natural Gas Combustion

1.4.1 General[1-2]

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

1.4.2 Firing Practices[3-5]

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

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

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

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

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

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.

1.5 Liquefied Petroleum Gas Combustion

Disclaimer: Emission factors in AP-42 are neither EPA-recommended emission limits (e.g., best available control technology or BACT, or lowest achievable emission rate or LAER) nor standards (e.g., National Emission Standard for Hazardous Air Pollutants or NESHAP, or New Source Performance Standards or NSPS). Use of these factors as source-specific permit limits and/or as emission regulation compliance determinations is **NOT** recommended by EPA. Because emission factors essentially represent an average of a range of emission rates, approximately half of the subject sources are expected to have emission rates greater than the emission factor, and the other half are expected to have emission rates less than the emission factor. As such, EPA does not recommend using emission factors as limits or standards. This could cause, for example, a permit limit using an AP-42 emission factor resulting in approximately half of the sources being in noncompliance. We recommend source testing be done for the best possible emission values. For more information on the use of emission factors, please refer to the AP-42 Introduction.

1.5.1 General[1]

Liquefied petroleum gas (LPG or LP-gas) consists of propane, propylene, butane, and butylenes; the product used for domestic heating is composed primarily of propane. This gas, obtained mostly from gas wells (but also, to a lesser extent, as a refinery by-product) is stored as a liquid under moderate pressures. There are three grades of LPG available as heating fuels: commercial-grade propane, engine fuel-grade propane (also known as HD-5 propane), and commercial-grade butane. In addition, there are high-purity grades of LPG available for laboratory work and for use as aerosol propellants. Specifications for the various LPG grades are available from the American Society for Testing and Materials (ASTM) and the Gas Processors Association (GPA). A typical heating value for commercial-grade propane and HD-5 propane is 90,500 British thermal units per gallon (Btu/gal), after vaporization; for commercial-grade butane, the value is 97,400 Btu/gal.

The largest market for LPG is the domestic/commercial market, followed by the chemical industry (where it is used as a petrochemical feedstock) and the agriculture industry. Propane is also used as an engine fuel as an alternative to gasoline and as a standby fuel for facilities that have interruptible natural gas service contracts.

1.5.2 Firing Practices[2]

The combustion processes that use LPG are very similar to those that use natural gas. The use of LPG in commercial and industrial applications may require a vaporizer to provide the burner with the proper mix of air and fuel. The burner itself will usually have different fuel injector tips, as well as different fuel-to-air ratio controller settings than a natural gas burner, since the LPG stoichiometric requirements are different than natural gas requirements. LPG is fired as a primary and backup fuel in small commercial and industrial boilers and space heating equipment and can be used to generate heat and process steam for industrial facilities and in most domestic appliances that typically use natural gas.

Table 1.5-1. EMISSION FACTORS FOR LPG COMBUSTION[a]

EMISSION FACTOR RATING: E

Pollutant	Butane Emission Factor ($lb/10^3$ gal) Industrial Boilers[b] (SCC 10201001)	Butane Emission Factor ($lb/10^3$ gal) Commercial Boilers[c] (SCC 10301001)	Propane Emission Factor ($lb/10^3$ gal) Industrial Boilers[b] (SCC 10201002)	Propane Emission Factor ($lb/10^3$ gal) Commercial Boilers[c] (SCC 10301002)
PM, Filterable [d]	0.2	0.2	0.2	0.2
PM, Condensable	0.6	0.6	0.5	0.5
PM, Total	0.8	0.8	0.7	0.7
SO_2[e]	0.09S	0.09S	0.10S	0.10S
NO_x[f]	15	15	13	13
N_2O[g]	0.9	0.9	0.9	0.9
CO_2[h,j]	14,300	14,300	12,500	12,500
CO	8.4	8.4	7.5	7.5
TOC	1.1	1.1	1	1
CH_4[k]	0.2	0.2	0.2	0.2

[a] Assumes PM, CO, and TOC emissions are the same, on a heat input basis, as for natural gas combustion. Use heat contents of 91.5 x 10^6 Btu/10^3 gallon for propane, 102 x 10^6 Btu/10^3 gallon for butane, and 1020 x 10^6 Btu/10^6 scf for methane when calculating an equivalent heat input basis. For example, the equation for converting from methane emissions factors to propane emissions factors is as follows: lb pollutant/10^3 gallons of propane = (lb pollutant /10^6 ft^3 methane) * (91.5 x 10^6 Btu/10^3 gallons of propane) / (1020 x 10^6 Btu/10^6 scf of methane). The NO_x emission factors have been multiplied by a correction factor of 1.5, which is the approximate ratio of propane/butane NO_x emissions to natural gas NO_x emissions. To convert from lb/10^3 gal to kg/10^3 L, multiply by 0.12. SCC = Source Classification Code.

[b] Heat input capacities generally between 10 and 100 million Btu/hour.

[c] Heat input capacities generally between 0.3 and 10 million Btu/hour.

[d] Filterable particulate matter (PM) is the PM collected on or prior to the filter of an EPA Method 5 (or equivalent) sampling train. For natural gas, a fuel with similar combustion characteristics, all PM is less than 10 µm in aerodynamic equivalent diameter (PM-10).

[e] S equals the sulfur content expressed in gr/100 ft^3 gas. For example, if the butane sulfur content is 0.18 gr/100 ft^3, the emission factor would be (0.09 x 0.18) = 0.016 lb of SO_2/10^3 gal butane burned.

[f] Expressed as NO_2.

[g] Reference 12.

[h] Assuming 99.5% conversion of fuel carbon to CO_2.

[j] EMISSION FACTOR RATING = C.

[k] Reference 13.

3.1 Stationary Gas Turbines

3.1.1 General[1]

Gas turbines, also called "combustion turbines", are used in a broad scope of applications including electric power generation, cogeneration, natural gas transmission, and various process applications. Gas turbines are available with power outputs ranging in size from 300 horsepower (hp) to over 268,000 hp, with an average size of 40,200 hp.[2] The primary fuels used in gas turbines are natural gas and distillate (No. 2) fuel oil.[3]

3.1.2 Process Description[1,2]

A gas turbine is an internal combustion engine that operates with rotary rather than reciprocating motion. Gas turbines are essentially composed of three major components: compressor, combustor, and power turbine. In the compressor section, ambient air is drawn in and compressed up to 30 times ambient pressure and directed to the combustor section where fuel is introduced, ignited, and burned. Combustors can either be annular, can-annular, or silo. An annular combustor is a doughnut-shaped, single, continuous chamber that encircles the turbine in a plane perpendicular to the air flow. Can-annular combustors are similar to the annular; however, they incorporate several can-shaped combustion chambers rather than a single continuous chamber. Annular and can-annular combustors are based on aircraft turbine technology and are typically used for smaller scale applications. A silo (frame-type) combustor has one or more combustion chambers mounted external to the gas turbine body. Silo combustors are typically larger than annular or can-annular combustors and are used for larger scale applications.

The combustion process in a gas turbine can be classified as diffusion flame combustion, or lean-premix staged combustion. In the diffusion flame combustion, the fuel/air mixing and combustion take place simultaneously in the primary combustion zone. This generates regions of near-stoichiometric fuel/air mixtures where the temperatures are very high. For lean-premix combustors, fuel and air are thoroughly mixed in an initial stage resulting in a uniform, lean, unburned fuel/air mixture which is delivered to a secondary stage where the combustion reaction takes place. Manufacturers use different types of fuel/air staging, including fuel staging, air staging, or both; however, the same staged, lean-premix principle is applied. Gas turbines using staged combustion are also referred to as Dry Low NO_X combustors. The majority of gas turbines currently manufactured are lean-premix staged combustion turbines.

Hot gases from the combustion section are diluted with additional air from the compressor section and directed to the power turbine section at temperatures up to 2600°F. Energy from the hot exhaust gases, which expand in the power turbine section, are recovered in the form of shaft horsepower. More than 50 percent of the shaft horsepower is needed to drive the internal compressor and the balance of recovered shaft horsepower is available to drive an external load.[2] Gas turbines may have one, two, or three shafts to transmit power between the inlet air compression turbine, the power turbine, and the exhaust turbine. The heat content of the exhaust gases exiting the turbine can either be discarded without heat recovery (simple cycle); recovered with a heat exchanger to preheat combustion air entering the combustor (regenerative cycle); recovered in a heat recovery steam generator to raise process steam, with or without supplementary firing (cogeneration); or recovered, with or without supplementary firing, to raise steam for a steam turbine Rankine cycle (combined cycle or repowering).

Table 3.1-3. EMISSION FACTORS FOR HAZARDOUS AIR POLLUTANTS FROM NATURAL GAS-FIRED STATIONARY GAS TURBINES[a]

Emission Factors[b] - Uncontrolled		
Pollutant	Emission Factor (lb/MMBtu)[c]	Emission Factor Rating
1,3-Butadiene[d]	< 4.3 E-07	D
Acetaldehyde	4.0 E-05	C
Acrolein	6.4 E-06	C
Benzene[e]	1.2 E-05	A
Ethylbenzene	3.2 E-05	C
Formaldehyde[f]	7.1 E-04	A
Naphthalene	1.3 E-06	C
PAH	2.2 E-06	C
Propylene Oxide[d]	< 2.9 E-05	D
Toluene	1.3 E-04	C
Xylenes	6.4 E-05	C

[a] SCC for natural gas-fired turbines include 2-01-002-01, 2-02-002-01, 2-02-002-03, 2-03-002-02, and 2-03-002-03. Hazardous Air Pollutants as defined in Section 112 (b) of the *Clean Air Act*.

[b] Factors are derived from units operating at high loads (≥ 80 percent load) only. For information on units operating at other loads, consult the background report for this chapter (Reference 16), available at "www.epa.gov/ttn/chief".

[c] Emission factors based on an average natural gas heating value (HHV) of 1020 Btu/scf at 60°F. To convert from (lb/MMBtu) to (lb/10^6 scf), multiply by 1020. These emission factors can be converted to other natural gas heating values by multiplying the given emission factor by the ratio of the specified heating value to this heating value.

[d] Compound was not detected. The presented emission value is based on one-half of the detection limit.

[e] Benzene with SCONOX catalyst is 9.1 E-07, rating of D.

[f] Formaldehyde with SCONOX catalyst is 2.0 E-05, rating of D.

3.2 Natural Gas-fired Reciprocating Engines

Disclaimer: Emission factors in AP-42 are neither EPA-recommended emission limits (e.g., best available control technology or BACT, or lowest achievable emission rate or LAER) nor standards (e.g., National Emission Standard for Hazardous Air Pollutants or NESHAP, or New Source Performance Standards or NSPS). Use of these factors as source-specific permit limits and/or as emission regulation compliance determinations is **NOT** recommended by EPA. Because emission factors essentially represent an average of a range of emission rates, approximately half of the subject sources are expected to have emission rates greater than the emission factor, and the other half are expected to have emission rates less than the emission factor. As such, EPA does not recommend using emission factors as limits or standards. This could cause, for example, a permit limit using an AP-42 emission factor resulting in approximately half of the sources being in noncompliance. We recommend source testing be done for the best possible emission values. For more information on the use of emission factors, please refer to the AP-42 Introduction.

3.2.1 General [1-3]

Most natural gas-fired reciprocating engines are used in the natural gas industry at pipeline compressor and storage stations and at gas processing plants. These engines are used to provide mechanical shaft power for compressors and pumps. At pipeline compressor stations, engines are used to help move natural gas from station to station. At storage facilities, they are used to help inject the natural gas into high pressure natural gas storage fields. At processing plants, these engines are used to transmit fuel within a facility and for process compression needs (e.g., refrigeration cycles). The size of these engines ranges from 50 brake horsepower (bhp) to 11,000 bhp. In addition, some engines in service are 50 - 60 years old and consequently have significant differences in design compared to newer engines, resulting in differences in emissions and the ability to be retrofitted with new parts or controls.

At pipeline compressor stations, reciprocating engines are used to power reciprocating compressors that move compressed natural gas (500 - 2000 psig) in a pipeline. These stations are spaced approximately 50 to 100 miles apart along a pipeline that stretches from a gas supply area to the market area. The reciprocating compressors raise the discharge pressure of the gas in the pipeline to overcome the effect of frictional losses in the pipeline upstream of the station, in order to maintain the required suction pressure at the next station downstream or at various downstream delivery points. The volume of gas flowing and the amount of subsequent frictional losses in a pipeline are heavily dependent on the market conditions that vary with weather and industrial activity, causing wide pressure variations. The number of engines operating at a station, the speed of an individual engine, and the amount of individual engine horsepower (load) needed to compress the natural gas is dependent on the pressure of the compressed gas received by the station, the desired discharge pressure of the gas, and the amount of gas flowing in the pipeline. Reciprocating compressors have a wider operating bandwidth than centrifugal compressors, providing increased flexibility in varying flow conditions. Centrifugal compressors powered by natural gas turbines are also used in some stations and are discussed in another section of this document.

A compressor in storage service pumps gas from a low-pressure storage field (500 - 800 psig) to a higher pressure transmission pipeline (700 - 1000 psig) and/or pumps gas from a low-pressure transmission line (500 - 800 psig) to a higher pressure storage field (800 - 2000 psig).

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES[a]
(SCC 2-02-002-54)

Pollutant	Emission Factor (lb/MMBtu)b (fuel input)	Emission Factor Rating
Criteria Pollutants and Greenhouse Gases		
NO_x [c] 90 - 105% Load	4.08 E+00	B
NO_x [c] <90% Load	8.47 E-01	B
CO [c] 90 - 105% Load	3.17 E-01	C
CO [c] <90% Load	5.57 E-01	B
CO_2 [d]	1.10 E+02	A
SO_2 [e]	5.88 E-04	A
TOC[f]	1.47 E+00	A
Methane[g]	1.25 E+00	C
VOC[h]	1.18 E-01	C
PM10 (filterable)[i]	7.71 E-05	D
PM2.5 (filterable)[i]	7.71 E-05	D
PM Condensable[j]	9.91 E-03	D
Trace Organic Compounds		
1,1,2,2-Tetrachloroethane[k]	<4.00 E-05	E
1,1,2-Trichloroethane [k]	<3.18 E-05	E
1,1-Dichloroethane	<2.36 E-05	E
1,2,3-Trimethylbenzene	2.30 E-05	D
1,2,4-Trimethylbenzene	1.43 E-05	C
1,2-Dichloroethane	<2.36 E-05	E
1,2-Dichloropropane	<2.69 E-05	E
1,3,5-Trimethylbenzene	3.38 E-05	D
1,3-Butadiene [k]	2.67E-04	D
1,3-Dichloropropene [k]	<2.64 E-05	E
2-Methylnaphthalene [k]	3.32 E-05	C
2,2,4-Trimethylpentane [k]	2.50 E-04	C
Acenaphthene [k]	1.25 E-06	C

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES (Continued)

Pollutant	Emission Factor (lb/MMBtu)b (fuel input)	Emission Factor Rating
Acenaphthylene[k]	5.53 E-06	C
Acetaldehydek,[l]	8.36 E-03	A
Acroleink,[l]	5.14 E-03	A
Benzene[k]	4.40 E-04	A
Benzo(b)fluoranthene[k]	1.66 E-07	D
Benzo(e)pyrene[k]	4.15 E-07	D
Benzo(g,h,i)perylene[k]	4.14 E-07	D
Biphenyl[k]	2.12 E-04	D
Butane	5.41 E-04	D
Butyr/Isobutyraldehyde	1.01 E-04	C
Carbon Tetrachloride[k]	<3.67 E-05	E
Chlorobenzene[k]	<3.04 E-05	E
Chloroethane	1.87 E-06	D
Chloroform[k]	<2.85 E-05	E
Chrysene[k]	6.93 E-07	C
Cyclopentane	2.27 E-04	C
Ethane	1.05 E-01	C
Ethylbenzene[k]	3.97 E-05	B
Ethylene Dibromide[k]	<4.43 E-05	E
Fluoranthene[k]	1.11 E-06	C
Fluorene[k]	5.67 E-06	C
Formaldehyde[k, l]	5.28 E-02	A
Methanol[k]	2.50 E-03	B
Methylcyclohexane	1.23 E-03	C
Methylene Chloride[k]	2.00 E-05	C
n-Hexane[k]	1.11 E-03	C
n-Nonane	1.10 E-04	C

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES (Continued)

Pollutant	Emission Factor (lb/MMBtu)b (fuel input)	Emission Factor Rating
n-Octane	3.51 E-04	C
n-Pentane	2.60 E-03	C
Naphthalene[k]	7.44 E-05	C
PAH[k]	2.69 E-05	D
Phenanthrene[k]	1.04 E-05	D
Phenol[k]	2.40 E-05	D
Propane	4.19 E-02	C
Pyrene[k]	1.36 E-06	C
Styrene[k]	<2.36 E-05	E
Perchloroethylene[k, m]	2.48 E-06	D
Toluene[k]	4.08 E-04	B
Vinyl Chloride[k]	1.49 E-05	C
Xylene[k]	1.84 E-04	B

[a] Reference 7. Factors represent uncontrolled levels. For NO_x, CO, and PM10, "uncontrolled" means no combustion or add-on controls; however, the factor may include turbocharged units. For all other pollutants, "uncontrolled" means no oxidation control; the data set may include units with control techniques used for NO_x control, such as PCC and SCR for lean burn engines, and PSC for rich burn engines. Factors are based on large population of engines. Factors are for engines at all loads, except as indicated. SCC = Source Classification Code. TOC = Total Organic Compounds. PM-10 ≤ Particulate Matter 10 microns (µm) aerodynamic diameter. A "<" sign in front of a factor means that the corresponding emission factor is based on one-half of the method detection limit.

[b] Emission factors were calculated in units of (lb/MMBtu) based on procedures in EPA Method 19. To convert from (lb/MMBtu) to (lb/10^6 scf), multiply by the heat content of the fuel. If the heat content is not available, use 1020 Btu/scf. To convert from (lb/MMBtu) to (lb/hp-hr) use the following equation:

lb/hp-hr = (lb/MMBtu) (heat input, MMBtu/hr) (1/operating HP, 1/hp)

[c] Emission tests with unreported load conditions were not included in the data set.

[d] Based on 99.5% conversion of the fuel carbon to CO_2. CO_2 [lb/MMBtu] = (3.67)(%CON)(C)(D)(1/h), where %CON = percent conversion of fuel carbon to CO_2, C = carbon content of fuel by weight (0.75), D = density of fuel, 4.1 E+04 lb/10^6 scf, and

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES (Continued)

h = heating value of natural gas (assume 1020 Btu/scf at 60°F).
[e] Based on 100% conversion of fuel sulfur to SO_2. Assumes sulfur content in natural gas of 2,000 gr/10^6 scf.
[f] Emission factor for TOC is based on measured emission levels from 22 source tests.
[g] Emission factor for methane is determined by subtracting the VOC and ethane emission factors from the TOC emission factor. Measured emission factor for methane compares well with the calculated emission factor, 1.31 lb/MMBtu vs. 1.25 lb/MMBtu, respectively.
[h] VOC emission factor is based on the sum of the emission factors for all speciated organic compounds less ethane and methane.
[i] Considered ≤ 1 µm in aerodynamic diameter. Therefore, for filterable PM emissions, PM10(filterable) = PM2.5(filterable).
[j] PM Condensable = PM Condensable Inorganic + PM-Condensable Organic
[k] Hazardous Air Pollutant as defined by Section 112(b) of the Clean Air Act.
[l] For lean burn engines, aldehyde emissions quantification using CARB 430 may reflect interference with the sampling compounds due to the nitrogen concentration in the stack. The presented emission factor is based on FTIR measurements. Emissions data based on CARB 430 are available in the background report.
[m]Error identified in pollutant name – October 2024. Pollutant name changed from tetrachloroethane to perchloroethylene.

3.3 Gasoline And Diesel Industrial Engines

Disclaimer: Emission factors in AP-42 are neither EPA-recommended emission limits (e.g., best available control technology or BACT, or lowest achievable emission rate or LAER) nor standards (e.g., National Emission Standard for Hazardous Air Pollutants or NESHAP, or New Source Performance Standards or NSPS). Use of these factors as source-specific permit limits and/or as emission regulation compliance determinations is **NOT** recommended by EPA. Because emission factors essentially represent an average of a range of emission rates, approximately half of the subject sources are expected to have emission rates greater than the emission factor, and the other half are expected to have emission rates less than the emission factor. As such, EPA does not recommend using emission factors as limits or standards. This could cause, for example, a permit limit using an AP-42 emission factor resulting in approximately half of the sources being in noncompliance. We recommend source testing be done for the best possible emission values. For more information on the use of emission factors, please refer to the AP-42 Introduction.

3.3.1 General

The engine category addressed by this section covers a wide variety of industrial applications of both gasoline and diesel internal combustion (IC) engines such as aerial lifts, forklifts, mobile refrigeration units, generators, pumps, industrial sweepers/scrubbers, material handling equipment (such as conveyors), and portable well-drilling equipment. The three primary fuels for reciprocating IC engines are gasoline, diesel fuel oil (No.2), and natural gas. Gasoline is used primarily for mobile and portable engines. Diesel fuel oil is the most versatile fuel and is used in IC engines of all sizes. The rated power of these engines covers a rather substantial range, up to 250 horsepower (hp) for gasoline engines and up to 600 hp for diesel engines. (Diesel engines greater than 600 hp are covered in Section 3.4, "Large Stationary Diesel And All Stationary Dual-fuel Engines".) Understandably, substantial differences in engine duty cycles exist. It was necessary, therefore, to make reasonable assumptions concerning usage in order to formulate some of the emission factors.

3.3.2 Process Description

All reciprocating IC engines operate by the same basic process. A combustible mixture is first compressed in a small volume between the head of a piston and its surrounding cylinder. The mixture is then ignited, and the resulting high-pressure products of combustion push the piston through the cylinder. This movement is converted from linear to rotary motion by a crankshaft. The piston returns, pushing out exhaust gases, and the cycle is repeated.

There are 2 methods used for stationary reciprocating IC engines: compression ignition (CI) and spark ignition (SI). This section deals with both types of reciprocating IC engines. All diesel-fueled engines are compression ignited, and all gasoline-fueled engines are spark ignited.

In CI engines, combustion air is first compression heated in the cylinder, and diesel fuel oil is then injected into the hot air. Ignition is spontaneous because the air temperature is above the autoignition temperature of the fuel. SI engines initiate combustion by the spark of an electrical discharge. Usually the fuel is mixed with the air in a carburetor (for gasoline) or at the intake valve (for natural gas), but occasionally the fuel is injected into the compressed air in the cylinder.

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

Pollutant	Gasoline Fuel (SCC 20200301, 20300301) Emission Factor (lb/hp-hr) (power output)	Gasoline Fuel (SCC 20200301, 20300301) Emission Factor (lb/MMBtu) (fuel input)	Diesel Fuel (SCC 20200102, 20300101) Emission Factor (lb/hp-hr) (power output)	Diesel Fuel (SCC 20200102, 20300101) Emission Factor (lb/MMBtu) (fuel input)	Emission Factor Rating
NO_x	0.011	1.63	0.031	4.41	D
CO	6.96 E-03[d]	0.99[d]	6.68 E-03	0.95	D
SO_x	5.91 E-04	0.084	2.05 E-03	0.29	D
PM-10[b]	7.21 E-04	0.10	2.20 E-03	0.31	D
CO_2[c]	1.08	154	1.15	164	B
Aldehydes	4.85 E-04	0.07	4.63 E-04	0.07	D
TOC - Exhaust	0.015	2.10	2.47 E-03	0.35	D
TOC - Evaporative	6.61 E-04	0.09	0.00	0.00	E
TOC - Crankcase	4.85 E-03	0.69	4.41 E-05	0.01	E
TOC - Refueling	1.08 E-03	0.15	0.00	0.00	E

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

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

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

[d] Instead of 0.439 lb/hp-hr (power output) and 62.7 lb/mmBtu (fuel input), the correct emissions factors values are 6.96 E-03 lb/hp-hr (power output) and 0.99 lb/mmBtu (fuel input), respectively. This is an editorial correction. March 24, 2009.

Table 3.3-2. SPECIATED ORGANIC COMPOUND EMISSION FACTORS FOR UNCONTROLLED DIESEL ENGINES[a]

EMISSION FACTOR RATING: E

Pollutant	Emission Factor (Fuel Input) (lb/MMBtu)
Benzene[b]	9.33 E-04
Toluene[b]	4.09 E-04
Xylenes[b]	2.85 E-04
Propylene[d]	2.58 E-03
1,3-Butadiene[b,c]	<3.91 E-05
Formaldehyde[b]	1.18 E-03
Acetaldehyde[b]	7.67 E-04
Acrolein[b]	<9.25 E-05
Naphthalene[b]	8.48 E-05
Acenaphthylene	<5.06 E-06
Acenaphthene	<1.42 E-06
Fluorene	2.92 E-05
Phenanthrene	2.94 E-05
Anthracene	1.87 E-06
Fluoranthene	7.61 E-06
Pyrene	4.78 E-06
Benzo(a)anthracene	1.68 E-06
Chrysene	3.53 E-07
Benzo(b)fluoranthene	<9.91 E-08
Benzo(k)fluoranthene	<1.55 E-07
Benzo(a)pyrene	<1.88 E-07
Indeno(1,2,3-cd)pyrene	<3.75 E-07
Dibenz(a,h)anthracene	<5.83 E-07
Benzo(g,h,i)perylene	<4.89 E-07
TOTAL PAH	1.68E-04

[a] Based on the uncontrolled levels of 2 diesel engines from References 6-7. Source Classification Codes 2-02-001-02, 2-03-001-01. To convert from lb/MMBtu to ng/J, multiply by 430.

[b] Hazardous air pollutant listed in the *Clean Air Act*.

[c] Based on data from 1 engine.

[d] The footnote indicating that Propylene is a CAA HAP compound was deleted on 10/27/2006. This is an editorial correction.

7.1 Organic Liquid Storage Tanks

Disclaimer: Emission factors in AP-42 are neither EPA-recommended emission limits (e.g., best available control technology or BACT, or lowest achievable emission rate or LAER) nor standards (e.g., National Emission Standard for Hazardous Air Pollutants or NESHAP, or New Source Performance Standards or NSPS). Use of these factors as source-specific permit limits and/or as emission regulation compliance determinations is NOT recommended by EPA. Because emission factors essentially represent an average of a range of emission rates, approximately half of the subject sources are expected to have emission rates greater than the emission factor, and the other half are expected to have emission rates less than the emission factor. As such, EPA does not recommend using emission factors as limits or standards. This could cause, for example, a permit limit using an AP-42 emission factor resulting in approximately half of the sources being in noncompliance. We recommend source testing be done for the best possible emission values. For more information on the use of emission factors, please refer to the AP-42 Introduction.

7.1.1 General

7.1.1.1 Scope

Section 7.1 presents emissions estimating methodologies for storage tanks of various types and operating conditions. The methodologies are intended for storage tanks that are properly maintained and in normal working condition. The methodologies do not address conditions of deteriorated or otherwise damaged materials of construction, nor do they address operating conditions that differ significantly from the scenarios described herein. To estimate losses that occur from underground gasoline storage tanks at service stations, please see AP-42 Section 5.2, “Transportation and Marketing of Petroleum Liquids.”

Sections 7.1.3.1 and 7.1.3.2 present emissions estimating methodologies for routine emissions from fixed roof tanks and floating roof tanks. Use of the terminology “routine emissions” to refer to standing and working losses applies only for the purposes of this document, and not for any other air quality purposes such as New Source Review (NSR) permitting. The equations for routine emissions were developed to estimate average annual losses for storage tanks, but provisions for applying the equations to shorter periods of time are addressed in Section 7.1.3.8.1. The equations for routine emissions are a function of temperatures that are derived from a theoretical energy transfer model. In order to simplify the calculations, default values were assigned to certain parameters in the energy transfer equations. The accuracy of the resultant equations for an individual tank depends upon how closely that tank fits the assumptions inherent to these default values. The associated uncertainty may be mitigated by using measured values for the liquid bulk temperature. The equations for routine emissions are not intended to include emissions from the following events (these are addressed separately):

a) To estimate losses that result from the landing of a floating roof. A separate methodology is presented for floating roof landing losses in Section 7.1.3.3.

b) To estimate losses that result from cleaning a tank. A separate methodology is presented for tank cleaning losses in Section 7.1.3.4.

c) To estimate losses from variable vapor space tanks. Variable vapor space tanks are discussed in Section 7.1.3.6.

procedures are valid for all volatile organic liquids and chemical mixtures. It is important to note that in all the emission estimation procedures the physical properties of the vapor do not include the noncondensibles in the atmosphere but only refer to the volatile components of the stored liquid. For example, the vapor-phase molecular weight is determined from the weighted average of the evaporated components of the stored liquid and does not include the contribution of atmospheric gases such as nitrogen and oxygen. To aid in the emission estimation procedures, a list of variables with their corresponding definitions was developed and is presented in Table 7.1-1.

The factors presented in AP-42 are those that are currently available and have been reviewed and approved by the U. S. Environmental Protection Agency. As storage tank equipment vendors design new floating decks and equipment, new emission factors may be developed based on that equipment. If the new emission factors are reviewed and approved, the emission factors will be added to AP-42 during the next update.

The emission estimation procedures outlined in this chapter have been used as the basis for the development of a software program to estimate emissions from storage tanks. The software program entitled "TANKS" is available through the U. S. Environmental Protection Agency website. While this software does not address all of the scenarios described in this chapter, known errors have been corrected and a new version, TANKS 5.1, is now available.

There are also commercially available storage tank emissions estimation software programs. Users of these programs are advised to understand the extent of agreement with AP-42 Chapter 7 calculation methodology and assume responsibility for the accuracy of the output as they have not been reviewed or approved by the EPA.

7.1.3.1 Routine Losses From Fixed Roof Tanks [8-14,22]

The following equations, provided to estimate standing and working loss emissions, apply to tanks with vertical cylindrical shells and fixed roofs and to tanks with horizontal cylindrical shells. These tanks must be substantially liquid- and vapor-tight. The equations are not intended to be used in estimating losses from tanks which have air or other gases injected into the liquid, or which store unstable or boiling stocks or mixtures of hydrocarbons or petrochemicals for which the vapor pressure is not known or cannot be readily predicted. Tanks containing aqueous mixtures in which phase separation has occurred, resulting in a free layer of oil or other volatile materials floating on top of the water, should have emissions estimated on the basis of properties of the free top layer.

Total routine losses from fixed roof tanks are equal to the sum of the standing loss and working loss:

$$L_T = L_S + L_W \quad (1\text{-}1)$$

where:

L_T = total routine losses, lb/yr
L_S = standing losses, lb/yr, see Equation 1-2
L_W = working losses, lb/yr, see Equation 1-37

7.1.3.1.1 Standing Loss

The standing loss, L_S, for a fixed roof tank refers to the loss of stock vapors as a result of tank vapor space breathing. Fixed roof tank standing losses can be estimated from Equation 1-2.

$$L_S = 365\ V_V\ W_V\ K_E\ K_S \tag{1-2}$$

where:

L_S = standing loss, lb/yr
V_V = vapor space volume, ft^3, see Equation 1-3
W_V = stock vapor density, lb/ft^3
K_E = vapor space expansion factor, per day
K_S = vented vapor saturation factor, dimensionless
365 = constant, the number of daily events in a year, (days/year)

Tank Vapor Space Volume, V_V - The tank vapor space volume is calculated using the following equation:

$$V_T = \left(\frac{\pi}{4} D^2\right) H_{TO} \tag{1-3}$$

where:

V_V = vapor space volume, ft^3
D = tank diameter, ft, see Equation 1-14 for horizontal tanks
H_{VO} = vapor space outage, ft, see Equation 1-18

The standing loss equation can be simplified by combining Equation 1-2 with Equation 1-3. The result is Equation 1-4.

$$L_S = 365 K_E \left(\frac{\pi}{4} D^2\right) H_{TO} K_S W_T \tag{1-4}$$

where:

L_S = standing loss, lb/yr
K_E = vapor space expansion factor, per day, see Equation 1-5, 1-12, or 1-13
D = diameter, ft, see Equation 1-14 for horizontal tanks
H_{VO} = vapor space outage, ft, see Equation 1-18; use $H_E/2$ from Equation 1-15 for horizontal tanks
K_S = vented vapor saturation factor, dimensionless, see Equation 1-23
W_V = stock vapor density, lb/ft^3, see Equation 1-24
365 = constant, the number of daily events in a year, (days/year)

Vapor Space Expansion Factor, K_E

- The calculation of the vapor space expansion factor, K_E, depends upon the properties of the liquid in the tank and the breather vent settings, as shown in Equation 1-5. As shown in the equation, K_E is greater than zero. If K_E is less than zero, standing losses will not occur. In that K_E

represents the fraction of vapors in the vapor space that are expelled by a given increase in temperature, a value of 1 would indicate that the entire vapor space has been expelled. Thus the value of K_E must be less than 1, in that it is not physically possible to expel more than 100% of what is present to begin with.

$$0 < K_E \leq 1$$

$$K_E = \frac{\Delta T_V}{T_{LA}} + \frac{\Delta P_V - \Delta P_B}{P_A - P_{VA}} \quad (1\text{-}5)$$

where:

ΔT_V = average daily vapor temperature range, °R; see Note 1 to Equation 1-5
ΔP_V = average daily vapor pressure range, psi; see Note 2 to Equation 1-5
ΔP_B = breather vent pressure setting range, psi; see Note 3 to Equation 1-5
P_A = atmospheric pressure, psia
P_{VA} = vapor pressure at average daily liquid surface temperature, psia; see Note 1 to Equation 1-24 and Note 2 to Equation 1-24
T_{LA} = average daily liquid surface temperature, °R; see Note 3 to Equation 1-24

Notes on Equation 1-5:

Note 1 to Equation 1-5. The average daily vapor temperature range, ΔT_V, refers to the daily temperature range of the tank vapor space averaged over all the days in the given period of time, such as one year, and should not be construed as being applicable to an individual day. The average daily vapor temperature range is calculated for an uninsulated tank using Equation 1-6.

$$\Delta T_V = \left(1 - \frac{0.8}{2.2\,(H_S/D) + 1.9}\right)\Delta T_A + \frac{0.042\alpha_R I + 0.026(H_S/D)\alpha_S I}{2.2\,(H_S/D) + 1.9} \quad (1\text{-}6)$$

where:

ΔT_V = average daily vapor temperature range, °R
H_S = tank shell height, ft
D = tank diameter, ft,
ΔT_A = average daily ambient temperature range, °R; see Note 4 to Equation 1-5
α_R = tank roof surface solar absorptance, dimensionless; see Table 7.1-6
α_S = tank shell surface solar absorptance, dimensionless; see Table 7.1-6
I = average daily total insolation factor, Btu/ft^2 d; see Table 7.1-7.

API assigns a default value of $H_S/D = 0.5$ and an assumption of $\alpha_R = \alpha_S$, resulting in the simplified equation shown below for an uninsulated tank:[22]

$$\Delta T_V = 0.7\,\Delta T_A + 0.02\,\alpha\,I \quad (1\text{-}7)$$

where:

α = average tank surface solar absorptance, dimensionless

- For purposes of estimating emissions, a storage tank should be deemed insulated only if the roof and shell are both sufficiently insulated so as to minimize heat exchange with ambient air. If only the shell is insulated, and not the roof, the temperature equations are independent of H_S/D. Also, there likely will be sufficient heat exchange through the roof such that Equation 1-7 would be applicable.

A more accurate method of accounting for the average daily vapor temperature range, ΔT_V, in partially insulated scenarios is given below. When the tank shell is insulated but the tank roof is not, heat gain to the tank from insolation is almost entirely through the tank roof and thus the liquid surface temperature is not sensitive to H_S/D.

$$\Delta T_V = 0.6\,\Delta T_A + 0.02\,\alpha_R\,I \quad (1\text{-}8)$$

In the case of a fully insulated tank maintained at constant temperature, the average daily vapor temperature range, ΔT_V, should be taken as zero. This assumption that ΔT_V is equal to zero addresses only temperature differentials resulting from the diurnal ambient temperature cycle. In the case of cyclic heating of the bulk liquid, see Section 7.1.3.8.4.

Note 2 on Equation 1-5. The average daily vapor pressure range, ΔP_V, refers to the daily vapor pressure range at the liquid surface temperature averaged over all the days in the given period of time, such as one year, and should not be construed as being applicable to an individual day. The average daily vapor pressure range can be calculated using the following equation:

$$\Delta P_V = P_{VX} - P_{VN} \quad (1\text{-}9)$$

where:

ΔP_V = average daily vapor pressure range, psia
P_{VX} = vapor pressure at the average daily maximum liquid surface temperature, psia; see Note 5 to Equation 1-5
P_{VN} = vapor pressure at the average daily minimum liquid surface temperature, psia; see Note 5 to Equation 1-5

See Section 7.1.6.1 for a more approximate equation for ΔP_V that was used historically, but which is no longer recommended.

In the case of a fully insulated tank maintained at constant temperature, the average daily vapor pressure range, ΔP_V, should be taken as zero, as discussed for the vapor temperature range in Note 1 to Equation 1-5.

Note 3 on Equation 1-5. The breather vent pressure setting range, ΔP_B, is calculated using the following equation:

$$\Delta P_B = P_{BP} - P_{BV} \quad (1\text{-}10)$$

where:

ΔP_B = breather vent pressure setting range, psig
P_{BP} = breather vent pressure setting, psig
P_{BV} = breather vent vacuum setting, psig

- If specific information on the breather vent pressure setting and vacuum setting is not available, assume 0.03 psig for P_{BP} and -0.03 psig for P_{BV} as typical values. If the fixed roof tank is of bolted or riveted construction in which the roof or shell plates are not vapor tight, assume that $\Delta P_B = 0$, even if a breather vent is used.

Note 4 on Equation 1-5. The average daily ambient temperature range, ΔT_A, refers to the daily ambient temperature range averaged over all of the days in the given period of time, such as one year, and should not be construed as being applicable to an individual day. The average daily ambient temperature range is calculated using the following equation:

$$\Delta T_A = T_{AX} - T_{AN} \quad (1\text{-}11)$$

where:

ΔT_A = average daily ambient temperature range, °R
T_{AX} = average daily maximum ambient temperature, °R
T_{AN} = average daily minimum ambient temperature, °R

- Table 7.1-7 gives historical values of T_{AX} and T_{AN} in degrees Fahrenheit for selected cities in the United States. These values are converted to degrees Rankine by adding 459.67.

Note 5 on Equation 1-5. The vapor pressures associated with the average daily maximum and minimum liquid surface temperatures, P_{VX} and P_{VN}, respectively, are calculated by substituting the corresponding temperatures, T_{LX} and T_{LN}, into Equation 1-27 or 1-28 after converting the temperatures to the units indicated for the respective equation. If T_{LX} and T_{LN} are unknown, Figure 7.1-17 can be used to calculate their values. In the case of a fully insulated tank maintained at constant temperature, the average daily vapor pressure range, ΔP_V, should be taken as zero.

If the liquid stored in the fixed roof tank has a true vapor pressure less than 0.1 psia and the tank breather vent settings are not greater than ±0.03 psig, Equation 1-12 or Equation 1-13 may be used with an acceptable loss in accuracy.

If the tank location and tank color and condition are known, K_E may be calculated using the following equation in lieu of Equation 1-5:

$$K_E = 0.0018 \Delta T_V = 0.0018 [0.7 (T_{AX} - T_{AN}) + 0.02 \alpha I] \quad (1\text{-}12)$$

where:

K_E = vapor space expansion factor, per day

ΔT_V = average daily vapor temperature range, °R
T_{AX} = average daily maximum ambient temperature, °R
T_{AN} = average daily minimum ambient temperature, °R
α = tank surface solar absorptance, dimensionless
I = average daily total insolation on a horizontal surface, Btu/(ft^2 day)
0.0018 = constant, (°R)$^{-1}$
0.7 = constant, dimensionless
0.02 = constant, (°R ft^2 day)/Btu

Average daily maximum and minimum ambient temperatures and average daily total insolation can be determined from historical meteorological data for the location or may be obtained from historical meteorological data for a nearby location. Historical meteorological data for selected locations are given in Table 7.1-7, where values of T_{AX} and T_{AN} are given in degrees Fahrenheit. These values are converted to degrees Rankine by adding 459.67.

If the tank location is unknown, a value of K_E can be calculated using typical meteorological conditions for the lower 48 states. The typical value for daily insolation is 1,370 Btu/(ft^2 day), the average daily range of ambient temperature is 21°R, and the tank surface solar absorptance is 0.25 for white paint in average condition. Substituting these values into Equation 1-12 results in a value of 0.04, as shown in Equation 1-13.

$$K_E = 0.04 \quad (1\text{-}13)$$

Diameter

For vertical tanks, the diameter is straightforward. If a user needs to estimate emissions from a horizontal fixed roof tank, some of the tank parameters can be modified before using the vertical tank emission estimating equations. First, by assuming that the tank is one-half filled, the surface area of the liquid in the tank is approximately equal to the length of the tank times the diameter of the tank. Next, assume that this area represents a circle, i.e., that the liquid is an upright cylinder. Therefore, the effective diameter, D_{Eh}, is then equal to:

$$D_{Eh} = \sqrt{\frac{L\,D}{\frac{\pi}{4}}} \quad (1\text{-}14)$$

where:

D_{Eh} = effective tank diameter of the horizontal tank, ft
L = length of the horizontal tank, ft (for tanks with rounded ends, use the overall length)
D = diameter of a vertical cross-section of the horizontal tank, ft

By assuming the volume of the horizontal tank to be approximately equal to the cross-sectional area of the tank times the length of the tank, an effective height, H_{Eh}, of an equivalent upright cylinder may be calculated as:

$$H_{Eh} = \frac{\pi}{4} D \quad (1\text{-}15)$$

where:

H_{Eh} = effective height of the horizontal tank, ft
D = diameter of a vertical cross-section of the horizontal tank, ft

D_{Eh} should be used in place of D in Equation 1-4 for calculating the standing loss (or in Equation 1-3, if calculating the tank vapor space volume). One-half of the effective height, H_E, should be used as the vapor space outage, H_{VO}, in these equations. This method yields only a very approximate value for emissions from horizontal storage tanks. For underground horizontal tanks, assume that no breathing or standing losses occur ($L_S = 0$) because the insulating nature of the earth limits the diurnal temperature change. No modifications to the working loss equation are necessary for either aboveground or underground horizontal tanks. However, standing losses from underground gasoline tanks, which can experience relatively fast vapor growth after the ingestion of air and dilution of the headspace, are addressed in Section 5.2 of AP-42.

For rectangular tanks, effective diameter is calculated as:

$$D_{Er} = \sqrt{\frac{L_1 L_2}{\frac{\pi}{4}}} \quad (1\text{-}16)$$

where:

D_{Er} = effective tank diameter for a rectangular tank, ft
L_1 = length of side 1 of rectangular tank, ft
L_2 = length of side 2 of rectangular tank, ft

For square tanks, effective diameter is calculated as:

$$D_{Es} = \sqrt{\frac{L^2}{\frac{\pi}{4}}} \quad (1\text{-}17)$$

where:

D_{Es} = effective tank diameter for a square tank, ft
L = length of side of square tank, ft

D_{Er} or D_{Es} should be used in place of D in Equation 1-4 for calculating the standing loss (or in Equation 1-3, if calculating the tank vapor space volume) from rectangular or square tanks, respectively.

Vapor Space Outage

The vapor space outage, H_{VO} is the height of a cylinder of tank diameter, D, whose volume is equivalent to the vapor space volume of a fixed roof tank, including the volume under the cone or dome roof. The vapor space outage, H_{VO}, is estimated from:

$$H_{VO} = H_S - H_L + H_{RO} \quad (1\text{-}18)$$

where:

H_{VO} = vapor space outage, ft; use $H_{Eh}/2$ from Equation 1-15 for horizontal tanks
H_S = tank shell height, ft
H_L = liquid height, ft; typically assumed to be at the half-full level, unless known to be maintained at some other level
H_{RO} = roof outage, ft; see Note 1 to Equation 1-18 for a cone roof, Note 2 to Equation 1-18 for a dome roof, or Note 3 to Equation 1-18 for a flat roof

Notes on Equation 1-18:

Note 1 to Equation 1-18. For a cone roof, the roof outage, H_{RO}, is calculated as follows:

$$H_{RO} = (1/3)\, H_R \quad (1\text{-}19)$$

where:

H_{RO} = roof outage (or shell height equivalent to the volume contained under the roof), ft
H_R = tank roof height, ft

$$H_R = S_R\, R_S \quad (1\text{-}20)$$

where:

` S_R = tank cone roof slope, ft/ft; if unknown, a standard value of 0.0625 is used
RS = tank shell radius, ft

Note 2 to Equation 1-18. For a dome roof, the roof outage, H_{RO}, is calculated as follows:

$$H_{RO} = H_R \left[\frac{1}{2} + \frac{1}{6} \left[\frac{H_R}{R_S} \right]^2 \right] \quad (1\text{-}21)$$

where:

H_{RO} = roof outage, ft
R_S = tank shell radius, ft
H_R = tank roof height, ft

$$H_R = R_R - \left(R_R^2 - R_S^2 \right)^{0.5} \quad (1\text{-}22)$$

where:

H_R = tank roof height, ft
R_R = tank dome roof radius, ft
R_S = tank shell radius, ft

The value of R_R usually ranges from 0.8D - 1.2D, where D = 2 R_S. If R_R is unknown, the tank diameter is used in its place. If the tank diameter is used as the value for R_R, Equations 1-21 and 1-22 reduce to
H_{RO} = 0.137 R_S and H_R = 0.268 R_S.

Note 3 to Equation 1-18. For a flat roof, the roof outage, H_{RO} is calculated using Equation 1-19 and Equation 1-20, except S_R = tank flat roof slope, ft/ft = 0. Therefore, H_{RO} equals zero.

Vented Vapor Saturation Factor

The vented vapor saturation factor, K_S, is calculated using the following equation:

$$K_S = \frac{1}{1 + 0.053 P_{VA} H_{VO}} \quad (1\text{-}23)$$

where:

K_S = vented vapor saturation factor, dimensionless
P_{VA} = vapor pressure at average daily liquid surface temperature, psia; see Note 1 to Equation 1-24 and Note 2 to Equation 1-24
H_{VO} = vapor space outage, ft, see Equation 1-18
0.053 = constant, $(\text{psia-ft})^{-1}$

Stock Vapor Density, W_V - The density of the vapor is calculated using the following equation:

$$W_V = \frac{M_V P_{VA}}{R T_V} \quad (1\text{-}24)$$

where:

W_V = vapor density, lb/ft^3
M_V = vapor molecular weight, lb/lb-mole; see Note 1 to Equation 1-24
R = the ideal gas constant, 10.731 psia ft^3/lb-mole °R
P_{VA} = vapor pressure at average daily liquid surface temperature, psia; see Note 1 to Equation 1-24 and Note 2 to Equation 1-24
T_V = average vapor temperature, °R; see Note 6 to Equation 1-24

Notes on Equation 1-24:

Note 1 to Equation 1-24. The molecular weight of the vapor, M_V, can be determined from Table 7.1-2 and 7.1-3 for selected petroleum liquids and selected organic chemicals, respectively, or by analyzing vapor samples. Where mixtures of organic liquids are stored in a tank, M_V can be calculated from the liquid composition. The molecular weight of the vapor, M_V, is equal to the sum of the molecular weight, M_i, multiplied by the vapor mole fraction, y_i, for each component. The vapor mole fraction is equal to the partial pressure of component I divided by the total vapor pressure. The partial

pressure of component I is equal to the true vapor pressure of component I (P) multiplied by the liquid mole fraction, (x_i). Therefore,

$$M_V = \sum M_i \, y_i = \sum M_i \left(\frac{P x_i}{P_{VA}} \right) \quad (1\text{-}25)$$

where:

P_{VA}, total vapor pressure of the stored liquid, by Raoult's Law[30], is:

$$P_{VA} = \sum P x_i \quad (1\text{-}26)$$

where:

P_{VA} = total vapor pressure of the stored liquid, psia
P = vapor pressure of pure component i at the average daily liquid surface temperature, psia
x_i = liquid mole fraction, lb-mole/lb-mole

- For more detailed information on Raoult's Law, please refer to Section 7.1.4. Frequently, 'however, the vapor pressure is not known for each component in a mixture. For more guidance on determining the total vapor pressure at a given temperature (*i.e.*, the true vapor pressure), see Note 2 to Equation 1-24 below.

Note 2 to Equation 1-24. True vapor pressure is defined in various ways for different purposes within the industry, such as "bubble point" for transportation specifications, but for purposes of these emissions estimating methodologies it is the sum of the equilibrium partial pressures exerted by the components of a volatile organic liquid, as shown in Equation 1-26. True vapor pressure may be determined by ASTM D2879 (or ASTM D6377 for crude oils with a true vapor pressure greater than 3.6 psia or ASTM D6378 for petroleum products with a true vapor pressure greater than 1.0 psia) or obtained from standard reference texts. For certain petroleum liquids, true vapor pressure may be predicted from Reid vapor pressure, which is the absolute vapor pressure of volatile crude oil and volatile non-viscous petroleum liquids, as determined by ASTM D323. ASTM D 5191 may be used as an alternative method for determining Reid vapor pressure for petroleum products, however, it should not be used for crude oils.

Caution should be exercised when considering ASTM D2879 for determining the true vapor pressure of certain types of mixtures. Vapor pressure is sensitive to the lightest components in a mixture, and the de-gassing step in ASTM D2879 can remove lighter fractions from mixtures such as No. 6 fuel oil if it is not done with care (*i.e.* at an appropriately low pressure and temperature). In addition, any dewatering of a sample prior to measuring its vapor pressure must be done using a technique that has been demonstrated to not remove the lightest organic compounds in the mixture. Alternatives to the method may be developed after publication of this chapter.

True vapor pressure can be determined for crude oils from Reid vapor pressure using Figures 7.1-13a and 7.1-13b. However, the nomograph in Figure 7.1-13a and the correlation equation in Figure 7.1-13b for crude oil are known to have an upward bias, and thus use of ASTM D6377 is more accurate for crude oils with a true vapor pressure greater than 3.6 psia. ASTM D6377 may be used to directly measure true vapor pressure at a given temperature. In order to utilize ASTM D6377 to predict true vapor pressure values over a range of temperatures, the method should be applied at multiple temperatures. A regression of the log-transformed temperature versus vapor pressure data thus obtained may be performed to obtain A and B constants for use in Equation 1-27. In order to determine true vapor pressure for purposes of estimating emissions of volatile organic compounds, ASTM D6377 should be performed using a vapor-to-liquid ratio of 4:1, which is expressed in the method as $VPCR_4$.

For light refined stocks (gasolines and naphthas) for which the Reid vapor pressure and distillation slope are known, Figures 7.1-14a and 7.1-14b can be used. For refined stocks with Reid vapor pressure below the 1 psi applicability limit of Figures 7.1-14a and 7.1-14b, true vapor pressure can be determined using ASTM D2879. In order to use Figures 7.1-13a, 7.1-13b, 7.1-14a, or 7.1-14b, the stored liquid surface temperature, T_{LA}, must be determined in degrees Fahrenheit. See Note 3 to Equation 1-24 to determine T_{LA}.

Alternatively, true vapor pressure for selected petroleum liquid stocks, at the stored liquid surface temperature, can be determined using the following equation:

$$P_{VA} = \exp\left[A - \left(\frac{B}{T_{LA}}\right)\right] \quad (1\text{-}27)$$

where:

exp = exponential function
A = constant in the vapor pressure equation, dimensionless
B = constant in the vapor pressure equation, °R
T_{LA} = average daily liquid surface temperature, °R; see Note 3 to Equation 1-24
P_{VA} = true vapor pressure, psia

For selected petroleum liquid stocks, physical property data including vapor pressure constants A and B for use in Equation 1-27 are presented in Table 7.1-2. For refined petroleum stocks with Reid vapor pressure within the limits specified in the scope of ASTM D 323, the constants A and B can be calculated from the equations presented in Figure 7.1-15 and the distillation slopes presented in Table 7.1-2. For crude oil stocks, the constants A and B can be calculated from Reid vapor pressure using the equations presented in Figure 7.1-16. However, the equations in Figure 7.1-16 are known to have an upward bias[29], and thus use of ASTM D 6377 is more accurate. Note that in Equation 1-27, T_{LA} is determined in degrees Rankine instead of degrees Fahrenheit.

The true vapor pressure of organic liquids at the stored liquid temperature can also be estimated by Antoine's equation:

$$\log P_{VA} = A - \left(\frac{B}{T_{LA} + C}\right) \quad (1\text{-}28)$$

where:

log = log 10
A = constant in vapor pressure equation, dimensionless
B = constant in vapor pressure equation, °C
C = constant in vapor pressure equation, °C
T_{LA} = average daily liquid surface temperature, °C
P_{VA} = vapor pressure at average daily liquid surface temperature, mm Hg

For selected pure chemicals, the values for the constants A, B, and C are listed in Table 7.1-3.

Note that in Equation 1-28, T_{LA} is determined in degrees Celsius instead of degrees Rankine.

Also, in Equation 1-28, P_{VA} is determined in mm of Hg rather than psia (760 mm Hg = 14.7 psia).

More rigorous thermodynamic equations of state are available in process simulation software packages. The use of such programs may be preferable in determining the true vapor pressure of mixtures that are not adequately characterized by Raoult's Law.

Note 3 to Equation 1-24. The average daily liquid surface temperature, T_{LA}, refers to the liquid surface temperature averaged over all of the days in the given period of time, such as one year, and should not be construed as being applicable to an individual day. While the accepted methodology is to use the average temperature, this approach introduces a bias in that the true vapor pressure, P_{VA}, is a non-linear function of temperature. However, the greater accuracy that would be achieved by accounting for this logarithmic function is not warranted, given the associated computational burden. The average daily liquid surface temperature is calculated for an uninsulated fixed roof tank using Equation 1-29.

$$T_{LA} = \left(0.5 - \frac{0.8}{4.4(H_S/D) + 3.8}\right) T_{AA} + \left(0.5 + \frac{0.8}{4.4(H_S/D) + 3.8}\right) T_B + \frac{0.021\,\alpha_R\, I + 0.013(H_S/D)\,\alpha_S\, I}{4.4(H_S/D) + 3.8} \quad (1\text{-}29)$$

where:

T_{LA} = average daily liquid surface temperature, °R
H_S = tank shell height, ft
D = tank diameter, ft,
T_{AA} = average daily ambient temperature, °R; see Note 4 to Equation 1-24
T_B = liquid bulk temperature, °R; see Note 5 to Equation 1-24
α_R = tank roof surface solar absorptance, dimensionless; see Table 7.1-6
α_S = tank shell surface solar absorptance, dimensionless; see Table 7.1-6
I = average daily total insolation factor, Btu/(ft^2 day); see Table 7.1-7

API assigns a default value of $H_s/D = 0.5$ and an assumption of $\alpha_R = \alpha_S$, resulting in the simplified equation shown below for an uninsulated fixed roof tank:[22]

$$T_{LA} = 0.4T_{AA} + 0.6T_B + 0.005\ \alpha\ I \quad (1\text{-}30)$$

where:

α = average tank surface solar absorptance, dimensionless

Equation 1-29 and Equation 1-30 should not be used to estimate liquid surface temperature for insulated tanks. In the case of fully insulated tanks, the average liquid surface temperature should be assumed to equal the average liquid bulk temperature (see Note 5 to Equation 1-24). For purposes of estimating emissions, a storage tank should be deemed insulated only if the roof and shell are both fully insulated so as to minimize heat exchange with ambient air. If only the shell is insulated, and not the roof, there likely will be sufficient heat exchange through the roof such that Equation 1-30 would be applicable.

A more accurate method of estimating the average liquid surface temperature, T_{LA}, in partially insulated fixed roof tanks is given below. When the tank shell is insulated but the tank roof is not, heat gain to the tank from insolation is almost entirely through the tank roof and thus the liquid surface temperature is not sensitive to H_S/D.

$$T_{LA} = 0.3\ T_{AA} + 0.7\ T_B + 0.005\ \alpha_R\ I \quad (1\text{-}31)$$

If T_{LA} is used to calculate P_{VA} from Figures 7.1-13a, 7.1-13b, 7.1-14a, or 7.1-14b, T_{LA} must be converted from degrees Rankine to degrees Fahrenheit (°F = °R – 459.67). If T_{LA} is used to calculate P_{VA} from Equation 1-28, T_{LA} must be converted from degrees Rankine to degrees Celsius (°C = [°R – 491.67]/1.8).

Note 4 to Equation 1-24. The average daily ambient temperature, T_{AA}, is calculated using the following equation:

$$T_{AA} = \left(\frac{T_{AX} + T_{AN}}{2}\right) \quad (1\text{-}32)$$

where:

T_{AA} = average daily ambient temperature, °R
T_{AX} = average daily maximum ambient temperature, °R
T_{AN} = average daily minimum ambient temperature, °R

Table 7.1-7 gives historical values of T_{AX} and T_{AN} in degrees Fahrenheit for selected U.S. cities. These values are converted to degrees Rankine by adding 459.67.

Note 5 to Equation 1-24. The liquid bulk temperature, T_B, should preferably be based on measurements or estimated from process knowledge. For uninsulated fixed roof tanks known to be in approximate equilibrium with ambient air, heat gain to the bulk liquid from insolation is almost entirely

through the tank shell; thus the liquid bulk temperature is not sensitive to H_S/D and may be calculated using the following equation:

$$T_B = T_{AA} + 0.003\,\alpha_S\,I \quad (1\text{-}33)$$

where:

T_B = liquid bulk temperature, °R
T_{AA} = average daily ambient temperature, °R, as calculated in Note 4 to Equation 1-24
α_S = tank shell surface solar absorptance, dimensionless; see Table 7.1-6
I = average daily total insolation factor, Btu/(ft^2 day); see Table 7.1-7.

Note 6 to Equation 1-24. The average vapor temperature, T_V, for an uninsulated tank may be calculated using the following equation:

$$T_V = \frac{[2.2\,(H_S/D)+1.1]\,T_{AA} + 0.8\,T_B + 0.021\alpha_R I + 0.013(H_S/D)\alpha_S I}{2.2\,(H_S/D) + 1.9} \quad (1\text{-}34)$$

where:

H_S = tank shell height, ft
D = tank diameter, ft,
T_{AA} = average daily ambient temperature, °R
T_B = liquid bulk temperature, °R
α_R = tank roof surface solar absorptance, dimensionless
α_S = tank shell surface solar absorptance, dimensionless
I = average daily total insolation factor, Btu/(ft^2 day).

API assigns a default value of $H_s/D = 0.5$ and an assumption of $\alpha_R = \alpha_S$, resulting in the simplified equation shown below for an uninsulated tank:[22]

$$T_V = 0.7T_{AA} + 0.3T_B + 0.009\,\alpha\,I \quad (1\text{-}35)$$

where:

α = average tank surface solar absorptance, dimensionless

When the shell is insulated, but not the roof, the temperature equations are independent of H_s/D.

$$T_V = 0.6T_{AA} + 0.4T_B + 0.01\,\alpha_R\,I \quad (1\text{-}36)$$

When the tank shell and roof are fully insulated, the temperatures of the vapor space and the liquid surface are taken as equal to the temperature of the bulk liquid.

7.1.3.1.2 Working Loss

The fixed roof tank working loss, L_W, refers to the loss of stock vapors as a result of tank filling operations. Fixed roof tank working losses can be estimated from:

$$L_W = V_Q K_N K_P W_V K_B \quad (1\text{-}37)$$

where:

L_W = working loss, lb/yr

V_Q = net working loss throughput, ft^3/yr, see Note 1 to Equation 1-37

K_N = working loss turnover factor, dimensionless
for turnovers > 36, $K_N = (180 + N)/6N$
for turnovers $\leq$ 36, $K_N = 1$
for tanks that are vapor balanced and tanks in which flashing occurs, $K_N = 1$ regardless of the number of turnovers; further adjustment of K_N may be appropriate in the case of splash loading into a tank.

N = number of turnovers per year, dimensionless:

$$N = \Sigma H_{QI} / (H_{LX} - H_{LN}) \quad (1\text{-}38)$$

ΣH_{QI} = the annual sum of the increases in liquid level, ft/yr
If ΣH_{QI} is unknown, it can be estimated from pump utilization records. Over the course of a year, the sum of increases in liquid level, ΣH_{QI}, and the sum of decreases in liquid level, ΣH_{QD}, will be approximately the same. Alternatively, ΣH_{QI} may be approximated as follows:

$$\Sigma H_{QI} = (5.614\ Q) / ((\pi/4)\ D^2) \quad (1\text{-}39)$$

5.614 = the conversion of barrels to cubic feet, ft^3/bbl

Q = annual net throughput, bbl/yr [Note that 1 bbl = 42 gallons]
For horizontal tanks, use D_{Eh} (Equation 1-14) in place of D in Equation 1-39
For rectangular tanks, use D_{Er} (Equation 1-16) in place of D in Equation 1-39
For square tanks, use D_{Es} (Equation 1-17) in place of D in Equation 1-39

H_{LX} = maximum liquid height, ft

If the maximum liquid height is unknown, for vertical tanks use one foot less than the shell height and for horizontal tanks use $(\pi/4)$ D where D is the diameter of a vertical cross-section of the horizontal tank

H_{LN} = minimum liquid height, ft
If the minimum liquid height is unknown, for vertical tanks use 1 and for horizontal tanks use 0

K_P = working loss product factor, dimensionless
for crude oils, $K_P = 0.75$;
adjustment of K_P may be appropriate in the case of splash loading into a tank;
for all other organic liquids, $K_P = 1$

W_V = vapor density, lb/ft^3, see Equation 1-24
K_B = vent setting correction factor, dimensionless, see Note 2 to Equation 1-37 for open vents and for a vent setting range up to ± 0.03 psig, K_B = 1

Notes on Equation 1-37:

Note 1 to Equation 1-37. Net Working Loss Throughput.

The net working loss throughput, V_Q, is the volume associated with increases in the liquid level, and is calculated as follows:

$$V_Q = (\Sigma H_{QI})(\pi/4)\, D^2 \quad (1\text{-}40)$$

where:

ΣH_{QI} = the annual sum of the increases in liquid level, ft/yr
D_{Eh} should be used for horizontal tanks in place of D in Equation 1-40. See Equation 1-14.
D_{Er} should be used for rectangular tanks in place of D in Equation 1-40. See Equation 1-16.
D_{Es} should be used for square tanks in place of D in Equation 1-40. See Equation 1-17.

If ΣH_{QI} is unknown, ΣH_{QI} can be estimated from pump utilization records. Over the course of a year, the sum of increases in liquid level, ΣH_{QI}, and the sum of decreases in liquid level, ΣH_{QD}, will be approximately the same. Alternatively, V_Q may be approximated as follows:

$$V_Q = 5.614\, Q \quad (1\text{-}41)$$

where:

5.614 = the conversion of barrels to cubic feet, ft^3/bbl
Q = annual net throughput, bbl/yr

Note: Use of gross throughput to approximate the sum of increases in liquid level will significantly overstate emissions if pumping in and pumping out take place at the same time. However, use of gross throughput is still allowed, since it is clearly a conservative estimate of emissions.

Note 2 to Equation 1-37. Vent Setting Correction Factor

When the breather vent settings are greater than the typical values of ± 0.03 psig, and the condition expressed in Equation 1-42 is met, a vent setting correction factor, K_B, must be determined using Equation 1-42. This value of K_B will be used in Equation 1-37 to calculate working losses.

When:

$$P = \exp\left\{\left[0.7553 - \left(\frac{413.0}{T+459.6}\right)\right] S^{0.5} \log_{10}(RVP) - \left[1.854 - \left(\frac{1{,}042}{T+459.6}\right)\right] S^{0.5} + \left[\left(\frac{2{,}416}{T+459.6}\right) - 2.013\right] \log_{10}(RVP) - \left(\frac{8{,}742}{T+459.6}\right) + 15.64\right\}$$

Where:

P = stock true vapor pressure, in pounds per square inch absolute.
T = stock temperature, in degrees Fahrenheit.
RVP = Reid vapor pressure, in pounds per square inch.
S = slope of the ASTM distillation curve at 10 percent evaporated, in degrees Fahrenheit per percent.

Note: This equation was derived from a regression analysis of points read off Figure 7.1-14a over the full range of Reid vapor pressures, slopes of the ASTM distillation curve at 10 percent evaporated, and stock temperatures. In general, the equation yields *P* values that are within +0.05 pound per square inch absolute of the values obtained directly from the nomograph.

Figure 7.1-14b. Equation for true vapor pressure of refined petroleum stocks with Reid vapor pressures of 1 to 20 psi.[4] See note at Figure 7.1-14a.

$$A = 15.64 - 1.854\ S^{0.5} - (0.8741 - 0.3280\ S^{0.5})\ \ln(RVP)$$
$$B = 8{,}742 - 1{,}042\ S^{0.5} - (1{,}049 - 179.4\ S^{0.5})\ \ln(RVP)$$

where:

RVP = stock Reid vapor pressure, in pounds per square inch
ln = natural logarithm function
S = stock ASTM-D86 distillation slope at 10 volume percent evaporation (°F/vol%)

Figure 7.1-15. Equations to determine vapor pressure constants A and B for refined petroleum stocks.[22]

$$A = 12.82 - 0.9672\ \ln(RVP)$$
$$B = 7{,}261 - 1{,}216\ \ln(RVP)$$

where:

RVP = Reid vapor pressure, in pounds per square inch
ln = natural logarithm function

Figure 7.1-16. Equations to determine vapor pressure Constants A and B for crude oil stocks.[22]

Average Daily Maximum and Minimum Liquid Surface Temperature (°R)

$$T_{LX} = T_{LA} + 0.25\,\Delta T_V$$
$$T_{LN} = T_{LA} - 0.25\,\Delta T_V$$

where:

T_{LX} = average daily maximum liquid surface temperature, °R
T_{LA} = defined in Note 3 to Equation 1-24
ΔT_V = defined in Note 1 to Equation 1-5
T_{LN} = average daily minimum liquid surface temperature, °R

Figure 7.1-17. Equations for the average daily maximum and minimum liquid surface temperatures.[8]

11.2.3 AGGREGATE HANDLING AND STORAGE PILES

11.2.3.1 General

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

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

11.2.3.2 Emissions and Correction Parameters

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

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

Field investigations have shown that emissions from aggregate storage operations vary in direct proportion to the percentage of silt (particles < 75 μm in diameter) in the aggregate material.[1 3] The silt content is determined by measuring the proportion of dry aggregate material that passes through a 200 mesh screen, using ASTM-C-136 method. Table 11.2.3-1 summarizes measured silt and moisture values for industrial aggregate materials.

11.2.3.3 Predictive Emission Factor Equations

Total dust emissions from aggregate storage piles are contributions of several distinct source activities within the storage cycle:

1. Loading of aggregate onto storage piles (batch or continuous drop operations).
2. Equipment traffic in storage area.
3. Wind erosion of pile surfaces and ground areas around piles.
4. Loadout of aggregate for shipment or for return to the process stream (batch or continuous drop operations).

TABLE 11.2.3-1. TYPICAL SILT AND MOISTURE CONTENT VALUES OF MATERIALS AT VARIOUS INDUSTRIES

Industry	Material	Silt (%)			Moisture (%)		
		No. of test samples	Range	Mean	No. of test samples	Range	Mean
Iron and steel production[a]	Pellet ore	10	1.4 - 13	4.9	8	0.64 - 3.5	2.1
	Lump ore	9	2.8 - 19	9.5	6	1.6 - 8.1	5.4
	Coal	7	2 - 7.7	5	6	2.8 - 11	4.8
	Slag	3	3 - 7.3	5.3	3	0.25 - 2.2	0.92
	Flue dust	2	14 - 23	18.0	0	NA	NA
	Coke breeze	1		5.4	1		6.4
	Blended ore	1		15.0	1		6.6
	Sinter	1		0.7	0	NA	NA
	Limestone	1		0.4	0	NA	NA
Stone quarrying and processing[b]	Crushed limestone	2	1.3 - 1.9	1.6	2	0.3 - 1.1	0.7
Taconite mining and processing[c]	Pellets	9	2.2 - 5.4	3.4	7	0.05 - 2.3	0.96
	Tailings	2	NA	11.0	1		0.35
Western surface coal mining[d]	Coal	15	3.4 - 16	6.2	7	2.8 - 20	6.9
	Overburden	15	3.8 - 15	7.5	0	NA	NA
	Exposed ground	3	5.1 - 21	15.0	3	0.8 - 6.4	3.4

[a] References 2-5. NA = not applicable.
[b] Reference 1.
[c] Reference 6.
[d] Reference 7.

Adding aggregate material to a storage pile or removing it usually involves dropping the material onto a receiving surface. Truck dumping on the pile or loading out from the pile to a truck with a front end loader are examples of batch drop operations. Adding material to the pile by a conveyor stacker is an example of a continuous drop operation.

The quantity of particulate emissions generated by a batch drop operation, per ton of material transferred, may be estimated, with a rating of C, using the following empirical expression[2]:

$$E = k(0.00090)\ \frac{\left(\frac{s}{5}\right)\left(\frac{U}{2.2}\right)\left(\frac{H}{1.5}\right)}{\left(\frac{M}{2}\right)^2\left(\frac{Y}{4.6}\right)^{0.33}} \quad \text{(kg/Mg)} \qquad (1)$$

$$E = k(0.0018)\ \frac{\left(\frac{s}{5}\right)\left(\frac{U}{5}\right)\left(\frac{H}{5}\right)}{\left(\frac{M}{2}\right)^2\left(\frac{Y}{6}\right)^{0.33}} \quad \text{(lb/ton)}$$

where: E = emission factor
k = particle size multipler (dimensionless)
s = material silt content (%)
U = mean wind speed, m/s (mph)
H = drop height, m (ft)
M = material moisture content (%)
Y = dumping device capacity, m^3 (yd^3)

The particle size multipler (k) for Equation 1 varies with aerodynamic particle size, shown in Table 11.2.3-2.

TABLE 11.2.3-2. AERODYNAMIC PARTICLE SIZE MULTIPLIER (k) FOR EQUATIONS 1 AND 2

Equation	< 30 μm	< 15 μm	< 10 μm	< 5 μm	< 2.5 μm
Batch drop	0.73	0.48	0.36	0.23	0.13
Continuous drop	0.77	0.49	0.37	0.21	0.11

The quantity of particulate emissions generated by a continuous drop operation, per ton of material transferred, may be estimated, with a rating of C, using the following empirical expression[3]:

$$E = k(0.00090)\ \frac{\left(\frac{s}{5}\right)\left(\frac{U}{2.2}\right)\left(\frac{H}{3.0}\right)}{\left(\frac{M}{2}\right)^2} \quad (kg/Mg) \qquad (2)$$

$$E = k(0.0018)\ \frac{\left(\frac{s}{5}\right)\left(\frac{U}{5}\right)\left(\frac{H}{10}\right)}{\left(\frac{M}{2}\right)^2} \quad (lb/ton)$$

where: E = emission factor
k = particle size multiplier (dimensionless)
s = material silt content (%)
U = mean wind speed, m/s (mph)
H = drop height, m (ft)
M = material moisture content (%)

The particle size multiplier (k) for Equation 2 varies with aerodynamic particle size, as shown in Table 11.2.3-2.

Equations 1 and 2 retain the assigned quality rating if applied within the ranges of source conditions that were tested in developing the equations, as given in Table 11.2.3-3. Also, to retain the quality ratings of Equations 1 or 2 applied to a specific facility, it is necessary that reliable correction parameters be determined for the 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 correction parameters cannot be obtained, the appropriate mean values from Table 11.2.3-1 may be used, but in that case, the quality ratings of the equations are reduced by one level.

TABLE 11.2.3-3. RANGES OF SOURCE CONDITIONS FOR EQUATIONS 1 AND 2[a]

Equation	Silt content (%)	Moisture content (%)	Dumping capacity m^3	Dumping capacity yd^3	Drop height m	Drop height ft
Batch drop	1.3 - 7.3	0.25 - 0.70	2.10 - 7.6	2.75 - 10	NA	NA
Continuous drop	1.4 - 19	0.64 - 4.8	NA	NA	1.5 - 12	4.8 - 39

[a] NA = not applicable.

For emissions from equipment traffic (trucks, front end loaders, dozers, etc.) traveling between or on piles, it is recommended that the equations for vehicle traffic on unpaved surfaces be used (see Section 11.2.1). For vehicle travel between storage piles, the silt value(s) for the areas

among the piles (which may differ from the silt values for the stored materials) should be used.

For emissions from wind erosion of active storage piles, the following total suspended particulate (TSP) emission factor equation is recommended:

$$E = 1.9 \left(\frac{s}{1.5}\right) \left(\frac{365-p}{235}\right) \left(\frac{f}{15}\right) \quad \text{(kg/day/hectare)} \qquad (3)$$

$$E = 1.7 \left(\frac{s}{1.5}\right) \left(\frac{365-p}{235}\right) \left(\frac{f}{15}\right) \quad \text{(lb/day/acre)}$$

where: E = total suspended particulate emission factor
s = silt content of aggregate (%)
p = number of days with ≧ 0.25 mm (0.01 in.) of precipitation per year
f = percentage of time that the unobstructed wind speed exceeds 5.4 m/s (12 mph) at the mean pile height

The coefficient in Equation 3 is taken from Reference 1, based on sampling of emissions from a sand and gravel storage pile area during periods when transfer and maintenance equipment was not operating. The factor from Test Report 1, expressed in mass per unit area per day, is more reliable than the factor expressed in mass per unit mass of material placed in storage, for reasons stated in that report. Note that the coefficient has been halved to adjust for the estimate that the wind speed through the emission layer at the test site was one half of the value measured above the top of the piles. The other terms in this equation were added to correct for silt, precipitation and frequency of high winds, as discussed in Reference 2. Equation 3 is rated C for application in the sand and gravel industry and D for other industries.

Worst case emissions from storage pile areas occur under dry windy conditions. Worst case emissions from materials handling (batch and continuous drop) operations may be calculated by substituting into Equations 1 and 2 appropriate values for aggregate material moisture content and for anticipated wind speeds during the worst case averaging period, usually 24 hours. The treatment of dry conditions for vehicle traffic (Section 11.2.1) and for wind erosion (Equation 3), centering around parameter p, follows the methodology described in Section 11.2.1. Also, a separate set of nonclimatic correction parameters and source extent values corresponding to higher than normal storage pile activity may be justified for the worst case averaging period.

11.2.3.4 Control Methods

Watering and chemical wetting agents are the principal means for control of aggregate storage pile emissions. Enclosure or covering of inactive piles to reduce wind erosion can also reduce emissions. Watering is useful mainly to reduce emissions from vehicle traffic in the storage pile area. Watering of the storage piles themselves typically has only a very temporary slight effect on total emissions. A much more effective technique is to apply chemical wetting agents for better wetting of fines and

longer retention of the moisture film. Continuous chemical treatment of material loaded onto piles, coupled with watering or treatment of roadways, can reduce total particulate emissions from aggregate storage operations by up to 90 percent.[8]

References for Section 11.2.3

1. C. Cowherd, Jr., et al., Development of Emission Factors for Fugitive Dust Sources, EPA-450/3-74-037, U. S. Environmental Protection Agency, Research Triangle Park, NC, June 1974.

2. R. Bohn, et al., Fugitive Emissions from Integrated Iron and Steel Plants, EPA-600/2-78-050, U. S. Environmental Protection Agency, Research Triangle Park, NC, March 1978.

3. C. Cowherd, Jr., et al., Iron and Steel Plant Open Dust Source Fugitive Emission Evaluation, EPA-600/2-79-103, U. S. Environmental Protection Agency, Research Triangle Park, NC, May 1979.

4. R. Bohn, Evaluation of Open Dust Sources in the Vicinity of Buffalo, New York, U. S. Environmental Protection Agency, New York, NY, March 1979.

5. C. Cowherd, Jr., and T. Cuscino, Jr., Fugitive Emissions Evaluation, Equitable Environmental Health, Inc., Elmhurst, IL, February 1977.

6. T. Cuscino, et al., Taconite Mining Fugitive Emissions Study, Minnesota Pollution Control Agency, Roseville, MN, June 1979.

7. K. Axetell and C. Cowherd, Jr., Improved Emission Factors for Fugitive Dust from Western Surface Coal Mining Sources, 2 Volumes, EPA Contract No. 68-03-2924, PEDCo Environmental, Inc., Kansas City, MO, July 1981.

8. G. A. Jutze, et al., Investigation of Fugitive Dust Sources Emissions and Control, EPA-450/3-74-036a, U. S. Environmental Protection Agency, Research Triangle Park, NC, June 1974.

11.9 Western Surface Coal Mining

11.9.1 General[1]

There are 12 major coal fields in the western states (excluding the Pacific Coast and Alaskan fields), as shown in Figure 11.9-1. Together, they account for more than 64 percent of the surface minable coal reserves in the United States.[2] The 12 coal fields have varying characteristics that may influence fugitive dust emission rates from mining operations including overburden and coal seam thicknesses and structure, mining equipment, operating procedures, terrain, vegetation, precipitation and surface moisture, wind speeds, and temperatures. The operations at a typical western surface mine are shown in Figure 11.9-2. All operations that involve movement of soil or coal, or exposure of erodible surfaces, generate some amount of fugitive dust.

The initial operation is removal of topsoil and subsoil with large scrapers. The topsoil is carried by the scrapers to cover a previously mined and regraded area as part of the reclamation process or is placed in temporary stockpiles. The exposed overburden, the earth that is between the topsoil and the coal seam, is leveled, drilled, and blasted. Then the overburden material is removed down to the coal seam, usually by a dragline or a shovel and truck operation. It is placed in the adjacent mined cut, forming a spoils pile. The uncovered coal seam is then drilled and blasted. A shovel or front end loader loads the broken coal into haul trucks, and it is taken out of the pit along graded haul roads to the tipple, or truck dump. Raw coal sometimes may be dumped onto a temporary storage pile and later rehandled by a front end loader or bulldozer.

At the tipple, the coal is dumped into a hopper that feeds the primary crusher, then is conveyed through additional coal preparation equipment such as secondary crushers and screens to the storage area. If the mine has open storage piles, the crushed coal passes through a coal stacker onto the pile. The piles, usually worked by bulldozers, are subject to wind erosion. From the storage area, the coal is conveyed to a train loading facility and is put into rail cars. At a captive mine, coal will go from the storage pile to the power plant.

During mine reclamation, which proceeds continuously throughout the life of the mine, overburden spoils piles are smoothed and contoured by bulldozers. Topsoil is placed on the graded spoils, and the land is prepared for revegetation by furrowing, mulching, etc. From the time an area is disturbed until the new vegetation emerges, all disturbed areas are subject to wind erosion.

11.9.2 Emissions

Predictive emission factor equations for open dust sources at western surface coal mines are presented in Tables 11.9-1 and 11.9-2. Each equation applies to a single dust-generating activity, such as vehicle traffic on haul roads. The predictive equation explains much of the observed variance in emission factors by relating emissions to three sets of source parameters: (1) measures of source activity or energy expended (e. g., speed and weight of a vehicle traveling on an unpaved road); (2) properties of the material being disturbed (e. g., suspendable fines in the surface material of an unpaved road); and (3) climate (in this case, mean wind speed).

Table 11.9-1 (English Units). EMISSION FACTOR EQUATIONS FOR UNCONTROLLED OPEN DUST SOURCES AT WESTERN SURFACE COAL MINES[a]

Operation	Material	Emissions By Particle Size Range (Aerodynamic Diameter)[b,c]				Units	EMISSION FACTOR RATING
		Emission Factor Equations		Scaling Factors			
		TSP ≤30 μm	≤15 μm	≤10 μm[d]	≤2.5 μm/TSP[e]		
Blasting[f]	Coal or overburden	$0.000014(A)^{1.5}$	ND	0.52[e]	0.03	lb/blast	C_DD
Truck loading	Coal	$\frac{1.16}{(M)^{1.2}}$	$\frac{0.119}{(M)^{0.9}}$	0.75	0.019	lb/ton	BBCC
Bulldozing	Coal	$\frac{78.4\ (s)^{1.2}}{(M)^{1.3}}$	$\frac{18.6\ (s)^{1.5}}{(M)^{1.4}}$	0.75	0.022	lb/hr	CCDD
	Overburden	$\frac{5.7\ (s)^{1.2}}{(M)^{1.3}}$	$\frac{1.0\ (s)^{1.5}}{(M)^{1.4}}$	0.75	0.105	lb/hr	BCDD
Dragline	Overburden	$\frac{0.0021\ (d)^{1.1}}{(M)^{0.3}}$	$\frac{0.0021\ (d)^{0.7}}{(M)^{0.3}}$	0.75	0.017	lb/yd^3	BCDD
Vehicle traffic[g]							
Grading		$0.040\ (S)^{2.5}$	$0.051\ (S)^{2.0}$	0.60	0.031	lb/VMT	CCDD
Active storage pile[h] (wind erosion and maintenance)	Coal	0.72 u	ND	ND	ND	$\frac{\text{lb}}{(\text{acre})(\text{hr})}$	C[i]_ _ _

[a] Reference 1, except as noted. VMT = vehicle miles traveled. ND = no data. Quality ratings coded where "Q, X, Y, Z" are ratings for ≤30 μm, ≤15 μm, ≤10 μm, and ≤2.5 μm, respectively. See also note below.

[b] Particulate matter less than or equal to 30 μm in aerodynamic diameter is sometimes termed "suspendable particulate" and is often used as a surrogate for TSP (total suspended particulate). TSP denotes what is measured by a standard high volume sampler (see Section 13.2).

[c] Symbols for equations:

A = horizontal area (ft^2), with blasting depth ≤ 70 ft. Not for vertical face of a bench.
M = material moisture content (%)
s = material silt content (%)
u = wind speed (mph)
d = drop height (ft)
W = mean vehicle weight (tons)
S = mean vehicle speed (mph)
w = mean number of wheels

Table 11.9-2 (cont.).

[d] Multiply the ≤ 15-µm equation by this fraction to determine emissions, except as noted.
[e] Multiply the TSP predictive equation by this fraction to determine emissions.
[f] Blasting factor taken from a reexamination of field test data reported in Reference 1. See Reference 4.
[g] To estimate emissions from traffic on unpaved surfaces by vehicles such as haul trucks, light-to-medium duty vehicles, or scrapers in the travel mode, see the unpaved road emission factor equation in AP-42 Section 13.2.2
[h] Coal storage pile factor taken from Reference 5. To estimate emissions on a shorter time scale (e. g., worst-case day), see the procedure presented in Section 13.2.5.
[i] Rating applicable to mine types I, II, and IV (see Tables 11.9-5 and 11.9-6).

Note: Section 234 of the Clean Air Act of 1990 required EPA to review and revise the emission factors in this Section (and models used to evaluate ambient air quality impact), to ensure that they did not overestimate emissions from western surface coal mines. Due to resource and technical limitations, the haul road emission factors were isolated to receive the most attention during these studies, as the largest contributor to emissions. Resultant model evaluation with revised emission factors have improved model prediction for total suspended particulate (TSP); however, there is still a tendency for overprediction of particulate matter impact for PM-10, for as yet undetermined causes, prompting the Agency to make a policy decision not to use them for regulatory applications to these sources. However, the technical consideration exists that no better alternative data are currently available and the information should be made known. Users should accordingly use these factors with caution and awareness of their likely limitations.

Table 11.9-2 (Metric Units). EMISSION FACTOR EQUATIONS FOR UNCONTROLLED OPEN DUST SOURCES AT WESTERN SURFACE COAL MINES[a]

Operation	Material	Emissions By Particle Size Range (Aerodynamic Diameter)[b,c]				Units	EMISSION FACTOR RATING
		Emission Factor Equations		Scaling Factors			
		TSP ≤30 µm	≤15 µm	≤10 µm[d]	≤2.5 µm/TSP[e]		
Blasting[f]	Coal or overburden	$0.00022(A)^{1.5}$	ND	0.52[e]	0.03	kg/blast	C_DD
Truck loading	Coal	$\frac{0.580}{(M)^{1.2}}$	$\frac{0.0596}{(M)^{0.9}}$	0.75	0.019	kg/Mg	BBCC
Bulldozing	Coal	$\frac{35.6\ (s)^{1.2}}{(M)^{1.3}}$	$\frac{8.44\ (s)^{1.5}}{(M)^{1.4}}$	0.75	0.022	kg/hr	CCDD
	Overburden	$\frac{2.6\ (s)^{1.2}}{(M)^{1.3}}$	$\frac{0.45\ (s)^{1.5}}{(M)^{1.4}}$	0.75	0.105	kg/hr	BCDD
Dragline	Overburden	$\frac{0.0046\ (d)^{1.1}}{(M)^{0.3}}$	$\frac{0.0029\ (d)^{0.7}}{(M)^{0.3}}$	0.75	0.017	kg/m^3	BCDD
Vehicle traffic[g]							
Grading		$0.0034\ (S)^{2.5}$	$0.0056\ (S)^{2.0}$	0.60	0.031	kg/VKT	CCDD
Active storage pile[h] (wind erosion and maintenance)	Coal	1.8 u	ND	ND	ND	$\frac{\text{kg}}{(\text{hectare})(\text{hr})}$	C[i]_ _ _

[a] Reference 1, except as noted. VKT = vehicle kilometers traveled. ND = no data. Quality ratings coded as "QXYZ", where Q, X, Y, and Z are quality ratings for ≤30 µm, ≤15 µm, ≤10 µm, and ≤2.5 µm, respectively. See also note below.

[b] Particulate matter less than or equal to 30 µm in aerodynamic diameter is sometimes termed "suspendable particulate" and is often used as a surrogate for TSP (total suspended particulate). TSP denotes what is measured by a standard high volume sampler (see Section 13.2).

[c] Symbols for equations:

A = horizontal area (m^2), with blasting depth ≤ 21 m. Not for vertical face of a bench.
M = material moisture content (%)
s = material silt content (%)
u = wind speed (m/sec)
d = drop height (m)
W = mean vehicle weight (Mg)
S = mean vehicle speed (kph)
w = mean number of wheels

Table 11.9-2 (cont.).

[d] Multiply the ≤ 15-µm equation by this fraction to determine emissions, except as noted.
[e] Multiply the TSP predictive equation by this fraction to determine emissions.
[f] Blasting factor taken from a reexamination of field test data reported in Reference 1. See Reference 4.
[g] To estimate emissions from traffic on unpaved surfaces by vehicles such as haul trucks, light-to-medium duty vehicles, or scrapers in the travel mode, see the unpaved road emission factor equation in AP-42 Section 13.2.2
[h] Coal storage pile factor taken from Reference 5. To estimate emissions on a shorter time scale (e. g., worst-case day), see the procedure presented in Section 13.2.5.
[i] Rating applicable to mine types I, II, and IV (see Tables 11.9-5 and 11.9-6).

Note: Section 234 of the Clean Air Act of 1990 required EPA to review and revise the emission factors in this Section (and models used to evaluate ambient air quality impact), to ensure that they did not overestimate emissions from western surface coal mines. Due to resource and technical limitations, the haul road emission factors were isolated to receive the most attention during these studies, as the largest contributor to emissions. Resultant model evaluation with revised emission factors have improved model prediction for total suspended particulate (TSP); however, there is still a tendency for overprediction of particulate matter impact for PM-10, for as yet undetermined causes, prompting the Agency to make a policy decision not to use them for regulatory applications to these sources. However, the technical consideration exists that no better alternative data are currently available and the information should be made known. Users should accordingly use these factors with caution and awareness of their likely limitations.

Table 11.9-4 (English And Metric Units). UNCONTROLLED PARTICULATE EMISSION FACTORS FOR OPEN DUST SOURCES AT WESTERN SURFACE COAL MINES

Source	Material	Mine Location[a]	TSP Emission Factor[b]	Units	EMISSION FACTOR RATING
Drilling	Overburden	Any	1.3 0.59	lb/hole kg/hole	C C
	Coal	V	0.22 0.10	lb/hole kg/hole	E E
Topsoil removal by scraper	Topsoil	Any	0.058 0.029	lb/ton kg/Mg	E E
		IV	0.44 0.22	lb/ton kg/Mg	E E
Overburden replacement	Overburden	Any	0.012 0.0060	lb/ton kg/Mg	C C
Truck loading by power shovel (batch drop)[c]	Overburden	V	0.037 0.018	lb/ton kg/Mg	E E
Train loading (batch or continuous drop)[c]	Coal	Any	0.028 0.014	lb/ton kg/Mg	E E
		III	0.0002 0.0001	lb/ton kg/Mg	E E
Bottom dump truck unloading (batch drop)[c]	Overburden	V	0.002 0.001	lb/ton kg/Mg	E E
	Coal	IV	0.027 0.014	lb/ton kg/Mg	E E
		III	0.005 0.002	lb/ton kg/Mg	E E
		II	0.020 0.010	lb/ton kg/Mg	E E
		I	0.014 0.0070	lb/T kg/Mg	E E
		Any	0.066 0.033	lb/T kg/Mg	D D

11.17 Lime Manufacturing

11.17.1 Process Description[1-5]

Lime is the high-temperature product of the calcination of limestone. Although limestone deposits are found in every state, only a small portion is pure enough for industrial lime manufacturing. To be classified as limestone, the rock must contain at least 50 percent calcium carbonate. When the rock contains 30 to 45 percent magnesium carbonate, it is referred to as dolomite, or dolomitic limestone. Lime can also be produced from aragonite, chalk, coral, marble, and sea shells. The Standard Industry Classification (SIC) code for lime manufacturing is 3274. The six-digit Source Classification Code (SCC) for lime manufacturing is 3-05-016.

Lime is manufactured in various kinds of kilns by one of the following reactions:

$CaCO_3$ + heat → CO_2 + CaO (high calcium lime)
$CaCO_3 \cdot MgCO_3$ + heat → $2CO_2$ + $CaO \cdot MgO$ (dolomitic lime)

In some lime plants, the resulting lime is reacted (slaked) with water to form hydrated lime. The basic processes in the production of lime are: (1) quarrying raw limestone; (2) preparing limestone for the kilns by crushing and sizing; (3) calcining limestone; (4) processing the lime further by hydrating; and (5) miscellaneous transfer, storage, and handling operations. A generalized material flow diagram for a lime manufacturing plant is given in Figure 11.17-1. Note that some operations shown may not be performed in all plants.

The heart of a lime plant is the kiln. The prevalent type of kiln is the rotary kiln, accounting for about 90 percent of all lime production in the United States. This kiln is a long, cylindrical, slightly inclined, refractory-lined furnace, through which the limestone and hot combustion gases pass countercurrently. Coal, oil, and natural gas may all be fired in rotary kilns. Product coolers and kiln feed preheaters of various types are commonly used to recover heat from the hot lime product and hot exhaust gases, respectively.

The next most common type of kiln in the United States is the vertical, or shaft, kiln. This kiln can be described as an upright heavy steel cylinder lined with refractory material. The limestone is charged at the top and is calcined as it descends slowly to discharge at the bottom of the kiln. A primary advantage of vertical kilns over rotary kilns is higher average fuel efficiency. The primary disadvantages of vertical kilns are their relatively low production rates and the fact that coal cannot be used without degrading the quality of the lime produced. There have been few recent vertical kiln installations in the United States because of high product quality requirements.

Other, much less common, kiln types include rotary hearth and fluidized bed kilns. Both kiln types can achieve high production rates, but neither can operate with coal. The "calcimatic" kiln, or rotary hearth kiln, is a circular kiln with a slowly revolving doughnut-shaped hearth. In fluidized bed kilns, finely divided limestone is brought into contact with hot combustion air in a turbulent zone, usually above a perforated

Table 11.17-2 (English Units). EMISSION FACTORS FOR LIME MANUFACTURING CALCINING, COOLING, AND HYDRATING[a]

Source	Filterable[b]				Condensable PM[c]			
	PM	EMISSION FACTOR RATING	PM-10	EMISSION FACTOR RATING	Inorganic	EMISSION FACTOR RATING	Organic	EMISSION FACTOR RATING
Coal-fired rotary kiln (SCC 3-05-016-18)	350[d]	D	42[e]	D	1.3[f]	D	1.0[g]	E
Coal-fired rotary kiln with large diameter cyclone (SCC 3-05-016-18)	120[h]	D	ND		ND		ND	
Coal-fired rotary kiln with fabric filter (SCC 3-05-016-18)	0.28[j]	D	0.15[k]	D	0.38[m]	E	ND	
Coal-fired rotary kiln with ESP (SCC 3-05-016-18)	8.5[h]	D	4.3[n]	D	ND		ND	
Coal-fired rotary kiln with venturi scrubber (SCC 3-05-016-18)	1.4[p]	D	ND		0.28[q]	D	ND	
Gas-fired rotary kiln with ESP (SCC 3-05-016-19)	0.17[r]	E	ND		0.22[r]	E	ND	
Gas-fired rotary kiln with gravel bed filter (SCC 3-05-016-19)	0.99[s]	E	ND		0.48[s]	E	ND	
Coal- and gas fired rotary kiln (SCC 3-05-016-20)	80[t]	E	ND		ND		ND	
Coal- and gas-fired rotary kiln with venturi scrubber (SCC 3-05-016-20)	0.87[t]	D	ND		0.082[t]	D	ND	
Coal- and coke-fired rotary kiln with venturi scrubber (SCC 3-05-016-21)	1.7[u]	D	ND		ND		ND	
Coal-fired rotary preheater kiln with multiclone (SCC 3-05-016-22)	84[v]	E	ND		0.081[v]	E	ND	
Coal-fired rotary preheater kiln with gravel bed filter (SCC 3-05-016-22)	1.2[w]	E	ND		ND		ND	
Coal-fired rotary preheater kiln with multiclone, water spray, and fabric filter (SCC 3-05-016-22)	1.1[x]	E	ND		1.1[x]	E	0.15[x]	E
Gas-fired calcimatic kiln (SCC 3-05-016-05)	97[y]	E	ND		0.27[y]	E	ND	

Table 11.17-2 (cont.).

Source	Filterable[b]				Condensable PM[c]			
	PM	EMISSION FACTOR RATING	PM-10	EMISSION FACTOR RATING	Inorganic	EMISSION FACTOR RATING	Organic	EMISSION FACTOR RATING
Gas-fired parallel flow regenerative kiln with fabric filter (SCC 3-05-016-23)	0.026[z]	D	ND		ND		ND	
Atmospheric hydrator with wet scrubber (SCC 3-05-016-09)	0.067[aa]	D	ND		0.013[aa]	D	ND	
Product cooler (SCC 3-05-016-11)	6.8[y]	E	ND		0.023[y]	E	ND	

[a] Factors represent uncontrolled emissions unless otherwise noted. Factors are lb/ton of lime produced unless noted. ND = no data. SCC = Source Classification Code.
[b] Filterable PM is that PM collected on or prior to the filter of an EPA Method 5 (or equivalent) sampling train.
[c] Condensable PM is that PM collected in the impinger portion of a PM sampling train.
[d] References 11-12.
[e] References 4,11-12.
[f] References 9,13.
[g] Reference 11.
[h] Reference 12.
[j] References 12,20,31,33.
[k] References 4,12,20,31,33.
[m] References 8,20-23,33.
[n] References 4,12.
[p] References 10,28-29.
[q] References 10,15-16.
[r] Reference 14.
[s] References 17,32.
[t] Reference 19.
[u] Reference 30.
[v] Reference 13.
[w] Reference 18.
[x] Reference 34.
[y] Reference 25.
[z] Reference 35.
[aa] Reference 24; units are lb/ton of hydrated lime produced.

Table 11.17-4 (English Units). EMISSION FACTORS FOR LIME MANUFACTURING RAW MATERIAL AND PRODUCT PROCESSING AND HANDLING[a]

Source	Filterable[b]			
	PM	EMISSION FACTOR RATING	PM-10	EMISSION FACTOR RATING
Primary crusher[c] (SCC 3-05-016-01)	0.017	E	ND	
Scalping screen and hammermill (secondary crusher) (SCC 3-05-016-02)[c]	0.62	E	ND	
Primary crusher with fabric filter[d] (SCC 3-05-016-01)	0.00043	D	ND	
Primary screen with fabric filter[e] (SCC 3-05-016-16)	0.00061	D	ND	
Crushed material conveyor transfer with fabric filter[f] (SCC 3-05-016-24)	8.8×10^{-5}	D	ND	
Secondary and tertiary screen with fabric filter[g] (SCC 3-05-016-25)	0.00013	D	ND	
Product transfer and conveying (SCC 3-05-016-15)[h]	2.2	E	ND	
Product loading, enclosed truck (SCC 3-05-016-26)[h]	0.61	D	ND	
Product loading, open truck (SCC 3-05-016-27)[h]	1.5	D	ND	

[a] Factors represent uncontrolled emissions unless otherwise noted. Factors are lb/ton of material processed unless noted. ND = no data. SCC = Source Classification Code.

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

[c] Reference 8; factors are lb/ton.

[d] Reference 35. Factors are lb/ton of material processed. Includes scalping screen, scalping screen discharges, primary crusher, primary crusher discharges, and ore discharge.

[e] Reference 35. Factors are lb/ton of material processed. Includes primary screening, including the screen feed, screen discharge, and surge bin discharge.

[f] Reference 35. Factors are lb/ton of material processed. Based on average of three runs each of emissions from two conveyor transfer points on the conveyor from the primary crusher to the primary stockpile.

[g] Reference 35. Emission factors in units of kg/Mg of material processed. Based on sum of emissions from two emission points that include conveyor transfer point for the primary stockpile underflow to the secondary screen, secondary screen, tertiary screen, and tertiary screen discharge.

[h] Reference 12; units are lb/ton of product loaded.

11.19.2 Crushed Stone Processing and Pulverized Mineral Processing

11.19.2.1 Process Description [24, 25]

Crushed Stone Processing

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

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

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

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

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

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

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

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

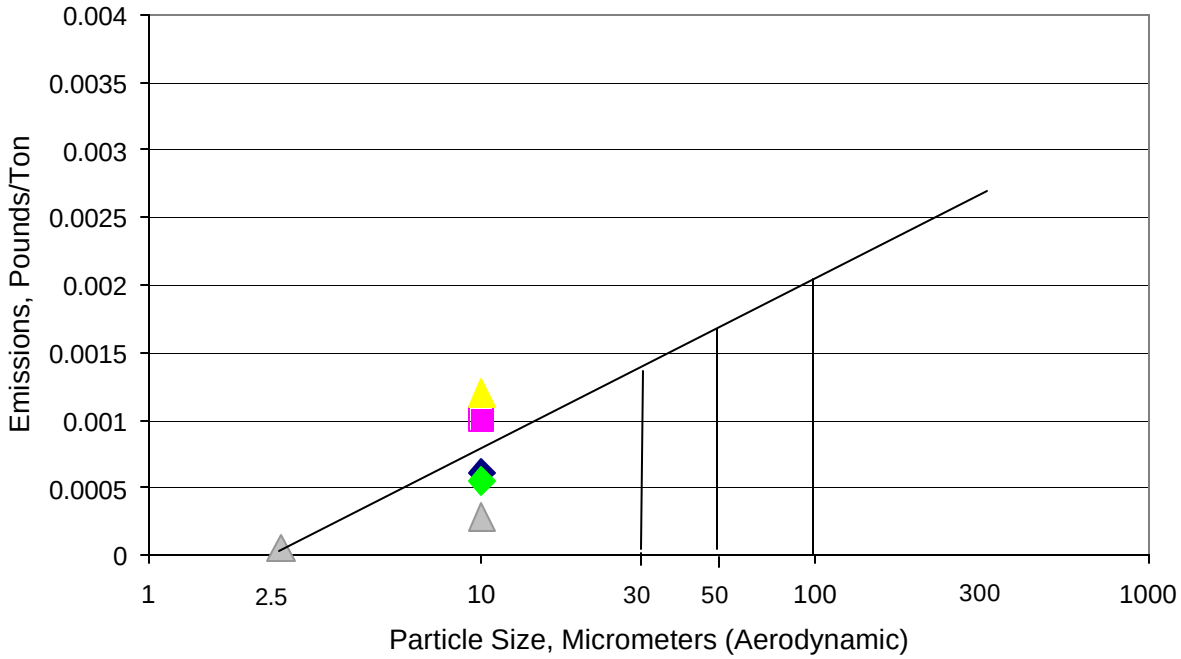


Figure 11-19-3. PM Emission Factor Calculation, Screening (Controlled)

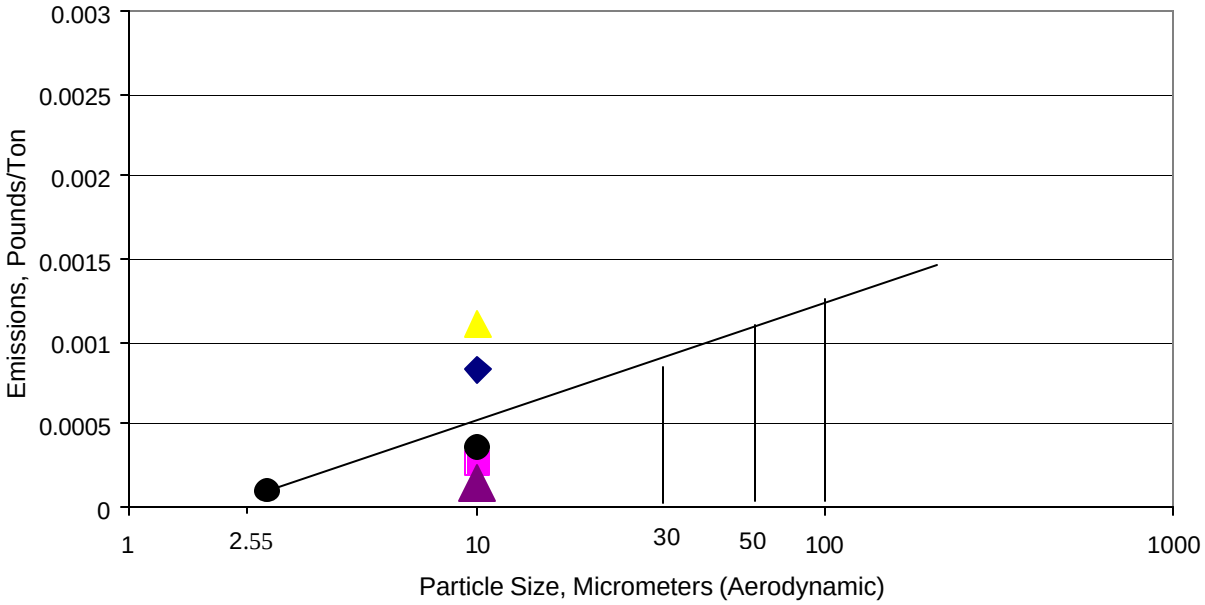


Figure 11.19-4. PM Emission Factor Calculation, Tertiary Crushing (Controlled)

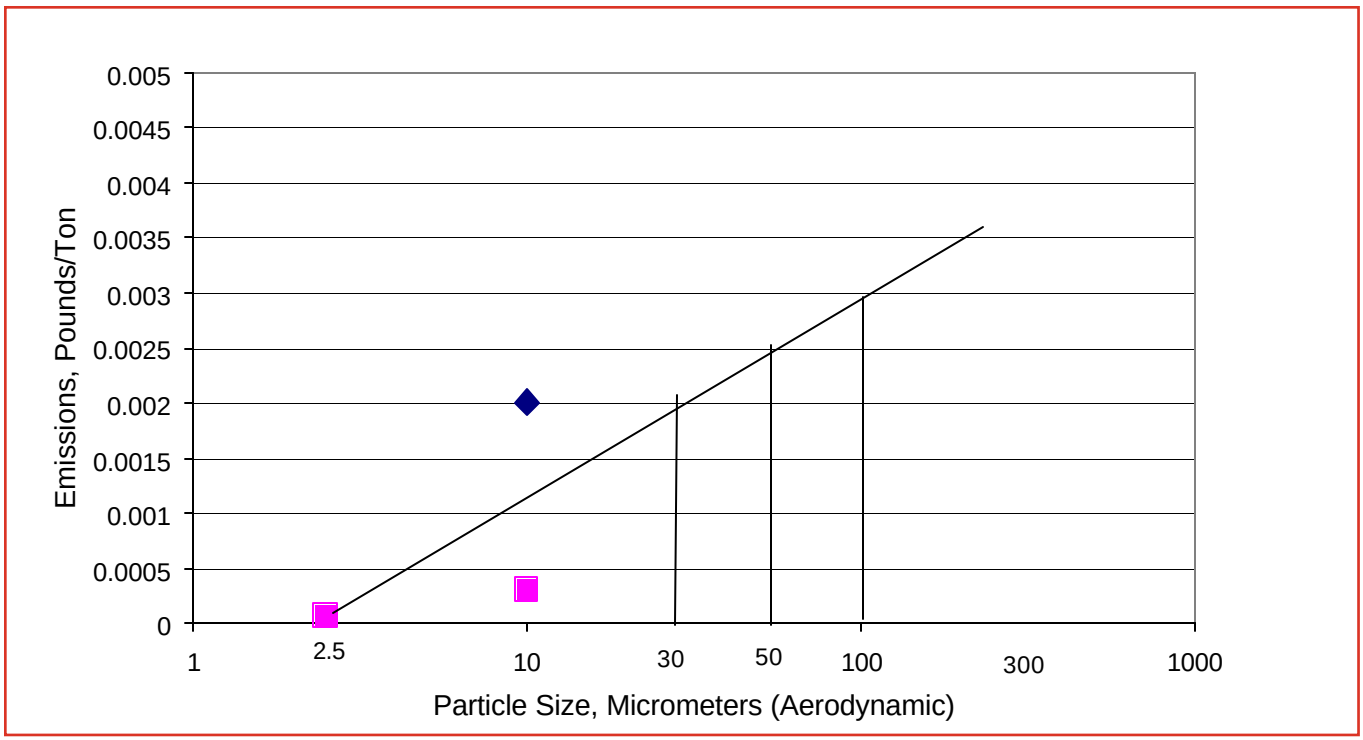


Figure 11-19.5. PM Emission Factor Calculation, Fines Crushing (Controlled)

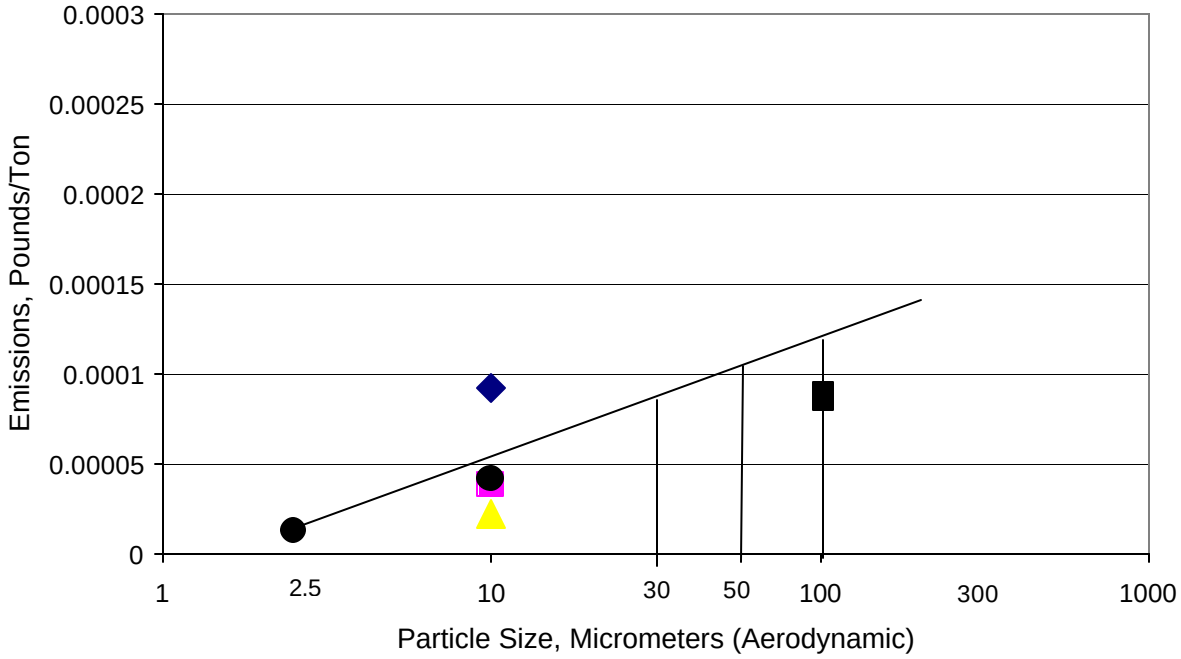


Figure 11.19-6. PM Emission Factor Calculation, Conveyor Transfer Points (Controlled)

11.24 Metallic Minerals Processing

11.24.1 Process Description[1-6]

Metallic mineral processing typically involves the mining of ore from either open pit or underground mines; the crushing and grinding of ore; the separation of valuable minerals from matrix rock through various concentration steps; and at some operations, the drying, calcining, or pelletizing of concentrates to ease further handling and refining. Figure 11.24-1 is a general flow diagram for metallic mineral processing. Very few metallic mineral processing facilities will contain all of the operations depicted in this figure, but all facilities will use at least some of these operations in the process of separating valued minerals from the matrix rock.

The number of crushing steps necessary to reduce ore to the proper size vary with the type of ore. Hard ores, including some copper, gold, iron, and molybdenum ores, may require as much as a tertiary crushing. Softer ores, such as some uranium, bauxite, and titanium/zirconium ores, require little or no crushing. Final comminution of both hard and soft ores is often accomplished by grinding operations using media such as balls or rods of various materials. Grinding is most often performed with an ore/water slurry, which reduces particulate matter (PM) emissions to negligible levels. When dry grinding processes are used, PM emissions can be considerable.

After final size reduction, the beneficiation of the ore increases the concentration of valuable minerals by separating them from the matrix rock. A variety of physical and chemical processes is used to concentrate the mineral. Most often, physical or chemical separation is performed in an aqueous environment, which eliminates PM emissions, although some ferrous and titaniferous minerals are separated by magnetic or electrostatic methods in a dry environment.

The concentrated mineral products may be dried to remove surface moisture. Drying is most frequently done in natural gas-fired rotary dryers. Calcining or pelletizing of some products, such as alumina or iron concentrates, is also performed. Emissions from calcining and pelletizing operations are not covered in this section.

11.24.2 Process Emissions[7-9]

Particulate matter emissions result from metallic mineral plant operations such as crushing and dry grinding ore, drying concentrates, storing and reclaiming ores and concentrates from storage bins, transferring materials, and loading final products for shipment. Particulate matter emission factors are provided in Tables 11.24-1 and 11.24-2 for various metallic mineral process operations including primary, secondary, and tertiary crushing; dry grinding; drying; and material handling and transfer. Fugitive emissions are also possible from roads and open stockpiles, factors for which are in Section 13.2.

The emission factors in Tables 11.24-1 and 11.24-2 are for the process operations as a whole. At most metallic mineral processing plants, each process operation requires several types of equipment. A single crushing operation likely includes a hopper or ore dump, screen(s), crusher, surge bin, apron feeder, and conveyor belt transfer points. Emissions from these various pieces of equipment are often ducted to a single control device. The emission factors provided in Tables 11.24-1 and 11.24-2 for primary, secondary, and tertiary crushing operations are for process units that are typical arrangements of the above equipment.

Table 11.24-2 (English Units). EMISSION FACTORS FOR METALLIC MINERALS PROCESSING[a,b]

EMISSION FACTOR RATINGS: (A-E) Follow The Emission Factor

Source	Filterable[b,c]			
	PM	RATING	PM-10	RATING
Low-moisture ore[c]				
Primary crushing (SCC 3-03-024-01)[d]	0.5	C	0.05	C
Secondary crushing (SCC 303-024-02)[d]	1.2	D	ND	
Tertiary crushing (SCC 3-03-024-03)[d]	2.7	E	0.16	E
Wet grinding	Neg		Neg	
Dry grinding with air conveying and/or air classification (SCC 3-03-024-09)[e]	28.8	C	26	C
Dry grinding without air conveying and/or air classification (SCC 3-03-024-10)[e]	2.4	D	0.31	D
Drying--all minerals except titanium/zirconium sands (SCC 3-03-024-11)[f]	19.7	C	12	C
Drying--titanium/zirconium with cyclones (SCC 3-03-024-11)[f]	0.5	C	ND	C
Material handling and transfer--all minerals except bauxite (SCC 3-03-024-04)[g]	0.12	C	0.06	C
Material handling and transfer--bauxite/alumina (SCC 3-03-024-04)[g,h]	1.1	C	ND	
High-moisture ore[c]				
Primary crushing (SCC 3-03-024-05)[d]	0.02	C	0.009	C
Secondary crushing (SCC 3-03-024-06)[d]	0.05	D	0.02	D
Tertiary crushing (SCC 3-03-024-07)[d]	0.06	E	0.02	E
Wet grinding	Neg		Neg	
Dry grinding with air conveying and/or air classification (SCC 3-03-024-09)[e]	28.8	C	26	C
Dry grinding without air conveying and/or air classification (SCC 3-03-024-10)[e]	2.4	D	0.31	D
Drying--all minerals except titanium/zirconium sands (SCC 3-03-024-11)[f]	19.7	C	12	C
Drying--titanium/zirconium with cyclones (SCC 3-03-024-11)[f]	0.5	C	ND	
Material handling and transfer--all minerals except bauxite (SCC 3-03-024-08)[g]	0.01	C	0.004	C
Material handling and transfer--bauxite/alumina (SCC 3-03-024-08)[g,h]	ND		ND	

[a] References 9-12; factors represent uncontrolled emissions unless otherwise noted; controlled emission factors are discussed in Section 11.24.3. All emission factors are in lb/ton of material processed unless noted. SCC = Source Classification Code. Neg = negligible. ND = no data.

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

[c] Defined in Section 11.24.2.

[d] Based on weight of material entering primary crusher.

[e] Based on weight of material entering grinder; emission factors are the same for both low-moisture and high-moisture ore because material is usually dried before entering grinder.

[f] Based on weight of material exiting dryer; emission factors are the same for both high-moisture and low-moisture ores; SO_x emissions are fuel dependent (see Chapter 1); NO_x emissions depend on burner design and combustion temperature (see Chapter 1).

[g] Based on weight of material transferred; applies to each loading or unloading operation and to each conveyor belt transfer point.

[h] Bauxite with moisture content as high as 15 to 18% can exhibit the emission characteristics of low-moisture ore; use low-moisture ore emission factor for bauxite unless material exhibits obvious sticky, nondusting characteristics.

13.2.2 Unpaved Roads

13.2.2.1 General

When a vehicle travels an unpaved road, the force of the wheels on the road surface causes pulverization of surface material. Particles are lifted and dropped from the rolling wheels, and the road surface is exposed to strong air currents in turbulent shear with the surface. The turbulent wake behind the vehicle continues to act on the road surface after the vehicle has passed.

The particulate emission factors presented in the previous draft version of this section of AP-42, dated October 2001, implicitly included the emissions from vehicles in the form of exhaust, brake wear, and tire wear as well as resuspended road surface material[25]. EPA included these sources in the emission factor equation for unpaved public roads (equation 1b in this section) since the field testing data used to develop the equation included both the direct emissions from vehicles and emissions from resuspension of road dust.

This version of the unpaved public road emission factor equation only estimates particulate emissions from resuspended road surface material [23, 26]. The particulate emissions from vehicle exhaust, brake wear, and tire wear are now estimated separately using EPA's MOBILE6.2 [24]. This approach eliminates the possibility of double counting emissions. Double counting results when employing the previous version of the emission factor equation in this section and MOBILE6.2 to estimate particulate emissions from vehicle traffic on unpaved public roads. It also incorporates the decrease in exhaust emissions that has occurred since the unpaved public road emission factor equation was developed. The previous version of the unpaved public road emission factor equation includes estimates of emissions from exhaust, brake wear, and tire wear based on emission rates for vehicles in the 1980 calendar year fleet. The amount of PM released from vehicle exhaust has decreased since 1980 due to lower new vehicle emission standards and changes in fuel characteristics.

13.2.2.2 Emissions Calculation And Correction Parameters[1-6]

The quantity of dust emissions from a given segment of unpaved road varies linearly with the volume of traffic. Field investigations also have shown that emissions depend on source parameters that characterize the condition of a particular road and the associated vehicle traffic. Characterization of these source parameters allow for "correction" of emission estimates to specific road and traffic conditions present on public and industrial roadways.

Dust emissions from unpaved roads have been found to vary directly with the fraction of silt (particles smaller than 75 micrometers [μm] in diameter) in the road surface materials.[1] The silt fraction is determined by measuring the proportion of loose dry surface dust that passes a 200-mesh screen, using the ASTM-C-136 method. A summary of this method is contained in Appendix C of AP-42. Table 13.2.2-1 summarizes measured silt values for industrial unpaved roads. Table 13.2.2-2 summarizes measured silt values for public unpaved roads. It should be noted that the ranges of silt content vary over two orders of magnitude. Therefore, the use of data from this table can potentially introduce considerable error. Use of this data is strongly discouraged when it is feasible to obtain locally gathered data.

Since the silt content of a rural dirt road will vary with geographic location, it should be measured for use in projecting emissions. As a conservative approximation, the silt content of the parent soil in the area can be used. Tests, however, show that road silt content is normally lower than in the surrounding parent soil, because the fines are continually removed by the vehicle traffic, leaving a higher percentage of coarse particles.

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

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

[a]References 1,5-15.

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

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

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

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

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

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

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

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

1 lb/VMT = 281.9 g/VKT

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

13.2.4 Aggregate Handling And Storage Piles

13.2.4.1 General

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

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

13.2.4.2 Emissions And Correction Parameters

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

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

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

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

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

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

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

13.2.5 Industrial Wind Erosion

13.2.5.1 General[1-3]

Dust emissions may be generated by wind erosion of open aggregate storage piles and exposed areas within an industrial facility. These sources typically are characterized by nonhomogeneous surfaces impregnated with nonerodible elements (particles larger than approximately 1 centimeter [cm] in diameter). Field testing of coal piles and other exposed materials using a portable wind tunnel has shown that (a) threshold wind speeds exceed 5 meters per second (m/s) (11 miles per hour [mph]) at 15 cm above the surface or 10 m/s (22 mph) at 7 m above the surface, and (b) particulate emission rates tend to decay rapidly (half-life of a few minutes) during an erosion event. In other words, these aggregate material surfaces are characterized by finite availability of erodible material (mass/area) referred to as the erosion potential. Any natural crusting of the surface binds the erodible material, thereby reducing the erosion potential.

13.2.5.2 Emissions And Correction Parameters

If typical values for threshold wind speed at 15 cm are corrected to typical wind sensor height (7 - 10 m), the resulting values exceed the upper extremes of hourly mean wind speeds observed in most areas of the country. In other words, mean atmospheric wind speeds are not sufficient to sustain wind erosion from flat surfaces of the type tested. However, wind gusts may quickly deplete a substantial portion of the erosion potential. Because erosion potential has been found to increase rapidly with increasing wind speed, estimated emissions should be related to the gusts of highest magnitude.

The routinely measured meteorological variable that best reflects the magnitude of wind gusts is the fastest mile. This quantity represents the wind speed corresponding to the whole mile of wind movement that has passed by the 1 mile contact anemometer in the least amount of time. Daily measurements of the fastest mile are presented in the monthly Local Climatological Data (LCD) summaries. The duration of the fastest mile, typically about 2 minutes (for a fastest mile of 30 mph), matches well with the half-life of the erosion process, which ranges between 1 and 4 minutes. It should be noted, however, that peak winds can significantly exceed the daily fastest mile.

The wind speed profile in the surface boundary layer is found to follow a logarithmic distribution:

$$u(z) = \frac{u^*}{0.4} \ln\frac{z}{z_o} \qquad (z > z_o) \qquad (1)$$

where:

u = wind speed, cm/s
u^* = friction velocity, cm/s
z = height above test surface, cm
z_o = roughness height, cm
0.4 = von Karman's constant, dimensionless

where:

k = particle size multiplier
N = number of disturbances per year
P_i = erosion potential corresponding to the observed (or probable) fastest mile of wind for the ith period between disturbances, g/m^2

The particle size multiplier (k) for Equation 2 varies with aerodynamic particle size, as follows:

Aerodynamic Particle Size Multipliers For Equation 2			
30 µm	<15 µm	<10 µm	<2.5 µm
1.0	0.6	0.5	0.075[a]

[a] Multiplier for < 2.5 um taken from Reference 11.

This distribution of particle size within the under 30 micrometer (µm) fraction is comparable to the distributions reported for other fugitive dust sources where wind speed is a factor. This is illustrated, for example, in the distributions for batch and continuous drop operations encompassing a number of test aggregate materials (see Section 13.2.4).

In calculating emission factors, each area of an erodible surface that is subject to a different frequency of disturbance should be treated separately. For a surface disturbed daily, N = 365 per year, and for a surface disturbance once every 6 months, N = 2 per year.

The erosion potential function for a dry, exposed surface is:

$$P = 58\,(u^* - u_t^*)^2 + 25\,(u^* - u_t^*) \qquad (3)$$

$$P = 0 \text{ for } u^* \le u_t^*$$

where:

u^* = friction velocity (m/s)
u_t = threshold friction velocity (m/s)

Because of the nonlinear form of the erosion potential function, each erosion event must be treated separately.

Equations 2 and 3 apply only to dry, exposed materials with limited erosion potential. The resulting calculation is valid only for a time period as long or longer than the period between disturbances. Calculated emissions represent intermittent events and should not be input directly into dispersion models that assume steady-state emission rates.

For uncrusted surfaces, the threshold friction velocity is best estimated from the dry aggregate structure of the soil. A simple hand sieving test of surface soil can be used to determine the mode of the surface aggregate size distribution by inspection of relative sieve catch amounts, following the procedure described below.

APPENDIX B.2

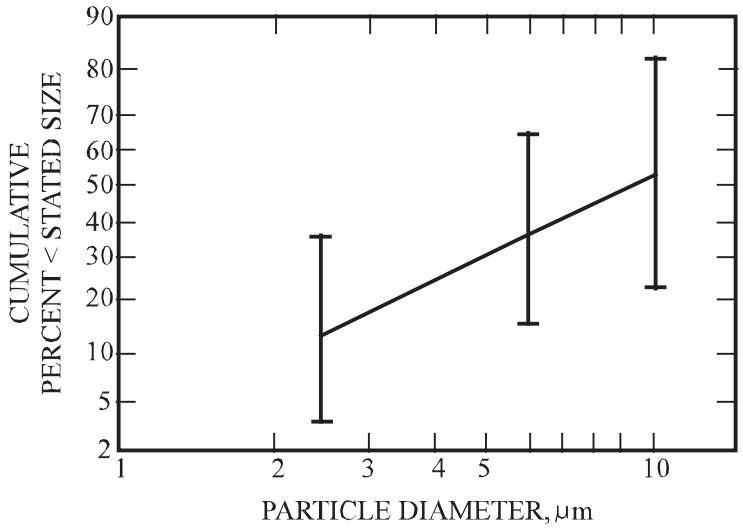
GENERALIZED PARTICLE SIZE DISTRIBUTIONS

Table B.2.2 (cont.).

Category: 3
Process: Mechanically Generated
Material: Aggregate, Unprocessed Ores

Category 3 covers material handling and processing of aggregate and unprocessed ore. This broad category includes emissions from milling, grinding, crushing, screening, conveying, cooling, and drying of material. Emissions are generated through either the movement of the material or the interaction of the material with mechanical devices.

REFERENCES: 1-2,4,7



Particle Size, µm	Cumulative % ≤ Stated Size (Uncontrolled)	Minimum Value	Maximum Value	Standard Deviation
1.0[a]	4			
2.0[a]	11			
2.5	15	3	35	7
3.0[a]	18			
4.0[a]	25			
5.0[a]	30			
6.0	34	15	65	13
10.0	51	23	81	14

[a] Value calculated from data reported at 2.5, 6.0, and 10.0 µm. No statistical parameters are given for the calculated value.

Manufacturer Specification Sheets

SG050T | 4.5L | 50 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

Standby Power Rating

50 kW, 63 kVA, 60 Hz

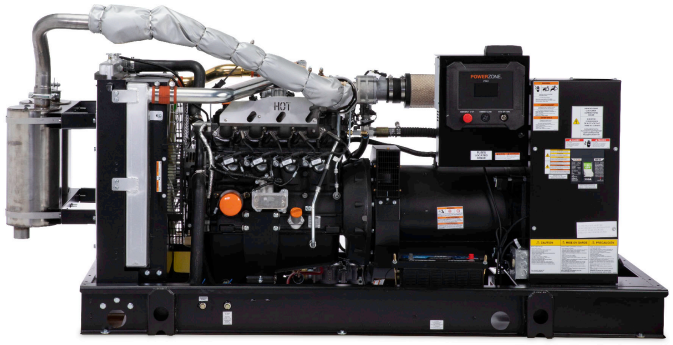


Image used for illustration purposes only

*Assembled in the USA using domestic and foreign parts

Codes and Standards

Generac products are designed to the following standards:

UL2200, UL6200, UL1236, UL489

CSA C22.2, ULC S601

BS5514 and DIN 6271

SAE J1349

NFPA 37, 70, 99, 110

NEC700, 701, 702, 708

NEMA ICS10, MG1, 250, ICS6, AB1

ANSI C62.41

IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

Generac ensures superior quality by designing and manufacturing most of its generator components, such as alternators, enclosures, control systems and communications software. Generac also makes its own spark-ignited engines, and you'll find them on every Generac gaseous-fueled generator. We engineer and manufacture them from the block up — all at our facilities throughout Wisconsin. Applying natural gas and LP-fueled engines to generators requires advanced engineering expertise to ensure reliability, durability and necessary performance. By designing specifically for these dry, hotter-burning fuels, the engines last longer and require less maintenance. Building our own engines also means we control every step of the supply chain and delivery process, so you benefit from single-source responsibility.

Plus, Generac Industrial Power's distribution network provides all parts and service so you don't have to deal with third-party suppliers. It all leads to a positive owner experience and higher confidence level. Generac spark-ignited engines give you more options in commercial and industrial generator applications as well as extended run time from utility-supplied natural gas.

SG050T | 4.5L | 50 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Critical Silencer
- Oil Temperature Sender with Alarm
- Air Filter Restriction Indicator

FUEL SYSTEM

- NPT Fuel Connection on Frame
- Primary and Secondary Fuel Shutoff

COOLING SYSTEM

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

ELECTRICAL SYSTEM

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby and Demand Response Rated Units)

ENCLOSURE (IF SELECTED)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

CONTROL SYSTEM



Power Zone® Pro Controller

- NFPA 110 Level 1 Compliant
- Engine Protective Functions
- Alternator Protective Functions
- Digital Engine Governor Control
- Digital Voltage Regulator
- Multiple Programmable Inputs and Outputs
- Remote Display Capability

Power Zone® Pro Controller Continued

- Remote Communication via Modbus® RTU, Modbus TCP/IP, and Ethernet 10/100, SNMP
- Alarm and Event Logging with Real Time Stamping
- Expandable Analog and Digital Inputs and Outputs
- Remote Wireless Software Update Capable
- Built-In Programmable Logic Eliminates the Need for External Controllers Under Most Conditions
- Programmable I/O Channel Properties
- Built-In Diagnostics

Alarms and Warnings

- High/Low Oil Pressure
- High/Low Coolant Level
- High/Low Coolant Temperature
- Sender/Sensor Failure
- High/Low Oil Temperature
- Over Total kW
- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency
- Over Current
- High/Low Battery Voltage

Alarms and Warnings Continued

- Battery Charger Current
- Phase to Phase and Phase to Neutral Short Circuits (I^2T Algorithm)

4.3 Inch Color Touch Screen Display

- Resistive Color Touch Screen
- Easily Identifiable Icons
- Multi-Lingual
- On Screen Editable Parameters

Key Function Monitoring

- Three Phase Voltage, Amperage, kW, kVA, and kVAr
- Selectable Line to Line or Line to Neutral Measurements
- Frequency
- Engine Speed
- Engine Coolant Temperature
- Engine Oil Temperature
- Battery Voltage
- Hourmeter
- Warning and Alarm Indication
- Diagnostics
- Maintenance Events/Information

SG050T | 4.5L | 50 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Heater with Shutoff Valves
- Engine Coolant Heater
- Oil Heater
- Level 1 Fan and Belt Guards (Enclosed Units Only)
- Radiator Duct Adapter (Open Set Only)
- Two-Stage Heavy Duty Air Cleaner
- Critical Grade Silencer
- Baseframe Cover/Rodent Guard

FUEL SYSTEM

- NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- 10A UL Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- 3rd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

GENERATOR SET

- Extended Factory Testing (3-Phase Only)
- 8 Position Load Center

ENCLOSURE

- Level 0 Sound Attenuated
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Enclosure Heaters (with Motorized Dampers Only)
- Door Alarm Switch

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 10A Engine Run Relay
- Ground Fault Annunciator
- 120 V GFCI and 240 V Outlets
- 100 dB Alarm Horn
- Damper Alarm Contacts (with Motorized Dampers Only)

WARRANTY (STANDBY GENSETS ONLY)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

ENGINEERED OPTIONS

CONTROL SYSTEM

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

GENERATOR SET

- Special Testing
- Battery Box

SG050T | 4.5L | 50 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	4
Type	In-Line
Displacement - in3 (L)	275.0 (4.5)
Bore: in (mm)	4.5 (114.3)
Stroke: in (mm)	4.25 (107.95)
Compression Ratio	9.1:1
Intake Air Method	Turbocharged
Number of Main Bearings	5
Connecting Rods	Forged Steel, Fractured Split, Bushingless
Cylinder Head	Cast Iron
Cylinder Liners	Cast Iron
Ignition	Coil Near Plug Solid State Inductive
Piston Type	Cast Aluminum Flat Top
Crankshaft Type	Forged Steel
Lifter Type	Hydraulic Roller
Intake Valve Material	Stainless Steel
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	High Steel Iron Alloy

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	0.25

Lubrication System

Oil Pump	Gear Driven
Oil Filter Type	Full Flow Spin-On Cartridge
Engine Oil Capacity: qt (L)	21 (20)

Cooling System

Cooling System Type	Pressurized Closed
Fan Type	Pusher
Fan Speed (rpm)	2,100
Fan Diameter - in (mm)	22 (533)

Fuel System

Fuel Type	Natural Gas, Propane
Fuel Injection	Electronic
Fuel Shutoff	Generac
Operating Fuel Pressure (NG) - in H_2O (kPa)	5 - 14 (1.2 - 3.5)
Operating Fuel Pressure (LP) - in H_2O (kPa)	7 - 14 (1.7 - 3.5)

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative (-)

ALTERNATOR SPECIFICATIONS

Standard Model	K0080124Y21
Poles	4
Field Type	Revolving
Insulation Class — Rotor	H
Insulation Class — Stator	H
Total Harmonic Distortion (THD)	<5%
Telephone Interference Factor (TIF)	<50
Standard Excitation	Synchronous Brushless
Bearings	Sealed Ball
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SG050T | 4.5L | 50 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS NATURAL GAS/PROPANE VAPOR

	Standby	
Single-Phase 120/240 VAC @1.0pf	50 kW/50 kVA	Amps: 208
Three-Phase 120/208 VAC @0.8pf	50 kW/63 kVA	Amps: 174
Three-Phase 120/240 VAC @0.8pf	50 kW/63 kVA	Amps: 151
Three-Phase 277/480 VAC @0.8pf	50 kW/63 kVA	Amps: 75
Three-Phase 346/600 VAC @0.8pf	50 kW/63 kVA	Amps: 60

STARTING CAPABILITIES (SKVA)

	sKVA vs. Voltage Dip				
120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%	208/240 VAC 3Ø	30%
A0080044N21	31	K0080124Y21	98	K0045124Y21	75
A0130044N21	58	K0100124Y21	172	K0060124Y21	132

FUEL CONSUMPTION RATES*

Natural Gas – scfh (m^3/hr)		Propane Vapor – scfh (m^3/hr)		Propane Liquid – gph (Lph)	
Percent Load	Standby	Percent Load	Standby	Percent Load	Standby
25%	201 (5.7)	25%	50 (1.4)	25%	1.8 (6.9)
50%	352 (10.0)	50%	124 (3.5)	50%	3.7 (13.9)
75%	506 (14.3)	75%	193 (5.5)	75%	5.5 (20.8)
100%	665 (18.8)	100%	258 (7.3)	100%	7.3 (27.8)

*Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Air Flow (Fan Air Flow Across Radiator) - Open Set	cfm (m3/min)	4,343 (123)
Coolant Flow	gpm (Lpm)	24 (90)
Coolant System Capacity	gal (L)	9 (34)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No. 0199270SSD
Maximum Radiator Backpressure	in H2O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power cfm (m^3/min)	117 (3.3)

ENGINE

		Standby
Rated Engine Speed: RPM	rpm	1,800
Horsepower at Rated kW**	hp	82
Piston Speed	ft/min (m/min)	1,275 (389)
BMEP	psi (kPa)	137 (945)

** Refer to “Emissions Data Sheet” for maximum bHP for EPA and SCAQMD permitting purposes.

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m3/min)	279 (7.9)
Maximum Exhaust Back pressure	in Hg (Kpa)	0.75 (2.54)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1,305 (707)

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.

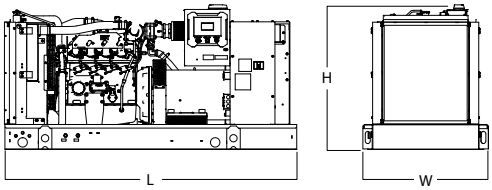
Demand Response - See Bulletin 10000018250

SG050T | 4.5L | 50 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

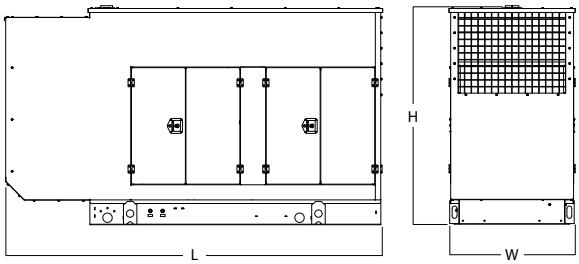
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DIMENSIONS AND WEIGHTS*



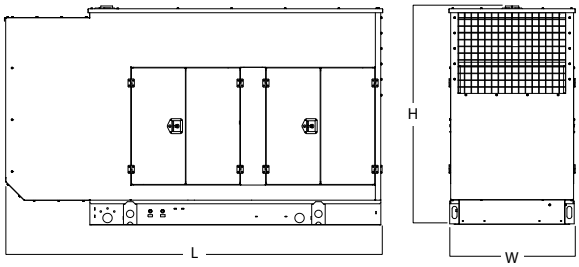
OPEN SET (Includes Exhaust Flex)

L x W x H - in (mm)	92.9 (2,360) x 39.9 (1,014) x 46.0 (1,170)
Weight lbs (kg)	1,845 - 1,856 (837 - 842)



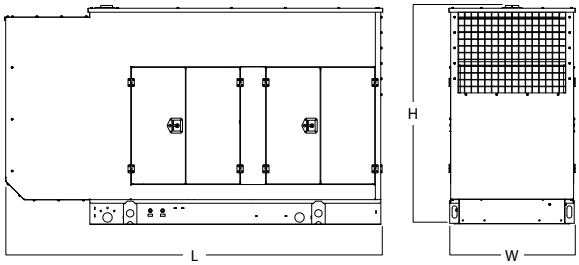
WEATHER PROTECTED ENCLOSURE

L x W x H - in (mm)	120.8 (3,068) x 40.5 (1,028) x 69.0 (1,754)
Weight lbs (kg)	Steel: 2,584 - 2,596 (1,172 - 1,177) Aluminum: 2,232 - 2,244 (1,013 - 1,018)



LEVEL 1 ACOUSTIC ENCLOSURE

L x W x H - in (mm)	120.8 (3,068) x 40.5 (1,028) x 69.0 (1,754)
Weight lbs (kg)	Steel: 2,675 - 2,687 (1,213 - 1,219) Aluminum: 2,323 - 2,335 (1,054 - 1,059)



LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H - in (mm)	120.8 (3,068) x 40.5 (1,028) x 69.0 (1,754)
Weight lbs (kg)	Steel: 2,753 - 2,765 (1,249 - 1,254) Aluminum: 2,380 - 2,391 (1,079 - 1,085)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings

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Part No. A0000316983
Rev. D 02/02/2024

SG035 | 4.5L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary

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DEMAND RESPONSE READY

Standby Power Rating
35 kW, 44 kVA, 60 Hz

Demand Response Rating
35 kW, 44 kVA, 60 Hz

Prime Power Rating
32 kW, 39 kVA, 60 Hz

ISO 9001:2008

USA ENGINEERED & BUILT*
*Assembled in the USA using domestic and foreign parts

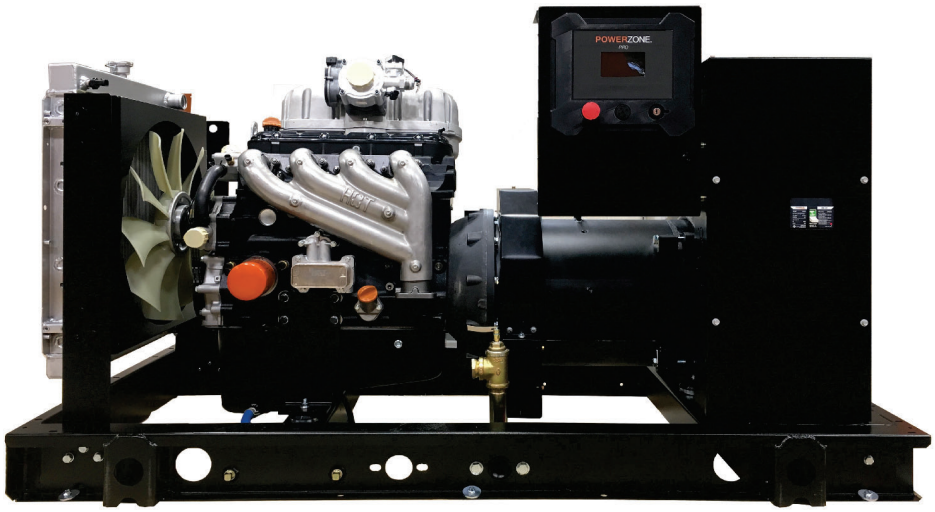


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL6200, UL1236, UL489
- CSA C22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41
- IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

Generac ensures superior quality by designing and manufacturing most of its generator components, such as alternators, enclosures, control systems and communications software. Generac also makes its own spark-ignited engines, and you'll find them on every Generac gaseous-fueled generator. We engineer and manufacture them from the block up — all at our facilities throughout Wisconsin. Applying natural gas and LP-fueled engines to generators requires advanced engineering expertise to ensure reliability, durability and necessary performance. By designing specifically for these dry, hotter-burning fuels, the engines last longer and require less maintenance. Building our own engines also means we control every step of the supply chain and delivery process, so you benefit from single-source responsibility.

Plus, Generac Industrial Power's distribution network provides all parts and service so you don't have to deal with third-party suppliers. It all leads to a positive owner experience and higher confidence level. Generac spark-ignited engines give you more options in commercial and industrial generator applications as well as extended run time from utility-supplied natural gas.

SG035 | 4.5L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary

GENERAC | INDUSTRIAL POWER

STANDARD FEATURES

DEMAND RESPONSE READY

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Critical Silencer
- Oil Temperature Sender with Alarm
- Air Filter Restriction Indicator

Fuel System

- Fuel Line - NPT Connection
- Primary and Secondary Fuel Shutoff

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby and Demand Response Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

CONTROL SYSTEM



Power Zone® Pro Controller

- NFPA 110 Level 1 Compliant
- Engine Protective Functions
- Alternator Protective Functions
- Digital Engine Governor Control
- Digital Voltage Regulator
- Multiple Programmable Inputs and Outputs
- Remote Display Capability
- Remote Communication via Modbus® RTU, Modbus TCP/IP, and Ethernet 10/100
- Alarm and Event Logging with Real Time Stamping
- Expandable Analog and Digital Inputs and Outputs
- Remote Wireless Software Update Capable
- Wi-Fi®, Bluetooth®, BMS, and Remote Telemetry
- Built-In Programmable Logic Eliminates the Need for External Controllers Under Most Conditions
- Programmable I/O Channel Properties
- Built-In Diagnostics

Alarms and Warnings

- High/Low Oil Pressure
- High/Low Coolant Level
- High/Low Coolant Temperature
- Sender/Sensor Failure
- High/Low Oil Temperature
- Over Total kW
- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency
- Over Current
- High/Low Battery Voltage
- Battery Charger Current
- Phase to Phase and Phase to Neutral Short Circuits (I^2T Algorithm)

4.3 Inch Color Touch Screen Display

- Resistive Color Touch Screen
- Easily Identifiable Icons
- Multi-Lingual
- On Screen Editable Parameters
- Key Function Monitoring
- Three Phase Voltage, Amperage, kW, kVA, and kVAr
- Selectable Line to Line or Line to Neutral Measurements
- Frequency
- Engine Speed
- Engine Coolant Temperature
- Engine Oil Pressure
- Engine Oil Temperature
- Battery Voltage
- Hourmeter
- Warning and Alarm Indication
- Diagnostics
- Maintenance Events/Information

SG035 | 4.5L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary

GENERAC® | INDUSTRIAL POWER

CONFIGURABLE OPTIONS

DEMAND RESPONSE READY

ENGINE SYSTEM

- ○ Engine Coolant Heater
- ○ Level 1 Fan and Belt Guards (Enclosed Units Only)
- ○ Baseframe Cover/Rodent Guard
- ○ Radiator Duct Adapter (Open Set Only)

FUEL SYSTEM

- ○ Stainless Steel Flexible Fuel Lines

ELECTRICAL SYSTEM

- ○ 10A UL Listed Battery Charger
- ○ Battery Warmer

ALTERNATOR SYSTEM

- ○ Alternator Upsizing
- ○ Anti-Condensation Heater
- ○ Tropical Coating

CIRCUIT BREAKER OPTIONS

- ○ Main Line Circuit Breaker
- ○ 2nd Main Line Circuit Breaker
- ○ 3rd Main Line Circuit Breaker
- ○ Shunt Trip and Auxiliary Contact
- ○ Electronic Trip Breakers

GENERATOR SET

- ○ Extended Factory Testing (3-Phase Only)
- ○ 8 Position Load Center
- ○ Spring Vibration Isolators
- ○ Pad Vibration Isolators

ENCLOSURE

- ○ Weather Protected Enclosure
- ○ Level 1 Sound Attenuated
- ○ Level 2 Sound Attenuated
- ○ Level 2 Sound Attenuated with Motorized Dampers
- ○ Steel Enclosure
- ○ Aluminum Enclosure
- ○ Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- ○ AC/DC Enclosure Lighting Kit
- ○ Enclosure Heaters (with Motorized Dampers Only)

CONTROL SYSTEM

- ○ NFPA 110 Compliant 21-Light Remote Annunciator
- ○ Remote Relay Assembly (8 or 16)
- ○ Remote E-Stop (Break Glass-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Flush Mount)
- ○ 10A Engine Run Relay
- ○ Ground Fault Indication and Protection Functions
- ○ 120V GFCI and 240V Outlets
- ○ 100 dB Alarm Horn

WARRANTY (Standby Gensets Only)

- ○ 2 Year Extended Limited Warranty
- ○ 5 Year Limited Warranty
- ○ 5 Year Extended Limited Warranty
- ○ 7 Year Extended Limited Warranty
- ○ 10 Year Extended Limited Warranty

ENGINEERED OPTIONS

CONTROL SYSTEM

- ○ Spare Inputs (x4) / Outputs (x4)
- ○ Battery Disconnect Switch

GENERATOR SET

- ○ Special Testing
- ○ Battery Box

SG035 | 4.5L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary

GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

DEMAND RESPONSE READY

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	4
Type	In-Line
Displacement - in^3 (L)	275.0 (4.5)
Bore - in (mm)	4.5 (114.3)
Stroke - in (mm)	4.25 (107.95)
Compression Ratio	9.94:1
Intake Air Method	Naturally Aspirated
Number of Main Bearings	5
Connecting Rods	Forged Steel, Fractured Split, Bushingless
Cylinder Head	Cast Iron
Cylinder Liners	Cast Iron
Ignition	Coil Near Plug Solid State Inductive
Piston Type	Cast Aluminum Flat Top
Crankshaft Type	Forged Steel
Lifter Type	Hydraulic
Intake Valve Material	Stainless Steel
Exhaust Valve Material	Stainless Steel
Hardened Valve Seats	High Steel Iron Alloy

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear Driving
Oil Filter Type	Full-Flow Spin-On Cartridge
Crankcase Capacity - qt (L)	21 (20)

Cooling System

Cooling System Type	Pressurized Closed
Fan Type	Pusher
Fan Speed - RPM	2,100
Fan Diameter - in (mm)	20 (508)

Fuel System

Fuel Type	Natural Gas, Propane
Fuel Injection	Electronic
Fuel Shut Off	Generac
NG Operating Fuel Pressure - in H_2O (kPa)	5 - 14 (1.2 - 3.5)
LP Operating Fuel Pressure - in H_2O (kPa)	7 - 14 (1.7 - 3.5)

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	35 A
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	<50

Standard Excitation	Synchronous Brushless
Bearings	Sealed Ball
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SG035 | 4.5L | 35 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary

GENERAC | INDUSTRIAL POWER

OPERATING DATA

DEMAND RESPONSE READY

POWER RATINGS

	Standby		Prime	
Single-Phase 120/240 VAC @1.0pf	35 kW/35 kVA	Amps: 146	32 kW/32 kVA	Amps: 131
Three-Phase 120/208 VAC @0.8pf	35 kW/44 kVA	Amps: 122	32 kW/39 kVA	Amps: 109
Three-Phase 120/240 VAC @0.8pf	35 kW/44 kVA	Amps: 105	32 kW/39 kVA	Amps: 95
Three-Phase 277/480 VAC @0.8pf	35 kW/44 kVA	Amps: 53	32 kW/39 kVA	Amps: 47
Three-Phase 346/600 VAC @0.8pf	35 kW/44 kVA	Amps: 42	32 kW/39 kVA	Amps: 38

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip

277/480 VAC	30%	208/240 VAC	30%
K0035124Y21	61	K0035124Y21	46
K0060124Y21	124	K0060124Y21	95

FUEL CONSUMPTION RATES*

Natural Gas – scfh (m^3/hr)

Percent Load	Standby	Prime
25%	184 (5.2)	174 (4.9)
50%	273 (7.7)	248 (7.0)
75%	361 (10.2)	343 (9.7)
100%	446 (12.6)	427 (12.1)

LP Vapor – scfh (m^3/hr)

Percent Load	Standby	Prime
25%	98 (2.8)	94 (2.7)
50%	129 (3.7)	120 (3.4)
75%	159 (4.5)	155 (4.4)
100%	191 (5.4)	184 (5.2)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby	Prime
Air Flow (Fan Air Flow Across Radiator) - Open Set	scfm (m^3/min)	3,511 (99.4)	
Coolant Flow	gpm (Lpm)	37.7 (142.7)	
Coolant System Capacity	gal (L)	3 (11.4)	
Max. Operating Ambient Temperature	°F (°C)	122 (50)	
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No. 0199270SSD	
Maximum Additional Radiator Backpressure	in H_2O (kPa)	0.5 (0.12)	

COMBUSTION AIR REQUIREMENTS

	Standby	Prime
Flow at Rated Power - scfm (m^3/min)	74 (2.1)	66.3 (1.9)

ENGINE

		Standby	Prime
Rated Engine Speed	RPM	1,800	1,800
Horsepower at Rated kW**	hp	54	49
Piston Speed	ft/min (m/min)	1,275 (389)	1,275 (389)
BMEP	psi (kPa)	88 (606)	80 (554)

EXHAUST

		Standby	Prime
Exhaust Flow (Rated Output)	scfm (m^3/min)	214.2 (6.1)	201.5 (5.7)
Maximum Allowable Backpressure (Post Silencer)	inHg (kPa)	0.75 (2.54)	0.75 (2.54)
Exhaust Temperature (Rated Output)	°F (°C)	1,342 (728)	1,330 (721)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.
Standby - See Bulletin 0187500SSB
Demand Response - See Bulletin 10000018250
Prime - See Bulletin 0187510SSB

SG035 | 4.5L | 35 kW

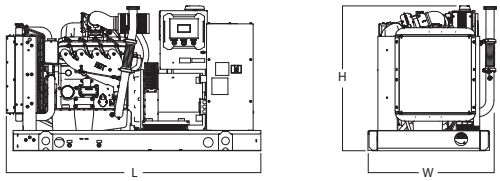
INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary

GENERAC | INDUSTRIAL POWER

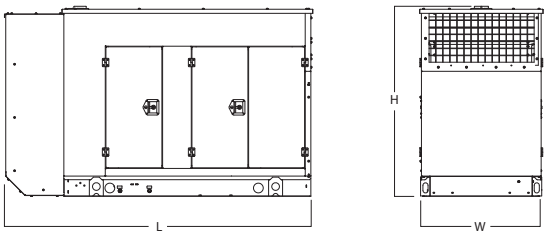
DIMENSIONS AND WEIGHTS*

DEMAND RESPONSE READY



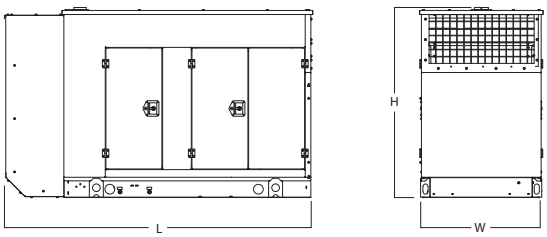
OPEN SET

L x W x H - in (mm)	78.1 (1,981) x 37.3 (946) x 44.4 (1,128)
Weight - lbs (kg)	1,675 - 1,748 (760 - 793)



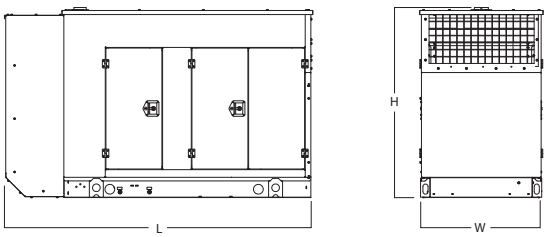
WEATHER PROTECTED ENCLOSURE

L x W x H - in (mm)	94.8 (2,409) x 38.0 (965) x 57.5 (1,461)
Weight - lbs (kg)	Steel: 2,160 - 2,233 (980 - 1,013) Aluminum: 1,894 - 1,965 (859 - 891)



LEVEL 1 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	94.8 (2,409) x 38.0 (965) x 57.5 (1,461)
Weight - lbs (kg)	Steel: 2,258 - 2,329 (1,024 - 1,056) Aluminum: 1,987 - 2,061 (901 - 935)



LEVEL 2 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	94.8 (2,409) x 38.0 (965) x 57.5 (1,461)
Weight - lbs (kg)	Steel: 2,341 - 2,414 (1,062 - 1,095) Aluminum: 2,071 - 2,144 (939 - 972)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

SPEC SHEET

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189
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Part No. A0000310331
Rev. B 06/03/20

POLAR POWER INC.

20 KW DIESEL DC GENERATOR
PART NUMBER 8220-100-D-20-03

All APUs include:

- Ethernet module with SNMP
- Powder coated aluminum enclosure
- V-belt driven radiator fan
- 5 Year Warranty

Options available:

- Electric radiator fans
- Level 2 sound enclosure
- 8-alarm relay board
- Oil refining kit



Standards:

- *UL STD 2200*
- *EPA Compliant*

Made in USA



Founded in 1979 Polar Power specialized in solar photovoltaic systems, solar air conditioning and refrigeration. We developed and provided photovoltaic charging controls for telecommunications in the 1980s along with DC generators for the military. In 1994 we were first to provide DC generators with remote control and monitoring to the telecommunications industry.

Polar's success is based on engineering generators to meet the very specific needs of each application. Telecom site optimization is best met with the DC generator technology as the loads and batteries are DC. It makes no sense to install an AC generator and convert the output to DC. The AC generators are designed for a wide range of applications and they are not specifically produced for telecom applications so there are issues with reliability, space, and fuel efficiency.

Polar can save you considerable time and cost in permitting, installing, purchasing, and maintaining a backup generator. We reduce CAPEX and OPEX costs while improving backup reliability.

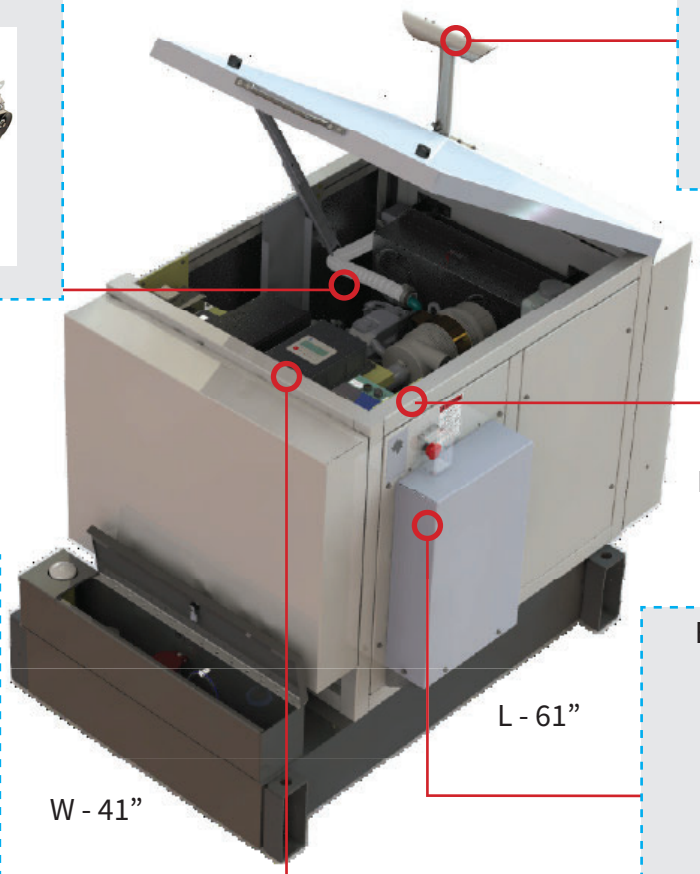
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DC Generator



Rainguard Exhaust





Load Breaker



Supra controller



Electrical tie on



SMALL FOOTPRINT.
Polar’s DC generator is considerably smaller in size than an AC generator. You can now backup sites that could not accommodate an AC generator. Smaller also means less cost for space leasing.

LOW MAINTENANCE.

LOW ACOUSTIC NOISE. <67 dBA @ 7 meters, and low vibration so as not to disturb the local residents or building landlords.

CORROSION RESISTANT. All-aluminum enclosure with stainless hardware for low maintenance, and long service life.

FUEL EFFICIENT. Up to 85% fuel savings due to smaller engine displacement, high efficiency alternator, and variable speed operation.

ADVANCED MONITORING. Remote diagnostics, control, and monitoring. Ethernet and RS232 standard, with SNMP.

RODENT RESISTANT. Small animals can quickly destroy a generator set by gnawing on wires, fuel lines, radiator hoses, etc. Cooling air inlets and outlets have perforated aluminum screens to keep small rodents and large insects out. Stainless steel wire braid is placed over fuel and radiator lines to prevent damage.

LONG LIFE. Controls and wire harnesses are designed to exceed a 20 year life. Higher grade, longer life electrical wire (UL 3173), weather tight connectors, gold plated connector pins on signal circuits. No transfer switches are required.

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SPECIFICATIONS PN 8220-100-D-20-03

Engine

Engine Model	Yanmar 3TNV88-BDSA
Cylinders	3 In-line
Displacement (L)	1.642
Bore (in./mm)	3.4/88
Stroke (in./mm)	3.5/90
Intake Air System	Naturally Aspirated
Engine HP	36
Emissions	U.S. EPA Tier 4 Interim
Emissions Compliance	EPA and CARB Certified
Variable RPM	2300 to 3000

Engine lubrication system

Oil Filter Type	Full flow spin-on canister
Oil Capacity (L)	6.7
Oil Pressure Switch	Yes
Oil Pressure Transducer	Optional

Fuel tank

UL Rated Capacity (gal/L)	54/204
Run Time (hrs)	50 to 60
Tank Alarms	Yes
Visual Gages	Yes
Catch Basin (gal/L)	5/19
Listings	UL 142 (double wall)

Fuel tank reserve time

Load (kW)	**Reserve Time (hrs.)**
3	99
6	72
9	56
10	55
11	48
12	46
13	44
14	40
15	38
20	30

Engine cooling system

Type	Pressurized Aluminum Radiator
Water Pump	Belt-driven, Pre-lubed, self-sealing
Fan Type	Electric Fans
Airflow CFM	1300
Fan Mode	Pusher
Temperature Sensor	Yes

Environmental

Operating Temperature (°C/°F)	-40 to 72 / -40 to 162
Operating Humidity %	100
Cold Start Aids	Glow Plugs

Optional: manifold heater available for temperatures < -40 ºF

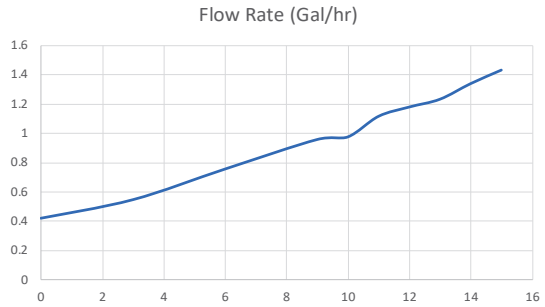
Power adjustment for conditions

Temperature Deration	2% derate for every 5.6 ºC (10 ºF) above 25 ºC (77 ºF)
Altitude Deration	4% derate for every 300 m (1000 ft) above 91 m (300 ft)

Diesel Fuel system

Type	Diesel
Fuel Pump Type	Electrical
Injector Type	Mechanical
Fuel Filtering	Paper Element

Diesel fuel consumption



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Engine cooling

System coolant capacity (gal/L)	2.2/8.3
Maximum operation air temperature on radiator (°C/°F)	54/129
Maximum ambient temperature (°C/°F)	49/120

Exhaust

Exhaust flow at rated output (cfm/cmm)	90/2.55
Exhaust temperature at rated output (°C/°F)	480/900

Alternator

Alternator Model	8220
Type	Permanent Magnets, NdFeB
Weight (lb/kg)	46.5/21
Regulation Type	Variable engine speed
Stator	3 phase/32 poles
Overcurrent Protection (A)	20 kW - 500
Disconnect Means	Pull fuse block or Circuit breaker
Voltage Range (VDC)	44 to 60
Alternator Exhaust Flow (cfm/cmm)	130 to 180 / 3.68 to 5.1
MTBF (hr)	100,000+

Enclosure

Model	88-25-0100
Type	Weather Protective
Materials	Powder coated aluminum
Door Hardware	Three Point with Padlock Hasp, and Removable Side Panels
Mounting	Secure Mounting Tabs
Dims.	L 61” x W 41” x H 44” *(Height 59” including Exhaust)*

Optional: L2 option

Weight

Dry Weight (lb/kg)	837.4/380

Starter Supercapacitor

Model	20-16-0001
Storage Rating (Ah)	500
Voltage (VDC)	13-14.4
Weight (lb/kg)	12.1/5.5
Operating Temperature (°C/°F)	-40 to 65 / -40 to 149
Service Life (year)	10 to 15

Charger

Model	00-10-0015
Input Voltage (VDC)	37 to 62
Output Voltage (VDC)	14 to 14.4
Recharge time from 0 VDC (min)	10
Recharge time from 8 VDC (min)	2
Weight (lb/kg)	2.2/1

Standards

Certification	Intertek 400376
UL Listing	UL STD 2200
Standards	CSA STD C22.2 No. 100

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Controller features

Controller Type.....Supra Model 250
4-Line Plain Text OLED Display.....Simple user interface for ease of operation
Engine Run Hours Indication.....Standard
Programmable Start Delay.....Standard
Run/Alarm/Maintenance Logs.....Standard
Engine Start Sequence.....Cyclic cranking: 5 sec on, 45 sec rest (3 attempts maximum)
Starter Supercapacitor Charger.....Standard
Automatic Voltage Regulation with Over and Under Voltage Protection.....Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown.....Standard
Overcrank/Overspeed.....Standard
Automatic High Engine Temperature Shutdown.....Standard
Field Upgradeable Firmware.....Standard
Glow Plug Delay .....Automatic With Temperature
Engine Start Delay.....Adjustable, Set at 60 sec
Return to Utility Delay.....Adjustable, Set at 60 sec
Engine Cool-down.....Adjustable, Set at 60 sec
Exerciser.....Programmable

Monitoring

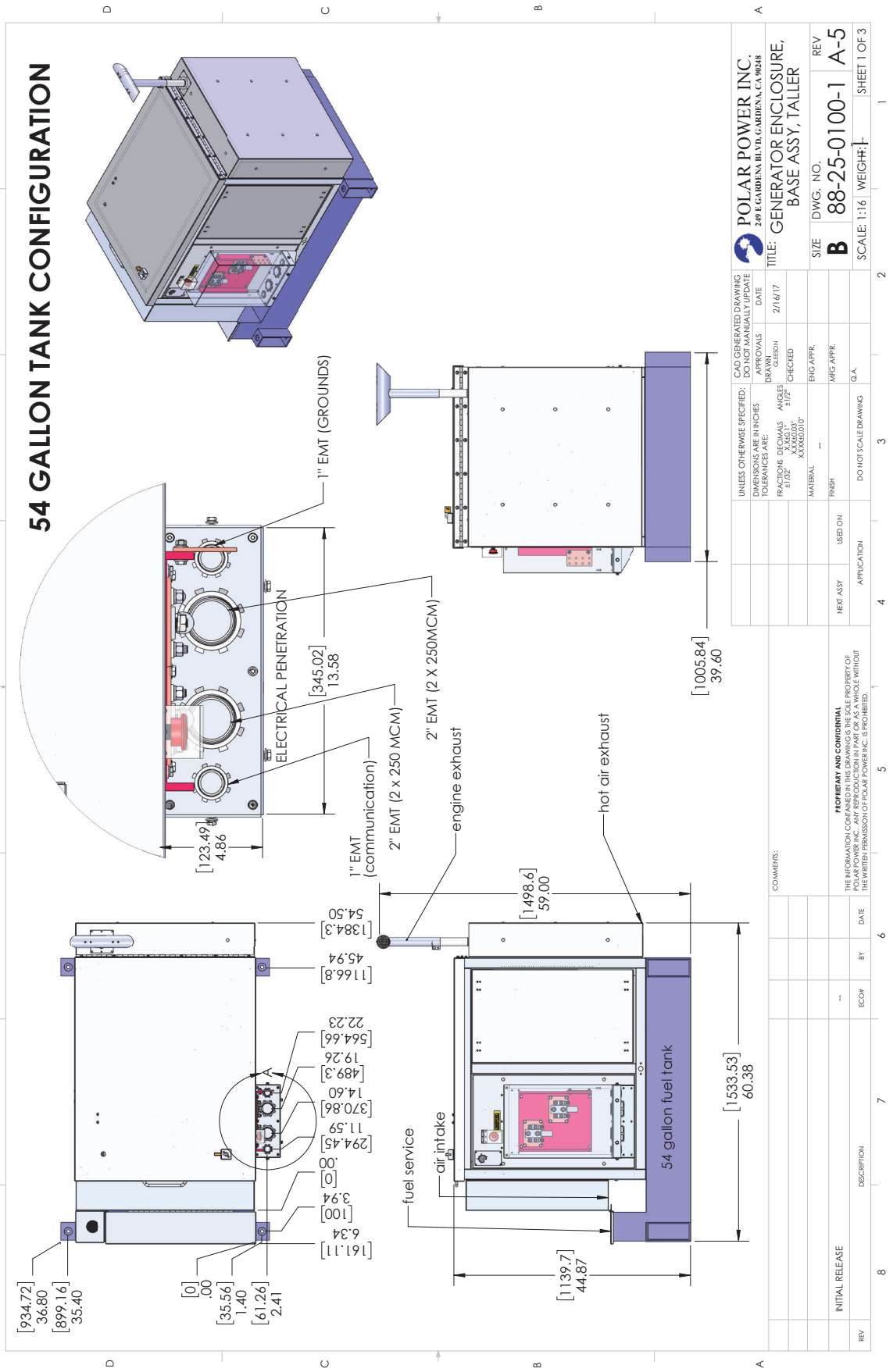
Alarm monitoring and remote control through Ethernet.

Contact closure alarm board

Shutdown Alarm.....Standard
Warning Alarm.....Standard
Engine Run.....Standard
E-Stop Depressed.....Standard

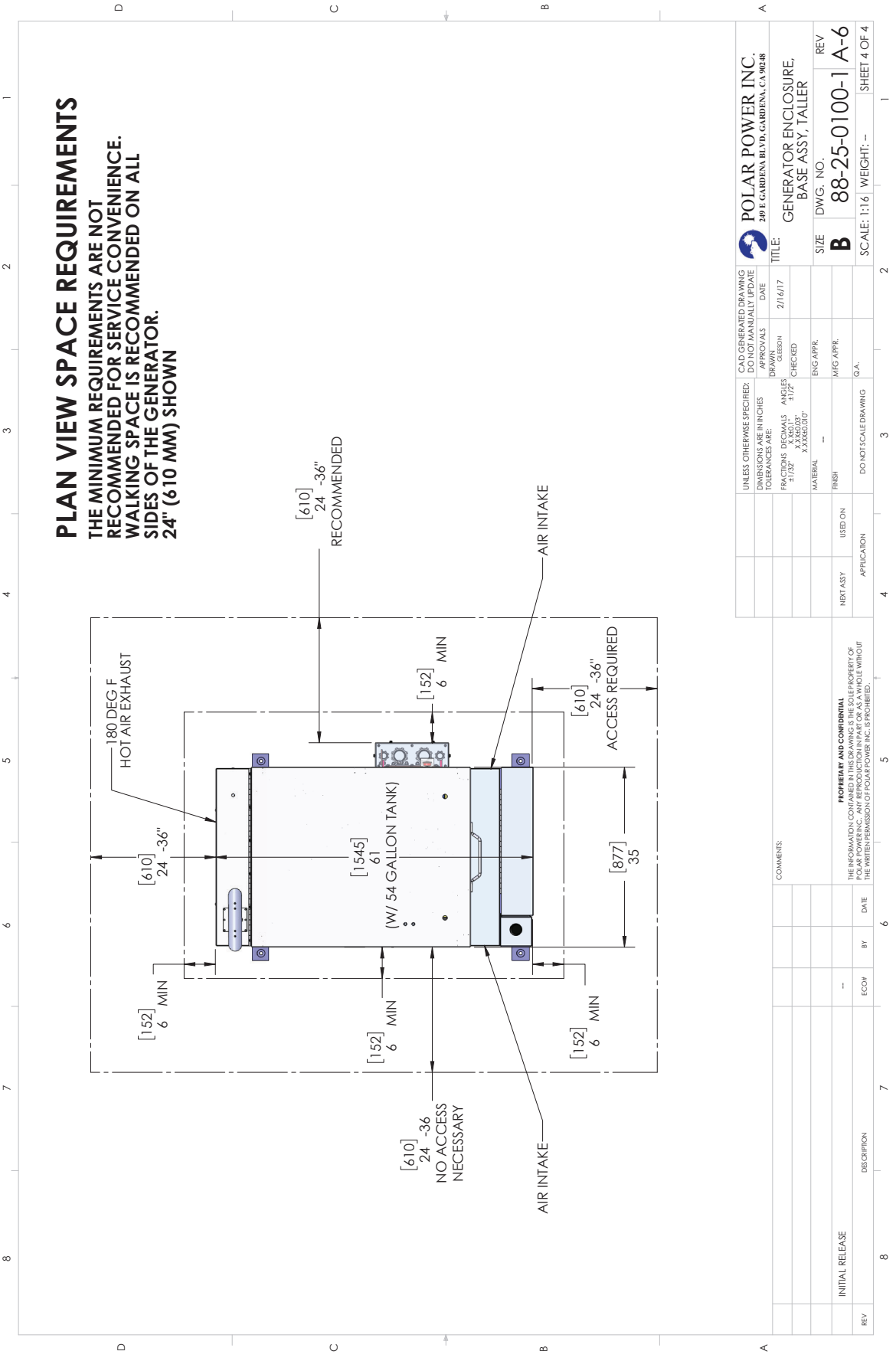
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DRAWING FOR PN 8220-100-D-20-03



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PLANNING FOR PN 8220-100-D-20-03



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2012. The engine for construction equipment.

75 - 147 kW at 1500 - 2500 rpm





The new 1 litre class.

These are the characteristics of the 2012:

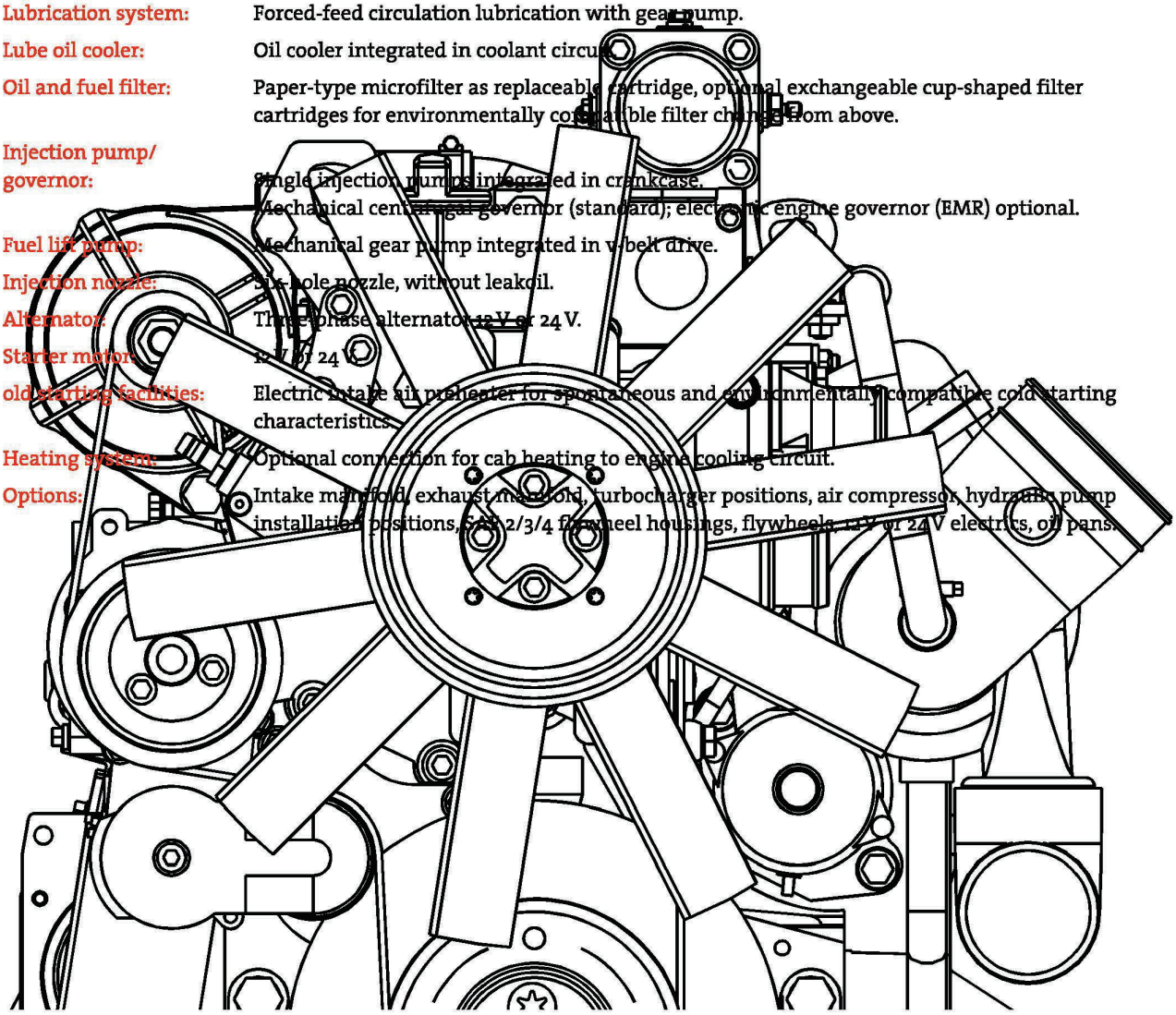
Modern liquid-cooled 4- and 6-cylinder in-line engines.
1 litre displacement per cylinder. Compact design and high power-to-volume-ratio.
Turbocharging and turbocharging with charge air cooling.
High-pressure fuel injection up to 1600 bar.
Electronic engine governor with diagnostic facilities and CAN-bus optional.
3 separate mounting options for gear-driven hydraulic pumps.
Easy accessible service points on one engine side.
Wedge ribbed belt drive with automatic belt tensioner optional.

Your benefits:

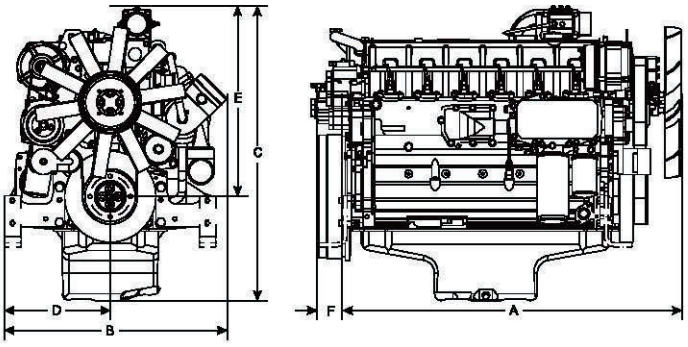
- Fast and powerful response to changing operating duties, dynamic power development.
- Low cost for noise insulation measures. High comfort in the driver's cab because of low noise level. Low noise emission, low environmental impact.
- High operating economy thanks to low fuel consumption, long oil change intervals and low maintenance requirement.
- Low exhaust emission for a clean environment. Meets exhaust regulation EU-RL 97/68 (Step 2) and US-EPA Nonroad (Tier 2).
- High reliability even under extreme working conditions.

Engine description

Type of cooling:	Liquid cooling, thermostatically controlled at engine outlet. Charge-air-cooled engines with air-to-air charge air cooler.
Crankcase:	High grey cast iron crankcase, for monobloc construction.
Mass balance shafts:	4-cylinder optional with full mass balance by 2 shafts integrated into the crankcase.
Crankcase breather:	Closed-circuit crankcase breather.
Cylinder head:	Grey cast block-type cylinder head.
Valve arrangement/ timing:	Two valves per cylinder, actuated from gear driven camshaft via tappets, push rods and rocker arms.
Piston:	Three-ring aluminium piston.
Piston cooling:	Oil cooled with spray nozzles.
Connecting rod:	Forged steed rod.
Crankshaft:	Forged steel shaft with integral counterweights, 4-cylinder version with integral mass balancing shafts.
Camshaft:	Steel shaft.
Lubrication system:	Forced-feed circulation lubrication with gear pump.
Lube oil cooler:	Oil cooler integrated in coolant circuit.
Oil and fuel filter:	Paper-type microfilter as replaceable cartridge, optional exchangeable cup-shaped filter cartridges for environmentally compatible filter change from above.
Injection pump/ governor:	Single injection pumps integrated in crankcase. Mechanical centrifugal governor (standard); electronic engine governor (EMR) optional.
Fuel lift pump:	Mechanical gear pump integrated in v-belt drive.
Injection nozzle:	5/6-hole nozzle, without leakoil.
Alternator:	Three-phase alternator 12 V or 24 V.
Starter motor:	12 V or 24 V.
old starting facilities:	Electric intake air preheater for spontaneous and environmentally compatible cold starting characteristics.
Heating system:	Optional connection for cab heating to engine cooling circuit.
Options:	Intake manifold, exhaust manifold, turbocharger positions, air compressor, hydraulic pump installation positions, SAE 2/3/4 flywheel housings, flywheels, 12 V or 24 V electrics, oil pans.



Dimensions



Engine with belt drive		A	B	C	D	E	F
BF 4 M 2012	mm	742	643	741	300	506	105
BF 4 M 2012 C	mm	742	643	835	300	600	105
BF 6 M 2012 C	mm	998	628	920	300	600	105

Engine with wedge ribbed belt drive (Poly-V)		A	B	C	D	E	F
BF 4 M 2012	mm	798	643	741	300	506	105
BF 4 M 2012 C	mm	798	643	835	300	600	105
BF 6 M 2012 C	mm	1015	628	920	300	600	105

Technical data

Engine type		BF 4 M 2012	BF 4 M 2012 C	BF 6 M 2012 C
Number of cylinders		4	4	6
Bore/stroke	mm	101/126	101/126	101/126
Displacement	l	4.04	4.04	6.06
Compression ratio		19	19	19
Max. rated speed	rpm	2500	2500	2500
Mean piston speed	m/s	10.5	10.5	10.5
Power ratings for construction equipment engines [1]				
Power ratings for industrial engines [2]	kW	74.9	103	155
at speed	rpm	2500	2500	2500
Mean effective pressure	bar	8.9	12.2	12.3
Max. torque	Nm	390	493	743
at speed	rpm	1500	1500	1500
Minimum idle speed	rpm	800	800	800
Specific fuel consumption [3]	g/kWh	208	202	202
Weight to DIN 70020, part 7A [4]	kg	391	391	509

Modell designation

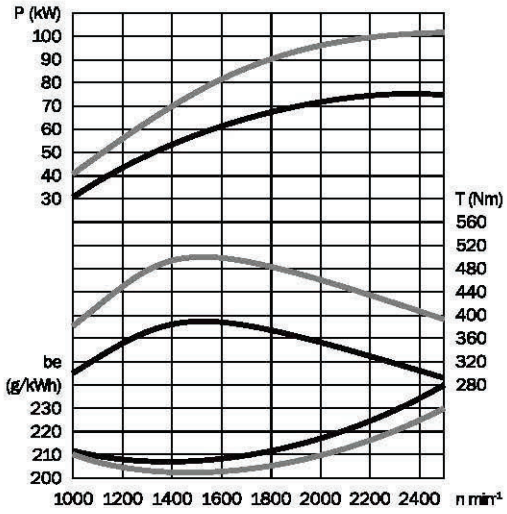
BF 6 M 2012 C

- C = Charge air cooler
- Engine family designation
- M = Liquit cooled
- Number of cylinders
- B = Turbocharging
  F = High-speed four-stroke engine

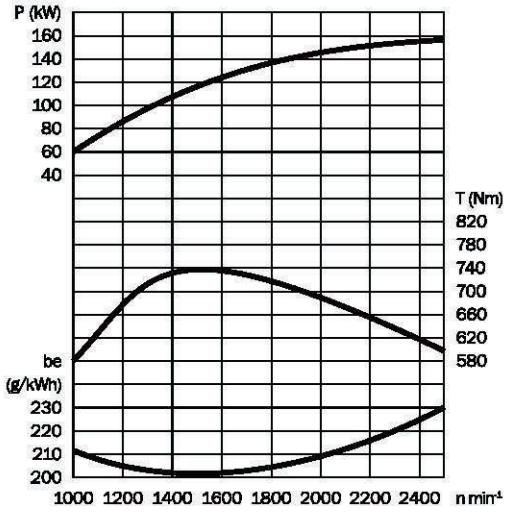
1) Power ratings without deduction of fan power requirement.
2) Fuel stop power to ISO 3046/1.
3) Specific fuel consumption based on diesel fuel with a specific gravity of 0.835 kg/dm³ at 15°C.
4) Without starter motor/alternator, radiator and liquids, however with flywheel and flywheel housing.

The values given in this data sheet are for information purposes only and not binding. The information given in the offer is decisive.

Standard engines



BF 4 M 2012 BF 4 M 2012 C



BF 6 M 2012 C

Order-Nr 0031 1969 / 05 / 2003 / VM-V



The engine company.

DEUTZ AG
DEUTZ MOTOR

Deutz-Mülheimer Str. 147-149
D-51063 Köln
Telephone: +49 (0) 2 21-8 22-0
Fax: +49 (0) 2 21-8 22-25 68
Internet: www.deutz.com
eMail: info@deutz.com

C6.6 ACERT™ Industrial Engine

Tier 4 Interim/Stage IIIB

89-129.4 bkW/119.3-173.5 bhp @ 2200 rpm

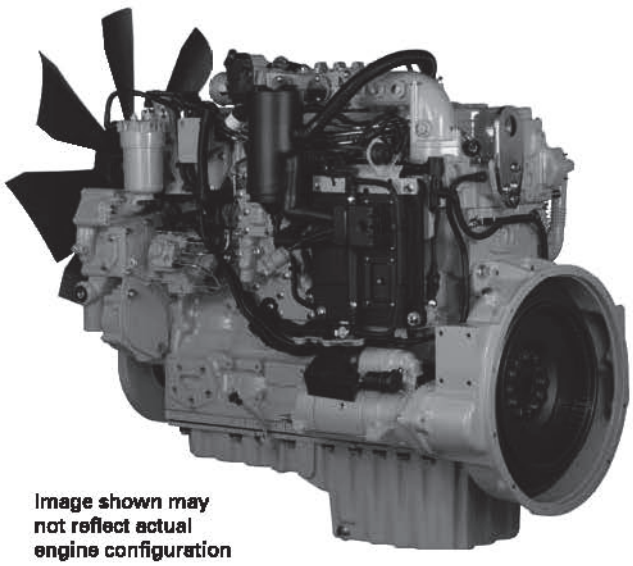


Image shown may not reflect actual engine configuration

CAT® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore	105.0 mm (4.13 in)
Stroke	127 mm (5.00 in)
Displacement	6.6 L (402.8 in³)
Aspiration	Turbocharged-Aftercooled
Compression Ratio	16.5:1
Combustion System	Direct injection
Rotation (from flywheel end)	Counterclockwise
Capacity for Liquids	
Cooling System	13.7 L (14.5 U.S. qts)
Lube System (refill) sump dependent	13-16 L (13.7-16.9 U.S. qts)
Engine Weight, Net Dry (approximate)	695 kg (1532 lbs)

FEATURES

Emissions
Designed to meet 2012 EPA (U.S.) Tier 4 Interim, EU Stage IIIB and Japanese MLIT emissions requirements.

Reliable, Quiet, and Durable Power
World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

High Performance
Turbocharger with smart wastegate available on some ratings for fast response, high power, and increased torque.

Fuel Efficiency
Fuel consumption optimized to match operating cycles of a wide range of equipment and applications. No additional fluids or additives are required, which lowers operating costs.

Fuel & Oil
Tier 4 Interim/Stage IIIB engines require Ultra Low Sulfur Diesel (ULSD) fuel containing a maximum of 15 ppm sulfur, and new oil formulations to support the new technology. Cat® engines are designed to accommodate B20 biofuel. Your Cat dealer can provide more information regarding fuel and oil.

Broad Application Range
Industry leading range of factory configurable ratings and options for agricultural, materials-handling, construction, mining, aircraft ground support, and other industrial applications.

Package Size
Ideal for equipment with narrow engine compartments. Multiple installation options minimize total package size.

Low-Cost Maintenance
Worldwide service delivers ease of maintenance and simplifies the servicing routine. Hydraulic tappets, multi-vee belts, "no ash service" aftertreatment, and 500-hour oil change intervals enable low-cost maintenance. Many service items have a choice of location on either side of the engine to enable choice of service access. The S•O•S℠ program is available from your Cat dealer to determine oil change intervals and provide optimal performance.

Quality
Every Cat engine is manufactured to stringent standards in order to assure customer satisfaction.

World-class Product Support Offered Through Global Cat Dealer Network
- Scheduled maintenance, including S•O•S℠ sample
- Customer Support Agreements (CSA)
- Cat Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

Web Site: For additional information on all your power requirements, visit www.cat-industrial.com.

STANDARD ENGINE EQUIPMENT

Air Inlet
Standard air cleaners

Control System
Full electronic control system, all connectors and wiring looms waterproof and designed to withstand harsh off-highway environments, flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

Cooling System
Top tank temperature 108°C (226°F) as standard to minimize cooling pack size, 50:50 water glycol mix, detailed guidance on cooling system design and validation available to ensure machine reliability

Exhaust System
Diesel particulate filter supplied with a range of inlet and outlet options, no ash service requirement, low temperature regeneration

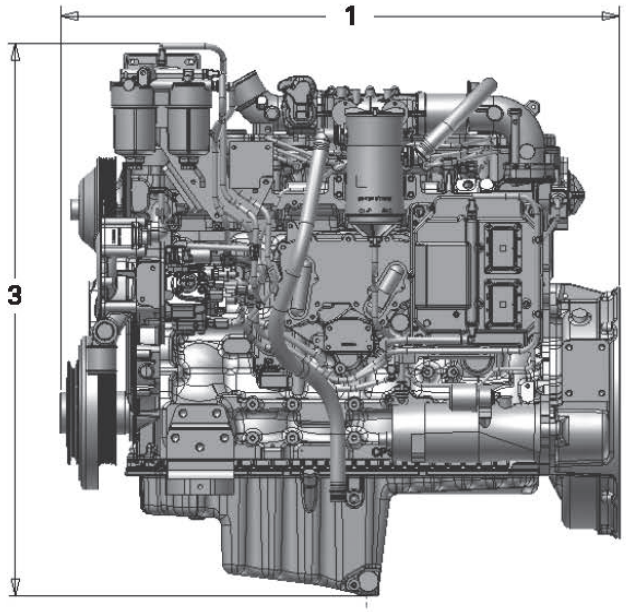
Flywheels and Flywheel Housing
Wide choice of drivetrain interfaces, including but not limited to SAE1, SAE2, and SAE3 configurations

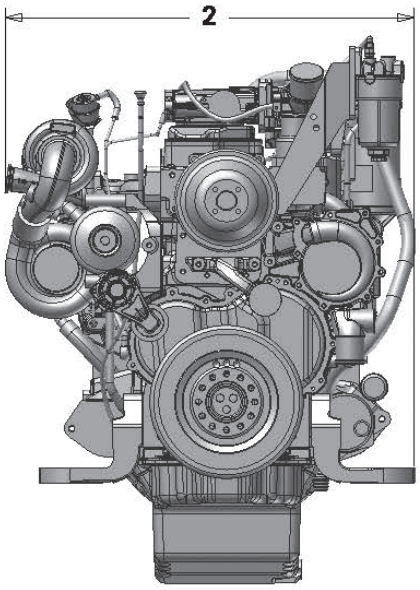
Fuel System
Electronic high pressure common rail, ACERT™ Technology, innovative filter design to ensure maximum protection of the engine

Lube System
Choice of sumps for different applications

Power Take Off
SAE A or SAE B flanges on left-hand side, engine power can also be taken from the front of the engine on some applications, factory fitted compressors are also available.

DIMENSIONS





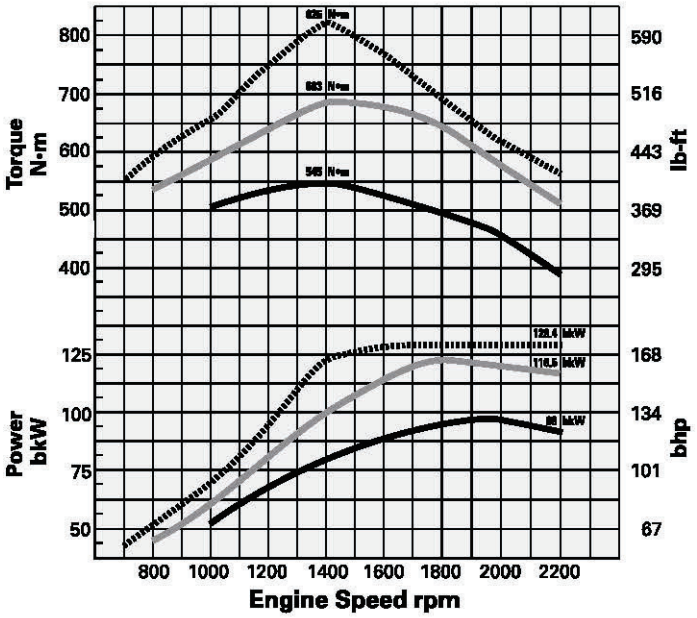
(1) Length — 1063.7 mm (41.9 in) (2) Width — 753 mm (29.6 in) (3) Height — 907 mm (35.7 in)

Note: Final dimensions dependent on selected options

PERFORMANCE DATA — PRELIMINARY

Turbocharged-Aftercooled — 2200 rpm

Rated Speed



Rated Speed

Rating	Speed rpm	Peak Power bkW	Peak Power bhp	Speed rpm	Peak Torque N·m	Peak Torque lb-ft
C	2200	89.0	119.3	1400	545	402.0
C	2200	116.5	156.2	1400	683	503.8
C	2200	129.4	173.5	1400	825	608.5

RATING DEFINITIONS AND CONDITIONS

IND-C (Intermittent) is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

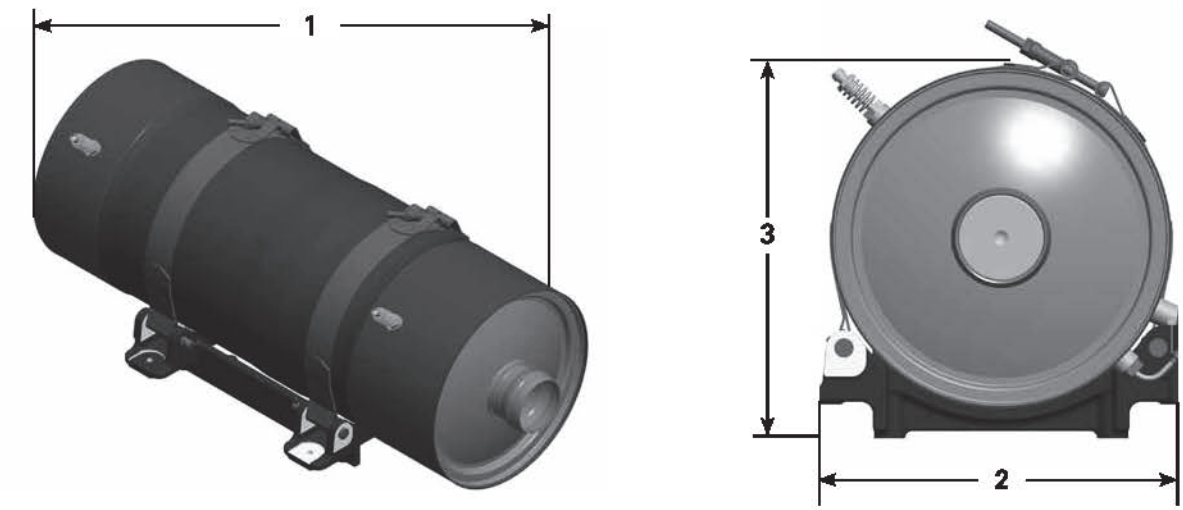
Additional ratings are available for specific customer requirements. Consult your Cat dealer.

Rating Conditions are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (.295 in Hg), and 25°C (77°F). Performance is measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

C6.6 ACERT™
Industrial Engine

Tier 4 Interim/Stage IIIB
89-129.4 bkW/119.3-173.5 bhp @ 2200 rpm

AFTERTREATMENT CONFIGURATION



283 mm (11.1 in) DIAMETER BASE CONFIGURATION SHOWN
Approximate Size and Weight
(1) Length — 852.7 mm (33.6 in)
(2) Width — 364.6 mm (14.35 in)
(3) Height — 352 mm (13.9 in)
Weight — 40 kg (88.1 lbs)

AFTERTREATMENT FEATURES

Regeneration: Low temperature regeneration completely transparent to the operator

Mounting: Extensive range of inlets and outlets, as well as remote and on-engine installations, provide flexibility for many installations.

Service: Service-free DPF for the emissions life of the engine

Available in 12V or 24V systems

STANDARD EMISSIONS CONTROL EQUIPMENT

DOC: Diesel Oxidation Catalyst

DPF: Diesel Particulate Filter

3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.
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CATERPILLAR®

C7.1 ACERT™ Industrial Engine

Tier 4 Interim/Stage IIIB

140-225 bkW/187.7-301.8 bhp @ 2200 rpm

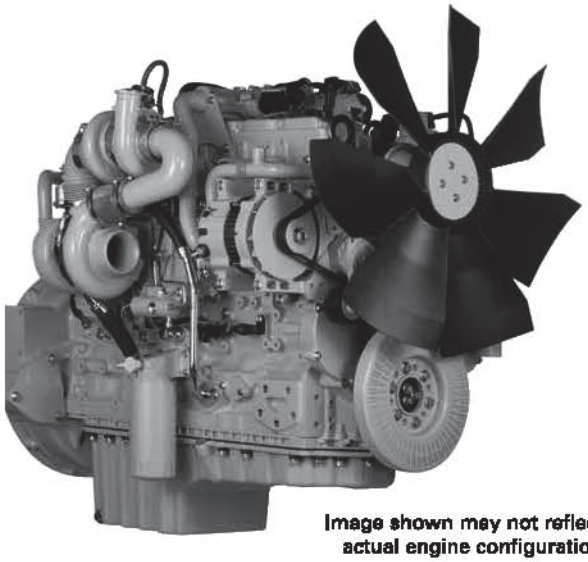


Image shown may not reflect actual engine configuration

CAT® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore ..... 105 mm (4.13 in.)
Stroke ..... 135 mm (5.3 in.)
Displacement ..... 7.01 L (427.7 in³)
Aspiration ..... Series Turbocharged Aftercooled
Compression Ratio 16.5:1
Combustion System ..... Direct Injection
Rotation (from flywheel end) ... Counterclockwise
Capacity for Liquids
  Cooling System ..... 15.2 L (16 U.S. qts.)
  Lube Oil System (refill) sump dependent .... 16.5-21.5 L (17.4-22.7 U.S. qts.)
Engine Weight, Net Dry (approximate) ..... 715 kg (1576 lbs.)

FEATURES

Emissions
Designed to meet 2011 EPA (U.S.) Tier 4 Interim and EU Stage IIIB emissions requirements. Also expected to meet Japanese MLIT emissions requirements once available.

Reliable, Quiet, and Durable Power
World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

High Performance
Series turbocharging with smart wastegate available on all ratings for fast response, high power, and increased torque.

Fuel Efficiency
Fuel consumption optimized to match operating cycles of a wide range of equipment and applications. No additional fluids or additives are required which lowers operating costs.

Broad Application Range
Industry leading range of factory configurable ratings and options for agricultural, materials-handling, construction, mining, aircraft ground support, and other industrial applications.

Package Size
Exceptional power density enables standardization across numerous applications. Multiple installation options minimize total package size. Ideal for equipment with narrow engine compartments.

Low-Cost Maintenance
Hydraulic tappets, multi-vee belts, minimum 4500-hour diesel particulate filter ash service interval and 500-hour oil change intervals enable low-cost maintenance. Many service items have a choice of location on either side of the engine to enable choice of service access.

Testing
Every Cat® engine is quality tested under full load to ensure proper engine performance.

World-class Product Support Offered Through Global Cat Dealer Network
- Scheduled maintenance
- Customer Support Agreements (CSA)
- Cat Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

Web Site: For additional information on all your power requirements, visit www.cat-industrial.com.

STANDARD ENGINE EQUIPMENT

Air Inlet
Heavy-duty air cleaners available

Control System
Full electronic control system, all connectors and wiring looms waterproof and designed to withstand harsh off-highway environments, flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

Cooling System
Top tank temperature 108° C (226° F) as standard to minimize cooling pack size, 50:50 water glycol mix, detailed guidance on cooling system design and validation available to ensure machine reliability

Exhaust System
Diesel particulate filter and regeneration system supplied, with a range of inlet and outlet options

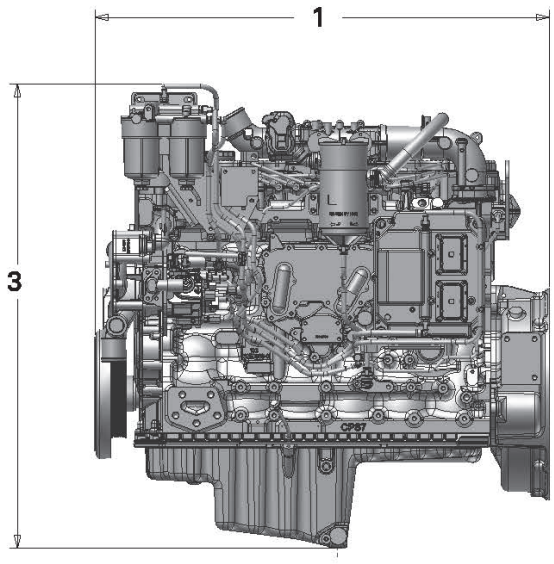
Flywheels and Flywheel Housing
Wide choice of drivetrain interfaces, including SAE1, SAE2 or SAE3 configurations

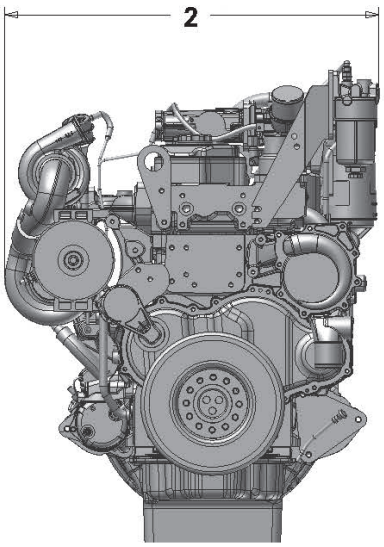
Fuel System
Electronic high pressure common rail, ACERT™ Technology

Lube System
Wide choice of sumps for different applications

Power Take Off
SAE A or SAE B flanges on left-hand side. Right-hand side twin PTO also available. Engine power can also be taken from the front of the engine on some applications, factory fitted compressors are also available

DIMENSIONS





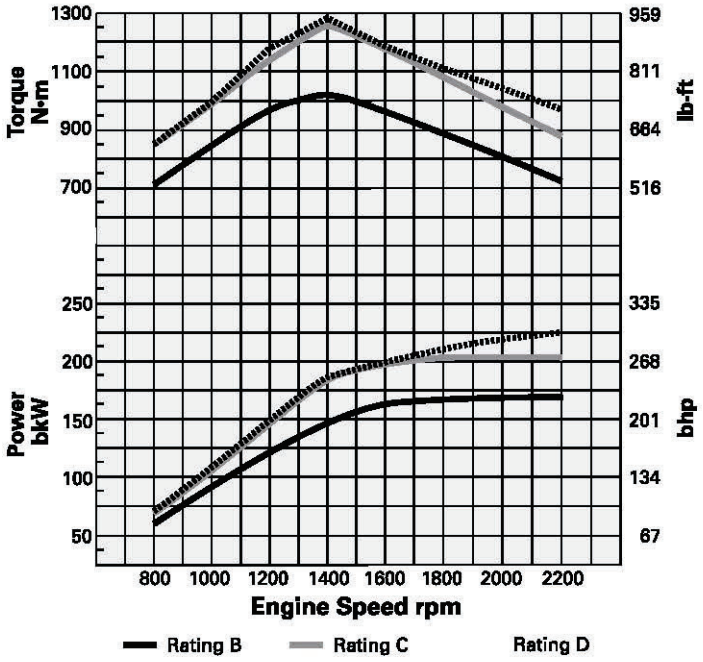
(1) Length — 1065 mm (41.9 in) (2) Width — 820 mm (32.3 in.) (3) Height — 907 mm (35.7 in.)

Note: Final dimensions dependent on selected options

PERFORMANCE DATA — PRELIMINARY

Turbocharged Aftercooled — 2200 rpm (Industrial C Rating) 205 bkW (275 bhp)

Rated Speed



Speed Range

Rating	Speed rpm	Peak Power bkW	Peak Power bhp	Speed rpm	Peak Torque N•m	Peak Torque lb-ft
B	2200	168	225	1400	1028	758
C	2200	205	275	1400	1257	927
D	2200	225	301.8	1400	1274	940

RATING DEFINITIONS AND CONDITIONS

IND-B for service where power and/or speed are cyclic (time at full load not to exceed 80%).

IND-C (Intermittent) is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

IND-D for service where maximum power is required for periodic overloads.

Additional ratings are available for specific customer requirements. Consult your Caterpillar dealer.

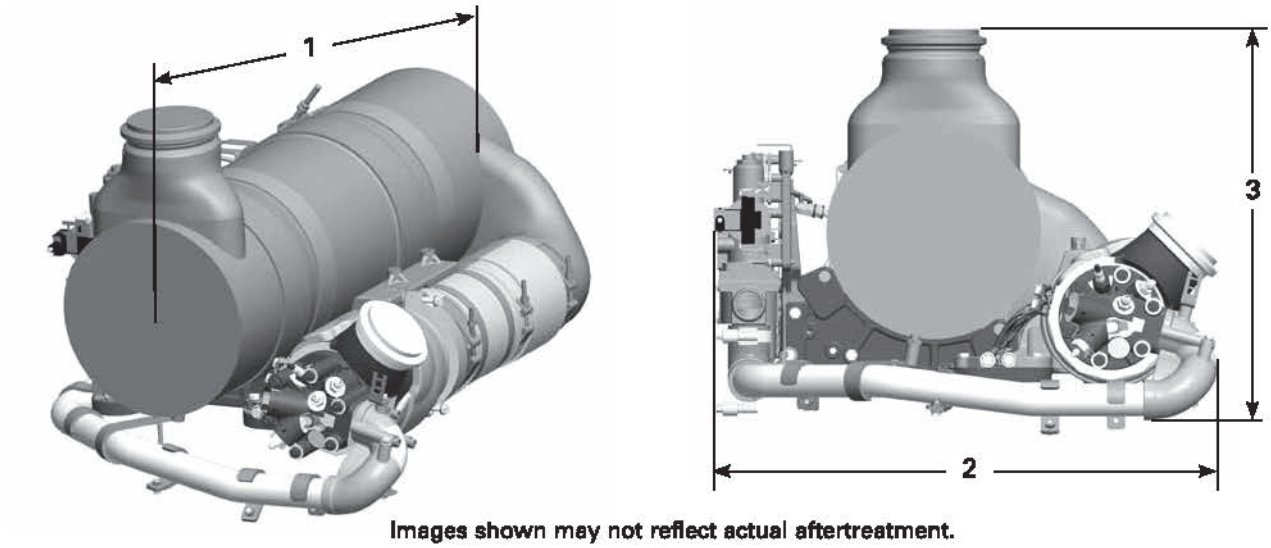
Engine Performance Diesel Engines — 7 liter and higher are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in. Hg) dry barometer and 25° C (77° F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42,780 kJ/kg (18,390 btu/lb) when used at 29° C (84.2° F) with a density of 838.9 g/L.

CATERPILLAR®

C7.1 ACERT™ Industrial Engine

Tier 4 Interim/Stage IIIB
140-225 bkW/187.7-301.8 bhp @ 2200 rpm

AFTERTREATMENT CONFIGURATION



Images shown may not reflect actual aftertreatment.

Less than or equal to 172 bkW (231 bhp)
10" DIAMETER BASE CONFIGURATION
Approximate Size and Weight
(1) Length — 886 mm (34.9 in.)
(2) Width — 620 mm (24.4 in.)
(3) Height — 713 mm (28 in.)
Weight — 124 kg (273.4 lbs.)

Greater than 172 bkW (231 bhp)
12" DIAMETER BASE CONFIGURATION
Approximate Size and Weight
(1) Length — 886 mm (34.9 in.)
(2) Width — 644 mm (23.4 in.)
(3) Height — 715 mm (28.15 in.)
Weight — 134 kg (295.4 lbs.)

CEM Options include:
Basic Aftertreatment Package (DPF/DOC)

Multiple Customizable Configuration Options Available
Each Option Will Be Available As:
250 mm (10 in) Cat Regeneration System + DOC/DPF (up to 172 bkW (231 bhp)

304.8 mm (12 in) Cat Regeneration System + DOC/DPF

Note: Final dimensions dependent on configuration

AFTERTREATMENT FEATURES

Regeneration: Cat Regeneration System maximizes fuel efficiency during regeneration

Flexibility: Flexible regen options maximize uptime

Mounting: Remote installation options provide OEM flexibility for many applications

Service: Minimum 4500-hour diesel particulate filter ash service interval

Available in 12- or 24-volt systems

STANDARD EMISSIONS CONTROL EQUIPMENT

Cat Regeneration System
CEM: Clean Emissions Module
DOC: Diesel Oxidation Catalyst
DPF: Diesel Particulate Filter
NRS: NOx Reduction System
3" flex pipe connection kit with straight, 45°, and 90° options for flexibility

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.
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CATERPILLAR®

C9.3 ACERT™ Industrial Power Unit

Tier 4 Interim/Stage IIIB

224-261 bkW (300-350 bhp) @ 1800-2200 rpm

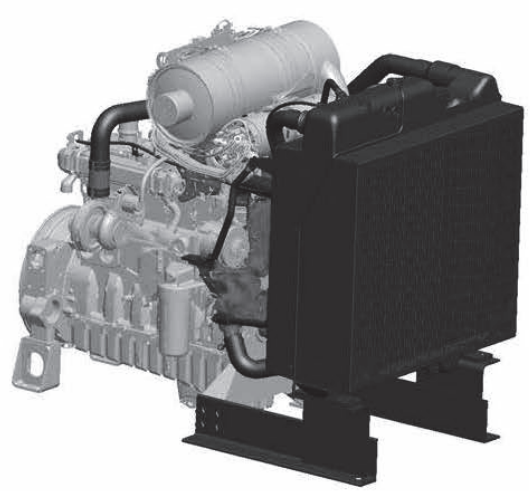


Image shown may not reflect actual power unit configuration

CAT® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore	115 mm (4.53 in.)
Stroke	149 mm (5.87 in.)
Displacement	9.3 L (567.5 in³)
Aspiration	Turbocharged Aftercooled
Compression Ratio	17.0:1
Combustion System	Direct Injection
Rotation (from flywheel end)	Counterclockwise
Capacity for Liquids	
Cooling System	22.2 L (23.5 U.S. qts.)
Lube Oil System (refill)*	30 L (31.7 U.S. qts.)
Engine Weight, Net Dry (approximate)	885 kg (1950 lb)

*500-hour service interval

FEATURES

Emissions
Designed to meet 2011 EPA (U.S.) Tier 4 Interim and EU Stage IIIB emissions requirements. Also expected to meet Japanese MLIT emissions requirements once available.

Reliable, Quiet, and Durable Power
World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

High Performance
Simple and efficient turbocharger with balance valve provides optimal air management and improved fuel efficiency.

Fuel Efficiency
Fuel consumption optimized to match operating cycles of a wide range of equipment and applications.

Broad Application Range
Industry leading range of factory configurable ratings and options for agricultural, materials-handling, construction, mining, forestry, waste, and other industrial applications.

Package
Exceptional power density enables standardization across numerous applications. Available factory-installed configurations: full package, including radiator and Clean Emissions Module (CEM); package with CEM, but no radiator; and package with radiator, but no CEM.

Low-Cost Maintenance
Worldwide service availability improves ease of maintenance and simplifies the servicing routine. Minimum 4500-hour diesel particulate filter ash service interval and 500-hour oil change intervals (dependent on having lube oil system capacity as listed in Cat® engine specifications above) enable low-cost maintenance.

Testing
Every Cat engine is quality tested to ensure proper engine performance.

World-class Product Support Offered Through Global Cat Dealer Network
- Scheduled maintenance
- Customer Support Agreements (CSA)
- Cat Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

Web Site: For additional information on all your power requirements, visit www.cat-industrial.com.

STANDARD ENGINE EQUIPMENT

Air Inlet System
Turbocharged Air-to-Air Aftercooled

Control System
Electronic control system, over-foam wiring harness, automatic altitude compensation, power compensated for fuel temperature, configurable software features, engine monitoring system SAE J1939 broadcast and control, integrated Electronic Control Unit (ECU)

Cooling System
Vertical outlet thermostat housing, centrifugal water pump, guidance on cooling system design available to ensure machine reliability

Exhaust System
CEM that includes Diesel Particulate Filter (DPF), Diesel Oxidation Filter (DOC), and Cat Regeneration System

Flywheels and Flywheel Housing
SAE No. 1 flywheel housing

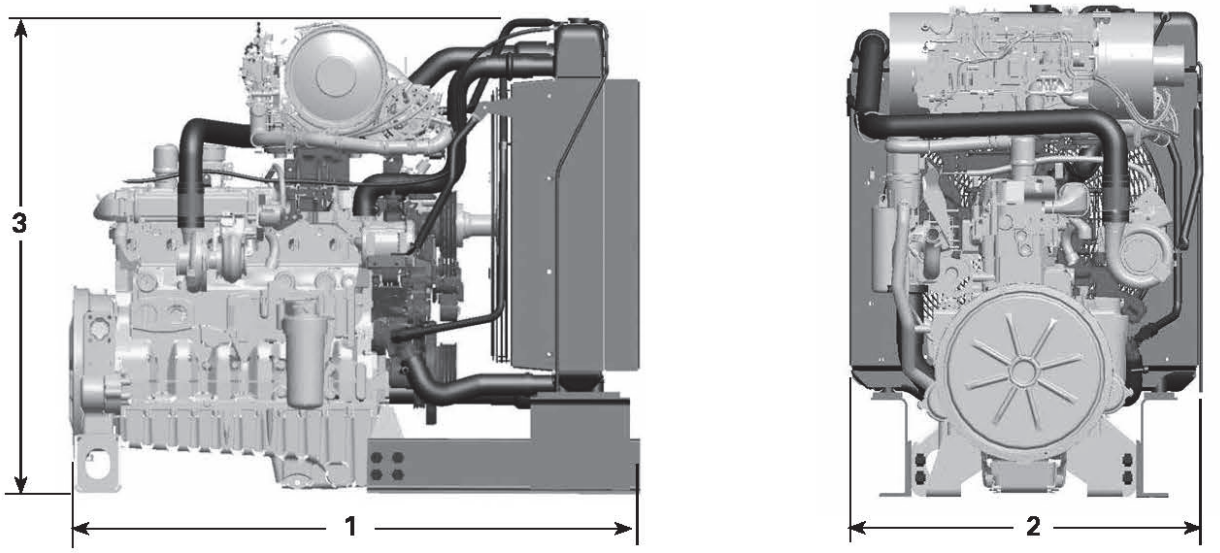
Fuel System
High pressure common rail, primary fuel filter, secondary fuel filters, fuel transfer pump, electronic fuel priming

Lube System
Open crankcase ventilation system, oil cooler, oil filler, oil filter, oil dipstick, oil pump (gear driven), choice of sumps (front, rear, and center)

Power Take Off
SAE A, SAE B, and SAE C drives available

General
Paint: Cat yellow, vibration damper, lifting eyes

DIMENSIONS



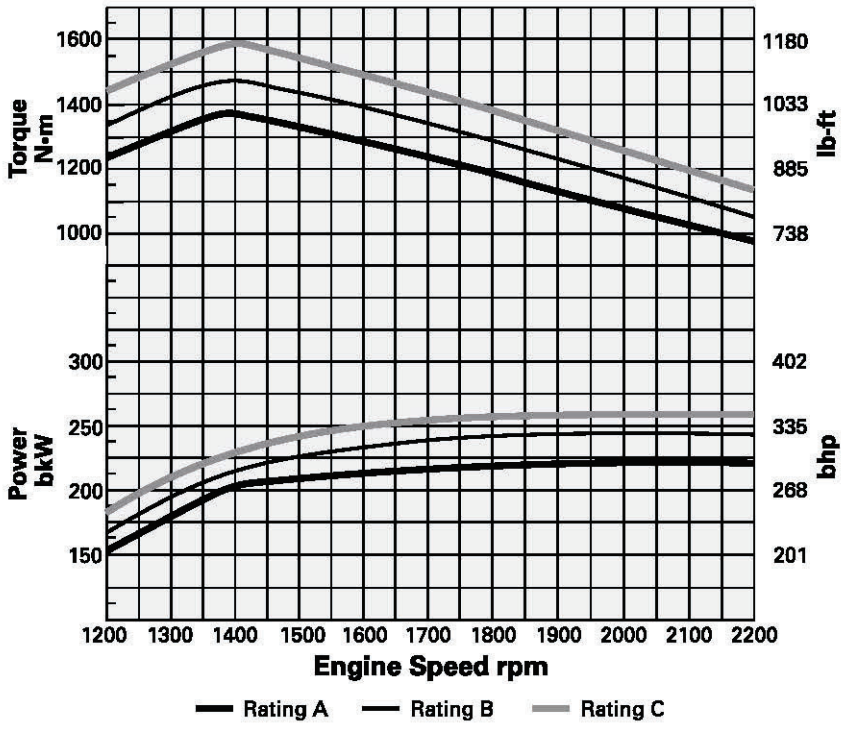
(1) Length — 1845 mm (72.6 in.) (2) Width — 1118 mm (44.0 in.) (3) Height — 1554 mm (61.2 in.)

Note: Final dimensions dependent on selected options

PERFORMANCE DATA — PRELIMINARY

Turbocharged Aftercooled — 1800-2200 rpm

Rated Speed



Speed Range

Rating	Speed rpm	Peak Power bkW	Peak Power bhp	Speed rpm	Peak Torque N•m	Peak Torque lb-ft
A	2200	224	300	1400	1369	1010
B	2200	242	325	1400	1483	1094
C	2200	261	350	1400	1597	1178

RATING DEFINITIONS AND CONDITIONS

IND-A (Continuous) for heavy duty service where the engine is operated at maximum power and speed up to 100% of the time without interruption or load cycling.

IND-B for service where power and/or speed are cyclic (time at full load not to exceed 80%).

IND-C (Intermittent) is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Additional ratings are available for specific customer requirements. Consult your Cat dealer.

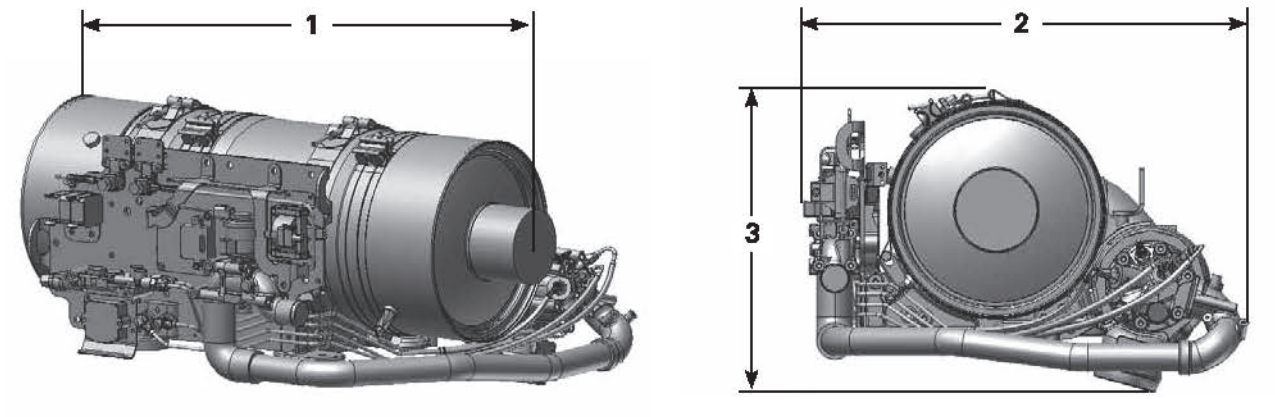
Engine Performance Diesel Engines — 7 liter and higher are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in. Hg) dry barometer and 25° C (77° F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42,780 kJ/kg (18,390 btu/lb) when used at 29° C (84.2° F) with a density of 838.9 g/L.

CATERPILLAR®

C9.3 ACERT™ Industrial Power Unit

Tier 4 Interim/Stage IIIB
224-261 bkW (300-350 bhp) @ 1800-2200 rpm

AFTERTREATMENT CONFIGURATION



Images shown may not reflect actual aftertreatment.

12" DIAMETER BASE CONFIGURATION SHOWN
Approximate Size and Weight
(1) Length — 1097 mm (43 in.)
(2) Width — 762 mm (30 in.)
(3) Height — 468 mm (18 in.)
Weight — 130 kg (287 lbs)

CEM Options
Base configuration includes DPF, DOC, and supporting structure

AFTERTREATMENT FEATURES

Regeneration: Cat Regeneration System maximizes fuel efficiency during regeneration

Flexibility: Flexible regen options maximize uptime

Service: Minimum 4500-hour diesel particulate filter ash service interval

Available in 12- or 24-volt systems

STANDARD EMISSIONS CONTROL EQUIPMENT

Cat Regeneration System

CEM: Clean Emissions Module

DOC: Diesel Oxidation Catalyst

DPF: Diesel Particulate Filter

NRS: NOx Reduction System

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CATERPILLAR®

3056
MARINE PROPULSION

153 bkW
(205 bhp)

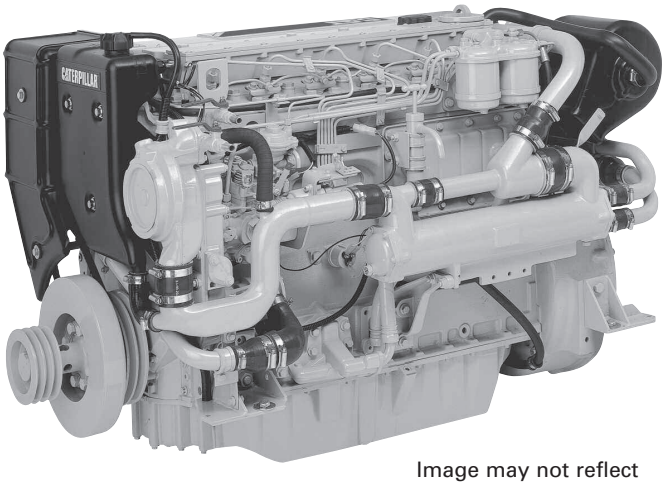


Image may not reflect actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions	IMO Compliant
Bore	100 mm (3.94 in.)
Stroke	127 mm (5.0 in.)
Displacement	6 L (365 cu. in.)
Aspiration	DITA
Rotation (from flywheel end)	Counterclockwise
Compression Ratio	16.0:1
Capacity for Liquids	
Cooling System	25.3 L (6.5 gal)
Lube Oil System (refill)	15 L (3.9 gal)
Oil Change Interval	400 hr
API CF-4, 15W40, 10W30	
Engine Weight (approx)	609 kg (1,342 lb)

STANDARD ENGINE EQUIPMENT

Air Inlet System
Air cleaner with closed system fumes disposal, sea water aftercooler, dry insulated turbocharger, thermostart air inlet heater

Charging System
Charging alternator (12-volt, 70 ampere or 24-volt, 40 ampere)

Control System
Mechanical governor

Cooling System
Gear-driven centrifugal jacket water pump and self-priming sea water pump, heat exchanger with cupro-nickel tube bundle or keel cooling connections, de-aeration expansion tank, integral plate-type engine oil cooler, sea water strainer, thermostat and housing

Exhaust System
Dry insulated turbocharger, watercooled exhaust manifold

Flywheel and Flywheel Housing
SAE No. 3 (126 teeth)

Fuel System
Twin fuel filter

Lube System
Crankcase breather (closed system), twin oil filter, engine-mounted oil sump drain pump, RH service oil level gauge

Mounting System
Adjustable mounts

Protection System
Shutoff solenoid (ETS), alarm switches (high jacket water temperature, low oil pressure)

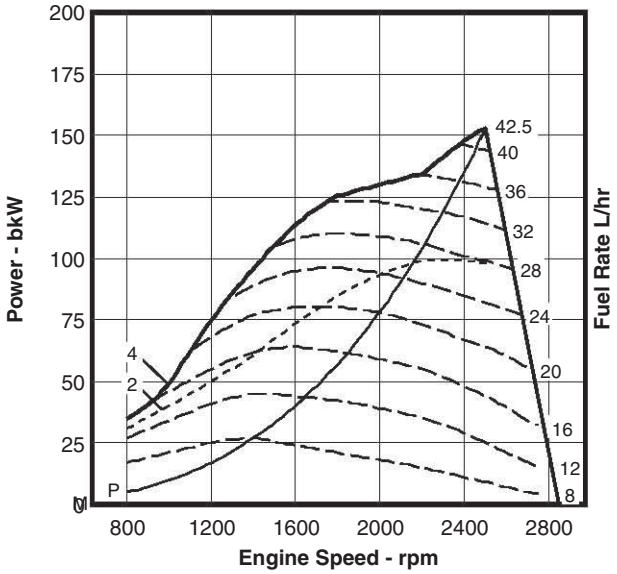
Starting System
Electric starting motor (12-volt and 24-volt)

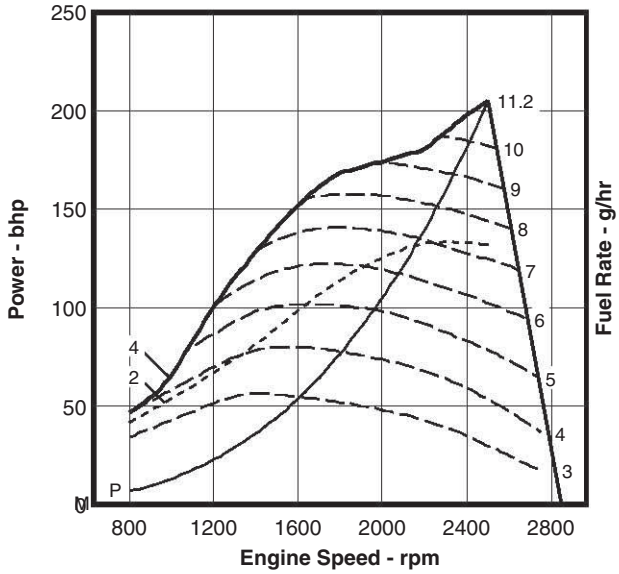
General
Vibration damper, Caterpillar yellow paint, lifting eyes

PERFORMANCE CURVES

C Rating — DM6309-00

IMO Compliant





153 kW | **SI Metric**

Performance Data

	Engine Speed rpm	Engine Power kW	BSFC g/ kW-h	Fuel Rate L/h	Boost Press kPa Gauge	Intake Air Flow m^3/min	Exh Manif Temp °C	Exh Gas Flow m^3/min
Zone	2500	98.4	238	27.9	92.9	10.9	416	22.3
Limit	2400	99.2	232	27.4	90.2	10.4	412	21.6
Curve: 2	2200	99.0	222	26.1	85.1	9.5	410	19.4
	2000	93.5	214	23.9	77.7	8.4	408	16.2
	1800	84.9	209	21.2	68.4	7.2	409	12.8
	1600	73.6	208	18.2	55.6	5.9	409	10.6
	1400	60.8	215	15.6	41.1	4.7	408	10.2
	1200	50.0	243	14.5	28.5	3.6	406	11.5
	1000	40.1	294	14.1	16.8	2.5	404	13.9
	800	31.0	367	13.6	6.0	1.5	400	16.4
Zone	2500	153.0	233	42.5	125.6	12.6	563	31.3
Limit	2400	147.8	230	40.5	122.2	12.0	543	29.2
Curve: 4	2200	134.5	224	35.9	112.4	10.8	505	25.0
	2000	130.0	220	34.1	110.6	9.5	515	22.7
	1800	125.6	218	32.6	109.0	8.1	540	20.3
	1600	113.6	219	29.7	96.6	6.9	547	17.5
	1400	95.9	226	25.8	74.0	5.9	542	15.0
	1200	75.0	250	22.3	49.2	4.6	522	11.5
	1000	49.0	295	17.2	22.6	2.6	465	9.9
	800	34.8	365	15.2	7.8	1.5	438	13.4
Prop	2500	153.0	233	42.5	125.6	12.6	563	31.3
Demand	2400	135.4	229	36.9	113.8	11.6	506	27.0
Curve: P	2200	104.3	222	27.6	88.8	9.7	422	20.1
	2000	78.3	219	20.4	66.4	7.8	369	13.0
	1800	57.1	221	15.0	46.9	6.2	327	6.8
	1600	40.1	229	10.9	31.6	5.0	287	7.1
	1400	26.9	246	7.9	21.3	4.0	248	6.8
	1200	16.9	308	6.2	14.6	3.0	208	4.8
	1000	9.8	471	5.5	9.9	2.2	169	3.0
	800	5.0	761	4.5	6.3	1.6	132	2.4

Brake Mean Effective Pressure.....1227 kPa

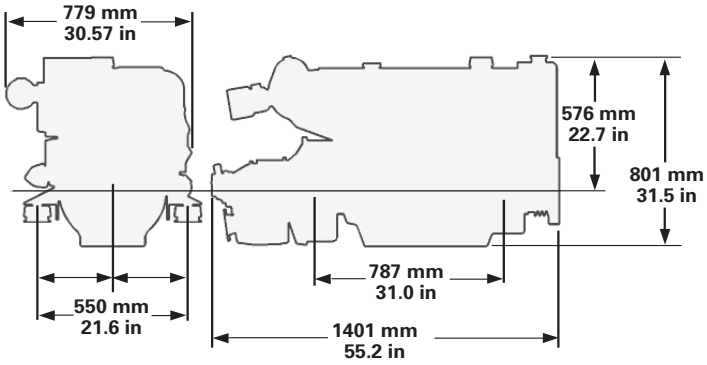
205 hp | **English**

Performance Data

	Engine Speed rpm	Engine Power hp	BSFC lb/ hp-h	Fuel Rate gph	Boost Press in.Hg. Gauge	Intake Air Flow cfm	Exh Manif Temp °F	Exh Gas Flow cfm
Zone	2500	132	.392	7.4	27.5	385	781	788
Limit	2400	133	.381	7.2	26.7	367	774	762
Curve: 2	2200	133	.364	6.9	25.2	335	769	685
	2000	125	.352	6.3	23.0	296	766	572
	1800	114	.344	5.6	20.2	254	768	452
	1600	99	.342	4.8	16.5	208	769	374
	1400	82	.353	4.1	12.2	166	767	360
	1200	67	.399	3.8	8.4	127	763	406
	1000	54	.483	3.7	5.0	88	758	491
	800	42	.604	3.6	1.8	53	752	579
Zone	2500	205	.383	11.2	37.2	445	1046	1105
Limit	2400	198	.377	10.7	36.2	423	1010	1031
Curve: 4	2200	180	.368	9.5	33.3	381	941	883
	2000	174	.362	9.0	32.8	335	960	802
	1800	168	.358	8.6	32.3	286	1003	717
	1600	152	.360	7.8	28.6	244	1016	618
	1400	129	.372	6.8	21.9	208	1008	530
	1200	101	.410	5.9	14.6	162	972	406
	1000	66	.486	4.5	6.7	92	869	350
	800	47	.601	4.0	2.3	53	820	473
Prop	2500	205	.383	11.2	37.2	445	1046	1105
Demand	2400	182	.376	9.7	33.7	410	943	953
Curve: P	2200	140	.364	7.3	26.3	343	792	710
	2000	105	.360	5.4	19.7	275	696	459
	1800	77	.363	4.0	13.9	219	620	240
	1600	54	.376	2.9	9.4	177	548	251
	1400	36	.404	2.1	6.3	141	479	240
	1200	23	.506	1.6	4.3	106	406	170
	1000	13	.774	1.5	2.9	78	335	106
	800	7	1.250	1.2	1.9	57	269	85

Brake Mean Effective Pressure.....178 psi

DIMENSIONS



with ZF Hurth HSW 630 A Gearbox

RATING DEFINITIONS AND CONDITIONS

C RATING – Vessels such as ferries, harbor tugs, fishing boats moving at higher speeds out and back (e.g. lobster, crayfish, and tuna), offshore service boats, and also displacement hull yachts and short trip coastal freighters where engine load and speed are cyclical.

RATINGS are based on SAE J1228/ISO8665 standard conditions of 100 kPa (29.61 in. Hg), 25° C (77° F), and 30% relative humidity. These ratings also apply at ISO3046/1, DIN6271/3, and BS5514 conditions of 100 kPa (29.61 in. Hg), 27° C (81° F), and 60% relative humidity. Ratings are valid for air cleaner inlet temperatures up to and including 50° C (122° F) and for sea water temperatures up to and including 38° C (100° F) at sea level.

FUEL RATES are based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal). Fuel consumption shown with all oil, fuel, and water pumps, engine driven. For a “without pumps” condition, deduct approximately 0.5% for each pump not engine driven.

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.

The New York Blower Company
Fan-to-Size
Fan Selection Detail

Fan Design

Product:	Series 20 General Industrial
Type:	Radial
Size:	36
Fan Class:	N/A
Wheel Type:	Radial (shrouded high efficiency w/canted blade: AH/DH) - DH
Wheel Material:	Carbon Steel
Wheel Weight:	184.0 lb
Wheel WR²:	178 lb-ft2
Percent Width:	100%
Percent Diameter:	100.0%
Outlet Area:	2.41 sq. ft.
Options:	External Outlet Damper

Axial thrust load is 172.2 lbf.

***This configuration is compliant with CEC regulations (suitable for use in California). FEI: 1.12.**

Calculation Mode: Find Speed

Arrangement:	9
Drive Type:	Belt
Outlet Velocity:	4332 ft/min
Static Efficiency:	66.44%
Total Efficiency:	71.2%
Operating Temp:	70° F
Maximum Temp:	150° F
Maximum Speed: (1)	1837 RPM
Velocity Pressure:	0.923 in wg
Fan Static Pressure:	13 in wg
Fan Total Pressure:	13.9 in wg
Altitude:	6500 ft

Conditions (Actual Volume; Fan Static Pressure)

	Flow	Pressure	Power	Speed	Density	Altitude	Inlet Temp.	Speed Limit (2)	FEI
	ACFM	in wg (FSP)	bhp	rpm	lb/ft3	ft	f	rpm	
Operating	10440	13	32.2	1579	0.0591	6500	70	1837	1.12
Coldstart	10440	13	32.2	1579	0.0591	6500	70	1837	1.12
Standard	10440	16.5	40.8	1579	0.0750	0	70	1837	1.12

(1) Speed Limit at Maximum Temperature (2) Speed Limit at indicated Inlet Temperature

Speed Limit Derates By Temperature

Temperature	Derate	Wheel Limit	Fan Limit
70	1.0000	1837	1837
200	1.0000	1837	1837
300	1.0000	1837	1837
400	1.0000	1837	1837
500	0.9700	1782	1782
600	0.9400	1727	1727
700	0.9100	1672	1672
800	0.8200	1506	1506

My Sales Representative

MK Systems, Inc.
1455 Brummel Avenue Elk Grove Village, IL 60007, USA
(P) 847.709.6180, (F) 847.290.0159
sherri@mksystems.biz

The New York Blower Company certifies that the Series 20 General Industrial fan is licensed to bear the AMCA Air Performance Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings program. AMCA Licensed for Air Performance without Appurtenances (Accessories). Power HP (bhp) excludes drives. The data presented is not certified, and was modified from AMCA licensed performance data. It was modified to account for ** External Outlet Damper **, which were not included in the licensed ratings. This modified performance is not AMCA licensed but is provided to aid in selection and application of the product. Performance certified is for installation type: D - ducted inlet, ducted outlet.

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Sound Power Level Ratings

Sound power and sound pressure levels are shown in decibels. (Power levels reference 10-12 watts and pressure levels reference 2x10-7 microbar.) Sound power ratings are calculated per AMCA Standard 301. Ratings do not include the effects of duct end correction. Sound levels do not include motors or drives. Pressure levels are estimated. A-weighing is per ANSI S.1.42-2001 (R2011).

Fan Sound

Center Freq (Hz)	63	125	250	500	1000	2000	4000	8000	Overall
Octave	1	2	3	4	5	6	7	8	
Inlet Total Power, dB	121	120	113	104	96	92	86	82	**124**
A-Weighting	-26.2	-16.1	-8.6	-3.2	0	1.2	1	-1.1	
Convert To Pressure	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	
Inlet Total Pressure, dBA	80	89	90	86	81	78	72	66	**94**
Outlet Total Power, dB	121	120	113	104	96	92	86	82	**124**
A-Weighting	-26.2	-16.1	-8.6	-3.2	0	1.2	1	-1.1	
Convert To Pressure	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	
Outlet Total Pressure, dBA	80	89	90	86	81	78	72	66	**94**
Fan Total Power, dB	124	123	116	107	99	95	89	85	**127**
Housing Radiated Noise	-5	-8	-12	-14	-12	-12	-13	-14	
A-Weighting	-26.2	-16.1	-8.6	-3.2	0	1.2	1	-1.1	
Convert To Pressure	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	-14.5	
Fan Total Pressure, dBA	78	84	81	75	72	69	62	55	**87**

Directivity/Reflection is a spherical radiation (Q = 1); Distance is 5 ft.
At 5 ft, the estimated sound pressure level:

1. outside the fan due to an open inlet OR outlet is 94 dBA.
2. housing radiated noise when inlet and outlet are ducted away from listening point is 87 dBA.

The sound power and pressure levels displayed here are estimated values based on tests and ratings conducted in accordance with AMCA standards 300 and 301. AMCA does not certify any of these ratings.

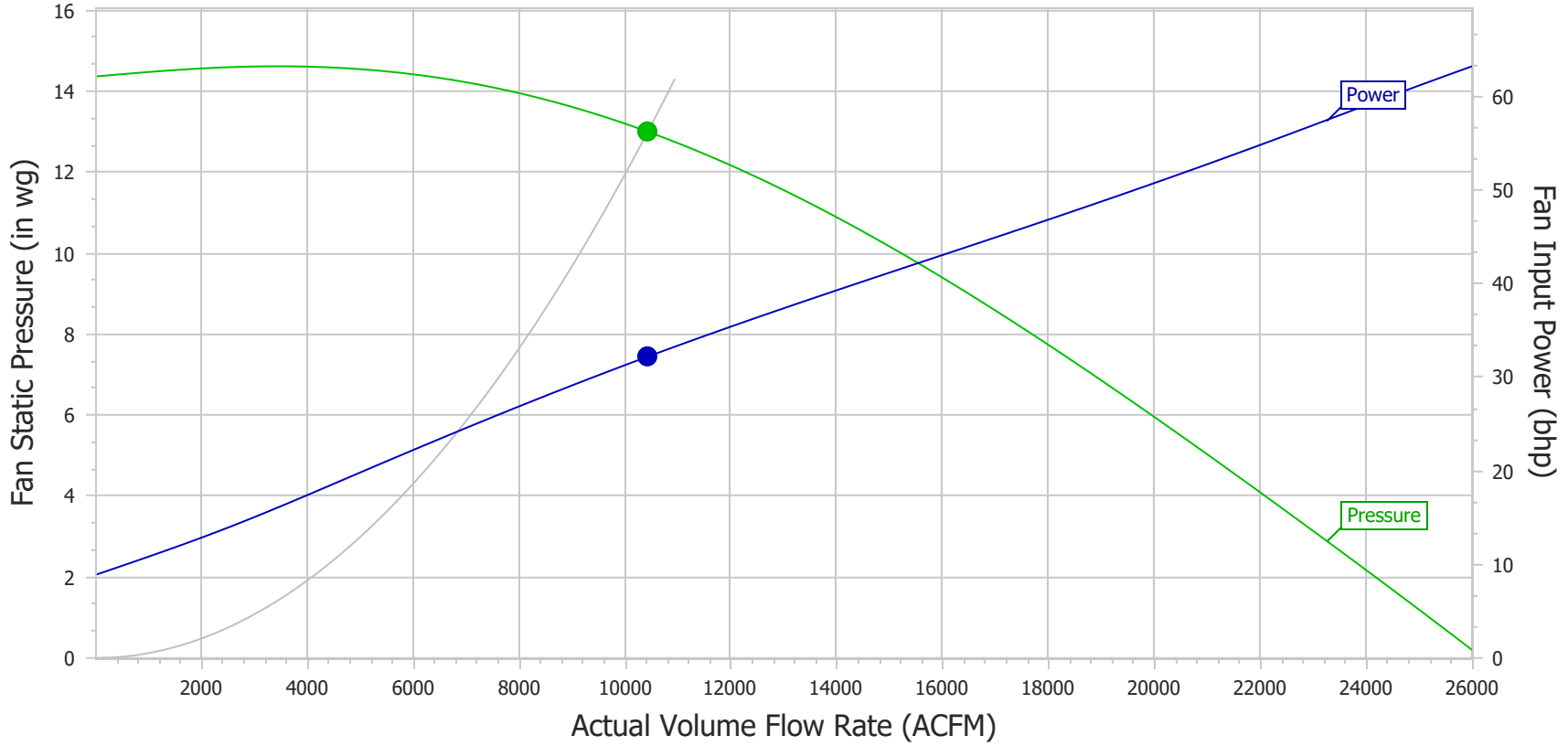
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The New York Blower Company
Fan-to-Size
Fan Selection Detail

Product: Series 20 General Industrial
Material: Carbon Steel
Fan Size: 36
Arrangement: 9
Wheel Type: Radial (shrouded high efficiency w/canted blade: AH/DH) - DH
Options: External Outlet Damper

Actual Volume Flow Rate: 10440 ACFM
Fan Static Pressure: 13 in wg
Speed: 1579 rpm
Power: 32.2 bhp

Inlet Temperature: 70 °f
Altitude: 6500 ft
Density: 0.0591 lb/ft3
Outlet Velocity: 4332 ft/min



*This configuration is compliant with CEC regulations (suitable for use in California). FEI: 1.12.

AMCA Licensed for Air Performance without Appurtenances (Accessories). Power HP (bhp) excludes drives. The data presented is not certified, and was modified from AMCA licensed performance data. It was modified to account for ** External Outlet Damper **, which were not included in the licensed ratings. This modified performance is not AMCA licensed but is provided to aid in selection and application of the product. Performance certified is for installation type: D - ducted inlet, ducted outlet.

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Material Safety Data Sheets

FREEPORT-MCMORAN COPPER & GOLD

Freeport McMoRan Copper & Gold

CYTEC INDUSTRIES

ACORGA OR25 SOLVENT EXTRACTION REAGENT

File Name: **057175** Revision Date: **9/7/2010**

Internal ID: Language: **English**

Internal ID: **C-1001 A** Format: **No Format Specified**

Additional Details

MSDS Contents

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
2. HAZARDS IDENTIFICATION
3. COMPOSITION/INFORMATION ON INGREDIENTS
4. FIRST AID MEASURES
5. FIREFIGHTING MEASURES
6. ACCIDENTAL RELEASE MEASURES
7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
9. PHYSICAL AND CHEMICAL PROPERTIES
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11. TOXICOLOGICAL INFORMATION
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13. DISPOSAL CONSIDERATIONS
14. TRANSPORT INFORMATION
15. REGULATORY INFORMATION
16. OTHER INFORMATION

NFPA	HMIS	HMIS III
	Health	Health
	Flammability	Flammability
	Reactivity	Physical Hazard
	PPE	PPE

Approval Status: APPROVED PRODUCT

More...

CYTEC

MSDS: 0045191

PRINT DATE: 09/07/2010

REVISION DATE: 09/07/2010

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ACORGA(R*) OR25 SOLVENT EXTRACTION REAGENT

SYNONYMS: NONE

CHEMICAL FAMILY: SALICYLALDOXIME DERIVATIVE

MOLECULAR FORMULA: MIXTURE

MOLECULAR WEIGHT: MIXTURE

CYTEC INDUSTRIES INC.
FIVE GARRET MOUNTAIN PLAZA
WOODLAND PARK
NEW JERSEY 07424
USA

FOR PRODUCT INFORMATION CALL: 1-800/652-6013.

OUTSIDE THE USA AND CANADA CALL: 1-973/357-3193.

EMERGENCY PHONE (24 HOURS/DAY) - FOR EMERGENCY INVOLVING SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL:

ASIA PACIFIC REGION:
AUSTRALIA: +61-3-9663-2130 OR 1800-033-111
CHINA (PRC): +86(0)532-8388-9090 (NRCC)
NEW GUINEA: +61-3-9663-2130
NEW ZEALAND: +61-3-9663-2130 OR 0800-734-607
ALL OTHERS: +65-633-44-177 (CARECHEM24 SINGAPORE)

CANADA: 1-905-356-8310 (CYTEC WELLAND, CANADA PLANT)

EUROPE/AFRICA/MIDDLE EAST: +44-(0)208-762-8322 (CARECHEM24 UK)

LATIN AMERICA:
BRAZIL: 0800 0111 767 (SOS COTEC)
CHILE: +56-2-247-3600 (CITUC QUIMICO)
ALL OTHERS: +52-376-73 74122 (CYTEC ATEQUIZA, MEXICO PLANT)

USA: +1-703-527-3887 OR 1-800-424-9300 (CHEMTREC)

(R*) INDICATES TRADEMARK REGISTERED IN THE U.S. OUTSIDE THE U.S., MARK MAY BE REGISTERED, PENDING OR A TRADEMARK. MARK IS OR MAY BE USED UNDER LICENSE.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

APPEARANCE AND ODOR:

COLOR: CLEAR AMBER

APPEARANCE: LIQUID

ODOR: NONE

STATEMENTS OF HAZARD:

WARNING!

CAUSES EYE AND SKIN IRRITATION

POTENTIAL HEALTH EFFECTS:

EFFECTS OF EXPOSURE:
THE ACUTE ORAL (RAT) LD50 AND DERMAL (RABBIT) LD50 VALUES ARE ESTIMATED TO BE >1,900 MG/KG AND >2,000 MG/KG, RESPECTIVELY. DIRECT CONTACT WITH THIS MATERIAL MAY CAUSE MODERATE EYE AND SKIN IRRITATION. OVEREXPOSURE TO VAPORS MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT AND EYES AND MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS. REFER TO SECTION 11 FOR TOXICOLOGY INFORMATION ON THE REGULATED COMPONENTS OF THIS PRODUCT.

3. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS:

COMPONENT / CAS NO.	% (W/W)	CARCINOGEN
SALICYLALDOXIME DERIVATIVE	40 - 60	
PETROLEUM DISTILLATE HYDROTREATED LIGHT 64742-47-8	1 - 5	

4. FIRST AID MEASURES

INGESTION:
IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. ONLY INDUCE VOMITING AT THE INSTRUCTION OF A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SKIN CONTACT:
REMOVE CONTAMINATED CLOTHING AND SHOES WITHOUT DELAY. WASH IMMEDIATELY WITH PLENTY OF WATER. DO NOT REUSE CONTAMINATED CLOTHING WITHOUT LAUNDERING. GET MEDICAL ATTENTION IF PAIN OR IRRITATION PERSISTS AFTER WASHING OR IF SIGNS AND SYMPTOMS OF OVEREXPOSURE APPEAR.

EYE CONTACT:
RINSE IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ADVICE IF THERE ARE PERSISTENT SYMPTOMS.

INHALATION:
REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. OBTAIN MEDICAL ADVICE IF THERE ARE PERSISTENT SYMPTOMS.

5. FIREFIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:
USE WATER SPRAY OR FOG, CARBON DIOXIDE OR DRY CHEMICAL.

PROTECTIVE EQUIPMENT:
FIREFIGHTERS, AND OTHERS EXPOSED, WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR FULL FIREFIGHTING PROTECTIVE CLOTHING. SEE MSDS SECTION 8 (EXPOSURE CONTROLS/PERSONAL PROTECTION).

SPECIAL HAZARDS:
KEEP CONTAINERS COOL BY SPRAYING WITH WATER IF EXPOSED TO FIRE.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
WHERE EXPOSURE LEVEL IS NOT KNOWN, WEAR APPROVED, POSITIVE PRESSURE, SELF-CONTAINED RESPIRATOR. WHERE EXPOSURE LEVEL IS KNOWN, WEAR APPROVED RESPIRATOR SUITABLE FOR LEVEL OF EXPOSURE. IN ADDITION TO THE PROTECTIVE CLOTHING/EQUIPMENT IN SECTION 8 (EXPOSURE CONTROLS/PERSONAL PROTECTION), WEAR IMPERMEABLE BOOTS.

METHODS FOR CLEANING UP:
COVER SPILLS WITH SOME INERT ABSORBENT MATERIAL; SWEEP UP AND PLACE IN A WASTE DISPOSAL CONTAINER. FLUSH SPILL AREA WITH WATER.

ENVIRONMENTAL PRECAUTIONS:
USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

7. HANDLING AND STORAGE

HANDLING:

PRECAUTIONARY MEASURES:
AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

SPECIAL HANDLING STATEMENTS: NONE

STORAGE: NONE

STORAGE TEMPERATURE: STORE AT 0 - 38 DEG. C 32 - 100.4 DEG. F

REASON: QUALITY.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES:
WHERE THIS MATERIAL IS NOT USED IN A CLOSED SYSTEM, GOOD ENCLOSURE AND LOCAL EXHAUST VENTILATION SHOULD BE PROVIDED TO CONTROL EXPOSURE.

RESPIRATORY PROTECTION:
WHERE EXPOSURES ARE BELOW THE ESTABLISHED EXPOSURE LIMIT, NO RESPIRATORY PROTECTION IS REQUIRED. WHERE EXPOSURES EXCEED THE ESTABLISHED EXPOSURE LIMIT, USE RESPIRATORY PROTECTION RECOMMENDED FOR THE MATERIAL AND LEVEL OF EXPOSURE.

EYE PROTECTION:
WEAR EYE/FACE PROTECTION SUCH AS CHEMICAL SPLASH PROOF GOGGLES OR FACE SHIELD.

SKIN PROTECTION:
AVOID SKIN CONTACT. WEAR IMPERMEABLE GLOVES AND SUITABLE PROTECTIVE CLOTHING.

ADDITIONAL ADVICE:
FOOD, BEVERAGES, AND TOBACCO PRODUCTS SHOULD NOT BE CARRIED, STORED, OR CONSUMED WHERE THIS MATERIAL IS IN USE. BEFORE EATING, DRINKING, OR SMOKING, WASH FACE AND HANDS THOROUGHLY WITH SOAP AND WATER.

EXPOSURE LIMIT(S):

64742-47-8 PETROLEUM DISTILLATE HYDROTREATED LIGHT:

OSHA (PEL): 165 PPM (1200 MG/M3) (SUPPLIER)

ACGIH (TLV): NOT ESTABLISHED

OTHER VALUE:
1200 MG/M3 (SUPPLIER)
165 PPM (SUPPLIER)

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: CLEAR AMBER

APPEARANCE: LIQUID

ODOR: NONE

BOILING POINT: NOT AVAILABLE

MELTING POINT: NOT AVAILABLE

VAPOR PRESSURE: NOT AVAILABLE

SPECIFIC GRAVITY/DENSITY: 0.97 - 0.99 @ 20 DEG. C

VAPOR DENSITY: NOT AVAILABLE

PERCENT VOLATILE (% BY WT.): NOT AVAILABLE

pH: NOT APPLICABLE

SATURATION IN AIR (% BY VOL.): NOT AVAILABLE

EVAPORATION RATE: NOT AVAILABLE

SOLUBILITY IN WATER: INSOLUBLE

VOLATILE ORGANIC CONTENT: NOT AVAILABLE

FLASH POINT: >130 DEG. C 266 DEG. F - PENSKY-MARTENS CLOSED CUP

FLAMMABLE LIMITS (% BY VOL): NOT AVAILABLE

AUTOIGNITION TEMPERATURE: NOT AVAILABLE

DECOMPOSITION TEMPERATURE: NOT AVAILABLE

PARTITION COEFFICIENT (n-OCTANOL/WATER): NOT AVAILABLE

ODOR THRESHOLD: NOT AVAILABLE

10. STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN

POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE KNOWN

MATERIALS TO AVOID:
STRONG OXIDIZING AGENTS.
OXYGEN

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND NITROGEN, AMMONIA

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION FOR THE PRODUCT IS FOUND UNDER SECTION 2. HAZARDS IDENTIFICATION.

TOXICOLOGICAL INFORMATION ON THE REGULATED COMPONENTS OF THIS PRODUCT IS AS FOLLOWS:
PETROLEUM DISTILLATES, HYDROTREATED LIGHT (CAS# 64742-47-8) HAS ACUTE ORAL (RAT) AND DERMAL (RABBIT) LD50 VALUES OF >5 G/KG AND >3.16 G/KG, RESPECTIVELY. PROLONGED OR REPEATED SKIN CONTACT TENDS TO REMOVE SKIN OILS, POSSIBLY LEADING TO IRRITATION AND DERMATITIS. DIRECT CONTACT MAY CAUSE EYE IRRITATION. OVEREXPOSURE TO HIGH VAPOR CONCENTRATIONS, >APPROX. 700 PPM, ARE IRRITATING TO THE EYES AND RESPIRATORY TRACT AND MAY CAUSE HEADACHES, DIZZINESS, DROWSINESS, AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DEATH. ASPIRATION OF MINUTE AMOUNTS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULMONARY INJURY AND POSSIBLY DEATH. IN A 90-DAY ORAL GAVAGE (RATS) STUDY AT 100, 500, OR 1000 MG/KG, NO TREATMENT-RELATED MORTALITIES WERE OBSERVED. THERE WERE NO SIGNIFICANT CHANGES IN BODY WEIGHTS OR FOOD CONSUMPTION IN ANY DOSE GROUPS. INCREASED LIVER WEIGHTS WERE OBSERVED IN MALE AND FEMALE RATS AT 500 AND 1000 MG/KG. INCREASED KIDNEY WEIGHTS WERE OBSERVED ONLY IN MALE RATS AT 500 AND 1000 MG/KG. TESTES WEIGHTS WERE SIGNIFICANTLY ELEVATED IN MALE RATS AT 1000 MG/KG. KIDNEY EFFECTS, INDICATIVE OF LIGHT HYDROCARBON NEPHROPATHY, OCCURED IN MALE RAT KIDNEYS AT ALL DOSE LEVELS. HISTOLOGICAL FINDINGS OF HEPATOCELLULAR HYPERTROPHY WERE SEEN IN THE LIVERS OF MALE RATS AT 1000 MG/KG AND IN FEMALE RATS AT 500 AND 1000 MG/KG. ALL TREATMENT-RELATED EFFECTS WERE REVERSIBLE WITHIN THE 4-WEEK RECOVERY PERIOD. OBSERVED KIDNEY EFFECTS (INCLUDING LIGHT HYDROCARBON NEPHROPATHY AND INCREASED KIDNEY WEIGHT) ARE A UNIQUE RESPONSE BY MALE RATS TO CHRONIC HYDROCARBON EXPOSURE, WHICH THE U.S. EPA HAS DECLARED 'NOT RELEVANT TO HUMANS'. HIGH-DOSE LIVER EFFECTS (INCLUDING HEPATOCELLULAR HYPERTROPHY, OR ENLARGED LIVER CELLS) ARE A DIRECT CONSEQUENCE OF THE SUSTAINED HIGH-FAT 'HYDROCARBON DIET'. THE NO OBSERVED ADVERSE EFFECT LEVEL (NOAEL) FOR THIS STUDY WAS 1000 MG/KG.

SALICYLALDOXIME DERIVATIVE HAS AN ORAL LD50 (RAT) OF 1.25 TO 5 ML/KG, A DERMAL LD50 (RAT) OF >2.5 ML/KG, AND AN INHALATION LC50 (RAT) OF >1.6 MG/L/1 HR./70 DEG. C. RAT SKIN TESTING INDICATES IT IS A MODERATE DERMAL IRRITANT, AND RABBIT EYE TESTING INDICATED A SLIGHT POTENTIAL FOR IRRITATION. GUINEA PIG DERMAL SENSITIZATION TESTS WERE NEGATIVE. IT IS EXPECTED TO BE IRRITATING TO EYES, SKIN, AND ALL MUCOUS MEMBRANES. INGESTION IS EXPECTED TO CAUSE MODERATE TO SEVERE GASTROINTESTINAL IRRITATION. SYMPTOMS OF INHALATION EXPOSURE MAY INCLUDE COUGHING, CHOKING, PAIN AND MODERATE TO SEVERE IRRITATION OF MUCOUS MEMBRANES. DEPENDING ON QUANTITY AND DURATION OF EXPOSURE, CONTACT WILL LIKELY CAUSE MODERATE SKIN AND EYE IRRITATION. OVEREXPOSURE CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION, WITH SYMPTOMS RANGING FROM HEADACHE AND CONFUSION TO COMA AND RESPIRATORY FAILURE. THIS MATERIAL IS LIKELY TO BE AN ENDOCRINE DISRUPTER.

CALIFORNIA PROPOSITION 65 WARNING (APPLICABLE IN CALIFORNIA ONLY):
THIS PRODUCT CONTAINS (A) CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

12. ECOLOGICAL INFORMATION

VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

THE ECOLOGICAL ASSESSMENT FOR THIS MATERIAL IS BASED ON AN EVALUATION OF ITS COMPONENTS.

13. DISPOSAL CONSIDERATIONS

THE INFORMATION ON RCRA WASTE CLASSIFICATION AND DISPOSAL METHODOLOGY PROVIDED BELOW APPLIES ONLY TO THE PRODUCT, AS SUPPLIED. IF THE MATERIAL HAS BEEN ALTERED OR CONTAMINATED, OR IT HAS EXCEEDED ITS RECOMMENDED SHELF LIFE, THE GUIDANCE MAY BE INAPPLICABLE. HAZARDOUS WASTE CLASSIFICATION UNDER FEDERAL REGULATIONS (40 CFR PART 261 ET SEQ) IS DEPENDENT UPON WHETHER A MATERIAL IS A RCRA 'LISTED HAZARDOUS WASTE' OR HAS ANY OF THE FOUR RCRA 'HAZARDOUS WASTE CHARACTERISTICS.' REFER TO 40 CFR PART 261.33 TO DETERMINE IF A GIVEN MATERIAL TO BE DISPOSED OF IS A RCRA 'LISTED HAZARDOUS WASTE'; INFORMATION CONTAINED IN SECTION 15 OF THIS MSDS IS NOT INTENDED TO INDICATE IF THE PRODUCT IS A 'LISTED HAZARDOUS WASTE.'

RCRA HAZARDOUS WASTE CHARACTERISTICS:

THERE ARE FOUR CHARACTERISTICS DEFINED IN 40 CFR SECTION 261.21-61.24: IGNITABILITY, CORROSIVITY, REACTIVITY, AND TOXICITY. TO DETERMINE IGNITABILITY, SEE SECTION 9 OF THIS MSDS (FLASH POINT). FOR CORROSIVITY, SEE SECTIONS 9 AND 14 (pH AND DOT CORROSIVITY). FOR REACTIVITY, SEE SECTION 10 (INCOMPATIBLE MATERIALS). FOR TOXICITY, SEE SECTION 3 (COMPOSITION). FEDERAL REGULATIONS ARE SUBJECT TO CHANGE. STATE AND LOCAL REQUIREMENTS, WHICH MAY DIFFER FROM OR BE MORE STRINGENT THAN THE FEDERAL REGULATIONS, MAY ALSO APPLY TO THE CLASSIFICATION OF THE MATERIAL IF IT IS TO BE DISPOSED. THE COMPANY ENCOURAGES THE RECYCLE, RECOVERY AND REUSE OF MATERIALS, WHERE PERMITTED, AS AN ALTERNATE TO DISPOSAL AS A WASTE. THE COMPANY RECOMMENDS THAT ORGANIC MATERIALS CLASSIFIED AS RCRA HAZARDOUS WASTES BE DISPOSED OF BY THERMAL TREATMENT OR INCINERATION AT EPA APPROVED FACILITIES. THE COMPANY HAS PROVIDED THE FOREGOING FOR INFORMATION ONLY; THE PERSON GENERATING THE WASTE IS RESPONSIBLE FOR DETERMINING THE WASTE CLASSIFICATION AND DISPOSAL METHOD.

14. TRANSPORT INFORMATION

THIS SECTION PROVIDES BASIC SHIPPING CLASSIFICATION INFORMATION. REFER TO APPROPRIATE TRANSPORTATION REGULATIONS FOR SPECIFIC REQUIREMENTS.

US DOT:

DANGEROUS GOODS?: X

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

HAZARD CLASS: 9

PACKING GROUP: III

UN/ID NUMBER: UN3082

TRANSPORT LABEL REQUIRED:
MISCELLANEOUS
MARINE POLLUTANT

MARINE POLLUTANT:

TECHNICAL NAME (N.O.S.): SALICYLALDOXIME DERIVATIVE

COMMENTS:

MARINE POLLUTANTS:
DOT REQUIREMENTS SPECIFIC TO MARINE POLLUTANTS DO NOT APPLY TO NON-BULK PACKAGINGS TRANSPORTED BY MOTOR VEHICLES, RAIL CARS OR AIRCRAFT.

TRANSPORT CANADA:

DANGEROUS GOODS?: X

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

HAZARD CLASS: 9

PACKING GROUP: III

UN NUMBER: UN3082

TRANSPORT LABEL REQUIRED:
MISCELLANEOUS
MARINE POLLUTANT

MARINE POLLUTANT:

TECHNICAL NAME (N.O.S.): SALICYLALDOXIME DERIVATIVE

ICAO / IATA:

DANGEROUS GOODS?: X

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

HAZARD CLASS: 9

PACKING GROUP: III

UN NUMBER: UN3082

TRANSPORT LABEL REQUIRED: MISCELLANEOUS

PACKING INSTRUCTIONS/MAXIMUM NET QUANTITY PER PACKAGE:
PASSENGER AIRCRAFT: 914; 450 L
CARGO AIRCRAFT: 914; 450 L

TECHNICAL NAME (N.O.S.): SALICYLALDOXIME DERIVATIVE

IMO:

DANGEROUS GOODS?: X

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

HAZARD CLASS: 9

UN NUMBER: UN3082

PACKING GROUP: III

TRANSPORT LABEL REQUIRED:
MISCELLANEOUS
MARINE POLLUTANT

MARINE POLLUTANT:

TECHNICAL NAME (N.O.S.): SALICYLALDOXIME DERIVATIVE

15. REGULATORY INFORMATION

INVENTORY INFORMATION:

UNITED STATES (USA):
ALL COMPONENTS OF THIS PRODUCT ARE INCLUDED ON THE TSCA CHEMICAL INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA CHEMICAL INVENTORY.

THIS PRODUCT CONTAINS A CHEMICAL SUBSTANCE THAT IS SUBJECT TO EXPORT NOTIFICATION UNDER SECTION 12 (B) OF THE TOXIC SUBSTANCES CONTROL ACT, 15 U. S. C. 2601 ET. SEQ. (THIS REQUIREMENT APPLIES TO EXPORTS FROM THE UNITED STATES ONLY.)

CANADA:
COMPONENTS OF THIS PRODUCT HAVE BEEN REPORTED TO ENVIRONMENT CANADA IN ACCORDANCE WITH SECTIONS 66 AND/OR 81 OF THE CANADIAN ENVIRONMENTAL PROTECTION ACT (1999), AND ARE INCLUDED ON THE DOMESTIC SUBSTANCES LIST.

AUSTRALIA:
ALL COMPONENTS OF THIS PRODUCT ARE INCLUDED IN THE AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) OR ARE NOT REQUIRED TO BE LISTED ON AICS.

CHINA:
ALL COMPONENTS OF THIS PRODUCT ARE INCLUDED ON THE CHINESE INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE CHINESE INVENTORY.

JAPAN:
ALL COMPONENTS OF THIS PRODUCT ARE INCLUDED ON THE JAPANESE (ENCS) INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE JAPANESE INVENTORY.

KOREA:
ALL COMPONENTS OF THIS PRODUCT ARE INCLUDED ON THE KOREAN (ECL) INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE KOREAN INVENTORY.

PHILIPPINES:
ALL COMPONENTS OF THIS PRODUCT ARE NOT INCLUDED ON THE PHILIPPINE (PICCS) INVENTORY.

OTHER ENVIRONMENTAL INFORMATION:
THE FOLLOWING COMPONENTS OF THIS PRODUCT MAY BE SUBJECT TO REPORTING REQUIREMENTS PURSUANT TO SECTION 313 OF CERCLA (40 CFR 372), SECTION 12(B) OF TSCA, OR MAY BE SUBJECT TO RELEASE REPORTING REQUIREMENTS (40 CFR 307, 40 CFR 311, ETC.) SEE SECTION 13 FOR INFORMATION ON WASTE CLASSIFICATION AND WASTE DISPOSAL OF THIS PRODUCT.

COMPONENT / CAS NO.	%	TPQ (LBS)	RQ(LBS)	S313	TSCA 12B
SALICYLALDOXIME DERIVATIVE	40 - 60	NONE	0	NO	YES

PRODUCT HAZARD CLASSIFICATION UNDER SECTION 311 OF SARA: ACUTE

16. OTHER INFORMATION

NFPA HAZARD RATING (NATIONAL FIRE PROTECTION ASSOCIATION):
HEALTH 2 - MATERIALS THAT, UNDER EMERGENCY CONDITIONS, CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY.
FIRE 1 - MATERIALS THAT MUST BE PREHEATED BEFORE IGNITION CAN OCCUR.
INSTABILITY 0 - MATERIALS THAT IN THEMSELVES ARE NORMALLY STABLE, EVEN UNDER

FIRE EXPOSURE CONDITIONS.

REASONS FOR ISSUE: NEW PRODUCT

RANDY DESKIN, PH.D., DABT +1-973-357-3100

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MSDS: 0015532
Print Date: 01/08/2008
Revision Date: 07/19/2004

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **ACORGA® M5910 Extraction Reagent**
Synonyms: None
Chemical Family: 5-Nonyl-salicylaldoxime solvent hydrotreated distillate
Molecular Formula: Mixture
Molecular Weight: Mixture

CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA, WEST PATERSON, NEW JERSEY 07424, USA
For Product Information call 1-800/652-6013. Outside the USA and Canada call 1-973/357-3193.
EMERGENCY PHONE: For emergency involving spill, leak, fire, exposure or accident call CHEMTREC: 1-800/424-9300. Outside the USA and Canada call 1-703/527-3887.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS

Component / CAS No.	% (w/w)	OSHA (PEL):	ACGIH (TLV)	Carcinogen
Salicylaldoxime derivative -	30 - 60	Not established	Not established	-
Petroleum distillate hydrotreated light 64742-47-8	2.5	500 ppm 1200 mg/m^3 (Supplier) 165 ppm (Supplier)	(skin)	-

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR:

Color: clear amber
Appearance: liquid
Odor: none

STATEMENTS OF HAZARD:

WARNING! CAUSES EYE AND SKIN IRRITATION

POTENTIAL HEALTH EFFECTS

EFFECTS OF EXPOSURE:
The acute oral (rat) and dermal (rabbit) LD50 values are estimated to be between 1,200 - 5,000 mg/kg and greater than 2,000 mg/kg, respectively.

Direct contact with this material may cause moderate eye and skin irritation. Overexposure to vapors may cause irritation of the respiratory tract and eyes and may cause central nervous system effects. Refer to Section 11 for toxicology information on the regulated components of this product.

4. FIRST AID MEASURES

Ingestion:
If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Skin Contact:
Wash immediately with plenty of water and soap.

Eye Contact:
Rinse immediately with plenty of water for at least 15 minutes. Obtain medical advice if there are persistent symptoms.

Inhalation:
Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Use water spray or fog, carbon dioxide or dry chemical.

Protective Equipment:
Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/Personal Protection).

Special Hazards:
Keep containers cool by spraying with water if exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

Methods For Cleaning Up:
Remove sources of ignition. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

Environmental Precautions:
Use appropriate containment to avoid environmental contamination.

7. HANDLING AND STORAGE

HANDLING

Precautionary Measures: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Special Handling Statements: None

STORAGE
Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations and/or guidelines. Standards are primarily based on the material`s flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed.
In the Americas, National Fire Protection Association (NFPA) 30: Flammable and Combustible Liquids Code, is a widely used standard. NFPA 30 establishes storage conditions for the following classes of materials: Class I Flammable Liquids, Flashpoint <37.8 °C. Class II Combustible Liquids, 37.8 °C < Flashpoint <60 °C. Class IIIa Combustible Liquids, 60 °C < Flashpoint < 93 °C. Class IIIb Combustible Liquids, Flashpoint > 93 °C.

Storage Temperature: Room temperature
Reason: Integrity.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:
Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

Respiratory Protection:
For operations where inhalation exposure can occur, use an approved respirator recommended by an industrial hygienist after an evaluation of the operation. Where inhalation exposure can not occur, no respiratory protection is required. A full facepiece respirator also provides eye and face protection.

Eye Protection:
Wear eye/face protection such as chemical splash proof goggles or face shield. Eyewash equipment and safety shower should be provided in areas of potential exposure.

Skin Protection:
Avoid skin contact. Wear impermeable gloves and suitable protective clothing.

Additional Advice:
Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	clear amber		
Appearance:	liquid		
Odor:	none		
Boiling Point:	Not available		
Melting Point:	Not available		
Vapor Pressure:	Not available		
Specific Gravity/Density:	0.96 - 0.99@ 25°C		
Vapor Density:	Not available		
Percent Volatile (% by wt.):	Not available		
pH:	Not available		
Saturation In Air (% By Vol.):	Not available		
Evaporation Rate:	Not available		
Solubility In Water:	Insoluble		
Volatile Organic Content:	Not available		
Flash Point:	118.3 °C	245 °F	Pensky-Martens Closed Cup
Flammable Limits (% By Vol):	Not available		
Autoignition Temperature:	Not available		
Decomposition Temperature:	Not available		
Partition coefficient (n-octanol/water):	Insoluble		
Odor Threshold:	Not available		

9. PHYSICAL AND CHEMICAL PROPERTIES

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions To Avoid:	None known
Polymerization:	Will not occur
Conditions To Avoid:	None known
Materials To Avoid:	oxygen Strong oxidizing agents.
Hazardous Decomposition Products:	oxides of carbon Ammonia (NH3) nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION.
Toxicological information on the regulated components of this product is as follows:

Petroleum distillates, hydrotreated light (CAS# 64742-47-8) has acute oral (rat) and dermal (rabbit) LD50 values of >5 g/kg and >3.16 g/kg, respectively. Prolonged or repeated skin contact tends to remove skin oils, possibly leading to irritation and dermatitis. Direct contact may cause eye irritation. Overexposure to high vapor concentrations, >~700 ppm, are irritating to the eyes and respiratory tract and may cause headaches, dizziness, drowsiness, and other central nervous system effects, including death. Aspiration of minute amounts during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. In a 90-day oral gavage (rats) study at 100, 500, or 1000 mg/kg, no treatment-related mortalities were observed. There were no significant changes in body weights or food consumption in any dose groups. Increased liver weights were observed in male and female rats a 500 and 1000 mg/kg. Increased kidney weights were observed only in male rats at 500 and 1000 mg/kg. Testes weights were significantly elevated in male rats at 1000 mg/kg. Kidney effects, indicative of light hydrocarbon nephropathy, occured in male rat kidneys at all dose levels. Histological findings of hepatocellular hypertrophy were seeen in the livers of male rats at 1000 mg/kg and in female rats at 500 and 1000 mg/kg. All treatment-related effects were reversible within the 4-week recovery period. Observed kidney effects (including light hydrocarbon nephropathy and increased kidney weight) are a unique response by male rats to chronic hydrocarbon exposure, which th U.S. EPA has declared `not relevant to humans`. High-dose liver effects (including hepatocellular hypertrophy, or enlarged liver cells) are a direct consequence of the sustained high-fat `hydrocarbon diet`. The No Observed Adverse Effect Level (NOAEL) for this study was 1000 mg/kg.

Salicylaldoxime derivative has an oral LD50 (rat) of 1.25 to 5 mL/Kg, a dermal LD50 (rat) of > 2.5 mL/Kg, and an inhalation LC50 (rat) of > 1.6 mg/L/1 hr./70 °C. Rat skin testing indicates it is a moderate dermal irritant, and rabbit eye testing indicated a slight potential for irritation. Guinea pig dermal sensitization tests were negative. It is expected to be irritating to eyes, skin, and all mucous membranes. Ingestion is expected to cause moderate to severe gastrointestinal irritation. Symptoms of inhalation exposure may include coughing, choking, pain and moderate to severe irritation of mucous membranes. Depending on quantity and duration of exposure, contact will likely cause moderate skin and eye irritation. Overexposure can cause central nervous system (CNS) depression, with symptoms ranging from headache and confusion to coma and respiratory failure. This material is likely to be an endocrine disrupter.

12. ECOLOGICAL INFORMATION

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
The ecological assessment for this material is based on an evaluation of its components.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA `listed hazardous waste`or has any of the four RCRA `hazardous waste characteristics.`Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA `listed hazardous waste`; information contained in Section 15 of this MSDS is not intended to indicate if the product is a `listed hazardous waste.`RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. The Company encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. The Company recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. The Company has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

US DOT

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class: 9
Packing Group: III
UN/ID Number: UN3082
Transport Label Required: Miscellaneous
Marine Pollutant
Technical Name (N.O.S.): Salicylaldoxime derivative
Hazardous Substances:
Not applicable
Comments: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

TRANSPORT CANADA

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class: 9
Packing Group: III

UN Number: UN3082
Transport Label Required: Miscellaneous
Marine Pollutant
Technical Name (N.O.S.): Salicylaldoxime derivative

ICAO / IATA

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Hazard Class: 9
Packing Group: III
UN Number: UN3082
Transport Label Required: Miscellaneous
Packing Instructions/Maximum Net Quantity Per Package:
Passenger Aircraft: 914; 450 L
Cargo Aircraft: 914; 450 L
Technical Name (N.O.S.): Salicylaldoxime derivative

Comments: Special Provision A97 states that substances classified as UN3077 or UN3082 by the regulations of other modes of transport may also be transported by air under these entries. This classification does NOT apply if the regulations of the other modes of transport allow the substances to be shipped as “Non-Dangerous Goods” because of package size or transport mode.

IMO

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class: 9
UN Number: UN3082
Packing Group: III
Transport Label Required: Miscellaneous
Marine Pollutant
Technical Name (N.O.S.): Salicylaldoxime derivative

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15. REGULATORY INFORMATION

INVENTORY INFORMATION

United States (USA): All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.
This product contains a chemical substance that is subject to export notification under Section 12 (b) of the Toxic Substances Control Act, 15 U. S. C. 2601 et. seq. (This requirement applies to exports from the United States only.)

Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

European Union (EU): All components of this product are included on the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

Australia: All components of this product are included in the Australian Inventory of Chemical Substances (AICS).

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

Philippines: All components of this product are NOT included on the Philippine (PICCS) inventory.

OTHER ENVIRONMENTAL INFORMATION
The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

Component / CAS No.	%	TPQ (lbs)	RQ(lbs)	S313	TSCA 12B
Salicylaldoxime derivative -	30 - 60	None	0	No	Yes

PRODUCT HAZARD CLASSIFICATION UNDER SECTION 311 OF SARA
- Acute

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16. OTHER INFORMATION

NFPA Hazard Rating (National Fire Protection Association)

Health: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

Fire: 1 - Materials that must be preheated before ignition can occur.

Reactivity: 0 - Materials that in themselves are normally stable, even under fire exposure conditions.

Reasons For Issue: Revised Section 14

Randy Deskin, Ph.D., DABT +1-973-357-3100

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CYTEC

Technology ahead of its time™

MSDS: 0014831
Date: 10/01/2003

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **ACORGA® M5640 Solvent Extraction Reagent**
Synonyms: none
Molecular Weight: Mixture

CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA, WEST PATERSON, NEW JERSEY 07424, USA
For Product Information call 1-800/652-6013. Outside the USA and Canada call 1-973/357-3193.
EMERGENCY PHONE: For emergency involving spill, leak, fire, exposure or accident call CHEMTREC: 1-800/424-9300. Outside the USA and Canada call 1-703/527-3887.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS

Component / CAS No.	% (w/w)	OSHA (PEL):	ACGIH (TLV)	Carcinogen
Petroleum distillate hydrotreated light 64742-47-8	10 - 30	500 ppm 1200 mg/m^3 (Supplier) 165 ppm (Supplier)	Not Established	-
5-Nonyl-2-hydroxy-benzaldoxime 174333-80-3	30 - 60	Not Established	Not Established	-

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR:

Color:	clear amber
Appearance:	liquid
Odor:	none

STATEMENTS OF HAZARD:

WARNING! CAUSES EYE AND SKIN IRRITATION
COMBUSTIBLE LIQUID AND VAPOR

POTENTIAL HEALTH EFFECTS

EFFECTS OF OVEREXPOSURE:
The acute oral (rat) and dermal (rabbit) LD50 is estimated to be between 1,600 - 3,000 mg/kg and greater than 2,000 mg/kg, respectively.

Direct contact with this material may cause moderate eye and skin irritation. Overexposure to vapors may cause irritation of the respiratory tract and eyes and may cause central nervous system effects. Refer to Section 11 for toxicology information on the regulated components of this product.

4. FIRST AID MEASURES

Ingestion:
If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Skin Contact:
Wash immediately with plenty of water and soap.

Eye Contact:
Rinse immediately with plenty of water for at least 15 minutes. Obtain medical advice if there are persistent symptoms.

Inhalation:
Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistant symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:
Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective.

Protective Equipment:
Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See Section 8 (Exposure Controls/Personal Protection).

Special Hazards:
Keep containers cool by spraying with water if exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

Methods For Cleaning Up:
Remove sources of ignition. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

7. HANDLING AND STORAGE

HANDLING

Precautionary Measures: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep away from heat, sparks and flame. Keep container closed.

Handling Statements: None

STORAGE
Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regualtions and/or guidelines. Standards are primarily based on the material`s flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed. In the Americas, National Fire Protection Association (NFPA) 30: Flammable and Combustible Liquids Code, is a widely used standard. NFPA 30 establishes storage conditions for the following classes of materials: Class I Flammable Liquids, Flashpoint <37.8 °C. Class II Combustible Liquids, 37.8 °C < Flashpoint <60 °C. Class IIIa Combustible Liquids, 60 °C < Flashpoint < 93 °C. Class IIIb Combustible Liquids, Flashpoint > 93 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:
Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

Respiratory Protection:
Where exposures are below the established exposure limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

Eye Protection:
Wear eye/face protection such as chemical splash proof goggles or face shield.

Skin Protection:
Avoid skin contact. Wear impermeable gloves and suitable protective clothing.

Additional Advice:
Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	clear amber
Appearance:	liquid
Odor:	none
Boiling Point:	Not available
Melting Point:	Not available
Vapor Pressure:	mm Hg @ 20 °C Not available
Specific Gravity:	0.96 - 0.97
Vapor Density:	(air = 1)Not available
Percent Volatile (By Wt.):	Not available
pH:	Not available
Saturation In Air (% By Vol.):	Not available
Evaporation Rate:	Not available
Solubility In Water:	Insoluble
Volatile Organic Content:	Not available
Flash Point:	91 °C 196 °F Pensky-Martens Closed Cup
Flammable Limits (% By Vol):	Not available
Autoignition Temperature:	Not available
Decomposition Temperature:	Not available
Partition coefficient (n-octanol/water):	Not available
Odor Threshold:	See Section 2 for exposure limits.

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions To Avoid:	None known
Polymerization:	Will not occur
Conditions To Avoid:	None known
Materials To Avoid:	oxygen Strong oxidizing agents.
Hazardous Decomposition Products:	oxides of carbon and nitrogen, ammonia

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION.
Toxicological information on the regulated components of this product is as follows:

Petroleum distillates, hydrotreated light (CAS# 64742-47-8) has acute oral (rat) and dermal (rabbit) LD50 values of >5 g/kg and >3.16 g/kg, respectively. Prolonged or repeated skin contact tends to remove skin oils, possibly leading to irritation and dermatitis. Direct contact may cause eye irritation. Overexposure to high vapor concentrations, >~700 ppm, are irritating to the eyes and respiratory tract and may cause headaches, dizziness, drowsiness, and other central nervous system effects, including death. Aspiration of minute amounts during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death. In a 90-day oral gavage (rats) study at 100, 500, or 1000 mg/kg, no treatment-related mortalities were observed. There were no significant changes in body weights or food consumption in any dose groups. Increased liver weights were observed in male and female rats a 500 and 1000 mg/kg. Increased kidney weights were observed only in male rats at 500 and 1000 mg/kg. Testes weights were significantly elevated in male rats at 1000 mg/kg. Kidney effects, indicative of light hydrocarbon nephropathy, occured in male rat kidneys at all dose levels. Histological findings of hepatocellular hypertrophy were seeen in the livers of male rats at 1000 mg/kg and in female rats at 500 and 1000 mg/kg. All treatment-related effects were reversible within the 4-week recovery period. Observed kidney effects (including light hydrocarbon nephropathy and increased kidney weight) are a unique response by male rats to chronic hydrocarbon exposure, which th U.S. EPA has declared `not relevant to humans`. High-dose liver effects (including hepatocellular hypertrophy, or enlarged liver cells) are a direct consequence of the sustained high-fat `hydrocarbon diet`. The No Observed Adverse Effect Level (NOAEL) for this study was 1000 mg/kg.

5-Nonyl-2-hydroxy-benzaldoxime has an oral LD50 (rat) of 1.25 to 5 mL/Kg, a dermal LD50 (rat) of > 2.5 mL/Kg, and an inhalation LC50 (rat) of > 1.6 mg/L/1 hr./70 °C. Rat skin testing indicates it is a moderate dermal irritant, and rabbit eye testing indicated a slight potential for irritation. Guinea pig dermal sensitization tests were negative. It is expected to be irritating to eyes, skin, and all mucous membranes. Ingestion of 5-Nonyl-2-hydroxy-benzaldoxime is expected to cause moderate to severe gastrointestinal irritation. Symptoms of inhalation exposure may include coughing, choking, pain and moderate to severe irritation of mucous membranes. Depending on quantity and duration of exposure, contact will likely cause moderate skin and eye irritation. In a 14-day subacute feeding study in rats, doses of 0.1 ml/kg did not produce any adverse effects. Overexposure (based on aromatic oxime) can cause central nervous system (CNS) depression, with symptoms ranging from headache and confusion to coma and respiratory failure. This material is likely to be an endocrine disrupter.

California Proposition 65 Warning (applicable in California only) - This product contains (a) chemical(s) known to the State of California to cause birth defects or other reproductive harm.

12. ECOLOGICAL INFORMATION

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
The ecological assessment for this material is based on an evaluation of its components.

13. DISPOSAL CONSIDERATIONS

The information on RCRA waste classification and disposal methodology provided below applies only to the Cytec product, as supplied. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA `listed hazardous waste`or has any of the four RCRA `hazardous waste characteristics.`Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA `listed hazardous waste`; information contained in Section 15 of this MSDS is not intended to indicate if the product is a `listed hazardous waste.`RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 9 of this MSDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Cytec encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Cytec recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at EPA approved facilities. Cytec has provided the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

US DOT

Proper Shipping Name: Combustible liquid, n.o.s.
Hazard Class: Combustible liquid
Packing Group: III
UN/ID Number: NA1993
Transport Label Required: Marine Pollutant
Technical Name (N.O.S.): Contains alkyl phenol and alkanes
Hazardous Substances:
Not applicable
Comments: DOT requirements specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

TRANSPORT CANADA

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Hazard Class: 9
Packing Group: III

UN Number: 3082
Transport Label Required: Miscellaneous
Marine Pollutant
Technical Name (N.O.S.): Contains alkyl phenol and alkanes

ICAO / IATA

Proper Shipping Name: Not applicable/Not regulated
Packing Instructions/Maximum Net Quantity Per Package:
Passenger Aircraft: -
Cargo Aircraft: -

IMO

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Hazard Class: 9
UN Number: 3082
Packing Group: III
Transport Label Required: Miscellaneous
Marine Pollutant
Technical Name (N.O.S.): Contains alkyl phenol and alkanes

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15. REGULATORY INFORMATION

INVENTORY INFORMATION

United States (USA): All components of this product are included on the TSCA Inventory in compliance with the Toxic Substances Control Act, 15 U. S. C. 2601 et. seq.
This product contains a chemical substance that is subject to export notification under Section 12 (b) of the Toxic Substances Control Act, 15 U. S. C. 2601 et. seq. (This requirement applies to exports from the United States only.)

Canada: Components of this product have been reported to Environment Canada in accordance with Sections 66 and/or 81 of the Canadian Environmental Protection Act (1999), and are included on the Domestic Substances List.

European Union (EU): All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC and its amendments.

Australia: All components of this product are included in the Australian Inventory of Chemical Substances (AICS).

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

Philippines: All components of this product are NOT included on the Philippine (PICCS) inventory.

OTHER ENVIRONMENTAL INFORMATION

The following components of this product may be subject to reporting requirements pursuant to Section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 13 for information on waste classification and waste disposal of this product.

Component / CAS No.	%	TPQ(lbs)	RQ(lbs)	S313	TSCA 12B
5-Nonyl-2-hydroxy-benzaldoxime 174333-80-3	30 - 60	None	0	No	Yes

PRODUCT HAZARD CLASSIFICATION UNDER SECTION 311 OF SARA

- Acute
- Fire

16. OTHER INFORMATION

NFPA Hazard Rating (National Fire Protection Association)

Health: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

Fire: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

Reactivity: 0 - Materials that in themselves are normally stable, even under fire exposure conditions.

Reasons For Issue: New Product

Randy Deskin, Ph.D., DABT +1-973-357-3100

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation, and verification. Before using any product, read its label.

Cognis Corporation

Material Safety Data Sheet

SDS no. : 320811

LIX 684 N-LV

Revision: 08/10/2010
printing date: 08/10/2010

1. Chemical product and company identification

Product name:
LIX 684 N-LV

Supplier
Cognis Corporation
5051 Estecreek Drive
Cincinnati, OH 45232-1446
USA
Phone: +1 (866) 910-0598
Fax-no.: +1 (513) 482-3576

Emergency Information Chemtrec:
+1-800-424-9300

2. Composition/information on ingredients

General chemical description:
Alkylated phenol oxime solution

COMPONENT:	CAS-No.	CONCENTRATION (Wt. %):
Proprietary component(s)		100

3. Hazards identification

EMERGENCY OVERVIEW

Warning:	Combustible liquid. Causes skin and eye irritation. May cause an allergic skin reaction.

State:
liquid

Odor:
of mineral oil

Color(s):
amber

Routes of entry:
Skin contact, Eye contact

Potential Health Acute Effects:
Inhalation:
Prolonged or excessive inhalation may cause respiratory tract irritation.

Skin contact:
Causes skin irritation.
May cause an allergic skin reaction.

Eye contact:
Causes eye irritation.

Ingestion:
May be harmful if swallowed.

Existing conditions aggravated by exposure:
May aggravate existing skin, eye and respiratory conditions.

Potential Chronic Health Effects:
None known

4. First aid measures

After inhalation:
After inhalation of spray mist: seek medical advice.
Move to fresh air.

After skin contact:
Remove contaminated clothing and footwear.
Wash thoroughly with soap and water.
If adverse health effects develop seek medical attention.

After eye contact:
Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

After ingestion:
Do not induce vomiting, seek medical advice immediately.
Product presents an aspiration hazard.
If vomiting occurs naturally, keep airway clear.
Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing.

5. Fire fighting measures

Flash point:
> 201,2 °F (> 94 °C)
ISO 2719-88;; flashpoint

Autoignition temperature:

Not determined

Flammable/Explosive limits:
Lower limits:
Not determined.
Upper limits:
Not determined.

Suitable extinguishing media:
Water Spray
Carbon dioxide.
Foam.
Dry Chemical

Improper extinguishing media:
High pressure waterjet

Special protection equipment for firefighters:
Wear self-contained breathing apparatus.
Wear full protective clothing.

Unusual fire or explosion hazards:
Formation of toxic gases is possible during heating or in fires.

Hazardous combustion products:
Carbon dioxide., carbon monoxide, nitrogen oxides

Additional fire fighting advice:
In case of fire, keep containers cool with water spray.

6. Accidental release measures

General information:
Avoid open flames and sources of ignition.
Clean up spills immediately.

Personal precautions:
Avoid contact with skin and eyes.
Ensure adequate ventilation.
Keep unprotected persons away.
Ensure cleanup is performed only by trained personnel wearing appropriate personal protective clothing and equipment.

Environmental precautions:
Do not empty into drains / surface water / ground water.

Methods for cleaning and take-up:
Contain by diking then pump into suitable containers.
Soak up small spills with absorbent material and place in labeled containers for recovery or disposal.

7. Handling and storage

Handling:
Handling advice:
Avoid naked flames, sparking and sources of ignition.
Ensure that workrooms are adequately ventilated.
Open and handle container with care.

Storage:
Shelf life:
36 months

Storage conditions to keep:
Store in a cool place in closed original container.
Ensure that storage and workrooms are adequately ventilated.

8. Exposure controls/personal protection

Indication for system design:
Ensure adequate ventilation.

Components with specific control parameters for workplace:

Valid for NAFTA Region (CA, US, MX)

Name on list	Basis	Type	Value	Category	Remarks
JET FUELS (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR	ACGIH	Skin designation.			Can be absorbed through the skin.
JET FUELS (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR	ACGIH	Time Weighted Average (TWA).	200 mg/m^3		P: Application restricted to conditions in which there are negligible aerosol exposures.
KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR	ACGIH	Time Weighted Average (TWA).	200 mg/m^3		P: Application restricted to conditions in which there are negligible aerosol exposures.
KEROSENE (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR	ACGIH	Skin designation.			Can be absorbed through the skin.
KEROSENE	NIOSH	Recommended exposure limit (REL):	100 mg/m^3		
EXX-PRINT 283D, EXXSOL (HEAVY ALIPHATIC PETROLEUM SOLVENT)LPA-142, 150, 170 SOLVENT (100% PARAFFINIC, NAPHTHENIC SOLVENT, HEAVY ALIPHATIC PETROLEUM SOLVENT; HYDROTREATED DISTILLATE)ISOPAR M (SYNTHETIC ISOPARAFFINIC HYDROCARBON)LVT 200 SOLVENT (HYDROTREATED LIGHT DISTILLATE)OROFOM SX (HYDROTREATED DISTILLATE, LIGHT C1 - C16)	TX ESL	Short-Term ESL:	3500 others	1 hourug/m3	
OROFOM SX (HYDROTREATED DISTILLATE, LIGHT C1 - C16)ISOPAR M (SYNTHETIC ISOPARAFFINIC HYDROCARBON)EXX-PRINT 283D, EXXSOL (HEAVY ALIPHATIC PETROLEUM SOLVENT)LVT 200 SOLVENT (HYDROTREATED LIGHT DISTILLATE)LPA-142, 150, 170 SOLVENT (100% PARAFFINIC,	TX ESL	Annual ESL:	350 others	ug/m3	

NAPHTHENIC SOLVENT, HEAVY ALIPHATIC PETROLEUM SOLVENT; HYDROTREATED DISTILLATE)					

Personal protection measures:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.
NIOSH/MSHA approved respirator if necessary.
Follow manufacturer's recommendations.

Hand protection:

Appropriate chemical resistant gloves.

Eye protection:

Goggles which can be tightly sealed.

Skin protection:

Wear suitable protective clothing.

9. Physical and chemical properties

General description:

State:	liquid
Odor:	of mineral oil
Color(s):	amber

Designation	Value	Method
Density (25 °C (77°F))	0.97 - 0.98 g/cm3	no information
Solubility in	Insoluble	no information

10. Stability and reactivity

Stability:

Conditions to avoid:

Avoid heating.
Prolonged exposure to elevated temperatures may result in exothermic decomposition accompanied by a pressure build-up
in sealed containers.

Decomposition advices:
No decomposition if used according to specifications.

Reactivity:
Materials to avoid:
Reaction with oxidants.

Hazardous polymerization:
Will not occur

11. Toxicological information

General toxicological information:
No toxicity information available or testing conducted on this product.
Any health or toxicological information included in Section 3 was based on data associated with the components or an analogous product.

Acute oral toxicity:
LD50 > 2000 mg/kg body weight

Skin irritation:
irritating

Eye irritation:
irritating

12. Ecological information

General ecological information:
The ecological evaluation of the product is based on data from the raw material and/or comparable substances.

Acute bacterial toxicity:
EC0 > 10 - <= 100 mg product/l.

Ultimate biodegradation:
The total of the organic components contained in the product achieve values below 60% BOD/COD or CO2 liberation, or below 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are not reached.

13. Disposal considerations

Waste disposal of product:

Dispose of product by incineration in an approved chemical waste facility (or by other approved methods) in accordance with applicable federal, state, and local regulations.
Avoid landfilling liquids.
Reclaim where possible.

14. Transport information

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name:	Environmentally hazardous substances, liquid, n.o.s. (Alkylated Phenol oxime)
Hazard class or division:	9
Danger Labels:	9
Identification number:	UN 3082
Packing group:	III
Marine pollutant:	Environmentally Hazardous
ERG/EMS:	171
RQ:	None

International Air Transportation (ICAO/IATA):

Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Alkylated Phenol oxime)
Hazard class or division:	9
Danger Labels:	9
Identification number:	UN 3082
Packing group:	III
RQ:	None

Water Transportation (IMO/IMDG):

Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkylated Phenol oxime)
Hazard class or division:	9
Danger Labels:	9
Identification number:	UN 3082
Packing group:	III
Marine pollutant:	Environmentally Hazardous
ERG/EMS:	F-A;S-F
RQ:	None

The transport information provided represents the regulatory transport classification of the product without consideration to packaging, quantity, or modal restrictions and exceptions. It is the user's responsibility to determine the appropriate packaging and modal requirements and/or limitations for the product quantity being shipped.

15. Regulatory information

TSCA Inventory Status: This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.

SARA 311/312 Hazard Categories: Immediate Health, Fire

TSCA 12(b) Components: none

SARA 313 Toxic Chemicals: none

SARA 302 Extremely Hazardous Substances: none

CERCLA Hazardous Chemicals: none

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

16. Other information

NFPA Rating (US)	Value
Health	2
Fire	2
Reactivity	1
Special Hazard	

HMIS Rating (US)	Value
Health	2
Flammability	2
Reactivity	1

All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, express or implied, is being made as to the effects of such use, the results obtained, or the safety and toxicity of the product nor is their any assumed liability arising out of use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

ExxonMobil

730721-00 ESCAID 115
MATERIAL SAFETY DATA BULLETIN

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ESCAID 115
SUPPLIER: EXXON MOBIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037

24 - Hour Health and Safety Emergency (call collect): 609-737-4411
24 - Hour Transportation Emergency (Primary) CHEMTREC: 800-424-9300
(Secondary) 281-834-3296
Product and Technical Information:
Lubricants and Specialties: 800-662-4525 800-443-9966
Fuels Products: 800-947-9147
MSDS Fax on Demand: 713-613-3661
MSDS on Internet: http://www.exxon.com
http://www.mobil.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: HYDROCARBON

GLOBALLY REPORTABLE MSDS INGREDIENTS:

Substance Name	Approx. Wt%
REFINED MINERAL OIL (64771-72-8)	100

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

This product is considered hazardous according to regulatory guidelines (See Section 15).

EMERGENCY OVERVIEW: Clear Straw Yellow Liquid. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: This product can irritate and defat the skin. Prolonged and/or repeated skin contact may cause dermatitis. High concentrations of vapors may be irritating to

the eyes and respiratory system and act as an anesthetic. Low viscosity material-if swallowed may enter the lungs and cause lung damage.

For further health effects/toxicological data, see Section 11.

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4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Immediately remove contaminated clothing. Launder contaminated clothing before reuse. (See Section 16 - Injection Injury)

INHALATION: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resuscitation.

INGESTION: Seek immediate medical attention. Do not induce vomiting.

NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause chemical pneumonitis. PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE: Hydrocarbon Solvents/Petroleum Hydrocarbons- Skin contact may aggravate an existing dermatitis.

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5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water should be used to keep fire-exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 93(200) (ASTM D-93).

Flammable Limits (approx.% vol.in air) - LEL: 1.4%, UEL: 8.7%

NFPA HAZARD ID: Health: 1, Flammability: 1, Reactivity: 0

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6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800)424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Eliminate sources of ignition. Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping using explosion-proof equipment or contain spilled liquid with sand or other suitable absorbent and

remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.
WATER SPILL: Eliminate sources of ignition and warn other ships in the vicinity to stay clear. Notify port and other relevant authorities. Confine with booms if skimming equipment is avaliable to recover the spill. Otherwise disperse in unconfined waters, if permitted by local authorities and environmental agencies. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

PERSONAL PRECAUTIONS: See Section 8

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7. HANDLING AND STORAGE

HANDLING: Keep product away from high energy ignition sources, heat, sparks, pilot lights, static electricity, and open flame. Harmful in contact with or if absorbed through the skin. Avoid inhalation of vapors or mists. Use in well ventilated area away from all ignition sources. Do not fill container in or on a vehicle. Static electricity may ignite vapors and cause fire. Place container on ground when filling and keep nozzle in contact with container. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Store in a cool area. Small containers of approved design, properly sealed and labeled, should be stored in well ventilated surroundings and kept out of reach of children. Eliminate all sources of ignition from the storage and handling area.

SPECIAL PRECAUTIONS: To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system. Do not use electronic devices (including but not limited to cellular phones, computers, calculators, pagers, etc.) in or around any fueling operation or storage area unless the devices are certified intrinsically safe by an approved national testing agency and to the safety standards required by national and/or local laws and regulations. Electrical equipment and fittings must comply with local fire prevention regulations for this class of product. Use the correct grounding procedures. Refer to national or local regulations covering safety at petroleum handling and storage areas for this product.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

ExxonMobil recommends an 8-hour time-weighted average (TWA) exposure of 1200 mg/m3 total vapor (approx. 165 ppm).

VENTILATION: Use in well ventilated area with local exhaust ventilation. If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.
RESPIRATORY PROTECTION: Use supplied-air respiratory protection in confined or enclosed spaces, if needed.
EYE PROTECTION: If splash with liquid is possible, chemical type goggles should be worn.
SKIN PROTECTION: Impervious gloves should be worn. Good personal hygiene practices should always be followed.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid
COLOR: Clear Straw Yellow
ODOR: Hydrocarbon
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): > 232(450)
MELTING POINT C(F): NA
FLASH POINT C(F): > 93(200) (ASTM D-93)
FLAMMABILITY (solids): NE
AUTO FLAMMABILITY C(F): NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: < 5.0
VAPOR DENSITY: NE
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.77
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: > 3.5
VISCOSITY AT 40 C, cSt: < 7.0
VISCOSITY AT 100 C, cSt: NE
POUR POINT C(F): 9(48)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
DMSO EXTRACT, IP-346 (WT.%): NA
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

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10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition.
INCOMPATIBILITY (MATERIALS TO AVOID): Halogens, strong acids,

alkalies, and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.
HAZARDOUS POLYMERIZATION: Will not occur.

---

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

---CHRONIC TOXICOLOGY (SUMMARY)---

Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products.

ECOTOXICITY: Available ectoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product.

MOBILITY: When released into the environment, adsorption to sediment and soil will be the predominant behavior.

PERSISTENCE AND DEGRADABILITY: This product is expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL: Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal.

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13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning for fuel value in

compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

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14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

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15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

Governmental Inventory Status: All components comply with TSCA, EINICS/ELINCS, AICS, DSL, KOREA, and PHILIPPINES.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES:
CHRONIC ACUTE

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS *

*** NO REPORTABLE INGREDIENTS ***

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TSCA 4	16=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	17=CA P65 REPRO	22=MI 293

3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

* EPA recently added new chemical substances to its TSCA Section 4 test rules. Please contact the supplier to confirm whether the ingredients in this product currently appear on a TSCA 4 or TSCA 12b list.
Code key:CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

---

16. OTHER INFORMATION

USE: DRILLING FLUID

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Precautionary Label Text:

CONTAINS PARAFFINS

CAUTION!

MAY CAUSE SKIN IRRITATION ON PROLONGED, REPEATED CONTACT. MAY CAUSE NOSE, THROAT AND LUNG IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL LUNG DAMAGE.

Keep away from heat, sparks, and flame. Avoid breathing vapor. Avoid contact with skin or clothing. Keep container closed. Use with adequate ventilation.

In case of contact, wash skin with soap and water. Remove contaminated clothing. Destroy or wash clothing before reuse. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.

For industrial use only. Not intended or suitable for use in or around a household or dwelling.

Refer to product Material Safety Data Sheet for further safety and health information.

****

For Internal Use Only: MHC: 1* 1* 1* 1* 1*, MPPEC: C, TRN: 730721-00, CMCS97: 97V824, REQ: PETROLEUM SPECIALTIES, SAFE USE: C
EHS Approval Date: 31MAY2002

****

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. Exxon Mobil Corporation and its affiliated companies assume no responsibility for accuracy of information unless the document is the most current available from an official ExxonMobil distribution system. Exxon Mobil Corporation and its affiliated companies neither represent nor warrant that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

Prepared by: ExxonMobil Oil Corporation
Environmental Health and Safety Department, Clinton, USA

ExxonMobil Chemical Company
(a division of Exxon Mobil Corporation)
13501 Katy Freeway
Houston, Texas 77079, U.S.A. ("Seller")

WSP CHEMICALS & TECHNOLOGY LLC
KARINA CORREA
XXXXXXXXXXXXXXXXXXXXX

Email Address: Karina.Correa@arcadis-us.com

Issue Date: 03 MAY 2011

Subject: Regulatory Declaration and/or Product Stewardship Information Statement(s) - Request

Dear Sir/Madam:

In response to your request, please find enclosed the regulatory declaration and/or product stewardship information statement(s) for the following product(s):

ESCAID 115 FLUID

These statements are provided by or on behalf of the above referenced ExxonMobil selling affiliate.

If you have any questions or need additional information please contact your ExxonMobil sales representative.

Enclosure(s):

ESCAID 115 FLUID - HAZARDOUS AIR POLLUTANTS-HAPS
Reference Number: 0065562

STATEMENT

Issue Date: 03 MAY 2011
At request of: WSP CHEMICALS & TECHNOLOGY LLC
Product Name(s): ESCAID 115 FLUID
Material Code(s): 5221643

With regard to the compliance status of the ExxonMobil Chemical product referenced above with the regulation(s) identified below the following can be declared:

The federal Clean Air Act Amendments of 1990 (CAAA) established a federal operating permit program under the Title V of the Act. This program applies to all sources of air pollutants and is administered at the state level. One category of pollutants covered by Title V is Hazardous Air Pollutants (HAPs). ExxonMobil Chemical Company has identified nine listed HAPs which may be contituents in Hydrocarbon Fluid products. For many ExxonMobil Chemical Company solvents, these individual HAPs appear at levels below 10 parts per million, possibly resulting in an insignificant contribution toward permitted HAP emissions.

Benzene: < 0.4 ppm (Periodic Analysis Minimum Detection Limit)

Toluene: < 0.4 ppm (Periodic Analysis Minimum Detection Limit)

Xylenes (all isomers): < 1 ppm

Ethylbenzene: < 0.4 ppm (Periodic Analysis Minimum Detection Limit)

Cumene: < 0.4 ppm (Periodic Analysis Minimum Detection Limit)

Naphthalene: < 0.4 ppm (Periodic Analysis Minimum Detection Limit)

n-Hexane: < 1 ppm

Styrene: < 0.4 ppm (Periodic Analysis Minimum Detection Limit)

2,2,4-Trimethylpentane: < 1 ppm

Total HAP: < 10 ppm

VALIDITY DATE: This document is valid until the next relevant legislative and/or regulatory change with a maximum of one year as of the date of issue of the statement.

Reference Number: 0065562

EXXON MOBIL CHEMICAL

MATERIAL SAFETY DATA SHEET

EXXON MOBIL CHEMICAL COMPANY
A DIVISION OF EXXON MOBIL CORPORATION

ESCAID 110 FLUID

DATE PREPARED: AUG 13, 2002

MSDS NO.: 92881582

------SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ------

PRODUCT NAME: ESCAID 110 FLUID

CHEMICAL NAME: ALIPHATIC HYDROCARBON

CAS: 64742-47-8

CHEMICAL FAMILY: PETROLEUM HYDROCARBON

PRODUCT DESCRIPTION: CLEAR COLORLESS LIQUID.

CONTACT ADDRESS:
EXXONMOBIL CHEMICAL COMPANY
P.O. BOX 3272
HOUSTON, TEXAS 77253-3272

EMERGENCY TELEPHONE NUMBERS: (24 HOURS)
CHEMTREC: (800) 424-9300
EXXONMOBIL CHEMICAL COMPANY: (800) 726-2015

NON EMERGENCY TELEPHONE NUMBERS: (8AM-5PM M-F)

FOR GENERAL PRODUCT INFORMATION CALL: (281) 870-6000

FOR HEALTH AND MEDICAL INFORMATION CALL: (281) 870-6884

------SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS ------

THIS PRODUCT IS HAZARDOUS AS DEFINED IN 29 CFR 1910.1200.

OSHA HAZARD: COMBUSTIBLE

------SECTION 3 HAZARDS IDENTIFICATION ------

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: SLIGHTLY IRRITATING BUT DOES NOT INJURE EYE TISSUE.

SKIN CONTACT:
LOW ORDER OF TOXICITY. FREQUENT OR PROLONGED CONTACT MAY IRRITATE AND CAUSE DERMATITIS. SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS CONDITION.

INHALATION:
HIGH VAPOR/AEROSOL CONCENTRATIONS (ATTAINABLE AT ELEVATED TEMPERATURES WELL ABOVE AMBIENT) ARE IRRITATING TO THE EYES AND THE RESPIRATORY TRACT, AND MAY CAUSE HEADACHES, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS, AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DEATH EFFECTS, INCLUDING DEATH.

INGESTION:
SMALL AMOUNTS OF THIS PRODUCT ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULMONARY INJURY, POSSIBLY PROGRESSING TO DEATH.
MINIMAL TOXICITY.

CHRONIC EFFECTS:
AT HIGH ORAL DOSES, THIS PRODUCT CAUSED REVERSIBLE DAMAGE TO THE LIVER AND KIDNEY (MALE ONLY) OF RATS. THESE EFFECTS ARE NOT RELEVANT TO HUMANS AT OCCUPATIONAL LEVELS OF EXPOSURE.

------SECTION 4 FIRST AID MEASURES ------

EYE CONTACT:
FLUSH EYES WITH LARGE AMOUNTS OF WATER UNTIL IRRITATION SUBSIDES.
IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

SKIN CONTACT:
FLUSH WITH LARGE AMOUNTS OF WATER; USE SOAP IF AVAILABLE. REMOVE GROSSLY CONTAMINATED CLOTHING, INCLUDING SHOES, AND LAUNDER BEFORE REUSE.

INHALATION:
USING PROPER RESPIRATORY PROTECTION, IMMEDIATELY REMOVE THE AFFECTED VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING IS STOPPED.
KEEP AT REST. CALL FOR PROMPT MEDICAL ATTENTION.

INGESTION:
IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP AT REST.
GET PROMPT MEDICAL ATTENTION.

------SECTION 5 FIRE-FIGHTING MEASURES ------

FLASH POINT: 170 DEG F.
METHOD: PMCC ASTM D93
NOTE: MINIMUM

FLAMMABLE LIMITS:
LEL: 1.3
UEL: 8.1 @ 77 DEG F.

NOTE: APPROXIMATE

AUTOIGNITION TEMPERATURE: 421 DEG F.
NOTE: APPROXIMATE

GENERAL HAZARD:
COMBUSTIBLE LIQUID, CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASHPOINT.

STATIC DISCHARGE, MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE.
"EMPTY" CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.

FIRE FIGHTING:
USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL
ISOLATE "FUEL" SUPPLY FROM FIRE.
USE FOAM, DRY CHEMICAL, OR WATER SPRAY TO EXTINGUISH FIRE.
AVOID SPRAYING WATER DIRECTLY INTO STORAGE CONTAINERS DUE TO DANGER OF BOILOVER.

THIS LIQUID IS VOLATILE AND GIVES OFF INVISIBLE VAPORS. EITHER THE LIQUID OR VAPOR MAY SETTLE IN LOW AREAS OR TRAVEL SOME DISTANCE ALONG THE GROUND OR SURFACE TO IGNITION SOURCES WHERE THEY MAY IGNITE OR EXPLODE.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: NO UNUSUAL

------SECTION 6 ACCIDENTAL RELEASE MEASURES ------

LAND SPILL:
ELIMINATE SOURCES OF IGNITION. PREVENT ADDITIONAL DISCHARGE OF MATERIAL, IF POSSIBLE TO DO SO WITHOUT HAZARD. FOR SMALL SPILLS IMPLEMENT CLEANUP PROCEDURES; FOR LARGE SPILLS IMPLEMENT CLEANUP PROCEDURES AND, IF IN PUBLIC AREA, KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. ALSO, IF THIS PRODUCT IS SUBJECT TO CERCLA REPORTING (SEE SECTION 15 REGULATORY INFORMATION) NOTIFY THE NATIONAL RESPONSE CENTER.
PREVENT LIQUID FROM ENTERING SEWERS, WATERCOURSES, OR LOW AREAS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST.
RECOVER BY PUMPING (USE AN EXPLOSION PROOF OR HAND PUMP) OR WITH A SUITABLE ABSORBENT.
CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

WATER SPILL:
ELIMINATE SOURCES OF IGNITION. WARN OCCUPANTS AND SHIPPING IN SURROUNDING AND DOWNWIND AREAS OF FIRE AND EXPLOSION HAZARD AND REQUEST ALL TO STAY CLEAR.

REMOVE FROM SURFACE BY SKIMMING OR WITH SUITABLE ADSORBENTS. IF ALLOWED BY LOCAL AUTHORITIES AND ENVIRONMENTAL AGENCIES, SINKING AND/OR SUITABLE DISPERSANTS MAY BE USED IN NON-CONFINED WATERS.
CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

------SECTION 7 STORAGE AND HANDLING ------

ELECTROSTATIC ACCUMULATION HAZARD:
YES, USE PROPER BONDING AND/OR GROUNDING PROCEDURE.
ADDITIONAL INFORMATION REGARDING SAFE HANDLING OF PRODUCTS WITH STATIC ACCUMULATION POTENTIAL CAN BE ORDERED BY CONTACTING THE AMERICAN PETROLEUM INSTITUTE (API) FOR API RECOMMENDED PRACTICE 2003, ENTITLED "PROTECTION AGAINST IGNITIONS ARISING OUT OF STATIC, LIGHTNING, AND STRAY CURRENTS" (AMERICAN PETROLEUM INSTITUTE, 1220 L STREET NORTHWEST, WASHINGTON, DC 20005), OR THE NATIONAL FIRE PROTECTION ASSOCIATION, (NFPA) FOR NFPA 77 ENTITLED "STATIC ELECTRICITY" (NATIONAL FIRE PROTECTION ASSOCIATION, 1 BATTERYMARCH PARK, P.O. BOX 9101, QUINCY, MA 02269-9101).

STORAGE TEMPERATURE, DEG. F: AMBIENT

LOADING/UNLOADING TEMPERATURE, DEG. F: AMBIENT

STORAGE/TRANSPORT PRESSURE, MMHg: ATMOSPHERIC

LOADING/UNLOADING VISCOSITY, CST: 2.0 APPROXIMATE

STORAGE AND HANDLING:
KEEP CONTAINER CLOSED. HANDLE AND OPEN CONTAINERS WITH CARE. STORE IN A COOL, WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS.
DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. PROTECT MATERIAL FROM DIRECT SUNLIGHT.
MATERIAL WILL ACCUMULATE STATIC CHARGES WHICH MAY CAUSE AN ELECTRICAL SPARK (IGNITION SOURCE). USE PROPER BONDING AND/OR GROUNDING PROCEDURES.
DO NOT PRESSURIZE, CUT, HEAT, OR WELD CONTAINERS. EMPTY PRODUCT CONTAINERS MAY CONTAIN PRODUCT RESIDUE. DO NOT REUSE EMPTY CONTAINERS WITHOUT COMMERCIAL CLEANING OR RECONDITIONING.

------SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION ------

EXPOSURE CONTROLS:
THE USE OF LOCAL EXHAUST VENTILATION IS RECOMMENDED TO CONTROL PROCESS EMISSIONS NEAR THE SOURCE. LABORATORY SAMPLES SHOULD BE HANDLED IN A LAB HOOD. PROVIDE MECHANICAL VENTILATION OF CONFINED SPACES.
SEE RESPIRATORY PROTECTION RECOMMENDATIONS.

PERSONAL PROTECTION:
FOR OPEN SYSTEMS WHERE CONTACT IS LIKELY, WEAR SAFETY GLASSES WITH SIDE SHIELDS, LONG SLEEVES, AND CHEMICAL RESISTANT GLOVES.
WHERE CONTACT MAY OCCUR, WEAR SAFETY GLASSES WITH SIDE SHIELDS.
WHERE CONCENTRATIONS IN AIR MAY EXCEED THE LIMITS GIVEN IN THIS SECTION AND ENGINEERING, WORK PRACTICE OR OTHER MEANS OF EXPOSURE REDUCTION ARE NOT

ADEQUATE, NIOSH APPROVED RESPIRATORS MAY BE NECESSARY TO PREVENT OVEREXPOSURE BY INHALATION.

WORKPLACE EXPOSURE GUIDELINES:

EXXONMOBIL RECOMMENDS THE FOLLOWING OCCUPATIONAL EXPOSURE LIMITS:
A TWA OF 1200 MG/M3 (165 PPM) BASED ON TOTAL HYDROCARBON.

------SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES ------

SPECIFIC GRAVITY, AT DEG. F: 0.80 AT 60

VAPOR PRESSURE, MMHg AT DEG. F: <1 AT 68

DENSITY AT DEG. F: 67 LBS/GAL AT 59

SOLUBILITY IN WATER, WT. % AT DEG. F: LESS THAN 0.01 AT 77

VISCOSITY OF LIQUID, CST AT DEG. F: 1.3-1.9 AT 100

SP. GRAV. OF VAPOR, AT 1 ATM (AIR = 1): 5.30

FREEZING/MELTING POINT, DEG. F: -22

EVAPORATION RATE, n-Bu ACETATE = 1: LESS THAN 0.1

BOILING POINT, DEG. F: 408 TO 442

------SECTION 10 STABILITY AND REACTIVITY ------

STABILITY: STABLE

CONDITIONS TO AVOID INSTABILITY: NOT APPLICABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION: NOT APPLICABLE

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY: STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

------SECTION 11 TOXICOLOGICAL INFORMATION ------

PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

------SECTION 12 ECOLOGICAL INFORMATION ------

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER

TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

------SECTION 13 DISPOSAL CONSIDERATIONS ------

PLEASE REFER TO SECTIONS 5,6 AND 15 FOR DISPOSAL AND REGULATORY INFORMATION.

------SECTION 14 TRANSPORT INFORMATION ------

DEPARTMENT OF TRANSPORTATION (DOT):
DOT SHIPPING DESCRIPTION:
PETROLEUM DISTILLATE, N.O.S., COMBUSTIBLE LIQUID.
UN 1268, III

NOTE:
IN CONTAINERS OF 119 GALLONS CAPACITY OR LESS THIS PRODUCT IS NOT REGULATED BY DOT.

------SECTION 15 REGULATORY INFORMATION ------

TSCA:
THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AT CAS REGISTRY NUMBER 64742-47-8

CLEAN WATER ACT/OIL POLLUTION ACT:
THIS PRODUCT IS CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER ACT (40 CFR 110) AND THE OIL POLLUTION ACT OF 1990. DISCHARGE OR SPILLS WHICH PRODUCE A VISIBLE SHEEN ON EITHER SURFACE WATER, OR IN WATERWAYS/SEWERS WHICH LEAD TO SURFACE WATER, MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AT 800-424-8802.

CERCLA:
IF THIS PRODUCT IS ACCIDENTALLY SPILLED, IT IS NOT SUBJECT TO ANY SPECIAL REPORTING UNDER THE REQUIREMENTS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA). WE RECOMMEND YOU CONTACT LOCAL AUTHORITIES TO DETERMINE IF THERE MAY BE OTHER LOCAL REPORTING REQUIREMENTS.

SARA TITLE III:
UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: FIRE.
THIS INFORMATION MAY BE SUBJECT TO THE PROVISIONS OF THE COMMUNITY RIGHT-TO-KNOW REPORTING REQUIREMENTS (40 CFR 370) IF THRESHOLD QUANTITY CRITERIA ARE MET. THIS PRODUCT DOES NOT CONTAIN SECTION 313 REPORTABLE INGREDIENTS.

------SECTION 16 OTHER INFORMATION ------

HAZARD RATING SYSTEMS:
THIS INFORMATION IS FOR PEOPLE TRAINED IN:

NATIONAL PAINT & COATINGS ASSOCIATION'S (NPCA)
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704)

IDENTIFICATION OF THE FIRE HAZARDS OF MATERIALS:

	NPCA-HMIS	NFPA 704
HEALTH	1	1
FLAMMABILITY	2	2
REACTIVITY	0	0

KEY:
4 = SEVERE
3 = SERIOUS
2 = MODERATE
1 = SLIGHT
0 = MINIMAL

CAUTION:
HMIS RATINGS ARE BASED ON A 0-4 RATING SCALE WITH 1 REPRESENTING MINIMAL HAZARD OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS. RECOMMENDED HMIS RATINGS SHOULD NOT BE USED IN THE ABSENCE OF A FULLY IMPLEMENTED HMIS HAZARD COMMUNICATION PROGRAM.

REVISION SUMMARY:
SINCE JUNE 16, 2000 THIS MSDS HAS BEEN REVISED IN SECTION(S): 3

REFERENCE NUMBER: HDHA-C-25168

SUPERSEDES ISSUES DATE: JUNE 16, 2000

THIS INFORMATION RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION NOR DO WE OFFER WARRANTY AGAINST PATENT INFRINGEMENT.

MATERIAL SAFETY DATA SHEET

Gasoline, All Grades **MSDS No. 9950**

EMERGENCY OVERVIEW
DANGER!
EXTREMELY FLAMMABLE - EYE AND MUCOUS MEMBRANE IRRITANT - EFFECTS CENTRAL NERVOUS SYSTEM - HARMFUL OR FATAL IF SWALLOWED - ASPIRATION HAZARD



NFPA 704 (Section 16)

High fire hazard. Keep away from heat, spark, open flame, and other ignition sources.

If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs). Contact may cause eye, skin and mucous membrane irritation. Harmful if absorbed through the skin. Avoid prolonged breathing of vapors or mists. Inhalation may cause irritation, anesthetic effects (dizziness, nausea, headache, intoxication), and respiratory system effects.

Long-term exposure may cause effects to specific organs, such as to the liver, kidneys, blood, nervous system, and skin. Contains benzene, which can cause blood disease, including anemia and leukemia.

1. CHEMICAL PRODUCT and COMPANY INFORMATION

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

EMERGENCY TELEPHONE NUMBER (24 hrs): **CHEMTREC (800)424-9300**
COMPANY CONTACT (business hours): Corporate Safety (732)750-6000
MSDS (Environment, Health, Safety) Internet Website www.hess.com

SYNONYMS: Hess Conventional (Oxygenated and Non-oxygenated) Gasoline; Reformulated Gasoline (RFG); Reformulated Gasoline Blendstock for Oxygenate Blending (RBOB); Unleaded Motor or Automotive Gasoline

See Section 16 for abbreviations and acronyms.

2. COMPOSITION and INFORMATION ON INGREDIENTS *

INGREDIENT NAME (CAS No.)	CONCENTRATION PERCENT BY WEIGHT
Gasoline (86290-81-5)	100
Benzene (71-43-2)	0.1 - 4.9 (0.1 - 1.3 reformulated gasoline)
n-Butane (106-97-8)	< 10
Ethyl Alcohol (Ethanol) (64-17-5)	0 - 10
Ethyl benzene (100-41-4)	< 3
n-Hexane (110-54-3)	0.5 to 4
Methyl-tertiary butyl ether (MTBE) (1634-04-4)	0 to 15.0
Tertiary-amyl methyl ether (TAME) (994-05-8)	0 to 17.2
Toluene (108-88-3)	1 - 25
1,2,4- Trimethylbenzene (95-63-6)	< 6
Xylene, mixed isomers (1330-20-7)	1 - 15

A complex blend of petroleum-derived normal and branched-chain alkane, cycloalkane, alkene, and aromatic hydrocarbons. May contain antioxidant and multifunctional additives. Non-oxygenated Conventional Gasoline and RBOB do not have oxygenates (Ethanol or MTBE and/or TAME).

Oxygenated Conventional and Reformulated Gasoline will have oxygenates for octane enhancement or as legally required.

3. HAZARDS IDENTIFICATION

EYES
Moderate irritant. Contact with liquid or vapor may cause irritation.

SKIN
Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly.

INGESTION
The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

INHALATION
Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

CHRONIC EFFECTS and CARCINOGENICITY
Contains benzene, a regulated human carcinogen. Benzene has the potential to cause anemia and other blood diseases, including leukemia, after repeated and prolonged exposure. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with systemic toxicity. See also Section 11 - Toxicological Information.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash). Chronic respiratory disease, liver or kidney dysfunction, or pre-existing central nervous system disorders may be aggravated by exposure.

4. FIRST AID MEASURES

EYES
In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

SKIN
Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

INGESTION

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

INHALATION
Remove person to fresh air. If person is not breathing, ensure an open airway and provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT:	-45 °F (-43°C)
AUTOIGNITION TEMPERATURE:	highly variable; > 530 °F (>280 °C)
OSHA/NFPA FLAMMABILITY CLASS:	1A (flammable liquid)
LOWER EXPLOSIVE LIMIT (%):	1.4%
UPPER EXPLOSIVE LIMIT (%):	7.6%

FIRE AND EXPLOSION HAZARDS
Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

EXTINGUISHING MEDIA
SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or Halon.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

During certain times of the year and/or in certain geographical locations, gasoline may contain MTBE and/or TAME. Firefighting foam suitable for polar solvents is recommended for fuel with greater than 10% oxygenate concentration - refer to NFPA 11 “Low Expansion Foam - 1994 Edition.”

FIRE FIGHTING INSTRUCTIONS
Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

6. ACCIDENTAL RELEASE MEASURES

ACTIVATE FACILITY SPILL CONTINGENCY or EMERGENCY PLAN.

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

7. HANDLING and STORAGE

HANDLING PRECAUTIONS

******USE ONLY AS A MOTOR FUEL******
******DO NOT SIPHON BY MOUTH******

Handle as a flammable liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents.

STORAGE PRECAUTIONS

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

WORK/HYGIENIC PRACTICES

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

EXPOSURE LIMITS

Component (CAS No.)	Source	TWA (ppm)	STEL (ppm)	Exposure Limits Note
Gasoline (86290-81-5)	ACGIH	300	500	A3
Benzene (71-43-2)	OSHA	1	5	Carcinogen
	ACGIH	0.5	2.5	A1, skin
	USCG	1	5	
n-Butane (106-97-8)	ACGIH	1000	--	Aliphatic Hydrocarbon Gases Alkane (C1-C4)
Ethyl Alcohol (ethanol) (64-17-5)	OSHA	1000	--	
	ACGIH	1000	--	A4
Ethyl benzene (100-41-4)	OSHA	100	--	
	ACGIH	100	125	A3
n-Hexane (110-54-3)	OSHA	500	--	
	ACGIH	50	--	Skin
Methyl-tertiary butyl ether [MTBE] (1634-04-4)	ACGIH	50		A3
Tertiary-amyl methyl ether [TAME] (994-05-8)				None established
Toluene (108-88-3)	OSHA	200		Ceiling: 300 ppm; Peak: 500 ppm (10 min.)
	ACGIH	20	--	A4
1,2,4- Trimethylbenzene (95-63-6)	ACGIH	25	--	
Xylene, mixed isomers (1330-20-7)	OSHA	100	--	
	ACGIH	100	150	A4

ENGINEERING CONTROLS

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

SKIN PROTECTION

Gloves constructed of nitrile or neoprene are recommended. Chemical protective clothing such as that made of of E.I. DuPont Tychem ®, products or equivalent is recommended based on degree of exposure.

Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

RESPIRATORY PROTECTION

A NIOSH-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection and limitations.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE

A translucent, straw-colored or light yellow liquid

ODOR
A strong, characteristic aromatic hydrocarbon odor. Oxygenated gasoline with MTBE and/or TAME may have a sweet, ether-like odor and is detectable at a lower concentration than non-oxygenated gasoline.

ODOR THRESHOLD

	Odor Detection	Odor Recognition
Non-oxygenated gasoline:	0.5 - 0.6 ppm	0.8 - 1.1 ppm
Gasoline with 15% MTBE:	0.2 - 0.3 ppm	0.4 - 0.7 ppm
Gasoline with 15% TAME:	0.1 ppm	0.2 ppm

BASIC PHYSICAL PROPERTIES

BOILING RANGE:	85 to 437 °F (39 to 200 °C)
VAPOR PRESSURE:	6.4 - 15 RVP @ 100 °F (38 °C) (275-475 mm Hg @ 68 °F (20 °C)
VAPOR DENSITY (air = 1):	AP 3 to 4
SPECIFIC GRAVITY (H_2O = 1):	0.70 – 0.78
EVAPORATION RATE:	10-11 (n-butyl acetate = 1)
PERCENT VOLATILES:	100 %
SOLUBILITY (H_2O):	Non-oxygenated gasoline - negligible (< 0.1% @ 77 °F). Gasoline with 15% MTBE - slight (0.1 - 3% @ 77 °F); ethanol is readily soluble in water

10. STABILITY and REACTIVITY)

STABILITY: Stable. Hazardous polymerization will not occur.

CONDITIONS TO AVOID
Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources

INCOMPATIBLE MATERIALS
Keep away from strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS
Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke). Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

11. TOXICOLOGICAL PROPERTIES

ACUTE TOXICITY
Acute Dermal LD50 (rabbits): > 5 ml/kg
Acute Oral LD50 (rat): 18.75 ml/kg
Primary dermal irritation (rabbits): slightly irritating
Draize eye irritation (rabbits): non-irritating
Guinea pig sensitization: negative

CHRONIC EFFECTS AND CARCINOGENICITY
Carcinogenicity: OSHA: NO IARC: YES - 2B NTP: NO ACGIH: YES (A3)

IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic in humans. Inhalation exposure to completely vaporized unleaded gasoline caused kidney cancers in male rats and liver tumors in female mice. The U.S. EPA has determined that the male kidney tumors are species-specific and are irrelevant for human health risk assessment. The significance of the tumors seen in female mice is not known. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with effects to the central and peripheral nervous systems, liver, and kidneys. The significance of these animal models to predict similar human response to gasoline is uncertain.

This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC, OSHA and ACGIH.

This product may contain methyl tertiary butyl ether (MTBE): animal and human health effects studies indicate that MTBE may cause eye, skin, and respiratory tract irritation, central nervous system depression and neurotoxicity. MTBE is classified as an animal carcinogen (A3) by the ACGIH.

12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations. If released, oxygenates such as ethers and alcohols will be expected to exhibit fairly high mobility in soil, and therefore may leach into groundwater. The API (www.api.org) provides a number of useful references addressing petroleum and oxygenate contamination of groundwater.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options.

14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME:	Gasoline
DOT HAZARD CLASS and PACKING GROUP:	3, PG II
DOT IDENTIFICATION NUMBER:	UN 1203
DOT SHIPPING LABEL:	FLAMMABLE LIQUID

PLACARD:



15. REGULATORY INFORMATION

U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other federal, state, or local regulations; consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a “petroleum exclusion” clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

ACUTE HEALTH	CHRONIC HEALTH	FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVE
X	X	X	--	--

SARA SECTION 313 - SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

INGREDIENT NAME (CAS NUMBER)	CONCENTRATION WT. PERCENT
Benzene (71-43-2)	0.1 to 4.9 (0.1 to 1.3 for reformulated gasoline)
Ethyl benzene (100-41-4)	< 3

n-Hexane (110-54-3)	0.5 to 4
Methyl-tertiary butyl ether (MTBE) (1634-04-4)	0 to 15.0
Toluene (108-88-3)	1 to 15
1,2,4- Trimethylbenzene (95-63-6)	< 6
Xylene, mixed isomers (1330-20-7)	1 to 15

US EPA guidance documents (www.epa.gov/tri) for reporting Persistent Bioaccumulating Toxics (PBTs) indicate this product may contain the following deminimis levels of toxic chemicals subject to Section 313 reporting:

INGREDIENT NAME (CAS NUMBER)	CONCENTRATION - Parts per million (ppm) by weight
Polycyclic aromatic compounds (PACs)	17
Benzo (g,h,i) perylene (191-24-2)	2.55
Lead (7439-92-1)	0.079

CALIFORNIA PROPOSITION 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

INGREDIENT NAME (CAS NUMBER)	Date Listed
Benzene	2/27/1987
Ethyl benzene	6/11/2004
Toluene	1/1/1991

CANADIAN REGULATORY INFORMATION (WHMIS)

Class B, Division 2 (Flammable Liquid)
Class D, Division 2A (Very toxic by other means) and Class D, Division 2B (Toxic by other means)

16. OTHER INFORMATION

NFPA® HAZARD RATING	HEALTH:	1	Slight
	FIRE:	3	Serious
	REACTIVITY:	0	Minimal
HMIS® HAZARD RATING	HEALTH:	1 *	Slight
	FIRE:	3	Serious
	PHYSICAL:	0	Minimal
			* CHRONIC

SUPERSEDES MSDS DATED: 07/01/06

ABBREVIATIONS:

AP = Approximately	< = Less than	> = Greater than
N/A = Not Applicable	N/D = Not Determined	ppm = parts per million

ACRONYMS:

ACGIH	American Conference of Governmental Industrial Hygienists	CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act
AIHA	American Industrial Hygiene Association	DOT	U.S. Department of Transportation [General Info: (800)467-4922]
ANSI	American National Standards Institute (212)642-4900	EPA	U.S. Environmental Protection Agency
API	American Petroleum Institute (202)682-8000	HMIS	Hazardous Materials Information System

IARC	International Agency For Research On Cancer
MSHA	Mine Safety and Health Administration
NFPA	National Fire Protection Association (617)770-3000
NIOSH	National Institute of Occupational Safety and Health
NOIC	Notice of Intended Change (proposed change to ACGIH TLV)
NTP	National Toxicology Program
OPA	Oil Pollution Act of 1990
OSHA	U.S. Occupational Safety & Health Administration
PEL	Permissible Exposure Limit (OSHA)
RCRA	Resource Conservation and Recovery Act
REL	Recommended Exposure Limit (NIOSH)
SARA	Superfund Amendments and Reauthorization Act of 1986 Title III
SCBA	Self-Contained Breathing Apparatus
SPCC	Spill Prevention, Control, and Countermeasures
STEL	Short-Term Exposure Limit (generally 15 minutes)
TLV	Threshold Limit Value (ACGIH)
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average (8 hr.)
WEEL	Workplace Environmental Exposure Level (AIHA)
WHMIS	Workplace Hazardous Materials Information System (Canada)

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Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

Shell Chemicals

Data Sheet

Issued:
23-Jul-2009

Product Name **ShellSol D70**

Product Code **Q7712** **Africa**

Product Category **Aliphatics**

CAS Registry Number 64742-47-8

EINECS Number 265-149-8

Description ShellSol D70 is a very low aromatic, inert hydrocarbon solvent.

Typical Properties

Property	Unit	Method	Value
Density @15°C	kg/l	ASTM D4052	0.793
Density @20°C	kg/l	ASTM D4052	0.790
Cubic Expansion Coefficient @20°C	(10^-4)/°C	-	9
Refractive Index @20°C	-	ASTM D1218	1.436
Color	Saybolt	ASTM D156	+30
Distillation, IBP	°C	ASTM D1078	200
Distillation, DP	°C	ASTM D1078	240
Relative Evaporation Rate (nBuAc=1)	-	ASTM D3539	0.01
Vapor Pressure @20°C	kPa	Calculated	0.05
Saturated Vapor Concentration @20°C	g/m³	Calculated	4
Paraffins	% m/m	GC	60
Naphthenes	% m/m	GC	40
Aromatics	% m/m	SMS 2728	< 0.5
Benzene	mg/kg	GC	< 3
Sulfur	mg/kg	ASTM D5453	< 10
Flash Point	°C	ASTM D93	77
Explosion Limit: Lower	%v/v	-	0.6
Explosion Limit: Upper	%v/v	-	5.5
Electrical Conductivity @20°C	pS/m	-	< 1
Aniline Point	°C	ASTM D611	77
Pour Point	°C	ASTM D97	< -50
Surface Tension @20°C	mN/m	Du Nouy ring	26
Viscosity @25°C	mm²/s	ASTM D445	2.0
Hildebrand Solubility Parameter	(cal/cm³)^½	-	7.6
Hydrogen Bonding Index	-	-	0

	Fractional Polarity	-	-	0
	Molecular Weight	g/mol	Calculated	174

Test Methods	Copies of copyrighted test methods can be obtained from the issuing organisations: American Society for Testing and Materials (ASTM) : www.astm.org Shell Method Series (SMS) methods are issued by Shell Golabl Solutions International B.V., Shell Research and Technology Centre, Amsterdam, The Netherlands. Copies of SMS can be obtained through your local Shell Chemicals company. For routine quality control analyses, local test methods may be applied that are different from those mentioned in this datasheet. Such methods have been validated and can be obtained through your local Shell Chemicals company.
Quality	ShellSol D70 does not contain detectable quantities of polycyclic aromatics, heavy metals or chlorinated compounds.
Storage and Handling	Provided proper storage and handling precautions are taken we would expect ShellSol D70 to be technically stable for at least 12 months. For detailed advice on Storage and Handling please refer to the Material Safety Data Sheet on www.shell.com/chemicals
Hazard Information	For detailed Hazard Information please refer to the Material Safety Data Sheet on www.shell.com/chemicals.
Warranty	All products purchased or supplied by Shell Chemicals are subject to terms and conditions set out in the contract, order acknowledgment and/or bill of lading. Shell Chemicals warrant that their product will meet those specifications designated as such herein or in other publications. All other information including that herein, supplied by Shell Chemicals is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine the products' suitability for a particular purpose. Shell Chemicals make no other warranty either expressed or implied, regarding such other information, the data upon which the same is based, or the results to be obtained from use thereof; that any products shall be merchantable or fit for any purpose; or that the use of such other information or product will not infringe any patent. The expression 'Shell Chemicals' refers to the companies of the Shell Group that are engaged in chemical businesses. Each of the companies that make up the Shell Group of companies is an independent entity and has its own separate identity.
Trademark	ShellSol is a Shell Trademark.

PENRECO(R*)

MATERIAL SAFETY DATA SHEET

PENRECO(R*) 170ES

MSDS CODE: 776576

STATUS: FINAL

DATE OF ISSUE: 02-AUG-2006

------1. PRODUCT AND COMPANY IDENTIFICATION ------

PRODUCT NAME: PENRECO(R*) 170ES

INTENDED USE: HIGH-PURITY HYDROCARBON SOLVENT

RESPONSIBLE PARTY:
PENRECO
8701 NEW TRAILS DR. SUITE 175
THE WOODLANDS, TX 77381

CUSTOMER SERVICE:
800-245-3952
WWW.PENRECO.COM

TECHNICAL INFORMATION: 800-245-3952

EMERGENCY OVERVIEW:

24 HOUR EMERGENCY TELEPHONE NUMBERS:
SPILL, LEAK, FIRE OR ACCIDENT CALL CHEMTREC:
NORTH AMERICA: (800) 424-9300
OTHERS: (703) 527-3887 (COLLECT)
CALIFORNIA POISON CONTROL SYSTEM: (800) 356-3129

HEALTH HAZARDS/PRECAUTIONARY MEASURES:
ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. USE WITH VENTILATION ADEQUATE TO KEEP EXPOSURE BELOW RECOMMENDED LIMITS, IF ANY. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. DO NOT TASTE OR SWALLOW.

PHYSICAL HAZARDS/PRECAUTIONARY MEASURES:
COMBUSTIBLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT, SPARKS, FLAMES, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION.

APPEARANCE: CLEAR, COLORLESS

PHYSICAL FORM: LIQUID

ODOR: NEGLIGIBLE

NFPA 704 HAZARD CLASS:
HEALTH 1
FLAMMABILITY 2
INSTABILITY 0

LEGEND:
0 (LEAST)
1 (SLIGHT)
2 (MODERATE)
3 (HIGH)
4 (EXTREME)

------2. COMPOSITION / INFORMATION ON INGREDIENTS ------

NON-HAZARDOUS COMPONENTS:

COMPONENT	CONCENTRATION (WT%)	ACGIH	OSHA	NIOSH	OTHER
HYDROTREATED DISTILLATE, LIGHT..C9-16 64742-47-8	100	NE	NE	NE	NE

NOTE:
STATE, LOCAL OR OTHER AGENCIES OR ADVISORY GROUPS MAY HAVE ESTABLISHED MORE STRINGENT LIMITS. CONSULT AN INDUSTRIAL HYGIENIST OR SIMILAR PROFESSIONAL, OR YOUR LOCAL AGENCIES, FOR FURTHER INFORMATION.

1% = 10,000 PPM.

NE = NOT ESTABLISHED

------3. HAZARDS IDENTIFICATION ------

POTENTIAL HEALTH EFFECTS:

EYE:
CONTACT MAY CAUSE MILD EYE IRRITATION INCLUDING STINGING, WATERING, AND REDNESS.

SKIN:
CONTACT MAY CAUSE MILD SKIN IRRITATION INCLUDING REDNESS, AND A BURNING SENSATION. PROLONGED OR REPEATED CONTACT CAN WORSEN IRRITATION BY CAUSING DRYING AND CRACKING OF THE SKIN LEADING TO DERMATITIS (INFLAMMATION). NO HARMFUL EFFECTS FROM SKIN ABSORPTION ARE EXPECTED.

INHALATION (BREATHING):
EXPECTED TO HAVE A LOW DEGREE OF TOXICITY BY INHALATION.

INGESTION (SWALLOWING): LOW DEGREE OF TOXICITY BY INGESTION.

ASPIRATION HAZARD:
THIS MATERIAL CAN ENTER LUNGS DURING SWALLOWING OR VOMITING AND CAUSE LUNG INFLAMMATION AND DAMAGE.

SIGNS AND SYMPTOMS:
EFFECTS OF OVEREXPOSURE MAY INCLUDE IRRITATION OF THE RESPIRATORY TRACT, IRRITATION OF THE DIGESTIVE TRACT, NAUSEA, VOMITING, TRANSIENT EXCITATION FOLLOWED BY SIGNS OF NERVOUS SYSTEM DEPRESSION (E.G., HEADACHE, DROWSINESS, DIZZINESS, LOSS OF COORDINATION, DISORIENTATION AND FATIGUE).

CANCER:
THERE IS INADEQUATE INFORMATION TO EVALUATE THE CANCER HAZARD OF THIS MATERIAL. SEE SECTION 11 FOR INFORMATION ON THE INDIVIDUAL COMPONENTS, IF ANY.

TARGET ORGANS: INADEQUATE DATA AVAILABLE FOR THIS MATERIAL.

DEVELOPMENTAL: INADEQUATE DATA AVAILABLE FOR THIS MATERIAL.

PRE-EXISTING MEDICAL CONDITIONS:
CONDITIONS AGGRAVATED BY EXPOSURE MAY INCLUDE SKIN DISORDERS.

------4. FIRST AID MEASURES ------

EYE:
IF IRRITATION OR REDNESS DEVELOPS, MOVE VICTIM AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES WITH CLEAN WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

SKIN:
WIPE MATERIAL FROM SKIN AND REMOVE CONTAMINATED SHOES AND CLOTHING. CLEANSE AFFECTED AREA(S) THOROUGHLY BY WASHING WITH MILD SOAP AND WATER AND, IF NECESSARY, A WATERLESS SKIN CLEANSER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

INHALATION (BREATHING):
IF RESPIRATORY SYMPTOMS DEVELOP, MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, CLEAR AIRWAY AND IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION (SWALLOWING):

ASPIRATION HAZARD:
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. IF VICTIM IS DROWSY OR UNCONSCIOUS AND VOMITING, PLACE ON THE LEFT SIDE WITH THE HEAD DOWN. IF POSSIBLE, DO NOT LEAVE VICTIM UNATTENDED AND OBSERVE CLOSELY FOR ADEQUACY OF BREATHING. SEEK MEDICAL ATTENTION.

------5. FIRE-FIGHTING MEASURES ------

FLAMMABLE PROPERTIES:

FLASH POINT: 170 DEG. F/77 DEG. C
TEST METHOD: PENSKY-MARTENS CLOSED CUP (PMCC), ASTM D93, EPA 1010

OSHA FLAMMABILITY CLASS: COMBUSTIBLE LIQUID

LEL (VOL % IN AIR): 1.0
UEL (VOL % IN AIR): 6.0

AUTOIGNITION TEMPERATURE: NO DATA

UNUSUAL FIRE & EXPLOSION HAZARDS:
THIS MATERIAL IS COMBUSTIBLE AND CAN BE IGNITED BY HEAT, SPARKS, FLAMES, OR OTHER SOURCES OF IGNITION (E.G., STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT). MAY CREATE VAPOR/AIR EXPLOSION HAZARD IF HEATED. IF CONTAINER IS NOT PROPERLY COOLED, IT CAN RUPTURE IN THE HEAT OF A FIRE. VAPORS ARE HEAVIER THAN AIR AND CAN ACCUMULATE IN LOW AREAS.

EXTINGUISHING MEDIA:
DRY CHEMICAL, CARBON DIOXIDE, FOAM, OR WATER SPRAY IS RECOMMENDED. WATER OR FOAM MAY CAUSE FROTHING OF MATERIALS HEATED ABOVE 212 DEG. F. CARBON DIOXIDE CAN DISPLACE OXYGEN. USE CAUTION WHEN APPLYING CARBON DIOXIDE IN CONFINED SPACES.

FIRE FIGHTING INSTRUCTIONS:
FOR FIRES BEYOND THE INCIPIENT STAGE, EMERGENCY RESPONDERS IN THE IMMEDIATE HAZARD AREA SHOULD WEAR BUNKER GEAR. WHEN THE POTENTIAL CHEMICAL HAZARD IS UNKNOWN, IN ENCLOSED OR CONFINED SPACES, OR WHEN EXPLICITLY REQUIRED BY DOT, A SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN. IN ADDITION, WEAR OTHER APPROPRIATE PROTECTIVE EQUIPMENT AS CONDITIONS WARRANT (SEE SECTION 8).

ISOLATE IMMEDIATE HAZARD AREA, KEEP UNAUTHORIZED PERSONNEL OUT.
STOP SPILL/RELEASE IF IT CAN BE DONE WITH MINIMAL RISK. MOVE UNDAMAGED CONTAINERS FROM IMMEDIATE HAZARD AREA IF IT CAN BE DONE WITH MINIMAL RISK.

WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND TO PROTECT PERSONNEL. COOL EQUIPMENT EXPOSED TO FIRE WITH WATER, IF IT CAN BE DONE WITH MINIMAL RISK. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

------6. ACCIDENTAL RELEASE MEASURES ------

COMBUSTIBLE. KEEP ALL SOURCES OF IGNITION AWAY FROM SPILL/RELEASE. THE USE OF EXPLOSION-PROOF ELECTRICAL EQUIPMENT IS RECOMMENDED.

STAY UPWIND AND AWAY FROM SPILL/RELEASE. NOTIFY PERSONS DOWN WIND OF THE SPILL/RELEASE, ISOLATE IMMEDIATE HAZARD AREA AND KEEP UNAUTHORIZED PERSONNEL OUT. STOP SPILL/RELEASE IF IT CAN BE DONE WITH MINIMAL RISK. WEAR APPROPRIATE PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY PROTECTION, AS CONDITIONS WARRANT (SEE SECTION 8).

PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, STORM DRAINS, OTHER UNAUTHORIZED DRAINAGE SYSTEMS, AND NATURAL WATERWAYS. DIKE FAR AHEAD OF SPILL FOR LATER RECOVERY OR DISPOSAL. SPILLED MATERIAL MAY BE ABSORBED INTO AN APPROPRIATE ABSORBENT MATERIAL. NOTIFY FIRE AUTHORITIES AND APPROPRIATE FEDERAL, STATE, AND LOCAL AGENCIES. IMMEDIATE CLEANUP OF ANY SPILL IS RECOMMENDED.

------7. HANDLING AND STORAGE ------

HANDLING:
OPEN CONTAINER SLOWLY TO RELIEVE ANY PRESSURE. BOND AND GROUND ALL EQUIPMENT WHEN TRANSFERRING FROM ONE VESSEL TO ANOTHER. CAN ACCUMULATE STATIC CHARGE BY FLOW OR AGITATION. CAN BE IGNITED BY STATIC DISCHARGE. THE USE OF EXPLOSION-PROOF ELECTRICAL EQUIPMENT IS RECOMMENDED AND MAY BE REQUIRED (SEE APPROPRIATE FIRE CODES). REFER TO NFPA-704 AND/OR API RP 2003 FOR SPECIFIC BONDING/GROUNDING REQUIREMENTS. DO NOT ENTER CONFINED SPACES SUCH AS TANKS OR PITS WITHOUT FOLLOWING PROPER ENTRY PROCEDURES SUCH AS ASTM D-4276 AND 29 CFR 1910.146. THE USE OF APPROPRIATE RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED ANY ESTABLISHED EXPOSURE LIMITS (SEE SECTIONS 2 AND 8).

DO NOT WEAR CONTAMINATED CLOTHING OR SHOES. KEEP CONTAMINATED CLOTHING AWAY FROM SOURCES OF IGNITION SUCH AS SPARKS OR OPEN FLAMES. USE GOOD PERSONAL HYGIENE PRACTICES.

"EMPTY" CONTAINERS RETAIN RESIDUE AND MAY BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. "EMPTY" DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED, AND PROMPTLY SHIPPED TO THE SUPPLIER OR A DRUM RECONDITIONER. ALL CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS.

BEFORE WORKING ON OR IN TANKS WHICH CONTAIN OR HAVE CONTAINED THIS MATERIAL, REFER TO OSHA REGULATIONS, ANSI Z49.1, AND OTHER REFERENCES PERTAINING TO CLEANING, REPAIRING, WELDING, OR OTHER CONTEMPLATED OPERATIONS.

STORAGE:
KEEP CONTAINER(S) TIGHTLY CLOSED. USE AND STORE THIS MATERIAL IN COOL, DRY, WELL-VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. POST AREA "NO SMOKING OR OPEN FLAME." STORE ONLY IN APPROVED CONTAINERS. KEEP AWAY FROM ANY INCOMPATIBLE MATERIAL (SEE SECTION 10). PROTECT CONTAINER(S) AGAINST PHYSICAL DAMAGE. OUTDOOR OR DETACHED STORAGE IS PREFERRED. INDOOR STORAGE SHOULD MEET OSHA STANDARDS AND APPROPRIATE FIRE CODES. KEEP AWAY FROM ANY INCOMPATIBLE MATERIAL (SEE SECTION 10). PROTECT CONTAINER(S) AGAINST PHYSICAL DAMAGE. OUTDOOR OR DETACHED STORAGE IS PREFERRED. INDOOR STORAGE SHOULD MEET OSHA STANDARDS AND APPROPRIATE FIRE CODES.

------8. EXPOSURE CONTROLS / PERSONAL PROTECTION ------

ENGINEERING CONTROLS:
IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION 2),

ADDITIONAL ENGINEERING CONTROLS MAY BE REQUIRED. WHERE EXPLOSIVE MIXTURES MAY BE PRESENT, ELECTRICAL SYSTEMS SAFE FOR SUCH LOCATIONS MUST BE USED (SEE APPROPRIATE ELECTRICAL CODES).

PERSONAL PROTECTIVE EQUIPMENT (PPE):

RESPIRATORY:
THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS ARE EXPECTED TO EXCEED THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION 2). DEPENDING ON THE AIRBORNE CONCENTRATION, USE A RESPIRATOR WITH ORGANIC VAPOR CARTRIDGES (NIOSH CERTIFIED) OR SUPPLIED-AIR EQUIPMENT.

SKIN:
THE USE OF NITRILE GLOVES IMPERVIOUS TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT, POSSIBLE IRRITATION, AND SKIN DAMAGE (SEE GLOVE MANUFACTURER LITERATURE FOR INFORMATION ON PERMEABILITY). DEPENDING ON CONDITIONS OF USE, NITRILE APRON AND/OR ARM COVERS MAY BE NECESSARY.

EYE/FACE:
APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION, OR INJURY IS RECOMMENDED. DEPENDING ON CONDITIONS OF USE, A FACE SHIELD MAY BE NECESSARY.

OTHER PROTECTIVE EQUIPMENT:
A SOURCE OF CLEAN WATER SHOULD BE AVAILABLE IN THE WORK AREA FOR FLUSHING EYES AND SKIN. IMPERVIOUS CLOTHING SHOULD BE WORN AS NEEDED.

SUGGESTIONS FOR THE USE OF SPECIFIC PROTECTIVE MATERIALS ARE BASED ON READILY AVAILABLE PUBLISHED DATA. USERS SHOULD CHECK WITH SPECIFIC MANUFACTURERS TO CONFIRM THE PERFORMANCE OF THEIR PRODUCTS.

------9. PHYSICAL AND CHEMICAL PROPERTIES ------

NOTE:
UNLESS OTHERWISE STATED, VALUES ARE DETERMINED AT 20 DEG. C (68 DEG. F) AND 760 MMHg (1 ATM).

APPEARANCE: CLEAR, COLORLESS

PHYSICAL FORM: LIQUID

ODOR: NEGLIGIBLE

ODOR THRESHOLD: NO DATA

pH: NOT APPLICABLE

VAPOR PRESSURE (MMHg): <0.5 @ 68 DEG. F / 20 DEG. C

VAPOR DENSITY (AIR=1): 6.2

BOILING POINT/RANGE: 370-470 DEG. F (187.8-243.3 DEG. C)

MELTING/FREEZING POINT: NOT APPLICABLE

SOLUBILITY IN WATER: INSOLUBLE

SOLUBILITY IN OTHER SOLVENTS: SOLUBLE IN HYDROCARBONS

PARTITION COEFFICIENT (n-OCTANOL/WATER) (KOW): NO DATA

SPECIFIC GRAVITY: 0.80-0.82

EVAPORATION RATE (nBuAc=1): NO DATA

FLASH POINT: 170 DEG. F/77 DEG. C
TEST METHOD: PENSKY-MARTENS CLOSED CUP (PMCC), ASTM D93, EPA 1010

LEL (VOL % IN AIR): 1.0
UEL (VOL % IN AIR): 6.0

AUTOIGNITION TEMPERATURE: NO DATA

DECOMPOSITION TEMPERATURE: NO DATA

------10. STABILITY AND REACTIVITY ------

STABILITY:
STABLE UNDER NORMAL AMBIENT AND ANTICIPATED STORAGE AND HANDLING CONDITIONS OF TEMPERATURE AND PRESSURE.

CONDITIONS TO AVOID:
AVOID ALL POSSIBLE SOURCES OF IGNITION (SEE SECTIONS 5 AND 7).

MATERIALS TO AVOID (INCOMPATIBLE MATERIALS):
AVOID CONTACT WITH STRONG OXIDIZING AGENTS, STRONG REDUCING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:
COMBUSTION CAN YIELD CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

------11. TOXICOLOGICAL INFORMATION ------

CHRONIC DATA:

HYDROTREATED DISTILLATE, LIGHT ..C9-16 64742-47-8:

CARCINOGENICITY:
PROLONGED AND REPEATED SKIN EXPOSURE OF MICE TO CERTAIN MIDDLE DISTILLATE STREAMS HAS RESULTED IN DERMATITIS, WHICH HAS BEEN ASSOCIATED WITH THE PROMOTION OF SKIN TUMORS VIA A NON-GENOTOXIC MECHANISM. THIS MATERIAL HAS NOT BEEN IDENTIFIED AS A CARCINOGEN BY NTP, IARC, OR OSHA.

ACUTE DATA:

HYDROTREATED DISTILLATE, LIGHT ..C9-16 64742-47-8:
DERMAL LD50 = >2 G/KG (RABBIT) (BASED ON SIMILAR MATERIAL)
INHALATION LC50 = >5 MG/L (4-HR., RAT) (BASED ON SIMILAR MATERIAL)
ORAL LD50 = >5 G/KG (RAT) (BASED ON SIMILAR MATERIAL)

------12. ECOLOGICAL INFORMATION ------

NOT EVALUATED.

------13. DISPOSAL CONSIDERATIONS ------

THIS MATERIAL, IF DISCARDED AS PRODUCED, WOULD BE A RCRA "CHARACTERISTIC" HAZARDOUS WASTE DUE TO THE CHARACTERISTIC(S) OF IGNITABILITY (D001). IF THE SPILLED OR RELEASED MATERIAL IMPACTS SOIL, WATER, OR OTHER MEDIA, CHARACTERISTIC TESTING OF THE CONTAMINATED MATERIALS MAY BE REQUIRED PRIOR TO THEIR DISPOSAL. FURTHER, THIS MATERIAL, ONCE IT BECOMES A WASTE, IS SUBJECT TO THE LAND DISPOSAL RESTRICTIONS IN 40 CFR 268.40 AND MAY REQUIRE TREATMENT PRIOR TO DISPOSAL TO MEET SPECIFIC STANDARDS. CONSULT STATE AND LOCAL REGULATIONS TO DETERMINE WHETHER THEY ARE MORE STRINGENT THAN THE FEDERAL REQUIREMENTS.

CONTAINER CONTENTS SHOULD BE COMPLETELY USED AND CONTAINERS SHOULD BE EMPTIED PRIOR TO DISCARD. CONTAINER RINSATE COULD BE CONSIDERED A RCRA HAZARDOUS WASTE AND MUST BE DISPOSED OF WITH CARE AND IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. LARGER EMPTY CONTAINERS, SUCH AS DRUMS, SHOULD BE RETURNED TO THE DISTRIBUTOR OR TO A DRUM RECONDITIONER. TO ASSURE PROPER DISPOSAL OF SMALLER EMPTY CONTAINERS, CONSULT WITH STATE AND LOCAL REGULATIONS AND DISPOSAL AUTHORITIES.

------14. TRANSPORTATION INFORMATION ------

U.S. DEPARTMENT OF TRANSPORTATION (DOT):

SHIPPING DESCRIPTION:
PETROLEUM DISTILLATES, N.O.S., COMBUSTIBLE LIQUID, UN1268, III (BULK ONLY)

BULK PACKAGE/PLACARD MARKING: COMBUSTIBLE/1268

NON-BULK PACKAGE MARKING: NOT REGULATED (173.150 (F) (2))

NON-BULK PACKAGE LABELING: NOT REGULATED (173.150 (F) (2))

PACKAGING - REFERENCES (EXCEPTIONS, NON-BULK, BULK):
NONE, NONE, 49 CFR 173.241

HAZARDOUS SUBSTANCE: NONE

EMERGENCY RESPONSE GUIDE: 128

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG):

SHIPPING DESCRIPTION: NOT REGULATED. FLASH POINT IS ABOVE 61 DEG. C, CC.
NOTE: FEDERAL COMPLIANCE REQUIREMENTS MAY APPLY. SEE 49 CFR 171.12.

INTERNATIONAL CIVIL AVIATION ORG. / INTERNATIONAL AIR TRANSPORT ASSOC. (ICAO/IATA):
UN/ID #: NOT REGULATED. FLASH POINT IS ABOVE 61 DEG. C, CC.
NOTE: FEDERAL COMPLIANCE REQUIREMENTS MAY APPLY. SEE 49 CFR 171.11.

------15. REGULATORY INFORMATION ------

U.S. REGULATIONS:

CERCLA/SARA - SECTION 311/312 (TITLE III HAZARD CATEGORIES):
ACUTE HEALTH: NO
CHRONIC HEALTH: NO
FIRE HAZARD: YES
PRESSURE HAZARD: NO
REACTIVE HAZARD: NO

CERCLA/SARA - SECTION 313 AND 40 CFR 372:
THIS MATERIAL CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 313 AND 40 CFR 372: NONE KNOWN

EPA (CERCLA) REPORTABLE QUANTITY (IN POUNDS): NONE KNOWN

CERCLA/SARA - SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES AND TPQS (IN POUNDS):

THIS MATERIAL CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 302 AND 40 CFR 372: NONE KNOWN

CALIFORNIA PROPOSITION 65:

WARNING:

THIS MATERIAL MAY CONTAIN THE FOLLOWING CHEMICALS WHICH ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM, AND ARE SUBJECT TO THE REQUIREMENTS OF CALIFORNIA PROPOSITION 65 (CA HEALTH & SAFETY CODE SECTION 25249.5): NONE KNOWN

CARCINOGEN IDENTIFICATION:
THIS MATERIAL HAS NOT BEEN IDENTIFIED AS A CARCINOGEN BY NTP, IARC, OR OSHA.
SEE SECTION 11 FOR CARCINOGENICITY INFORMATION OF INDIVIDUAL COMPONENTS, IF ANY.

TSCA: ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.

INTERNATIONAL REGULATIONS:

CANADIAN REGULATIONS:
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

DOMESTIC SUBSTANCES LIST: LISTED

WHMIS HAZARD CLASS:
B3 - COMBUSTIBLE LIQUIDS

INTERNATIONAL INVENTORIES:
AUSTRALIA (AICS)
CANADA (DSL)
CHINA
EUROPE (EINECS)
JAPAN (ENCS)
KOREA (ECL)
PHILIPPINES (PICCS)

EXPORT CONTROL CLASSIFICATION NUMBER: EAR99

------16. OTHER INFORMATION ------

ISSUE DATE: 02-AUG-2006

PREVIOUS ISSUE DATE: 06-APR-2001

REVISED SECTIONS OR BASIS FOR REVISION: PERIODIC REVIEW AND UPDATE

MSDS CODE: 776576

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Published Studies and Journals

EMISSION FACTOR DEVELOPMENT REPORT

Griffith Energy, LLC > Kingman, Arizona

Development of Pond Evaporation System Site-Specific Emission Factors

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Project 140301.0106

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1. EXECUTIVE SUMMARY

Griffith Energy is proposing the development of site-specific emission factors for the Turbo-Mister evaporative water spray system and its nozzles for use in future permitting activities. A development protocol was proposed and submitted to the ADEQ on February 16, 2015 and approved on March 04, 2015. The protocol discussed a method for assessing and developing site-specific Particulate Matter ($PM_{2.5}$ and PM_{10}) emission factors for the Turbo-Mister spray system using a combination of ambient monitoring and air dispersion modeling. Operation of the Turbo-Mister evaporative water spray system during the proposed study period was authorized via the 90 day trial authorization notification of the Facility Change without a Permit Revision - LTF No. 61152, dated September 11, 2014.

Griffith Energy, LLC (Griffith Energy) operates the Griffith Energy Power Plant (GEPP) located in Mohave County, Arizona. The GEPP is a major stationary source of air emissions and is subject to the Prevention of Significant Deterioration (PSD) and Title V programs under the Clean Air Act (CAA). As a result, GEPP has been issued a Class I air quality permit (number 53024) by the Arizona Department of Environmental Quality (ADEQ).

This report presents the methodology employed during the emission factor development study for both the onsite measurements and the subsequent data analysis and modeling. The Turbo-Mister was equipped with three nozzle types and each nozzle was tested under varying atmospheric conditions. Griffith Energy is proposing to use this study to identify a nozzle configuration and use the derived emission factor to support PM emission calculations for future permit applications.

Griffith Energy is considering the installation and operation of a Turbo-Mister evaporative water spray system on the evaporation pond at the GEPP. Because the pond water contains dissolved solids, the evaporation of water from droplets may result in the formation of PM.

The Turbo-Mister PM emission rate is proportional to the total dissolved solids (TDS) content of the wastewater, droplet mist (dependent on both the Turbo-Mister operational conditions and the ambient meteorology) that escapes the boundary of the pond, and the PM that is entrained and advected in the ambient air. Currently, there are no readily available emission factors that can be applied to the specific situation at GEPP. Therefore, Griffith Energy performed a custom designed, site and source specific concentration analysis using monitored ambient PM concentration to develop representative PM emission factors for the Turbo-Mister.

2.1. FACILITY DESCRIPTION

Griffith Energy operates the Griffith Energy Power Plant (GEPP), a 570 MW natural gas fired electricity generating plant located on 160 acres of land in Mohave County, Arizona. The GEPP is located in western Arizona, about 16 km south west of Kingman, Arizona. The GEPP is a major stationary source of air emissions and is subject to Prevention of Significant Deterioration (PSD) and Title V programs under the Clean Air Act (CAA). As a result, GEPP has been issued a Class I air quality permit (Number 53024) by the Arizona Department of Environmental Quality (ADEQ).

Griffith Energy is considering the installation and operation of an additional Turbo-Mister evaporative water spray system (Model #S30FP) on the evaporation pond at the GEPP. The existing evaporation pond is used to process facility wastewater from the cooling tower blowdown as well as other sources. The facility has an ADEQ Aquifer Protection Permit (APP), which requires that the facility maintain a minimum freeboard in the pond to ensure that it does not overflow. Griffith Energy currently operates a Turbo-Mister (Model #S30FP) at the GEPP evaporation pond (authorized via ADEQ Permit revision number 56064 dated August 23, 2012). The proposed Turbo-Mister evaporative water spray system will operate in conjunction with the existing Turbo-Mister and will be designed to enhance the existing natural evaporation in the pond to assist with the reduction of the pond level to maintain the minimum freeboard. The spray system will generate solution droplets which evaporate to form Particulate Matter (PM).

The evaporation pond is located on the west side of the facility and has an area of approximately 24 acres. The Turbo-Mister is located in the center of the pond as shown in Figure 1.

Figure 1. Overview of the evaporation pond and location of the meteorological tower and Turbo-Mister.



2.2. TURBO-MISTER OPERATIONAL CONDITIONS

The Turbo-Mister (Model #S30FP) is designed to operate with a nozzle ring discharge pressure of 150 psi, which produces a spray pattern (under calm wind conditions) with the following dimensions:

- Length = approximately 55 meters
- Height = approximately 18 meters
- Width = approximately 4.5 meters

The wind speed and orientation of the Turbo-Mister has a strong impact on the spray pattern of the nozzles. Figure 2 shows the variation in spray pattern under calm wind events (Left image) and a windy event ~ 5 m/s (right image). As the images show under calm wind conditions the plume from the Turbo-Mister is a more uniform jet that can be perpendicular to the wind direction. However, during windy conditions the mist forms a well-defined plume in the same direction as the wind.

Figure 2. Spray pattern of Turbo-Mister during calm (left) and windy (~5m/s) (right) events.



The total volumetric throughput of the Turbo-Mister is approximately 80 gallons per minute (gpm)[1] and will generate evaporation rates that are dependent on temperature, relative humidity and altitude. The Turbo-Mister was fitted with three different BETE nozzles throughout the monitoring study:

- BETE – TF6M at 150 psi;
- BETE – TF10M at 150 psi; and
- BETE – TF14M at 150 psi.

The properties of each nozzle type, specifically the orifice diameter determines the emitted droplet volume distribution of the atomized evaporation pond water. The impact concentrations of the Turbo-Mister emissions were measured for each nozzle type.

Each nozzle was installed in the Turbo-Mister and operated for approximately three days while measurements of the emissions were collected, the intervals of operation for each nozzle are shown in Table 1 for reference. The three day period allowed sufficient time to capture the variation in ambient meteorological conditions and concentrations of PM. The change-over of nozzle types typically took 2.5 hours during which the Turbo-Mister was de-energized and the PM monitors were calibrated and allowed to measure background PM concentrations.

Table 1. Operational times of each nozzle type.

Local Date & Time	Nozzle	Notes
5/19/2015 11:03	TF6M	Initial Startup of Measurments
5/22/2015 11:15	TF6M	Turbo-Mister De-Energized - Clear Air
5/22/2015 13:30	TF10M	New Nozzles Installed - Turbo-Mister Re-Energized/Running in Steady State
5/25/2015 9:30	TF10M	Turbo-Mister De-Energized - Clear Air
5/25/2015 12:00	TF14M	New Nozzles Installed - Turbo-Mister Re-Energized/Running in Steady State
5/28/2015 8:34	TF14M	End of Project

The Turbo-Mister is located near the center of the evaporation pond at UTM coordinates of zone 11, 761119.0 m E, 3882711.0 m N (see Figure 1).

[1] S30FP – Single Float Model Manufacturer Specifications, Slimline Manufacturing Ltd.

The main purpose of this study was to develop a throughput based PM emission factor for a wastewater evaporation pond Turbo-Mister system at GEPP. The objective was achieved in two main steps:

- Step 1: Ambient monitoring of the onsite Turbo-Mister generated PM concentrations *in situ*.
- Step 2: Data analysis and dispersion modeling to back-calculate emission rates based on the ambient monitoring concentrations.

The methodologies used to complete both of these steps are discussed below.

3.1. AMBIENT MONITORING METHODOLOGY

3.1.1. PM Instrumentation

For this study optical light scattering instrumentation was used to determine the mass concentration of PM in near real-time. This method was utilized to allow the collection of the maximum amount of data within the observation period without the need for dozens of filter samples or extending the observation period out to several months. The use of optical light scattering instrumentation instead of gravimetric filter methods improves the resolution of the measurement time scale from on the order of several hours to a few minutes. In addition, the use of optical light scattering instrumentation allowed for the instruments to be relocated depending on the wind direction and plume characteristics without contaminating/compromising or interrupting the current filter sample.

The Optical light scattering Particle Counters (OPCs) used in the Griffith Energy study were TSI DustTrack Aerosol Monitors (Model: 8520). These instruments provide a linear response for the measured aerosol mass concentration as a function of the amount of light scattered by the sampled aerosol inside the instrument[2], and have been used in similar emission factor determination studies in the past[3]. The DustTrack instruments can detect aerosol particles larger than 0.1 µm in diameter and have a concentration range from 0.001 to 100 milligrams per cubic meter (mg/m^3) (calibrated to the respirable fraction of standards ISO 12103-1, A1 test dust). Each of the DustTrack monitors were mounted inside a Pelican Case environmental enclosure situated on top of a surveying tripod. The enclosure has a specifically designed capped impactor sampling inlet with built-in water trap to capture any liquid droplets entering the instrument prior to detection.

The DustTrack monitors have been extensively compared to gravimetric sampling methods including the U.S. EPA designated Federal Reference Method (FRM) under differing aerosol loading events[4,5,6]. These case studies show that $PM_{2.5}$ concentration measurements made by the DustTrack were well correlated to the gravimetric sampling methods typically with R^2 values > 0.85 indicating that measurements made using a DustTrack instrument provide an accurate measurement of PM.

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[2] Per TSI, DustTrack Aerosol Monitor Theory of Operation, Application Note ITI-036 Rev. B (08/28/12), (2012).

[3] The TSI DustTrack Aerosol Monitors were successfully used in New Mexico for a mechanical evaporator under similar circumstances. The resulting emission factor was approved by the New Mexico Environmental Department (NMED) for use in Title V and New Source Review (NSR) permit applications and was recently applied in NMED NSR Permit Number 0633-M11R7.

[4] Per Kim, Jee Young; Magari, Shannon R.; Herrick, Robert F.; Smith, Thomas J.; Christiani, David C., Comparison of Fine Particle Measurements from a Direct-Reading Instrument and a Gravimetric Sampling Method. Journal of Occupational and Environmental Hygiene, 1: 707–715 (2004).

[5] Per MacIntosh, David L.; Williams, Phillip L.; Yanosky, Jeff D., A comparison of two direct-reading aerosol monitors with the federal reference method for PM2.5 in indoor air. Atmos. Environ. Vol. 36 (1), pg. 107-113 (2002).

[6] Per Lehocky, A., and Williams, P. L., Comparison of respirable samplers to direct-reading real-time aerosol monitors for measuring coal dust. American Industrial Hygiene Assoc. Journal, Vol. 57, pg. 1013-1018 (1996).

Four identical DustTrack monitors were used in this study. Each monitor measured either $PM_{2.5}$ or PM_{10} depending on the inlet impactor plate used[7]. To undertake sampling at the GEPP the four DustTrack instruments were configured into two pairs of $PM_{2.5}$ and PM_{10} monitors. With one pair of instruments sited upwind and the second pair downwind of the Turbo-Mister to provide measurements of $PM_{2.5}$ and PM_{10} at both locations (discussed more in Section 3.1.3 Ambient Monitoring Methodology).

3.1.2. Meteorological Instrumentation

In addition to PM instrumentation, a meteorological tower was also setup to measure the meteorological conditions under which the sampling was taking place. The meteorological tower was equipped with the following instruments:

- RM Young AQ 05305-5 propeller anemometer to measure wind speed and direction;
- RM Young 107 platinum resistance temperature probe to measure the ambient temperature; and
- MetOne 83C relative humidity sensor to measure the dew point temperature and relative humidity.

Both the temperature and relative humidity probes were mounted inside aspirated solar radiation shields. The instruments were all connected to a Campbell Scientific CR-1000 data logger set to collect 15-minute average data, mounted inside an environmental enclosure. The meteorological tower was located on a berm on the east side of the pond at the following UTM coordinates Zone 11, 761269.8 m E, 3882709.4 m N, approximately 150 m east of the Turbo-Mister (see Figure 1). As the tower was located on the eastern berm of the pond, the instruments on the tower are elevated from the pond surface and Turbo-Mister nozzle, the relative heights of the meteorological instruments are shown in Table 2 for reference.

Table 2. Relative height of meteorological instruments.

	Relative height (m) of instrument above:		
Instrument	Berm	Pond	Turbo-Mister Nozzle
Anemometer	5.14	11.2	8.8
Temperature	2.0	8.1	5.7
Relative Humidity	2.0	8.1	5.7

3.1.3. Ambient Monitoring Methodology

The methodology discussed in this section was custom designed to measure the PM concentrations from the Turbo-Mister emissions at the GEPP.

The meteorological tower was installed approximately 150 meters due east of the Turbo-Mister on the eastern edge of the evaporation pond. The four DustTrack PM monitors were paired to have both a $PM_{2.5}$ and PM_{10} monitor at two locations, these locations were not static. One pair of instruments was located upwind of the Turbo-Mister and the other pair was sited downwind of the Turbo-Mister. During the measurement period the upwind and downwind monitors were positioned at various distances and locations to match the prevailing wind direction based on the visible plume direction from the Turbo-Mister and direction of the anemometer. The potential locations of the PM monitors were somewhat restricted due to the availability of land around the evaporation pond and the monitors were often located as close to the pond edge as possible. Whenever the instruments were relocated due to a change in the ambient wind pattern, the new locations were logged using a Garmin Astro 320

[7] Per TSI, Model 8520 DustTrack Aerosol Monitor. Operation and Service Manual. 1980198, Revision S, June 2010, (2010).

GPS unit. It is assumed that any PM particles or droplets emitted from the Turbo-Mister which deposit back into the evaporation pond are considered part of the process and are not measured by the PM monitors.

At the start of each day the instruments were calibrated using filtered air to check for consistency between all instruments, in addition the flow rate of each instrument was also checked and calibrated to ensure correct operation of the DustTrack instruments. The DustTrack instruments were set to log 1-minute average concentration samples which were post processed to produce data sets to match the time periods of the 15-minute meteorological data. The 15-minute sampling frequency provides very good temporal resolution to match the short-term variation in the prevailing wind speed and direction.

A cross-calibration of the four PM instruments was conducted at the start and end of the field measurement period to ensure all instruments reported similar concentrations under the same PM loading conditions.

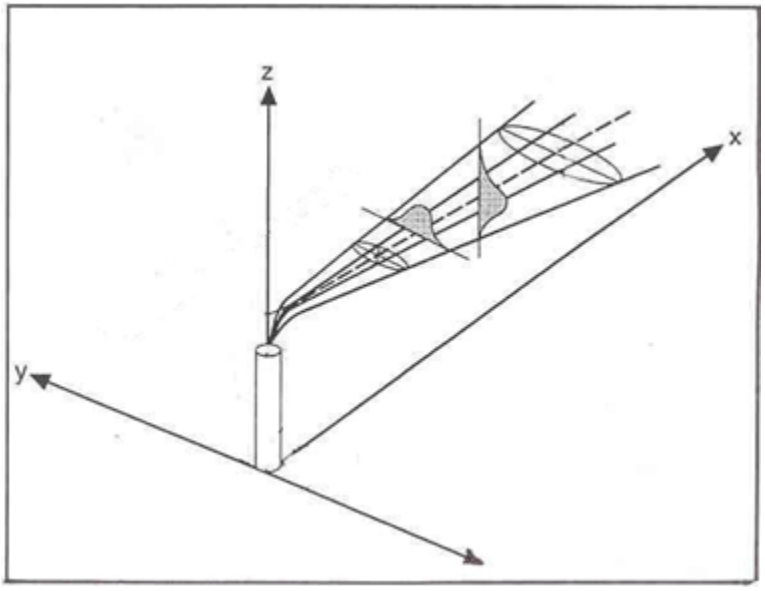
3.2. DATA ANALYSIS AND MODELING

The data analysis is comprised of two parts:

- Analyzing the data by: applying cross-calibration correction factors; filtering the collected PM data based on the wind sector; producing a concentration profile associated with the Turbo-Mister based on the ambient meteorology.
- Using the PM concentrations associated with the Turbo-Mister to back-calculate the emission factor using air dispersion modeling.

Most dispersion models are based on the Gaussian distribution where the concentration profile through the plume has the shape of a normal bell curve in both vertical and horizontal directions[8]. For the purpose of this analysis, it is assumed that the Turbo-Mister plume will follow a typical Gaussian plume model such as that presented in Figure 3.

Figure 3. Gaussian Plume Distribution.



[8] The Practical Guide to Atmospheric Air Dispersion Modeling, Turner and Schulze, 2007.

3.2.1. Data Analysis

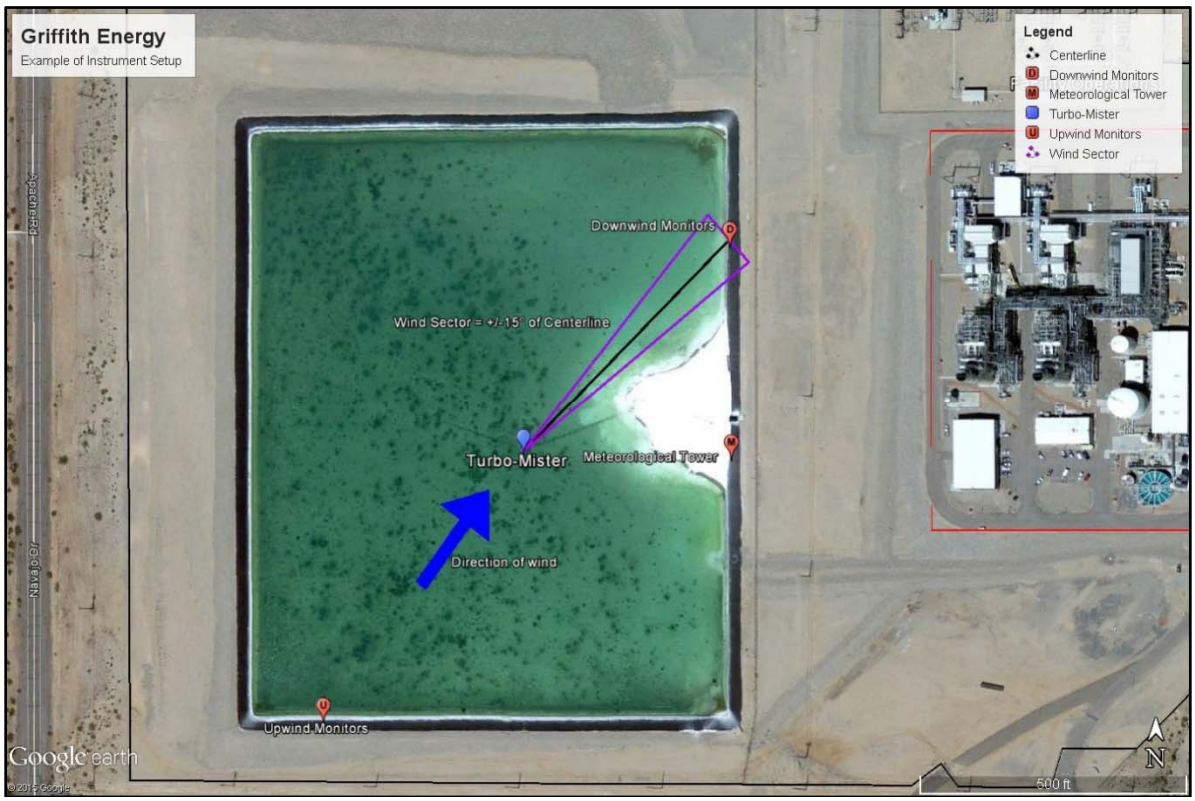
The data collected during the field measurements were analyzed on site to ensure that enough data, under varying ambient conditions for each nozzle type, was being collected. After completion of the field study the data was further analyzed and filtered to produce inputs for the emission factor back-calculation models (see Section 3.2.2 Emission Factor Modeling).

After the field measurements were completed all of the observations from the four PM monitors and meteorological data were synchronized to provide 15-minute resolution data. The 15-minute data was then correlated with the corresponding GPS coordinates of the monitor locations. In addition, the PM monitor data was corrected by the cross-calibration correction factors based on the collocated (same sample air) measurements of the instruments.

The next stage of the analysis was a wind sector analysis to ensure the sampled data was collected within the Gaussian plume distribution of the Turbo-Mister. It was assumed that the Turbo-Mister plume distribution can be contained within a ±15° sector around the plume centerline in the downwind direction. The plume centerline is assumed to be the average wind direction during the 15-minute sampling interval. Once a wind sector is defined the location/bearing of the downwind PM monitors are assessed to determine if the monitors are located within the wind sector during the sample period. All of the data from the field measurements are filtered using the wind sector analysis and if the PM monitor location is found to be within the wind sector the data is retained for the next stage of analysis. If the wind direction is outside of the PM monitor wind sector then the measurements are assumed to be not influenced by the Turbo-Mister and are eliminated from the remainder of the analysis. A graphical example of the downwind wind sector analysis is provided in Figure 4.

The final stage of the data analysis corrects the samples which are found to be within the wind sector, by removing any background PM concentrations from the ambient air as measured by the upwind monitors. The subsequent corrected data isolates only the PM concentration contribution associated with the Turbo-Mister emissions.

Figure 4. Example of a wind sector analysis.



3.2.2. Emission Factor Modeling

The primary objective of the air dispersion modeling analysis is to back-calculate the emission factors for $PM_{2.5}$ and PM_{10} from the Turbo-Mister. Air dispersion models utilize mathematical formulations to characterize the atmospheric processes and its effect on the fate and transport of a pollutant emitted from a source. The ambient concentration of a pollutant is calculated as a function of dispersion parameters such as the ambient meteorology, emission rate, and distance of the receptor from the source. For a set of meteorological conditions the predicted concentration at a specific downwind distance is directly proportional to the emission rate.

The most recent version of AERSCREEN model (v1.6.1.0) was used in this study to back-calculate the emission factors. AERSCREEN is an EPA approved single source Gaussian plume model which provides maximum ground-level concentrations for point, flare, area and volume sources. The modeling was conducted in accordance with applicable EPA guidance documents[9].

The air dispersion model was configured using several standardized inputs for AERSCREEN and multiple custom inputs specific to the GEPP emission factor study and the ambient conditions at the time of interest. The exact input parameters are shown in Table 10 of Appendix A and discussed below.

- Emission rate (g/s): Unit emission rate (1 g/s) was used for all modeling scenarios;
- Stack height (m): The stack height was measured onsite and is the height of the center point of the Turbo-Mister nozzle to the evaporation pond surface;

[9] U.S. EPA, Office of Air Quality Planning and Standards, Federal Register Vol. 70/No. 216 pp.68,218-68,261, 40 CFR 51, Appendix W, Revision to Guideline on Air Quality Models, November 9, 2005.

- Stack Diameter (m): The stack diameter is based on manufacturer specifications;
- Stack Temperature (K): Conservatively set to the ambient temperature;
- Exit Velocity (m/s): Based on manufacturer specifications;
- Flow Rate (gpm): Based on manufacturer specifications;
- Buildings: No buildings were included in the model as the Turbo-Mister is located in the center of a pond with no structures between the Turbo-Mister and PM monitors;
- Source Elevation: The elevation of the evaporation pond;
- Discrete Receptor Distance (m): The receptor distance is based on the specific distance of the downwind PM monitors from the Turbo-Mister for the sample period in question;
- Flag Pole Height (m): The height above the evaporation pond surface of the PM Monitors for the sample period in question;
- Minimum Temperature (K): The ambient temperature as measured by the meteorological tower for the sample period in question minus 1K;
- Maximum Temperature (K): The ambient temperature as measured by the meteorological tower for the sample period in question plus 1K;
- Minimum Wind Speed (m/s): The ambient wind speed as measured by the meteorological tower for the sample period in question;
- Anemometer Height (m): The height of the anemometer above the evaporation pond surface;
- Surface Profile: Defining the surface characteristics of the model domain using the AERMET seasonal tables for a Water surface;
- Climate Profile: Defining the climate characteristics of the model domain using the AERMET seasonal tables for a Dry climate.

The AERSCREEN Model is configured using the fixed parameters shown in Table 10 of Appendix A and additional sample specific conditions which are listed in the modeling scenarios (discussed in Section 4.2) for each of the sample periods of interest. The model was executed with an assumed idealized unit emission rate of 1 g/s. The resulting model derived concentration is then ratioed to the measured PM concentration from the DustTrack monitors. The ratio is then used to scale the assumed model emission rate (1 g/s) to calculate the emission rate needed to produce the monitored concentration (see Equation 1).

$$Emission\ Rate\ \left(^{g}/_{s}\right) = \frac{Modeled\ Concentration\left(^{\mu g}/_{m^3}\right)}{PM\ Monitor\ Concentration\left(^{\mu g}/_{m^3}\right)} \times 1\left(^{g}/_{s}\right)$$

Equation 1

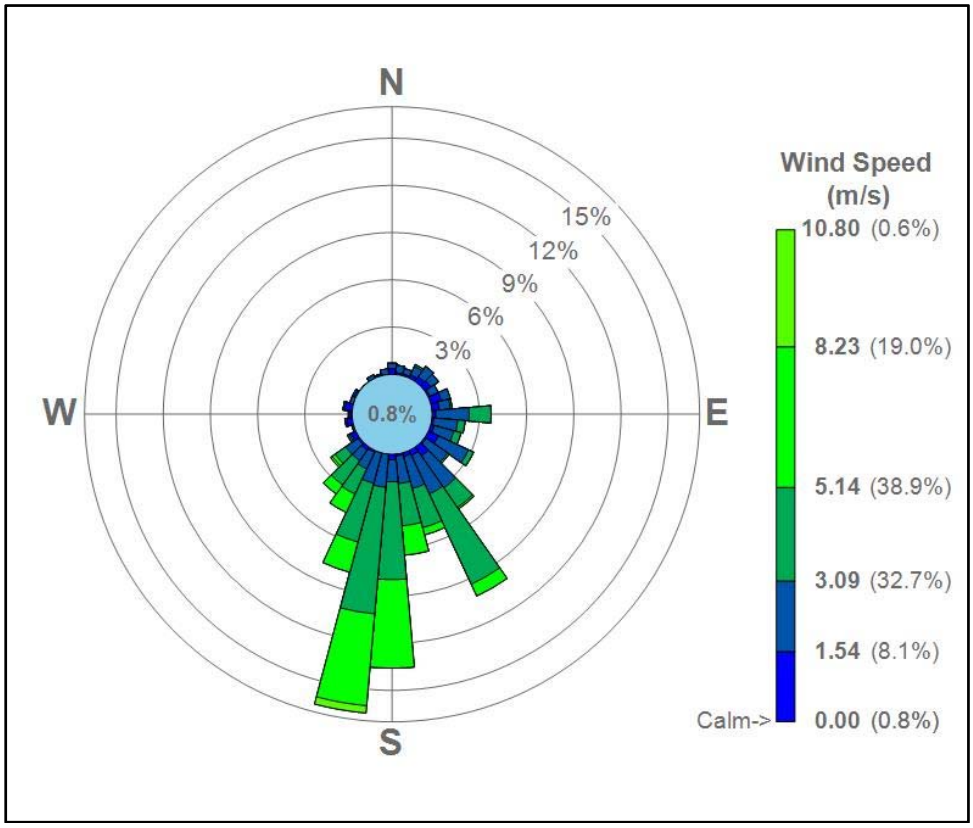
The measurements and methodology in this study rely on a constant TDS concentration. The last measurement of the evaporation pond TDS concentration (41,000 mg/L) was conducted in January 5, 2015 and is shown in Appendix C.

The following section describes the results of the analysis completed for the meteorological data; $PM_{2.5}$ and PM_{10} concentrations and subsequent emission factors.

4.1. WIND PATTERNS DURING FIELD MEASUREMENTS

During the field measurements the wind patterns were measured using an onsite meteorological tower. A wind rose depicting the wind direction, wind speed and frequency of occurrence for the data collected over the entire field measurement period (5/19/2015 11:03 to 5/28/2015 08:24) is shown in Figure 5. The wind rose indicates the direction the wind is coming from. Additional wind roses, isolated for each nozzle measurement period are shown in Figure 12 though Figure 14 of Appendix B.

Figure 5. Wind rose for the onsite meteorological tower at the GEPP.



As the wind rose shows, throughout the entire monitoring period, the prevailing wind was generally from the south (165° to 175°), with some slight variation throughout the observation period.

4.2. MODELING SCENARIOS

Several modeling scenarios were identified for each nozzle configuration and PM size. The measured concentrations for each of the scenarios were processed to produce a concentration contribution associated with the Turbo-Mister only (as per the methodologies discussed in Section 3. Methodology). Due to the success of the field measurements there were multiple events where PM emissions from the Turbo-Mister provided strong measurements for the PM monitors. Therefore, the four highest concentration samples (for each nozzle and PM size) were identified and used as the basis for the AERSCREEN back-calculation modeling.

The following sections 4.2.1 through 4.2.6 show the tabulated site and sample specific setup parameters for the modeling inputs including the wind direction, wind speed, ambient temperature, relative distance and height of the downwind PM monitor from the Turbo-Mister and the measured concentrations (Table 3 to Table 8) for all three nozzles and PM sizes. These tables also include the AERSCREEN determined concentration based on an emission rate of 1 g/s and the subsequent scaled actual Turbo-Mister emission rate (lb/hr) based on Equation 1.

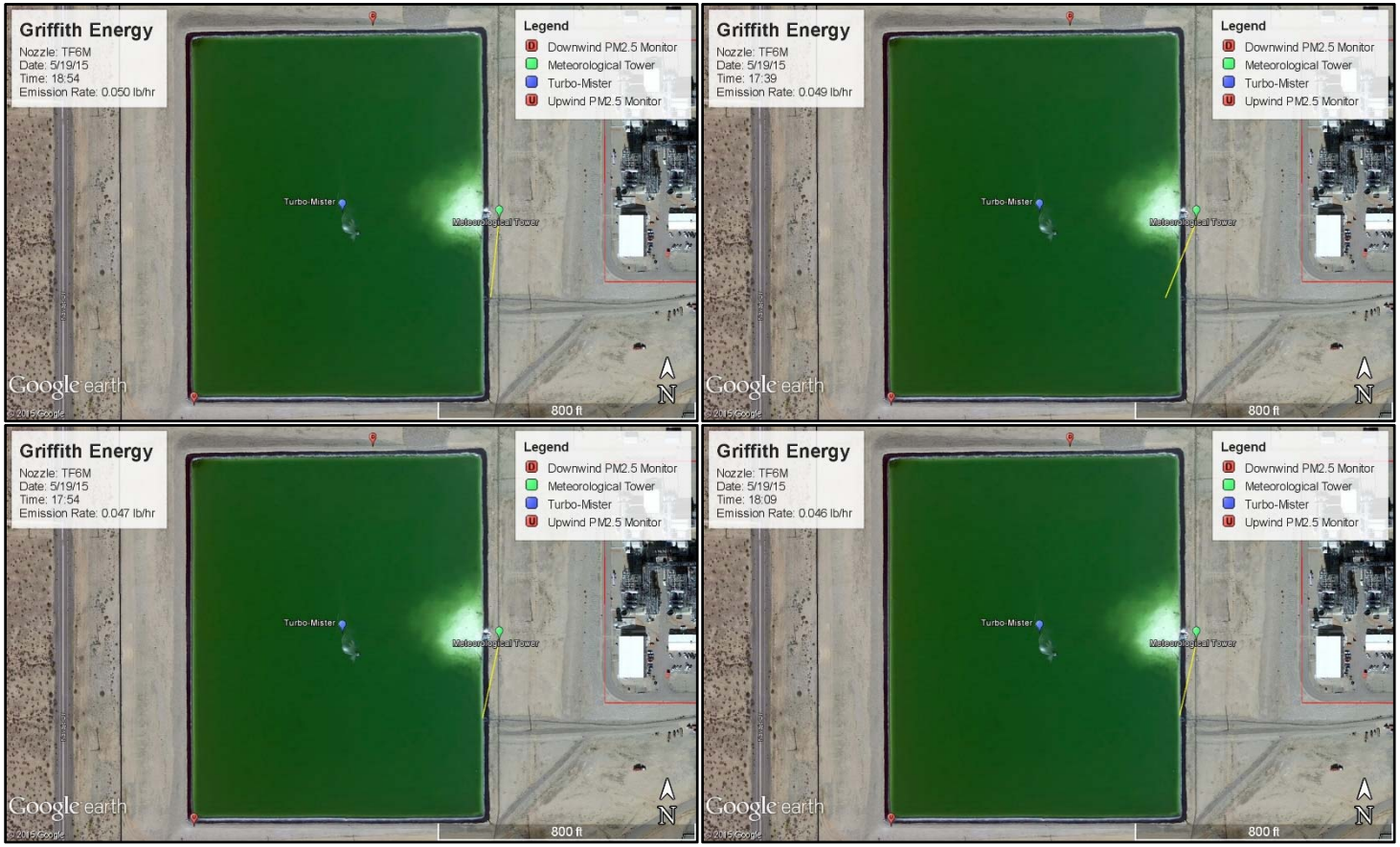
In addition, sample specific aerial overviews of the evaporation pond and the locations of the PM Monitors (depicted by red pins), the meteorological tower (green pin), direction the wind is coming from (yellow line) and Turbo-Mister location are shown in Figure 6 to Figure 11, for all three nozzle types and PM sizes.

4.2.1. TF6M Nozzle – $PM_{2.5}$

Table 3. Sample specific AERSCREEN input parameters for the four highest concentrations - TF6M Nozzle – $PM_{2.5}$.

$PM_{2.5}$ Background Corrected Conc over Interval ($\mu g/m^3$)								AERSCREEN $PM_{2.5}$ Output & Scaled Emission Rate		
Rank	Corrected Timestamp	Corrected Wind Direction (°)	Wind Speed (m/s)	Temperature (K)	Turbo Mister (m)	Above Pond (m)	$PM_{2.5}$ Concentration ($\mu g/m^3$)	AERSCREEN Concentration ($\mu g/m^3$)	Emission Rate (g/s)	Emission Rate (lb/hr)
1	5/19/15 18:54	186.0	4.6	298.2	179.7	1.5	8.9	1,427	0.0062	0.050
2	5/19/15 17:39	202.0	4.7	298.5	179.7	1.5	8.7	1,427	0.0061	0.049
3	5/19/15 17:54	192.0	5.0	298.7	179.7	1.5	8.5	1,427	0.0060	0.047
4	5/19/15 18:09	192.7	4.7	298.4	179.7	1.5	8.3	1,427	0.0058	0.046

Figure 6. Aerial overview of the PM monitor locations and wind direction for the four highest measured events – TF6M – $PM_{2.5}$.

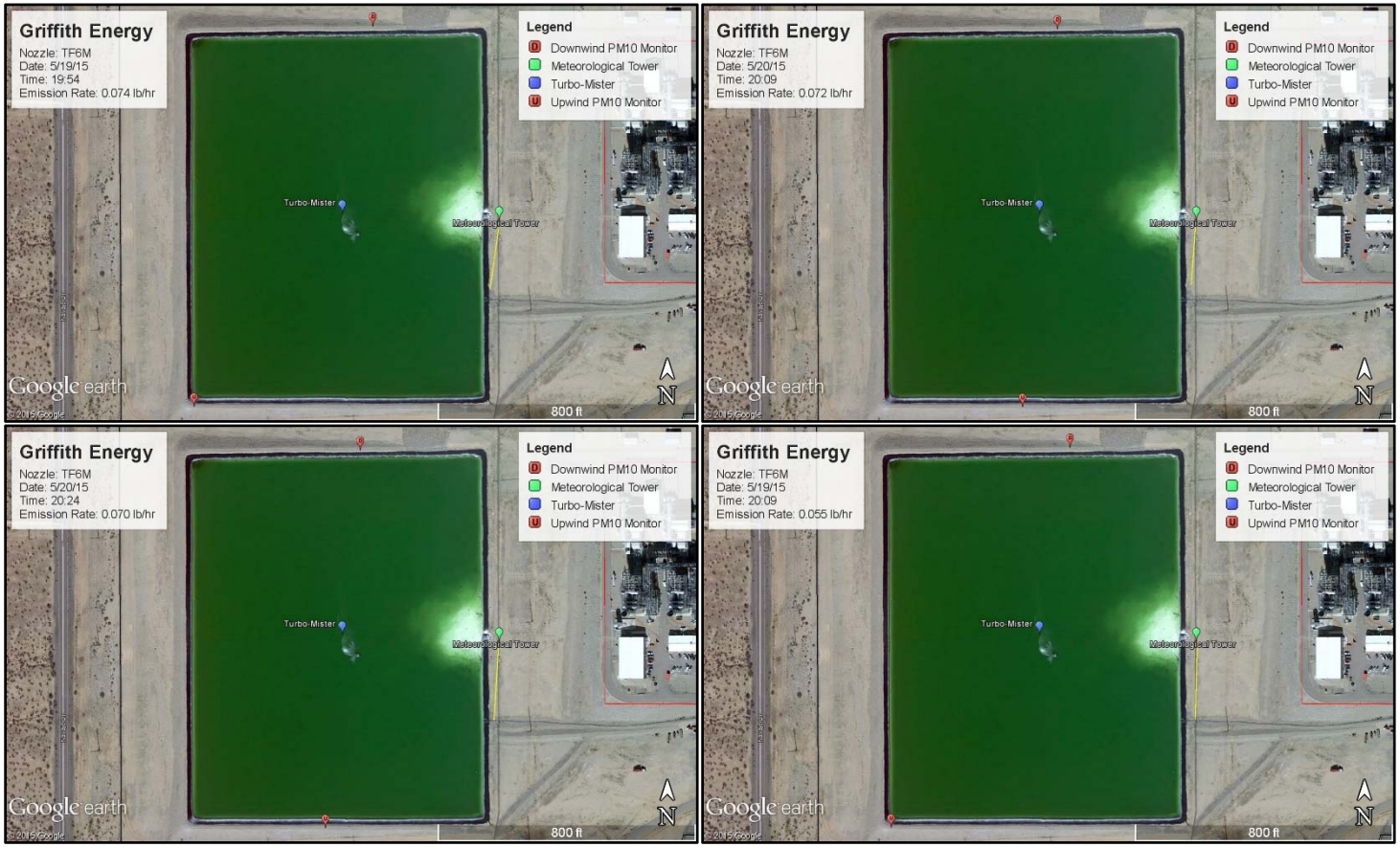


4.2.2. TF6M Nozzle – PM_{10}

Table 4. Sample specific AERSCREEN input parameters for the four highest concentrations - TF6M Nozzle – PM_{10}.

PM_{10} Background Corrected Conc over 15 min Interval ($\mu g/m^3$)								AERSCREEN PM_{10} Output & Scaled Emission Rate		
Rank	Corrected Timestamp	Corrected Wind Direction (°)	Wind Speed (m/s)	Ambient Temperature (K)	Distance to Turbo Mister (m)	Monitor Height Above Pond (m)	PM_{10} Concentration ($\mu g/m^3$)	AERSCREEN Concentration ($\mu g/m^3$) Output for Q = 1g/s	Emission Rate (g/s)	Emission Rate (lb/hr)
1	5/19/15 19:54	188.1	3.4	296.7	179.7	1.5	31.2	3,341	0.0093	0.074
2	5/20/15 20:09	184.5	3.2	297.7	175.5	3.4	25.4	2,792	0.0091	0.072
3	5/20/15 20:24	183.3	3.0	297.3	175.5	3.4	24.7	2,792	0.0088	0.070
4	5/19/15 20:09	181.7	3.7	296.4	179.7	1.5	23.3	3,341	0.0070	0.055

Figure 7. Aerial overview of the PM monitor locations and wind direction for the four highest measured events – TF6M – PM_{10}.

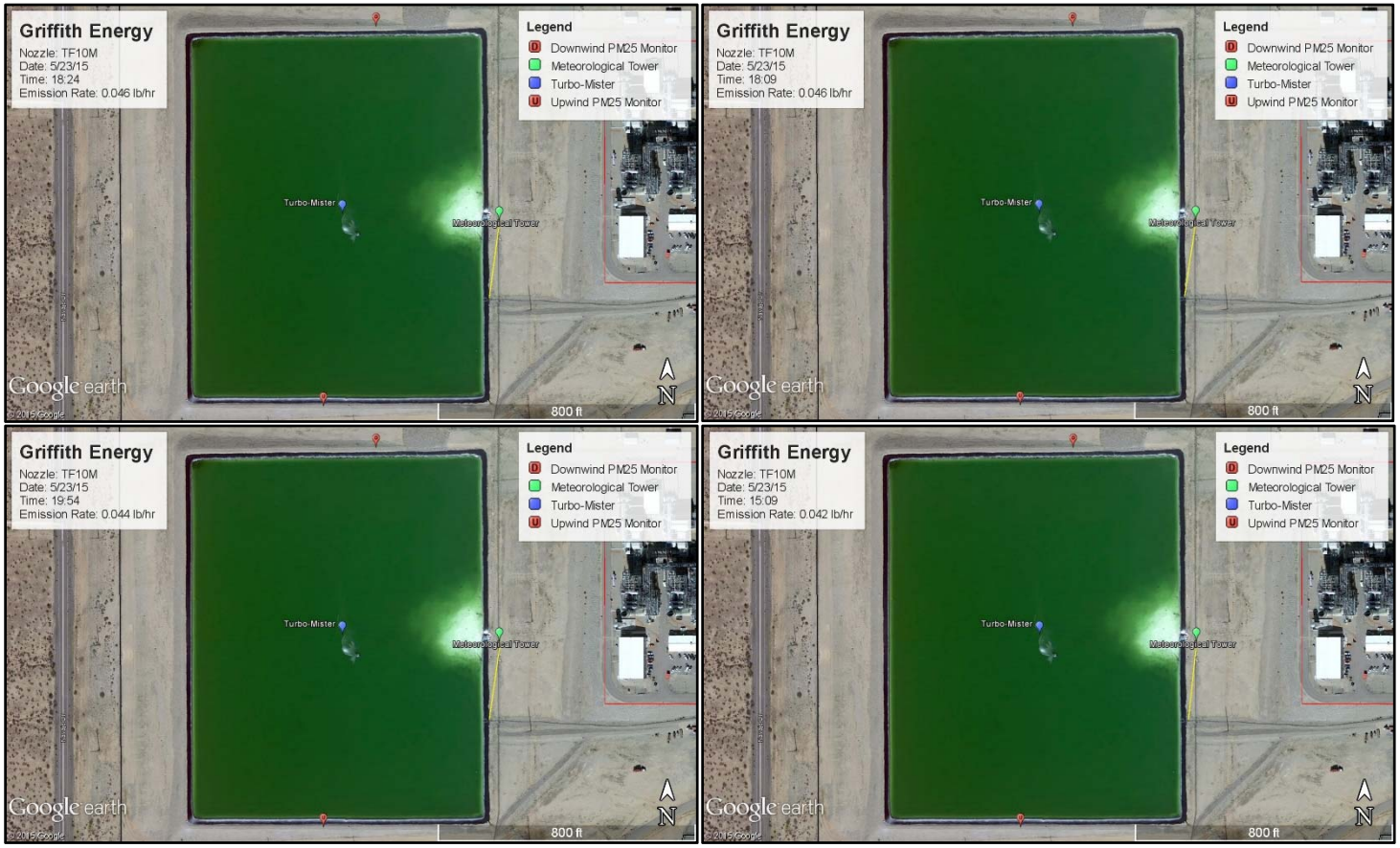


4.2.3. TF10M Nozzle – $PM_{2.5}$

Table 5. Sample specific AERSCREEN input parameters for the four highest concentrations - TF10M Nozzle – $PM_{2.5}$.

$PM_{2.5}$ Background Corrected Conc over Interval ($\mu g/m^3$)								AERSCREEN $PM_{2.5}$ Output & Scaled Emission Rate		
Rank	Corrected Timestamp	Corrected Wind Direction (°)	Wind Speed (m/s)	Temperature (K)	Turbo Mister (m)	Above Pond (m)	$PM_{2.5}$ Concentration ($\mu g/m^3$)	AERSCREEN Concentration ($\mu g/m^3$)	Emission Rate (g/s)	Emission Rate (lb/hr)
1	5/23/15 18:24	187.3	5.0	296.4	180.1	1.5	8.4	1,436	0.0058	0.046
2	5/23/15 18:09	188.3	5.0	296.6	180.1	1.5	8.3	1,436	0.0058	0.046
3	5/23/15 19:54	187.8	4.1	295.4	180.1	1.5	8.0	1,437	0.0056	0.044
4	5/23/15 15:09	185.8	4.1	296.1	180.1	1.5	7.6	1,436	0.0053	0.042

Figure 8. Aerial overview of the PM monitor locations and wind direction for the four highest measured events – TF10M – $PM_{2.5}$.

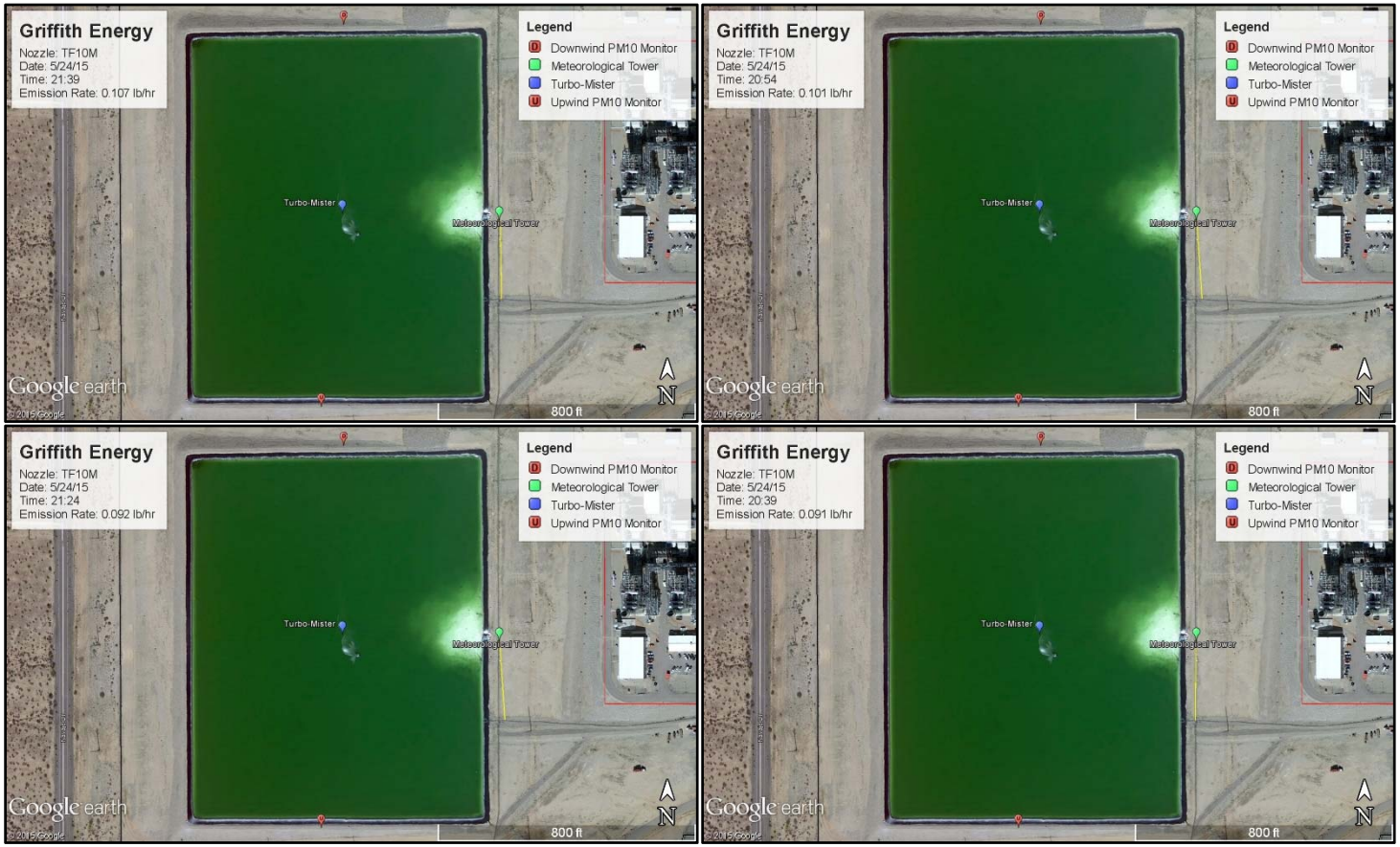


4.2.4. TF10M Nozzle – PM_{10}

Table 6. Sample specific AERSCREEN input parameters for the four highest concentrations - TF10M Nozzle – PM_{10}.

PM_{10} Background Corrected Conc over 15 min Interval ($\mu g/m^3$)								AERSCREEN PM_{10} Output & Scaled Emission Rate		
Rank	Corrected Timestamp	Corrected Wind Direction (°)	Wind Speed (m/s)	Temperature (K)	Turbo Mister (m)	Above Pond (m)	PM_{10} Concentration ($\mu g/m^3$)	AERSCREEN Concentration ($\mu g/m^3$)	Emission Rate (g/s)	Emission Rate (lb/hr)
1	5/24/15 21:39	179	3.5	296.1	179.2	3.4	37.3	2,756	0.0135	0.107
2	5/24/15 20:54	176.7	3.3	297.1	179.2	3.4	34.6	2,725	0.0127	0.101
3	5/24/15 21:24	176.7	3.3	296.3	179.2	3.4	32.1	2,756	0.0116	0.092
4	5/24/15 20:39	181.3	4.0	297.2	179.2	3.4	31.4	2,725	0.0115	0.091

Figure 9. Aerial overview of the PM monitor locations and wind direction for the four highest measured events – TF10M – PM_{10}.

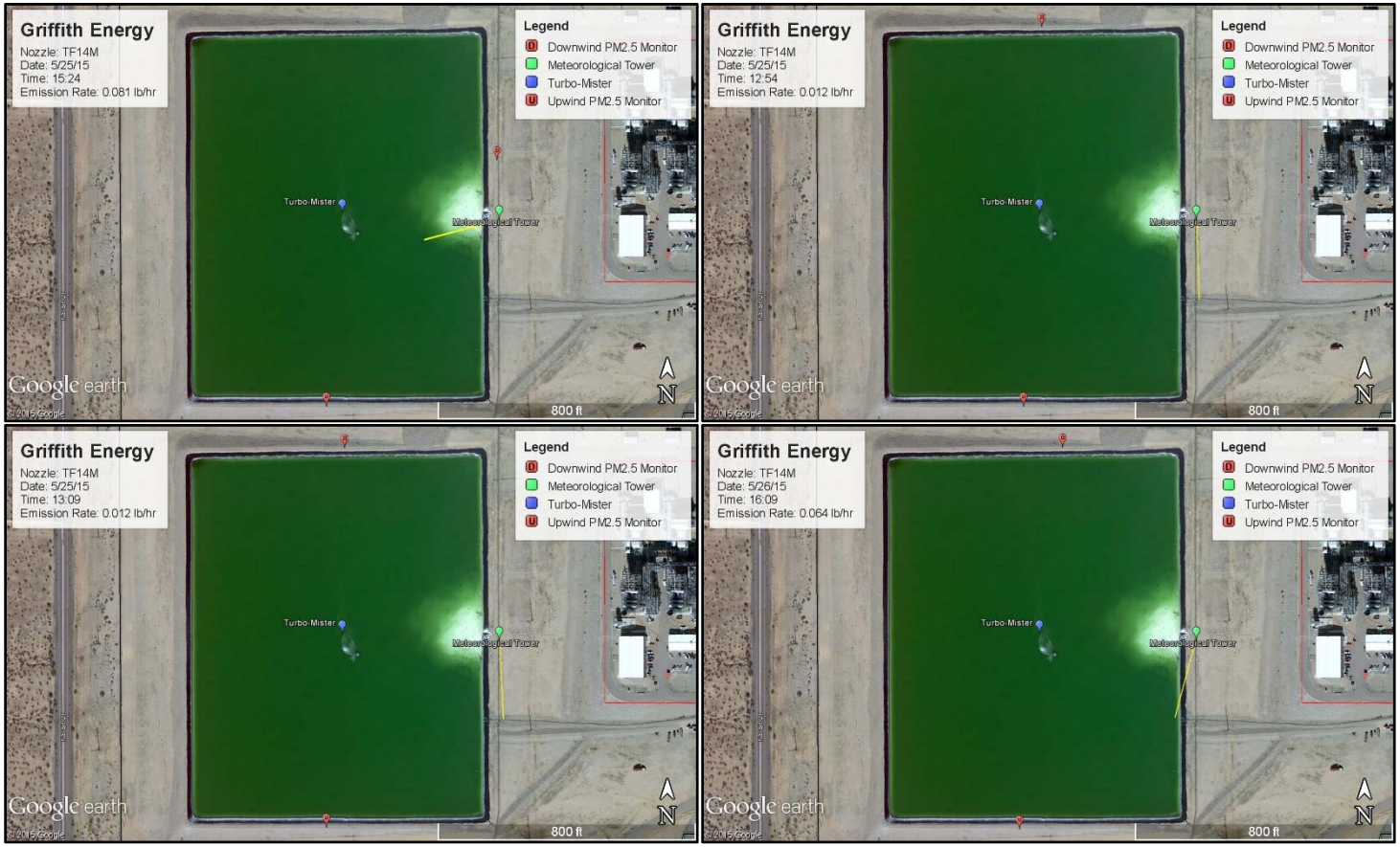


4.2.5. TF14M Nozzle – $PM_{2.5}$

Table 7. Sample specific AERSCREEN input parameters for the four highest concentrations - TF14M Nozzle – $PM_{2.5}$.

$PM_{2.5}$ Background Corrected Conc over Interval ($\mu g/m^3$)								AERSCREEN $PM_{2.5}$ Output & Scaled Emission Rate		
Rank	Corrected Timestamp	Corrected Wind Direction (°)	Wind Speed (m/s)	Temperature (K)	Turbo Mister (m)	Above Pond (m)	$PM_{2.5}$ Concentration ($\mu g/m^3$)	AERSCREEN Concentration ($\mu g/m^3$)	Emission Rate (g/s)	Emission Rate (lb/hr)
1	5/25/15 15:24	255.1	3.1	300.1	154.9	6.1	7.6	744	0.0102	0.081
2	5/25/15 12:54	178.3	3.7	299.5	176.2	1.2	5.1	3,344	0.0015	0.012
3	5/25/15 13:09	177.1	3.2	300.0	176.2	1.2	5.0	3,339	0.0015	0.012
4	5/26/15 16:09	194.9	5.9	302.6	177.9	3.4	4.8	597	0.0081	0.064

Figure 10. Aerial overview of the PM monitor locations and wind direction for the four highest measured events – TF14M – $PM_{2.5}$.

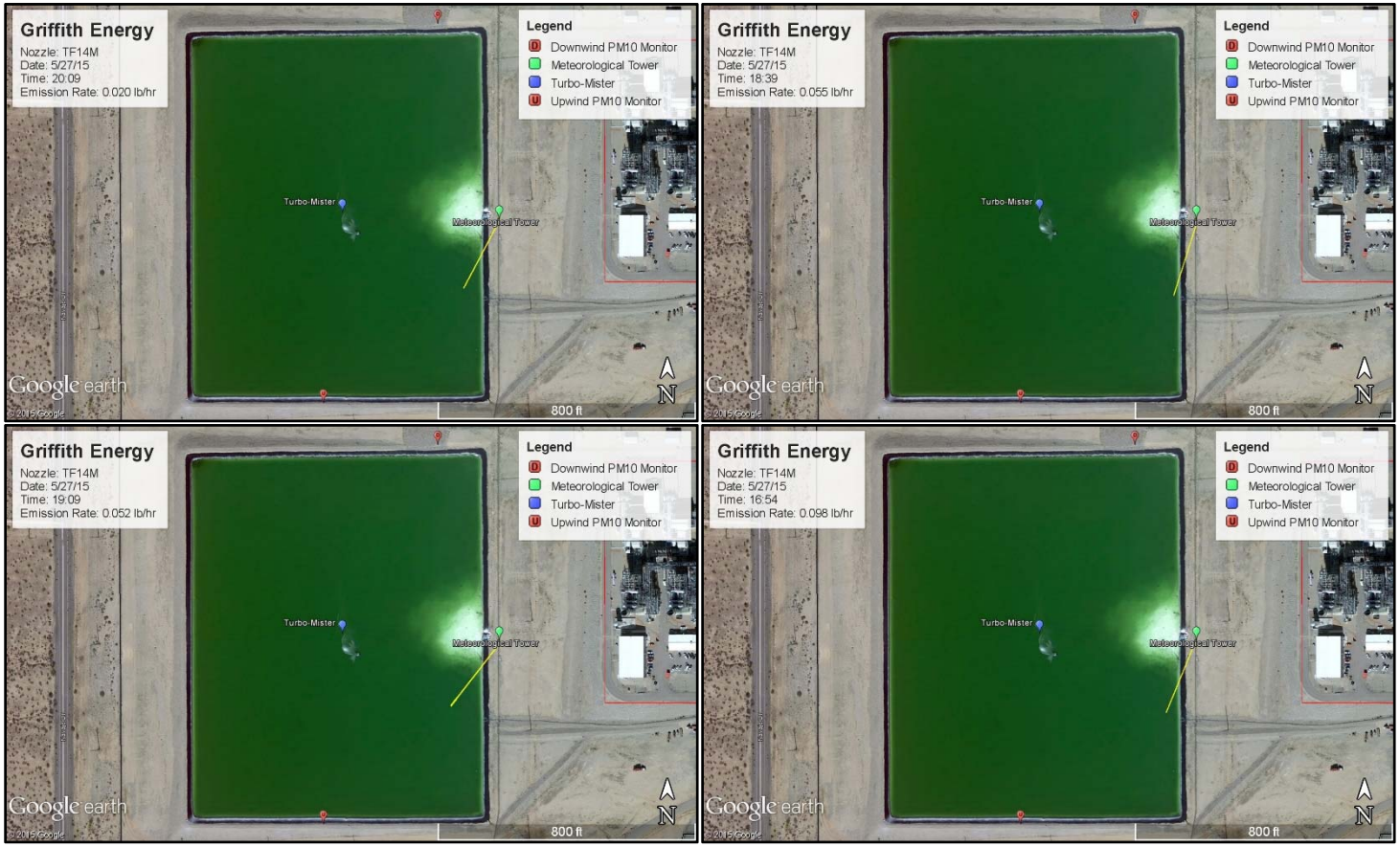


4.2.6. TF14M Nozzle – PM_{10}

Table 8. Sample specific AERSCREEN input parameters for the four highest concentrations - TF14M Nozzle – PM_{10}.

PM_{10} Background Corrected Conc over 15 min Interval ($\mu g/m^3$)								AERSCREEN PM_{10} Output & Scaled Emission Rate		
Rank	Corrected Timestamp	Corrected Wind Direction (°)	Wind Speed (m/s)	Temperature (K)	Turbo Mister (m)	Above Pond (m)	PM_{10} Concentration ($\mu g/m^3$)	AERSCREEN Concentration ($\mu g/m^3$)	Emission Rate (g/s)	Emission Rate (lb/hr)
1	5/27/15 20:09	207.6	1.9	300.0	200.3	0.6	12.0	4,772	0.0025	0.020
2	5/27/15 18:39	199.7	4.2	303.4	200.3	0.6	9.0	1,287	0.0070	0.055
3	5/27/15 19:09	217.6	4.1	302.6	200.3	0.6	8.4	1,290	0.0065	0.052
4	5/27/15 16:54	202.3	6.9	303.2	200.3	0.6	7.4	596	0.0123	0.098

Figure 11. Aerial overview of the PM monitor locations and wind direction for the four highest measured events – TF14M – PM_{10}.



4.3. RESULTS SUMMARY

Based on the analysis and modeling described in this report the maximum short-term emission rate was derived for the four highest concentration measurements for both $PM_{2.5}$ and PM_{10} for all three nozzle types. In addition, the maximum long-term emission rate and the maximum short-term emission rate as a function of wastewater flowrate can be calculated using the following equations:

Maximum long-term emission rate calculation:

$$Emission\ Rate\left(^{tons}/_{yr}\right) = \frac{Emission\ Rate\ \left(^{lb}/_{hr}\right) \times 8{,}760\left(^{hr}/_{yr}\right)}{2{,}000\left(^{lb}/_{ton}\right)}$$

Equation 2

Maximum short-term emission rate based on wastewater flow rate calculation:

$$Emission\ Rate\left(^{lb}/_{1000gal}\right) = \frac{Emission\ Rate\left(^{lb}/_{hr}\right)}{Evaporator\ Flow\ Rate\left(^{gal}/_{hr}\right) \times 1{,}000gal}$$

Equation 3

Based on the above equations and the following assumptions the short-term emission rates can be used to estimate the long-term (tons/year) and short-term emission rate as a function of wastewater flow (lb/1000gal of wastewater).

- Turbo-Mister Flow Rate = 80.1 gal/minute = 4,806 gal/hr
- Hours of Operation = 8760 hours/year
- TDS content = 41,000 mg/L

The summary results of these calculations are shown in Table 9.

Table 9. Summary of the maximum short-term emission rate, long-term emission rate and emission rate as a function of wastewater flow.

Nozzle Type	Max Emission Rate (lb/hr)		Max Emission Rate (tons/year)		Max Emission Rate (lb/1000 gal)	
	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$	PM_{10}	$PM_{2.5}$
TF6M	0.074	0.050	0.32	0.22	0.015	0.0103
TF10M	0.107	0.046	0.47	0.20	0.022	0.0097
TF14M	0.098	0.081	0.43	0.35	0.020	0.0168

As the table shows the nozzle with the lowest overall emission rate is the TF6M which has 0.32 tons/year of PM_{10} emissions. The maximum emission rate for PM_{10} occurs when the TF10M nozzle is installed on the Turbo-Mister, however using this nozzle the $PM_{2.5}$ emission rate is at its lowest. This indicates the particle size distribution is weighted towards the larger particle sizes (2.5 to 10µm). The TF14M nozzle shows the opposite size distribution with the $PM_{2.5}$ particles dominating the size distribution and a relatively small contribution from the larger (2.5 to 10µm) sized particles.

5. CONCLUSIONS

The development of site-specific emission factors for a pond evaporation system was conducted in May 2015 for the Griffith Energy Power Plant near Kingman, AZ. The study involved siting four PM monitors onsite to measure the upwind and downwind concentrations of PM from the wastewater evaporation pond Turbo-Mister. In addition, a portable meteorological tower was also installed to collect measurements of the atmospheric conditions during which the PM monitors collected samples. Three different nozzle types were tested on the Turbo-Mister and data was successfully collected for each nozzle size.

The data collected during the field measurement period was analyzed using a wind sector analysis and used as the basis for back-calculation modeling of the Turbo-Mister emission factor using the U.S. EPA AERSCREEN model. The results of the modeling show that for all three nozzle types the maximum emission rates do not exceed 0.5 tons/year for PM_{10} and $PM_{2.5}$. The TF6M has the lowest emission rates overall at 0.32 tons/year for PM_{10}. The change in nozzle type has an impact on the generated particle size distribution as seen by the relative differences in $PM_{2.5}$ (0 to 2.5 μm) and PM_{10} (0 to 10μm) mass emissions. The small difference between PM_{10} and $PM_{2.5}$ emission rates for the TF6M and TF14M indicate that the PM emissions are mostly small particles (less than 2.5 μm). The larger particles which would form from evaporation of the larger mist droplets are more likely to be deposited back into the evaporation pond through gravitational settling and collision/coalescence processes.

GEPP proposes to use the emission rates for $PM_{2.5}$ and PM_{10} established in this study for the evaporation pond Turbo-Mister in future calculation methodologies.

APPENDIX A: AERSCREEN INPUT PARAMETERS

Table 10 lists the AERSCREEN input parameters for the back-calculation modeling.

Table 10. AERSCREEN Input Parameters.

Control Options		
Title	Varies	
Land Use	Rural	
Source		
Type	Point	
Emission Rate	1	g/s
Stack Height	2.4	m
Stack Diameter	0.762	m
Stack Temperature	Ambient	K
Exit Velocity	40.23	m/s
Flow Rate	80.1	gpm
Building		
Buildings	None	
Terrain		
Source Elevation	751.0	m
Receptors		
Minimum Distance to Ambient Air	1	m
Discrete Distances	Sample PM Monitor Distance	m
Flag Pole Height	Sample PM Monitor Height	m
Meteorology		
Minimum Temperature	Sample Temperature - 1 K	K
Maximum Temperature	Sample Temperature + 1 K	K
Minimum Wind Speed	Sample Wind Speed	m/s
Anemometer height	11.2	m
Surface Profile	Water	
Climate Profile	Dry	

APPENDIX B: WIND ROSES FOR EACH NOZZLE TYPE

This appendix shows the wind pattern for the data collected during each of the three nozzle test periods listed in Table 1.

Figure 12. Wind rose for sampling period 5/19/2015 11:03 (Local Time) to 5/22/2015 11:15 (Local Time) (Nozzle: TF6M).

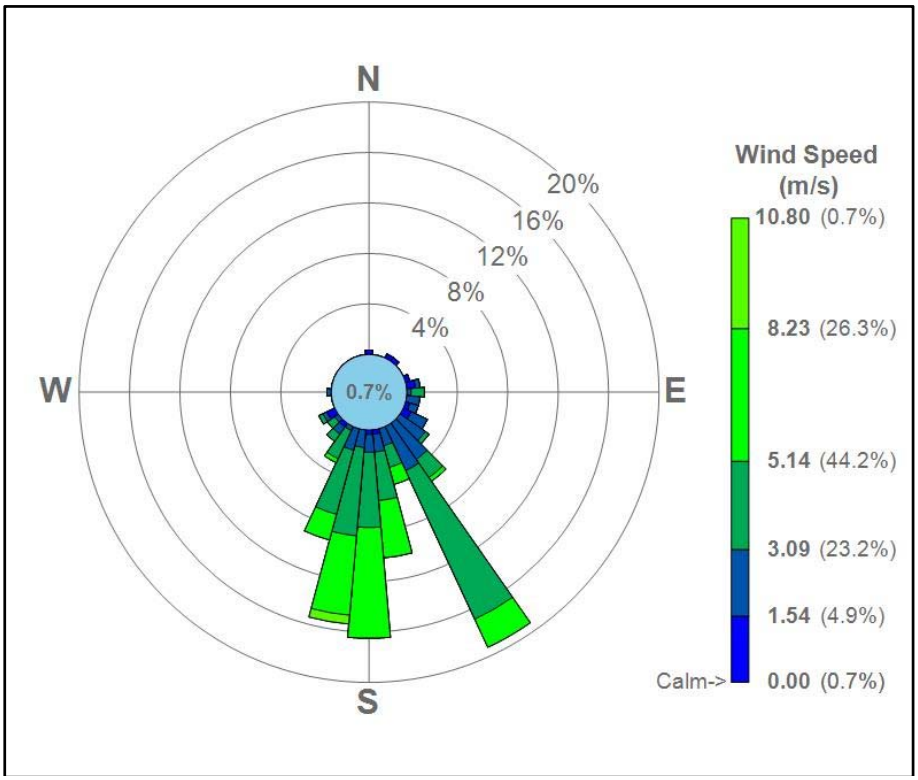


Figure 13. Wind rose for sampling period 5/22/2015 13:30 (Local Time) to 5/25/2015 09:30 (Local Time) (Nozzle: TF10M).

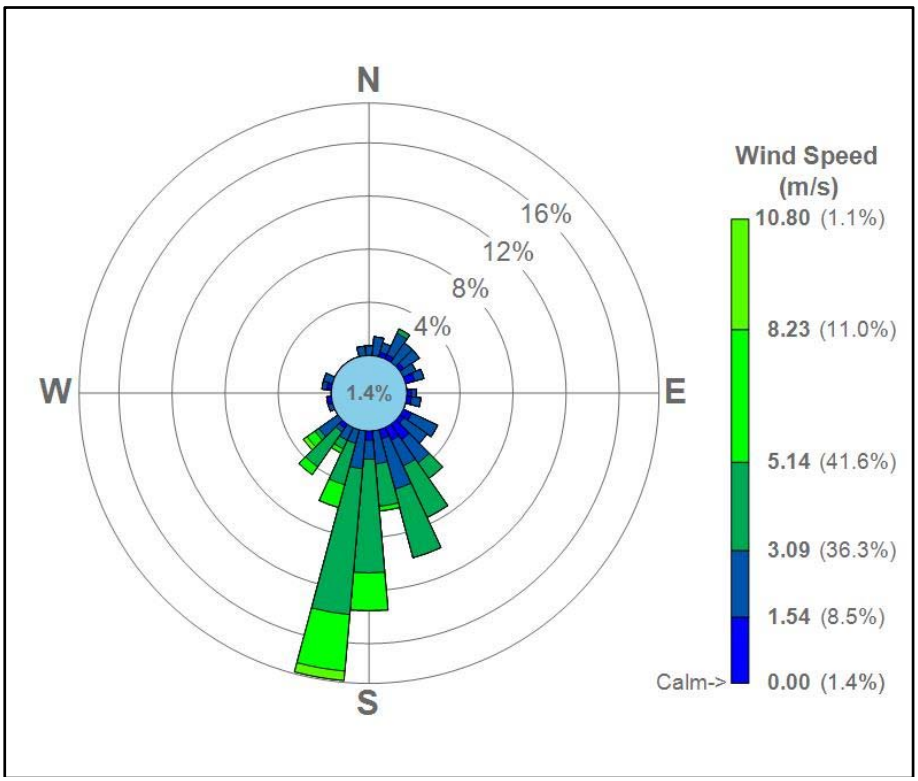
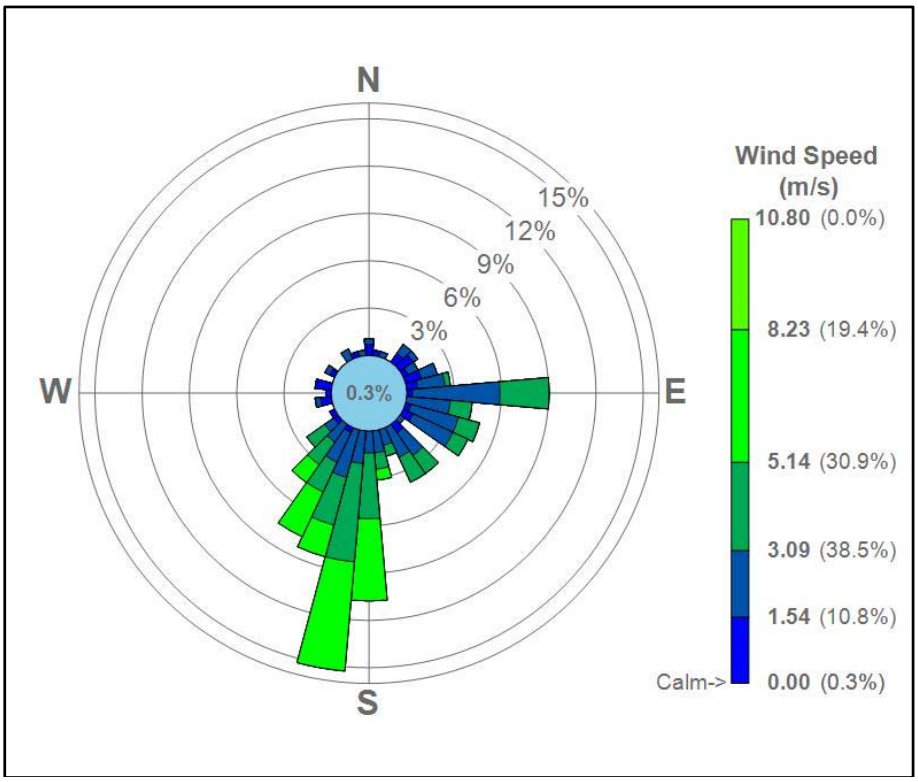


Figure 14. Wind rose for sampling period 5/25/2015 12:00 (Local Time) to 5/28/2015 08:34 (Local Time) (Nozzle: TF14M).



The Total Dissolved Solids (TDS) concentration of the evaporation ponds is 41,000 mg/L as shown in this analysis reported on January 5, 2015.

Mohave
ENVIRONMENTAL LABORATORY
License No. AZ0037

Customer Name: Griffith Energy
Lab ID: 39357
Sample Type: Wastewater
Sampled By: Brian Henderson

Date Received: 11/10/14 11:05
Date Reported: 01/05/15

Analytical Results

Parameter	Method	Result	Units	Detect Limit	Date	Analyst
39357-01						
Sample Date: 11/10/14 10:00						
SW Corner Brine Pond/Grab						
Metals						
Antimony, Total	EPA 200.9	<0.060 D1	mg/L	0.003	11/26/2014	CM
Arsenic, Total	EPA 200.9	<0.060 D1	mg/L	0.003	11/26/2014	CM
Barium, Total	SM3111D	<0.20	mg/L	0.2	12/8/2014	CM
Cadmium, Total	EPA 200.9	<0.0020 D1	mg/L	0.0001	12/5/2014	CM
Calcium, Total	SM3111B	210	mg/L	5	11/25/2014	CM
Chromium, Total	EPA 200.9	0.095	mg/L	0.001	12/4/2014	CM
Lead, Total	EPA 200.9	<0.010 D1	mg/L	0.001	11/24/2014	CM
Magnesium, Total	SM3111B	440	mg/L	5	12/5/2014	CM
Mercury, Total	EPA 245.1	<0.0005	mg/L	0.0005	11/25/2014	CM
Nickel, Total	EPA 200.9	<0.050 D1	mg/L	0.01	12/8/2014	CM
Potassium, Total	SM3111B	760	mg/L	2	11/24/2014	CM
Selenium, Total	EPA 200.9	<0.040 D1	mg/L	0.002	12/4/2014	CM
Sodium, Total	SM3111B	12,000	mg/L	5	11/24/2014	CM
Zinc, Total	SM3111B	<0.050	mg/L	0.05	11/26/2014	CM
Wet Chemistry						
Alkalinity	SM2320-B	330	mg/L	4	11/11/2014	SM
Chloride	EPA 300.0	5,700	mg/L	5	11/11/2014	CM
Fluoride	SM4500-F-C	6.8	mg/L	0.2	11/17/2014	SM
Nitrogen, Nitrate	EPA 300.0	6.9	mg/L	0.2	11/10/2014	CM
Nitrogen, Nitrite	EPA 300.0	<0.20	mg/L	0.2	11/10/2014	CM
Nitrogen, Total Kjeldahl	SM 4500-Norg C	4.3	mg/L	1	11/11/2014	SM
Nitrogen, Total	Calc.	11.20	mg/L	1.4	11/12/2014	CM
pH	SM4500-H-B	9.5 H1	pH Units		11/10/2014	SM
Temperature	SM4500-H-B	23	°C		11/10/2014	SM
Solids, Total Dissolved	SM2540-C	41,000	mg/L	20	11/13/2014	SM
Specific Conductance	SM2510-B	54,000	umhos/cm	10	11/17/2014	SM
Sulfate	EPA 300.0	20,000	mg/L	5	11/11/2014	CM

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DEPARTMENT ACCEPTED VALUES FOR:
AGGREGATE HANDLING, STORAGE PILE, and HAUL ROAD EMISSIONS

TO: Applicants and Air Quality Bureau Permitting Staff

SUBJECT: Department accepted default values for percent silt, wind speed, moisture content, and control efficiencies for haul road control measures

This guidance document provides the Department accepted default values for correction parameters in the emission calculation equations for aggregate handling and storage piles emissions in construction permit applications and notices of intent submitted under 20.2.72 and 20.2.73 NMAC; and the Department accepted control efficiencies for haul road control measures for applications submitted under 20.2.72 NMAC.

Aggregate Handling and Storage Pile Emission Calculations

Applicants should calculate the particulate matter emissions from aggregate handling and storage piles using the EPA's AP-42 Chapter 13.2.4.
http://www3.epa.gov/ttn/chief/ap42/ch13/final/c13s0204.pdf

Equation 1 from Chapter 13.2.4 requires users to input values for two correction parameters, U and M, where U = mean wind speed and M = material moisture content. Below are the accepted values for U and M:

Default Values for Chapter 13.2.4, Equation 1:

Parameter	Default Value
U = Mean wind speed (miles per hour)	11 mph
M = Material moisture content (% water)	2%

Applicants must receive preapproval from the Department if they wish to assume a higher moisture content and/or a lower wind speed in these calculations. Higher moisture contents may require site specific testing either as a permit condition or submitted with the application. Applicants may assume higher wind speeds and lower percent moisture content in their calculations without prior approval from the Department.

Haul Road Emissions and Control Measure Efficiencies

Applicants should calculate the particulate matter emissions from unpaved haul roads using the EPA's AP-42 Chapter 13.2.2. http://www3.epa.gov/ttn/chief/ap42/ch13/final/c13s0202.pdf

Equation 1(a) from Chapter 13.2.2 requires users to input values for two correction parameters, s and W, where s = surface material silt content (%) and W = mean vehicle weight (tons). The applicant should calculate the mean vehicle weight in accordance with the chapter's instructions. Below is the accepted value for the parameter s:

Default Values for Chapter 13.2.2, Equation 1(a):

Parameter	Default Value
s = surface material silt content (%)	4.8%

Applicants may use a higher silt content without prior approval from the Department. Use of a lower silt content requires prior approval from the Department and may require site specific testing in support of the request.

Equation 2 from Chapter 13.2.2 allows users to take credit for the number of days that receive precipitation in excess of 0.01 inches, in the annual emissions calculation, where P = number of days in a year with at least 0.01 inches of precipitation.

Default Values for Chapter 13.2.2, Equation 2:

Parameter	Default Value
P = number of days in a year with at least 0.01 inches of precipitation	70 days

Applications submitted under Part 72 may request to apply control measures to reduce the particulate matter emissions from facility haul roads. Applications submitted under Part 73 may not consider any emission reduction from control measures in the potential emission rate calculation, as registrations issued under Part 73 are not federally enforceable under the Clean Air Act or the New Mexico Air Quality Control Act. In order for those control measures to be federally enforceable, the controls must be a requirement in an air quality permit.

Below are the Department accepted control efficiencies for various haul road control measures:

Haul Road Control Measures and Control Efficiency:

Control Measure	Control Efficiency
None	0%
Base course **or** watering	60%
Base course **and** watering	80%
Base course **and** surfactant	90%
Paved **and** Swept	95%

Background Document for Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors

Prepared by

Midwest Research Institute
(Chatten Cowherd, MRI Project Leader)

For
Western Governors' Association
Western Regional Air Partnership (WRAP)
1515 Cleveland Place, Suite 200
Denver, Colorado 80202

Attn: Richard Halvey

MRI Project No. 110397

February 1, 2006
Finalized November 1, 2006

Responses to Comments Received on Proposed AP-42 Revisions

Commenter and Date	Source Category	Comment	Response
John Hayden, National Stone, Sand and Gravel Association (NSSGA); June 14, 2006	Unpaved Roads	NSSGA-sponsored tests (report dated Oct. 15, 2004) at California aggregate producing plants support the proposed fine fractions.	This comment reference a test report prepared by Air Control Techniques for the National Stone, Sand & Gravel Association, dated October 4, 2004. The report gives the results of tests to determine unpaved road emissions factors for controlled (wet suppression only) haul roads at two aggregate processing plants. A variation of the plume profiling method using TEOM continuous monitors with PM-2.5 and PM-10 inlets was employed. Tests with road surface moisture content below 1.5 percent were considered to be uncontrolled. Based on the example PM-10 concentration profiles presented in the report, the maximum roadside PM-10 dust concentrations in the subject study were in the range of 300 micrograms per cubic meter. This is an order of magnitude lower than the concentrations typically found in other unpaved road emission factor studies. For the range of plume concentrations measured in the NSSGA-sponsored test program, an average fine fraction (PM-2.5/PM-10 ratio) of 0.15 was reported. This fine fraction value is consistent with the results of the MRI dust tunnel testing in the same concentration range. At plume concentrations more typical of unpaved road emission factor studies, the proposed value of 0.1 is applicable. There is no need for any revisions to the proposed changes to AP-42 as a result of the cited study.
Hao Quinn, Sacramento Metro AQMD; July 20, 2006	Paved vs. unpaved roads	For a particular industrial facility, the PM-10 emission factor equations show higher emissions from paved roads rather than unpaved roads.	***This comment does not relate to the proposed changes to the fine particle fractions***. It is possible that the emissions from a heavily loaded paved road can exceed emissions from an unpaved road with a low-to-moderate silt content at the same industrial facility, even if traveled by the same vehicles. This is the case in the cited example, for which the paved road silt loading is 70 g/m^2.

Commenter and Date	Source Category	Comment	Response
Brian Leahy, Horizon Environmental; July 26, 2006	Unpaved roads	The k value for PM-2.5 does not appear to have changed in the proposed revision.	The latest (2003) approved AP-42 k values for PM-2.5 in Table 13.2.2-2 are 0.23 and 0.27 lb/VMT for industrial and public roads, respectively. The proposed values are 0.15 and 0.18 lb/VMT, which are equivalent to 10 percent of the respective k values for PM-10. There is no need for revisions to the proposed changes to AP-42 as a result of this comment.
Shengxin Jin, NYSDOT Environmental Analysis Bureau; undated	Paved roads	The conversion of proposed k values from g/VMT to g/VKT does not appear correct	Regarding the revised k values for PM-2.5, when the k value of 0.66 g/VKT is multiplied by 1.6 km/mi, it becomes 1.06 g/VMT, which rounds to 1.1 g/VKT given in the proposed revision. Because the k values are given only to two significant figures, the converted values can vary by up to five digits in the second figure, depending on which direction the units conversion is made. For example, when k value of 1.1 g/VKT is divided by 1.6 km/mi, the resulting value rounds to 0.69 g/VKT, but if 1.06 g/VKT is divided by 1.6 km/mi, the resulting value rounds to 0.66 g/VKT. There is no need for revisions to the proposed changes to AP-42 as a result of this comment.
		The stated silt loading impact of antiskid abrasive does not appear correct	***This comment does not relate to the proposed changes to the fine particle fractions***. The commenter is correct in that 500 lb/mi of antiskid abrasive with a 1% silt content produces a silt loading in the range of 0.5 g/m^2 rather than 2 g/m^2. EPA may elect to make a separate modification to correct this discrepancy at a later time.

Proposed Revisions to Fine Fraction Ratios Used for AP-42 Fugitive Dust Emission Factors

ABSTRACT

A number of fugitive dust studies have indicated that the $PM_{2.5}$ / PM_{10} ratios measured by US EPA federal reference method (FRM) samplers are significantly lower than predicted by AP-42 emission factors. As a result, the $PM_{2.5}$ emission estimates are biased high. The controlled exposure study described in this report was conducted to compare fine fraction ratios derived from FRM samplers to those derived from the cyclone/impactor method that had been used to develop AP-42 emission factors for fugitive dust sources. The study was conducted by the Midwest Research Institute using the same cyclone/impactor samplers and operating method that generated the original AP-42 emission factors and associated $PM_{2.5}$ / PM_{10} ratios. This study was sponsored by the Western Regional Air Partnership.

The study found that concentration measurements used to develop $PM_{2.5}$ emission factors in AP-42 were biased high by a factor of two, as compared to $PM_{2.5}$ measurements from FRM samplers. This factor-of-two bias helps to explain why researchers have often seen a discrepancy in the proportion of fugitive dust found in $PM_{2.5}$ emission inventories and modeled ambient air impacts, as compared to the proportion on ambient filter samples. This study also shows that the $PM_{2.5}$ / PM_{10} ratios for fugitive dust should be in the range of 0.1 to 0.15. Currently, the ratios in AP-42 range from 0.15 to 0.4 for most fugitive dust sources.

It is recommended that the results of this study be used to revise the AP-42 $PM_{2.5}$ emission factors for the following four fugitive dust source categories: paved roads, unpaved roads (public and industrial), aggregate handling and storage piles, and industrial wind erosion (AP-42 Sections 13.2.1, 13.2.2, 13.2.4, & 13.2.5, respectively). Emission estimates for other fugitive dust producing activities, such as construction and demolition will also be affected since they are based on these four source categories.

INTRODUCTION

The Dust Emissions Joint Forum (DEJF) of the Western Regional Air Partnership (WRAP) is engaged in gathering and improving data pertaining to the $PM_{2.5}$ and PM_{10} components of fugitive dust emissions. Most of the $PM_{2.5}$ emission factors in EPA's AP-42 guidance for fugitive dust sources (USEPA, 2005) were determined by using high-volume samplers, each fitted with a cyclone precollector and cascade impactor. Typically, AP-42 recommends that $PM_{2.5}$ emission factors for dust sources be calculated

by using PM_{10} emission factor equations along with $PM_{2.5}/PM_{10}$ ratios that have been published by EPA in AP-42.

Beginning with the introduction of the cyclone/impactor method, it was realized particle bounce from the cascade impactor stages to the backup filter may have resulted in inflated $PM_{2.5}$ concentrations, even though steps were taken to minimize particle bounce. This led to an EPA-funded field study in the late 1990s (MRI, 1997) to gather comparative particle sizing data in dust plumes downwind of paved and unpaved roads around the country. The test results indicated that dichotomous samplers produced consistently lower $PM_{2.5}/PM_{10}$ ratios than generated with the cyclone/impactor system. Dichotomous samplers are federal reference method (FRM) samplers that are used to measure compliance with federal air quality standards for particulate matter measured as $PM_{2.5}$ and PM_{10}. Pending the eventual collection of additional data, the decision was made that the true ratios would best be represented by an averaging of the cyclone/impactor data with the dichotomous sampler data.

Based on the results of the EPA-funded field program, modifications were made to the appropriate sections of AP-42 for dust emissions from paved and unpaved roads. The $PM_{2.5}/PM_{10}$ ratio for emissions from unpaved roads (dominated by fugitive dust) was reduced from 0.26 to 0.15, and the $PM_{2.5}/PM_{10}$ ratio for the dust component of emissions from paved roads was reduced from 0.46 to 0.25. In the 2003 revision to AP-42, the non-dust component of paved road emissions was assigned a $PM_{2.5}/PM_{10}$ ratio of 0.76, accounting for vehicle exhaust and brake and tire wear.

Subsequent to the modifications of the $PM_{2.5}/PM_{10}$ ratios in AP-42, additional field test results (mostly from ambient air samplers) indicated that further reductions to the ratios were warranted (Pace, 2005). For example, ambient air monitoring data suggested that the fine fraction dust mass is of the order of 10 percent of the PM_{10} mass, based on chemical fingerprinting of the collected fine and coarse fractions of PM_{10} impacted by dust sources. It is important to note, however, that particle size data applicable to fugitive dust emission factors should be gathered either from the emissions plume or near the point where emissions are generated (within 10 m of the downwind edge of the source).

METHODOLOGY

This led DEJF to fund Midwest Research Institute (MRI) in conducting a controlled study of particle sizing in dust plumes. The objective of the study was to resolve the fine particle bias in the cyclone/impactor system, so that reliable $PM_{2.5}/PM_{10}$ ratios could be developed for as many dust source categories as possible. For this purpose, an air exposure chamber connected to a recirculating supply air stream was used in conjunction with a fluidization system for generating well-mixed dust plumes from a variety of western soils and road surface materials. R&P Model 2000 Partisol samplers were selected as the ground-truthing FRM samplers for PM_{10} and $PM_{2.5}$.

This study was performed in two phases (see below), as described in the attached test report (Cowherd and Donaldson, 2005). The test report serves as the background document to support the recommended revisions to AP-42, and it contains all the quality assurance procedures and results of the testing.

Phase I – Compare $PM_{2.5}$ Measured by Cyclone/Impactor to FRM Sampler

In the first testing phase of the project, $PM_{2.5}$ measurements using the high-volume cascade impactors were compared to simultaneous measurements obtained with EPA FRM samplers for $PM_{2.5}$. As stated above, these tests were conducted in a flow-through wind tunnel and exposure chamber, where the PM_{10} concentration level and uniformity were controlled. The results of the tests provided the basis for quantifying more effectively any sampling bias associated with the cascade impactor system.

Phase 2 – Compare $PM_{2.5}$ to PM_{10} Ratios for Different Geologic Soils

With the same test setup, a second phase of testing was performed with reference method samplers, for the purpose of measuring $PM_{2.5}$ to PM_{10} ratios for fugitive dust from different geologic sources in the West. This testing provided needed information on the magnitude and variability of this ratio, especially for source materials that are recognized as problematic with regard to application of mitigative dust control measures.

RESULTS

The tests that were performed are listed in Tables 6 and 7 of the attached report. The Phase I tests were performed in March and April of 2005. The Phase II tests were performed in June through August of 2005. A total of 100 individual tests were performed, including 17 blank runs (for quality assurance purposes). The raw and intermediate test data are summarized in the tables presented in Appendix A of the attached report.

Based on the 100 wind tunnel tests that were performed in the wind tunnel study, the findings support the following conclusions:

1. $PM_{2.5}$ concentrations measured by the high-volume cyclone/impactor system used to develop AP-42 emission factors for fugitive dust sources have a positive bias by a factor of 2, as compared to the $PM_{2.5}$ concentration measurements from reference-method samplers (see Figure 1). The geometric mean bias is 2.01 and the arithmetic mean bias is 2.15.
2. The $PM_{2.5}$ bias associated with the cyclone/impactor system, as measured under controlled laboratory conditions with dust concentrations held at nearly steady values, closely replicates the bias observed in the prior EPA-funded field study at distributed geographic locations across the country.

3. The $PM_{2.5}/PM_{10}$ ratios measured by the FRM samplers in the current study for a variety of western soils show a decrease in magnitude with increasing PM_{10} concentration (see Figure 2). Soils with a nominally spherical shape are observed to have somewhat lower ratios (at given PM_{10} concentrations) than soils with angular shape. A very similar dependence of $PM_{2.5}/PM_{10}$ ratio on PM_{10} concentration was also observed in the prior field study that used dichotomous samplers as FRM devices.
4. The test data from the current study support a $PM_{2.5}/PM_{10}$ ratio in the range of 0.1 to 0.15 for typical uncontrolled fugitive dust sources (see Figure 2). The $PM_{2.5}/PM_{10}$ ratio of 0.1 is also supported by numerous other studies including the prior EPA-funded field study that used dichotomous samplers as reference devices. It is possible that a ratio as low as 0.05 (as was found in the prior field tests of unpaved road emission factors) might be appropriate for very dusty sources, but this would require extrapolation of the current test data from the wind tunnel study.

DISCUSSION

Peer Review

The test report on the wind tunnel study (Cowherd and Donaldson, 2005) was issued first in draft form for external peer review. Three peer reviewers (having no prior contact with the study) were selected by the DEJF: Patrick Gaffney (California Air Resources Board), John Kinsey (U.S. Environmental Protection Agency), and Mel Zeldin (Private Consultant). In addition, peer review comments were provided by Duane Ono (Great Basin UAPCD) and Richard Countess (Countess Environmental) who helped to develop this study. After the review comments on the draft test report were received, comment/response logs were prepared by MRI, listing each comment and the response to each comment. The next step was to modify the draft test report in accordance with the responses to the review comments. The final test report was issued on October 12, 2005.

Recommended Particle Size Ratios

Based on the results of the WRAP/DEJF study (see attached test report) and the prior EPA-funded field study, it is proposed that new $PM_{2.5}/PM_{10}$ ratios be adopted for several categories of (uncontrolled) fugitive dust sources, as addressed in AP-42. The proposed ratios (given to the nearest 0.05) are summarized in Table 1. It should be noted that these fine fraction ratios and the emission factors could change in the future if field studies show other differences than those identified through this study.

The proposed $PM_{2.5}/PM_{10}$ ratios in Table 1, apply to dry surface materials, having moisture contents in the range of 1% or less. Such materials when exposed to energetic disturbances produce dust plumes with core PM_{10} concentrations in the range of 5,000 micrograms per cubic meter, near the point of emissions generation. The wind tunnel test data show that dust plumes with lower core concentrations have higher $PM_{2.5}/PM_{10}$

ratios. This might occur, for example, at higher soil (or other surface material) moisture contents. However, the emissions from such sources typically are substantially lower with correspondingly less impact on the ambient environment.

Table 1. Proposed Particle Size Ratios for AP-42

Fugitive dust source category	AP-42 section	$PM_{2.5}/PM_{10}$ Ratio	
		Current	Proposed
Paved Roads	13.2.1	0.25	0.15
Unpaved Roads (Public & Industrial)	13.2.2	0.15	0.1
Construction & Demolition	–	0.208 [1]	0.1
Aggregate Handling & Storage Piles	13.2.4	0.314	0.1 (traffic) 0.15 (transfer)
Industrial Wind Erosion	13.2.5	0.40	0.15
Agricultural Tilling	–	0.222 [2]	0.2 (no change)
Open Area Wind Erosion	–	-	0.15

Notes:

[1] AP-42 Section 13.2.3 suggests using emission factors for individual dust producing activities, e.g., materials handling and unpaved roads. The WRAP Fugitive Dust Handbook recommends using a fine fraction ratio of 0.208 from a report prepared for the US EPA, Estimating Particulate Matter Emissions from Construction Operations (MRI, 1999).

[2] Agricultural tilling was dropped from the 5th edition of AP-42. The WRAP Fugitive Dust Handbook recommends using a fine fraction ratio of 0.222 from Section 7.4 of the California Air Resources Board's Emission Inventory Methodology (CARB, 2003).

The justification for each proposed ratio in Table 1 is provided by source category in the sections below. In each case, reference is made to test reports that contain supporting data.

Paved Roads

For the dust component of particulate emissions from paved roads, a $PM_{2.5}/PM_{10}$ ratio of 0.15 is recommended. The proposed ratio is based on the factor-of-two bias in the cyclone/impactor data for the wind tunnel study, which tested western soils and road surface materials. As shown in Table 1, the current AP-42 ratio is 0.25. It should be recalled that the nondust component of paved road particulate emissions has been assigned a much higher ratio of 0.76, based on inputs from the EPA's MOBILE 6 model.

Unpaved Roads

For the dust component of particulate emissions from unpaved roads, which dominates the total particulate emissions from this source category, a $PM_{2.5}/PM_{10}$ ratio of 0.1 is recommended. The proposed ratio is justified from the test results of the wind tunnel study for a variety of western surface materials. It is also consistent with the factor-of-two bias in the cyclone/impactor data from the wind tunnel study and with the results of the prior field study that used dichotomous samplers as FRM devices (MRI, 1997).

Construction and Demolition

The dust component of particulate emissions from construction and demolition dominate the total particulate emissions from this source category. A $PM_{2.5}/PM_{10}$ ratio of 0.1 is recommended for dust emissions from construction and demolition. The proposed ratio is justified by the fact that the dominant dust source associated with construction and demolition projects is emissions from vehicle travel over unpaved surfaces. This is shown by case studies that calculate particulate emissions from representative construction activities (road, building, and nonbuilding construction). For example, the fine fraction ratio for scraper travel averages about 0.2 (Muleski et al., 2005), before correcting for the factor-of- two bias in the cyclone/impactor system. Moreover this includes the diesel emissions that are contained within the fine fraction component.

It should be noted that if large open areas are disturbed (such as in land clearing) and left unprotected, and the areas are exposed to high winds, open area wind erosion can also be an important contributor to dust emissions from this source category. The recommended fine fraction ratio identified below should be used for the open area wind erosion component.

Aggregate Handling and Storage Piles

Although usually not a major source in comparison with traffic around storage piles, the transfer of aggregate associated with bucket loaders and unloaders or conveyor transfer points is addressed directly in this section of AP-42. A $PM_{2.5}/PM_{10}$ ratio of 0.15 is recommended for transfer operations. This is half the current value in AP-42 and reflects adjustment for the factor-of-two bias in the cyclone/impactor test results.

The dominant dust component of particulate emissions from aggregate handling and storage piles typically consists of loader and truck traffic around the storage piles. AP-42 refers the reader to the unpaved roads section to find appropriate emission factors. A $PM_{2.5}/PM_{10}$ ratio of 0.1 is recommended for this source. The proposed ratio is consistent with that recommended above for traffic on unpaved surfaces.

Industrial Wind Erosion

For the dust component of particulate emissions from industrial wind erosion, a $PM_{2.5}/PM_{10}$ ratio of 0.15 is recommended. Industrial wind erosion is associated with crushed aggregate materials, such as coal or metallic ore piles. Examples would include open storage piles at mining operations. The proposed ratio is justified by portable wind tunnel tests of industrial aggregate materials which produced $PM_{2.5}/PM_{10}$ ratios averaging 0.4, as indicated by the current AP-42 fine fraction ratio given in Table 1. When these results are corrected for the bias associated with the cyclone/impactor system at very high PM_{10} concentrations observed in the effluent from the portable wind tunnel (exceeding 10,000 $\mu g/m^3$), the result is 0.15.

Agricultural Tilling

For the dust component of particulate emissions from agricultural tilling and related land preparation activities, which dominates the total particulate emissions from this source category, no new $PM_{2.5}/PM_{10}$ ratio can be recommended at this time, because of the lack of published test data. However, the current factor of 0.2, as listed in Table 1, appears to be generally consistent with the results of the current wind tunnel tests. It was found that the agricultural soils tested in the wind tunnel produced slightly higher ratios than the other test materials. In addition, the dust plume core concentrations from agricultural operations are generally observed to be less intense because of the lower equipment speeds involved and the lack of repeated travel over the same routes.

Open Area Wind Erosion

For the dust component of particulate emissions from open area wind erosion (not currently addressed in AP-42), a $PM_{2.5}/PM_{10}$ ratio of 0.15 is recommended. Open area wind erosion is associated with exposed soils that have been disturbed, removing the protection afforded by natural crusting. Examples would include freshly tilled agricultural fields prior to planting of crops. The proposed ratio is justified by wind tunnel tests of exposed soils (MRI, 1994), which produced $PM_{2.5}/PM_{10}$ ratios averaging 0.3. When these results are corrected for the bias associated with the cyclone/impactor system, the ratio becomes 0.15. This is consistent with the $PM_{2.5}/PM_{10}$ ratios in the range of 0.12 measured during dust storms on Owens Dry Lake (Ono, 2005).

Specific Revisions to AP-42

This section presents a listing of specific revisions to AP-42, for the purpose of incorporating the proposed $PM_{2.5}/PM_{10}$ ratios. As shown in Table 2, five subsections of AP-42 Section 13.2, Fugitive Dust, are impacted by the proposed changes. However, one of the five sections (13.2.3, Heavy Construction Operations) is impacted only indirectly because it refers to other sections of AP-42 for fugitive dust emission factors.

In most cases, the change in the $PM_{2.5}/PM_{10}$ ratio is accomplished by changing the appropriate PM-2.5 particle size multiplier (k-factor) for the respective emission factor equation. In addition, the changes need to be referenced to the WRAP test report (Cowherd and Donaldson, 2005).

Table 2. Specific revisions to AP-42 that are incorporated into the AP-42 sections included in Attachment A.

Source category	Sub-section	Title	Revision	Comments
13.2.1 Paved Roads	13.2.1.3	*Predictive Emission Factor Equation*	In Table 13.2.1-1, reduce k values for PM-2.5 by 40 percent, e.g., the new value is 1.1 g/VMT (and equivalent values for the other units)	Add ref. number for WRAP test report
	13.2.1.5	*Changes since Fifth Edition*	Modify statement (1) to reflect change in fine fraction	
		References	Add WRAP test report as Ref. 22	
13.2.2 Unpaved Roads	13.2.2.2	*Emission Calculation and Correction Parameters*	In Table 13.2.2-2, reduce k values for PM-2.5 by 33%, e.g., the new value is 0.15 lb/VMT for industrial roads and 0.18 lb/VMT for public roads (and equivalent values for the other units)	Add ref. number for WRAP test report
	13.2.2.4	*Updates since Fifth Edition*	Add sentences describing change in fine fraction	
		References	Add WRAP test report	
13.2.3 Heavy Construction Operations	–	–	No changes required	Refers to other AP-42 sections for emission factors
13.2.4 Aggregate Handling and Storage Piles	13.2.4.3	*Predictive Emission Factor Equations*	In k-factor table for Equation 1 for transfer operations, change PM-2.5 multiplier to 0.053 (dimensionless)	Add ref. number for WRAP test report
		References	Add WRAP test report	
13.2.5 Industrial Wind Erosion	13.2.5.2	*Emissions and Correction Parameters*	In k-factor table for Equation 1, change PM-2.5 multiplier to 0.075 (dimensionless)	Add ref. number for WRAP test report
		References	Add WRAP test report	

CONCLUSION

This study found that concentration measurements used to develop $PM_{2.5}$ emission factors for AP-42 were biased high by a factor of two, as compared to $PM_{2.5}$ measurements from FRM samplers. This factor-of-two bias helps to explain why researchers have often seen a similar discrepancy in the proportion of fugitive dust found in $PM_{2.5}$ emission inventories and modeled ambient impacts, as compared to the proportion observed on ambient filter samples. This study also shows that the $PM_{2.5}$ / PM_{10} ratios for fugitive dust should be in the range of 0.1 to 0.15. Currently, the fine fraction ratios in AP-42 range from 0.15 to 0.4 for most fugitive dust sources.

It is recommended that the results of this study by used to revise the AP-42 $PM_{2.5}$ emission factors for the following four fugitive dust source categories: paved roads, unpaved roads (public and industrial), aggregate handling and storage piles, and industrial wind erosion (AP-42 Sections 13.2.1, 13.2.2, 13.2.4, & 13.2.5, respectively). Emission estimates for other fugitive dust producing activities, such as construction and demolition, will also be affected since they are based on these four source categories. It is recommended that revisions to the current AP-42 sections for these fugitive dust sources be adopted as shown in Attachment A to this report.

IMPLICATIONS

The proposed revisions to AP-42 are needed to ensure the most accurate $PM_{2.5}$ and PM_{10} fugitive dust emissions inventories that are possible for regional haze regulatory purposes, given the available resources and the significant contribution of fugitive dust to visibility impairment. In particular, the revisions will affect the quantity of dust apportioned to the fine ($PM_{2.5}$) versus coarse ($PM_{2.5-10}$) size modes, which have significantly different effects on visibility and long-range transport potentials. This will reduce $PM_{2.5}$ emission estimates for fugitive dust sources to about half their current level. It will also increase the coarse-mode size fraction for fugitive dust, which would be important in the event that a PM coarse standard is adopted by the US EPA and emission inventories are developed.

The revisions will be helpful in developing accurate emission inventories for PM nonattainment, maintenance, and action plan areas throughout the country. Finally, the proposed modifications to the fine fractions associated with EPA's AP-42 emission factors will ensure widespread availability of the most recent and accurate scientific information.

References

Cowherd, C. and J. Donaldson. 2005. *Analysis of the Fine Fraction of Particulate Matter in Fugitive Dust.* Final report prepared for the Western Governors' Association, Western Regional Air Partnership (WRAP), MRI Project No. 110397, October 12, 2005. **[Describes wind tunnel study to determine fine fraction ratios]**

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Muleski, G. E., C. Cowherd, and J. S. Kinsey. 2005. "Particulate Emissions from Construction Activities*," J. Air & Waste Manage. Assoc.* **55:** 772-783. **[Summarizes field test results for emissions from major components of construction projects]**

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Pace, T. G. 2005. "Examination of Multiplier Used to Estimate $PM_{2.5}$ Fugitive Dust Emissions from PM_{10}." Presented at the EPA Emission Inventory Conference. Las Vegas NV. April 2005. **[Summarizes other field studies that can be used to develop $PM_{2.5}/PM_{10}$ ratios for fugitive dust emissions]**

USEPA. 2005. *Compilation of Air Pollutant Emission Factors, AP-42.* 6th Edition. Research Triangle Park, NC. **[EPA's emission factor handbook]**

CARB, 2003. *Emission Inventory Procedural Manual Volume III: Methods for Assessing Area Source Emissions,* California Air Resources Board, Sacramento, CA. November. **[Summarizes the recommended calculation procedures for agricultural emissions and other sources]**

Midwest Research Institute. 1999. *Estimating Particulate Matter Emissions from Construction Operations*. Prepared for USEPA, Research Triangle Park NC, September. **[Gives field test results for construction operations]**

Figure 1. Phase I test results show that the Cyclone/ Impactor method measured $PM_{2.5}$ concentrations that were two times higher than those measured by Federal Reference Method samplers when simultaneously exposed to the well-mixed dust environment in the wind tunnel.

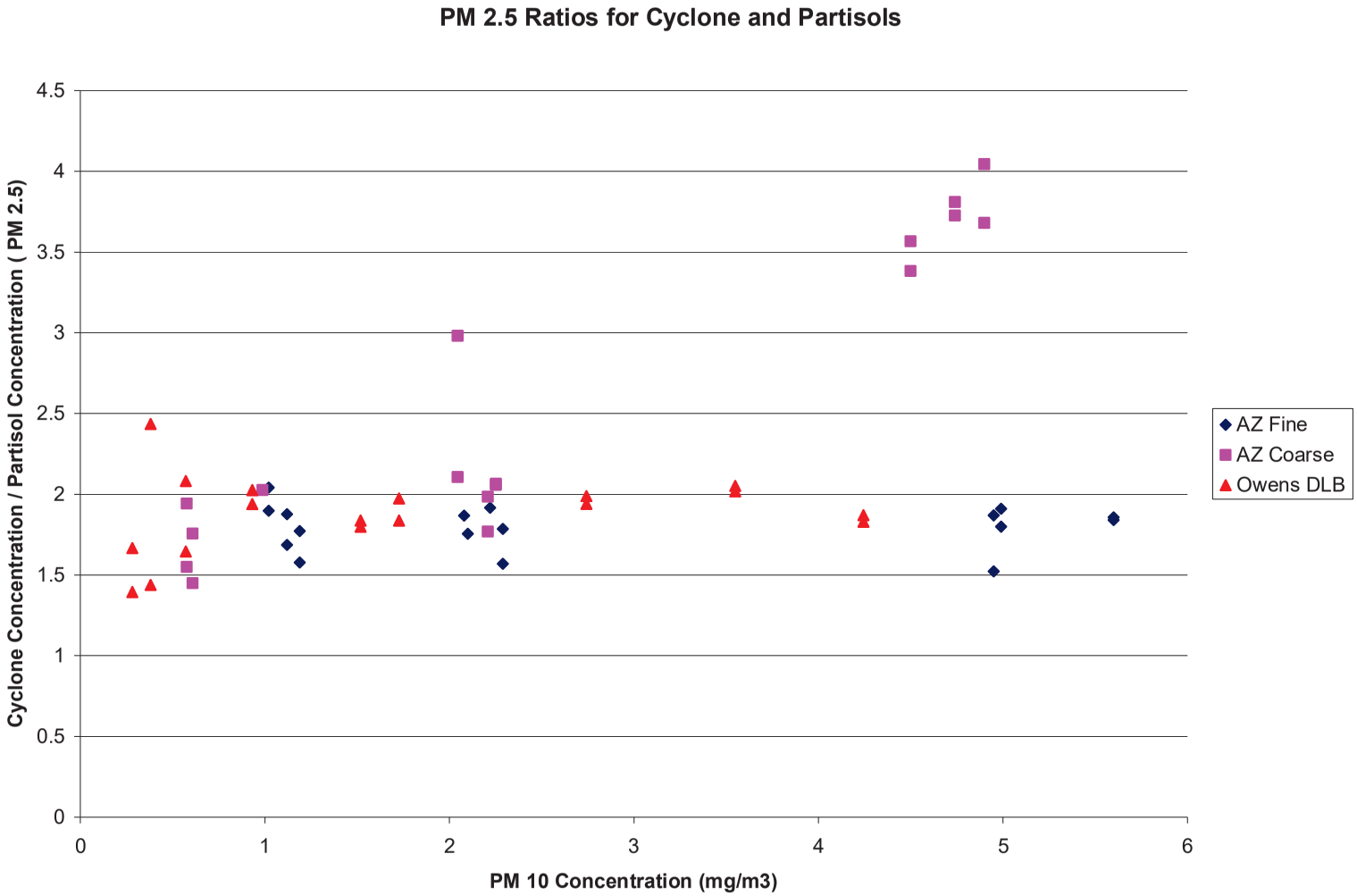
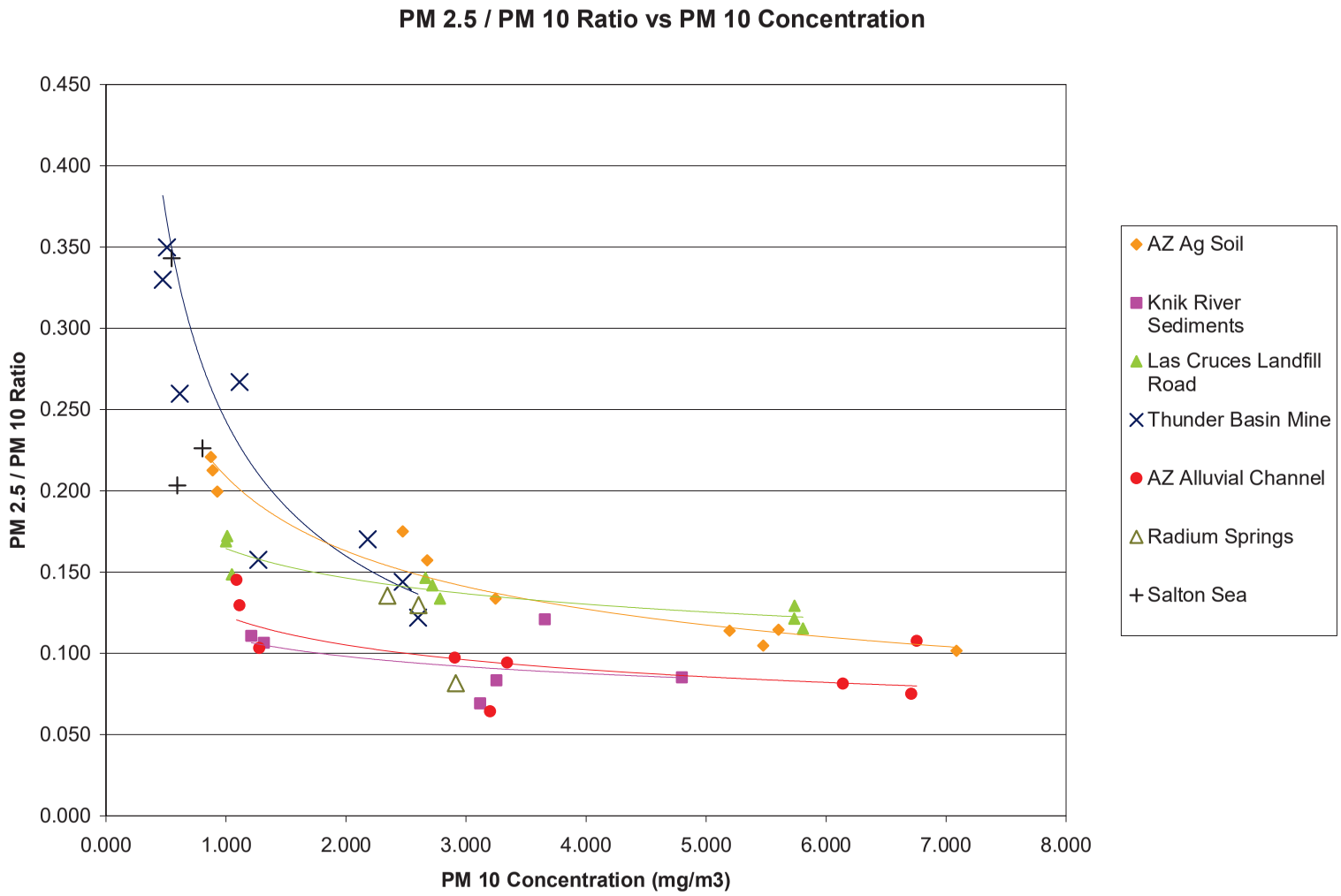


Figure 2. Phase II tests show that the $PM_{2.5}/PM_{10}$ ratio decreased with increasing PM concentrations, and could be expected to be in the range of 0.1 at concentrations that are typical of fugitive dust emission plumes.



Unpaved Road Surface Material Silt Content Values Used in the 1999 NEI

comment

State	Unpaved Road Surface Material Silt Content (%)
Alabama	3.9
Alaska	3.8
Arizona	3.0
Arkansas	3.9
California	2.6
Colorado	1.5
Connecticut	3.9
Delaware	3.9
DC	0.0
Florida	3.9
Georgia	3.9
Hawaii	3.8
Idaho	3.9
Illinois	2.6
Indiana	2.6
Iowa	2.5
Kansas	3.9
Kentucky	3.9
Louisiana	3.9
Maine	3.9
Maryland	3.9
Massachusetts	3.9
Michigan	2.6
Minnesota	2.7
Mississippi	3.9
Missouri	6.5
Montana	6.6
Nebraska	4.2
Nevada	1.7
New Hampshire	3.9
New Jersey	3.9
New Mexico	4.3
New York	4.7
North Carolina	5.1
North Dakota	3.9
Ohio	3.1
Oklahoma	4.4
Oregon	7.2
Pennsylvania	3.3
Rhode Island	3.9
South Carolina	3.9
South Dakota	3.1
Tennessee	2.0
Texas	5.6
Utah	3.9
Vermont	3.9
Virginia	3.2
Washington	3.9
West Virginia	3.9
Wisconsin	4.2
Wyoming	7.1
	3.8

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NO_x emissions from blasting operations in open-cut coal mining

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ABSTRACT

The Australian coal mining industry, as with other industries is coming under greater constraints with respect to their environmental impacts. Emissions of acid gases such as NO_x and SO_x to the atmosphere have been regulated for many years because of their adverse health effects. Although NO_x from blasting in open-cut coal mining may represent only a very small proportion of mining operations' total NO_x emissions, the rapid release and high concentration associated with such activities may pose a health risk. This paper presents the results of a new approach to measure these gas emissions by scanning the resulting plume from an open-cut mine blast with a miniaturised ultraviolet spectrometer. The work presented here was undertaken in the Hunter Valley, New South Wales, Australia during 2006. Overall this technique was found to be simpler, safer and more successful than other approaches that in the past have proved to be ineffective in monitoring these short lived plumes. The average emission flux of NO_x from the blasts studied was about 0.9 kt t^{-1} of explosive. Numerical modelling indicated that NO_x concentrations resulting from the blast would be indistinguishable from background levels at distances greater than about 5 km from the source.

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1. Introduction

Open-cut coal mining is widespread in the upper Hunter Valley in New South Wales (NSW) with several large mines operating within close proximity to the towns of Muswellbrook and Singleton. Consequently, there is community concern about the potential environmental impacts of mining on nearby populations.

Blasting, in particular, has the potential to affect areas outside the mine boundary and accordingly, vibration and dust emission limits are set in each mine's environmental licence. However, gaseous emissions of environmental concern, such as nitrogen dioxide (NO_2) may also be released during blasting operations. Currently, there are very little quantitative data relating to the magnitude of these emissions and it is not yet possible to determine if they contribute significantly to ambient levels in the main population centres.

The explosive ammonium nitrate/fuel oil (ANFO) is used almost universally throughout the open-cut coal mining industry. Under ideal conditions, the only gaseous products from the explosion are carbon dioxide (CO_2), water (H_2O) and nitrogen (N_2).

$$3NH_4NO_3 + CH_2 \rightarrow 3N_2 + CO_2 + 7H_2O \quad (1)$$

However, even quite small changes in the stoichiometry (either in the bulk material or caused by localised conditions such as moisture in the blast hole, mineral matter or other factors) can lead to the formation of substantial amounts of the toxic gases carbon monoxide (CO) and nitric oxide (NO) as shown.

$$2NH_4NO_3 + CH_2 \rightarrow 2N_2 + CO + 5H_2O \quad (2)$$

$$5NH_4NO_3 + CH_2 \rightarrow 4N_2 + 2NO + CO_2 + 7H_2O \quad (3)$$

In addition, some of the NO formed may oxidise in the presence of oxygen (O_2) to produce NO_2.

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$$2NO + O_2 \rightarrow 2NO_2 \quad (4)$$

Often in practice, large quantities of NO_2 are released from blasts which are observed as intense orange plumes.

Although these gases are not considered in their environmental licences, each mine is required to estimate annual emissions of CO, NO_x and SO_2 for the National Pollutant Inventory (NPI), compiled each year by the Australian government. These estimates are made by multiplying the amount of explosive consumed by an emission factor which is currently 8 kg t^{-1} for NO_x, 34 kg t^{-1} for CO and 1 kg t^{-1} for SO_2 (National Pollutant Inventory, 1999). These emission factors, however, are based on limited overseas data and are subject to high uncertainty.

Most of the studies which have examined NO_x formation from blasting have used blast chambers. The results from these studies do not necessarily correlate with what is observed during actual blasts. Few studies have attempted to measure NO_x emissions under actual field conditions, presumably because of the practical difficulties involved. Plumes from blasting lack confinement, can be very large in size and are affected by prevailing weather conditions. There is also a large quantity of dust associated with the blast and these factors combine to make physical sampling of the plume very difficult. There are also the obvious safety implications which restrict access to blast sites. Consequently, quantitative measurements of plume characteristics are generally unavailable. Nevertheless, it is important for mine operators, particularly when their operations are close to residential areas, to have some method for assessing NO_x formation and more importantly, predicting the severity of the NO_x plume. At present predictions of NO_x formation are subjective and are based on the blast engineer's knowledge of the area to be blasted (e.g. rock type, area of the mine, presence of water in the holes, etc.) and the ratings obtained from blasts performed under similar conditions. Quantitative flux estimations of NO_x released from a blast require measurement of concentration through the plume in both the horizontal and vertical axes.

Some of the options available to make these measurements are given in the following sections.

1.1. Physical sampling

Sampling of blasting fumes involves taking a sample of gas from the plume for subsequent analysis, which could be either on site or in an off site laboratory. Although physical sampling could in principle provide sufficient information to characterise a plume, there are a number of serious logistical problems with this approach:

- The size of the plume means that a large number of sample points would be required to sample across the width and height of the plume.
- The force of the explosion and the resulting debris would restrict the proximity of any sampling packages to the initial gas release.
- The potential toxicity of the plume; personnel cannot move through it to take samples, hence sampling stations must be fixed prior to the blast. This means that the path of the plume must be anticipated before the blast.

1.2. Continuous analysis

Another option is to use portable analysers to measure NO_x concentrations in real time. There are, however, disadvantages with this approach since a sample of the plume must be presented to the instrument for analysis. Usually a pump draws air through a small diameter tube into the instrument, but to achieve the necessary spatial characterisation of the plume, sample tubes would need to be positioned at various points throughout the plume. Thus many of the problems identified for the physical sampling would also apply to the use of continuous analysers.

1.3. Optical methods

There are several optical methods of analysis currently available that may be applicable to field measurements of NO_x. These include open-path Fourier Transform Infra-Red Spectroscopy (FT-IR), Correlation Spectroscopy (COSPEC) and Differential Optical Absorption Spectroscopy (DOAS). FT-IR has often been used in air pollution studies (e.g. Levine and Russwurm, 1994). It has also been used in mine situations to measure fugitive methane emissions. Kirchgessner et al. (1993) used open-path FT-IR (op-FT-IR) to estimate methane emissions from open-cut coal mines in the United States. The technique relies on passing a collimated infrared beam through ambient air over a path length of up to several hundred metres. In the Kirchgessner et al. (1993) study, the concentration of methane across the plume was measured then wind speed data and a Gaussian plume dispersion model were used to estimate the methane emission rate from the mine. These authors subsequently developed a modification of their method which improved its accuracy (Piccot et al., 1994, 1996). The improved method was essentially the same as described above except that methane concentrations were measured at several elevations to better characterise the plume.

In principle, open-path FT-IR could be used to measure NO_x in blast plumes since it is sensitive to NO, NO_2, and CO along with other gases. Infrared radiation is also strongly absorbed in many parts of the spectrum by both CO_2 and water which are very likely to be present in high concentrations in blast plumes and this may tend to obscure the NO_x signal. High resolution instruments may resolve at least some of the NO_x absorption lines, however, a more serious drawback with op-FT-IR is that the infrared beam would be substantially attenuated by the dust thrown up by the blast. In the period immediately after the blast when the dust level is very high it is likely that the IR beam would be completely blocked thus making measurements impossible.

Another well established optical method is Correlation Spectroscopy (COSPEC). The system was first described by Moffat and Milan (1971) and was designed to measure point source emissions of SO_2 and NO_2 from industrial plants but found a niche application in the measurement of SO_2 fluxes from volcanoes (Galle et al., 2002). The COSPEC system utilises a "mask correlation" spectrometer and was designed to measure vertical or slant columns using

sky-scattered sunlight. By traversing beneath plumes with the mobile instrument, the concentration of the column is calculated and, once multiplied by the plume velocity, produces a source emission rate. These instruments are limited to detecting only those species where masks are available. They also suffer from interferences from other atmospheric gases and light scattering from clouds or aerosols that can produce errors in column densities (Chalmers Radio and Space Science, website).

The DOAS technique is a relatively new technique that is gaining widespread acceptance as an air pollution monitoring method. Like the open-path FT-IR method, the DOAS can simultaneously measure concentrations of a number of species over path lengths which typically range from hundreds of metres to kilometres.

A DOAS, configured as an 'active system', Fig. 1, has three main parts – a light emitter, a light receiver and a spectrometer. The emitter sends a beam of light to the receiver (in some cases the emitter and receiver are contained in the same unit and the light beam is reflected off a remotely located passive reflector). The light beam contains a range of wavelengths, from ultraviolet to visible, although instruments are now available with an infrared source, which extends the range of compounds that can be detected. Different pollutant molecules absorb light at different wavelengths along the path between the emitter and receiver. The receiver is connected to the spectrometer which measures the intensity of the different wavelengths over the entire light path and through the data system converts this signal into concentrations for each of the species being monitored.

DOAS instruments are routinely used to measure SO_2, NO_2 and O_3.

More recently, advances in miniaturising UV–vis spectrometers has lead to the development of much more compact DOAS units, configured as a passive system (Fig. 1), which have come to be known as "mini-DOAS". The mini-DOAS system has so far been used mainly in the study of SO_2 fluxes in volcanic emissions (McGonigle et al., 2003).

2. Methodology

2.1. Field measurements

A portable DOAS (mini-DOAS) manufactured by Resonance Ltd was used in this study. The instrument covers a spectral range of 280–420 nm and can measure sub-part per million levels of NO_2 and SO_2. The unit, which comprises a telescope, scanning mirrors, calibration cells and a miniature CCD array spectrometer (Ocean Optics USB2000 spectrometer), is housed in a small package which is mounted on a tripod. Calibration of the instrument was carried out using the internal calibration cell. The concentration of the cell was equivalent 50 ppm m. No SO_x measurements were undertaken.

Data collection and processing were performed by Ocean Optics OOIBase32 software loaded in a laptop computer. This results in a more compact system that is easier to deploy at mine sites and provides greater flexibility in positioning the instrument in relation to the blast plume.

Prior to each monitored blast, a dark spectrum was collected by blocking light from entering the spectrometer and a scan was performed. To produce a reference spectrum, a further scan was performed in a clear sky background which contained background absorption from NO_2. The reference spectrum was required in order to determine the increase in concentration of NO_2 above ambient levels in the blast plumes.

The plume resulting from each blast was tracked with the spectrometer until the NO_2 concentration was indistinguishable from the surrounding sky. During each field measurement, the mini-DOAS and a video camera were positioned a safe operating distance from the blast at all times.

NO_2 concentrations in the plume were calculated by subtracting the dark spectrum from the measured spectrum and the reference spectrum using the supplied software.

The results obtained from the mini-DOAS are a path-averaged NO_2 concentration profile measured in units of parts per million metre (ppm m). The mini-DOAS results must be divided by the path length through the plume to yield a concentration. To estimate the amount of NO_2 released from each blast it was necessary to multiply the concentration by the volume of the plume. Hence it was necessary to estimate the dimensions of each plume.

All of the blasts monitored were video-taped using at least one, and sometimes two, video recorders. The distances between the cameras and the blast were measured by locating their positions with a handheld GPS receiver.

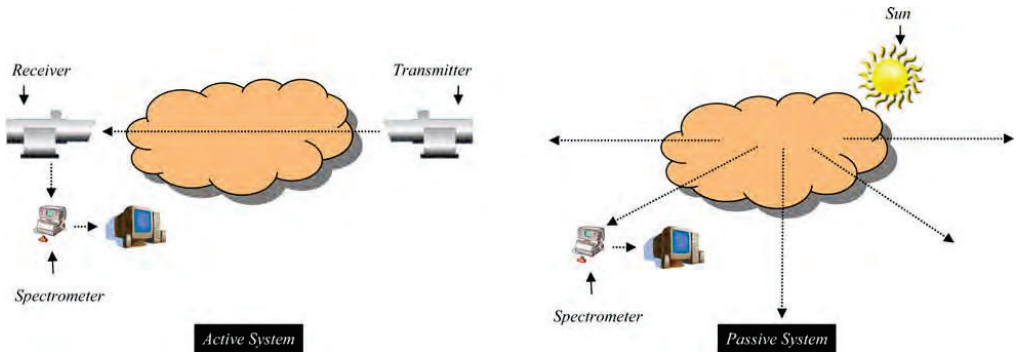


Fig. 1. Schematic diagram of DOAS systems operating in both active and passive modes.

Wind speed and directional data used to plot the directional path of the plume were obtained from a series of meteorological stations located around the mining lease. Simple trigonometry was employed to determine the distance from the video camera to the plume at the corresponding time intervals.

A rudimentary method of photogrammetry was then used to estimate the size of the plume based on still images extracted from the videos. Ratios of the plume to picture size in both the vertical and horizontal planes were made.

Once the plume to camera distance and the constraining angle for the plume is known, a crude three-dimensional estimate of the plume dimension was calculated using basic trigonometric functions. An example of the dimensions determined for a plume using this method is shown in Fig. 2.

Ground level measurements were carried out using a Greenline 8000 portable gas analyser. This instrument is capable of continuous, simultaneous analysis of O_2, CO_2, CO, SO_2, NO and NO_2. It is battery powered and can operate unattended for up to about 2 h. The instrument was calibrated against a standard gas mixture before each use. Data were logged on a laptop computer connected to the instrument.

For each experiment, the instrument was set up downwind of the blast in a location where the plume was expected to pass, but far enough away to avoid flying debris. The inlet probe was fixed at about 2 m above ground level.

It must be noted that selecting an appropriate location for the instrument was often difficult. In many cases, the wind conditions were quite variable, especially within the pit so it was not always possible to correctly anticipate the path of the blast plume. As well, the layout of the mine pit and safety considerations imposed constraints on where the instrument could be placed. Because of these problems, the plumes from many of the blasts did not pass over the analyser and data was not recorded.

2.2. Modelling

A simple modelling exercise was undertaken for this study to determine if the release of NO_2 from a blast could be of detriment to persons exposed to the plume within 5 km of the release. The results of this study are indicative and based on the assumption that the model used is appropriate. Modelling generally relies on local observational data to confirm the performance of the model. The difficulty in measuring emissions from mining blasts has meant that in this case the model is used as an indicator relying on the verifications used in the development of the chosen model. For this reason we have modelled concentrations directly downwind of theoretical blasts with AFTOX (Kunkel, 1991), a USEPA approved dispersion model (http://www.epa.gov/scram001/dispersion_alt.htm#aftox). The original DOS based QuickBasic code was transformed into Excel macros to enable many scenarios to be run.

AFTOX is a Gaussian Puff model developed for the United States Air Force to assess real time toxic chemical releases. The model uses information from US Air Weather Service (AWS) stations to calculate dispersion based on measured atmospheric conditions. As for all Gaussian models, the spread of pollutants is governed by dispersion coefficients in the horizontal (σ_y) and vertical (σ_z) directions. These coefficients depend on the atmospheric stability derived from the AWS data. In this study, the scenarios were modelled by predefining the wind speed and atmospheric stability classes. The wind speeds modelled ranged from very low (0.5 m s^{-1}) to moderate (10 m s^{-1}). Stability was modelled in six steps representing the standard Pasquill-Gifford stability classes, i.e. A–F, where A, B and C represent unstable conditions (where A is the most unstable), D is neutral and E and F are stable conditions. These stability classes are used to categorise the rate at which a plume will disperse. Unstable conditions might be found on a sunny day with light winds leading to rapid plume dispersion while the stable conditions may occur in clear skies with light winds and perhaps a temperature inversion present. Plume spread is slow in these circumstances.

AFTOX is operated by assuming an emission release from a single location. The emissions can be either continuous or instantaneous. In this study AFTOX was used to describe an area source by representing it as a large number of individual points. The area of the emission (i.e. the area over which the explosives were distributed) was

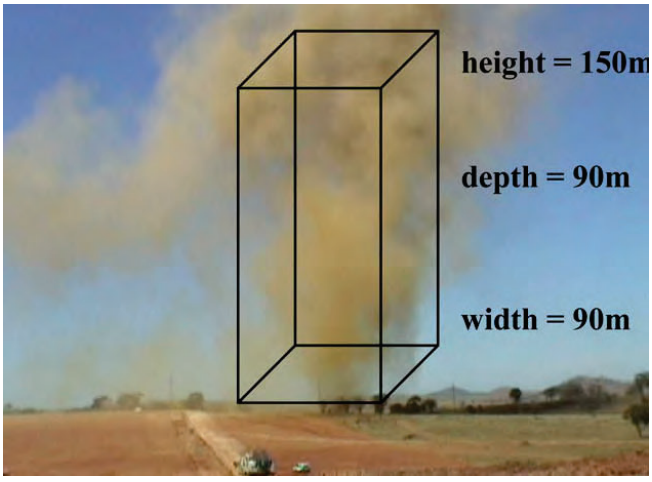


Fig. 2. Blast plume with estimated dimensions.

assumed to be 100 m × 200 m based upon sizes commonly observed during the field measurements. The area was subdivided into 10 m × 10 m units. Each square was represented by a point source with its source at the centre. In total, the area was modelled as 231 separate point sources (see Fig. 3). The total flux of emissions for the source was set at 100 kg. To estimate the maximum concentration and pollutant exposure values, the values should be multiplied by an appropriate scaling factor.

One hundred and twenty scenarios were modelled in which the 100 kg of emissions were spread randomly throughout the source area. A multi-stage process was employed for this task. In the first step, the total maximum number of points emitting was determined. This was defined by a random number between 20% and 80% of the maximum number of sources (in this case 231). The range chosen was an estimate from the portion of blasts that appeared to fume in conditions witnessed during this study. The total emission was then divided by this number. Each portion of the total emission was then placed randomly within the emission area. This process allowed certain points to receive multiple portions of the total emissions enabling the formation of hot spots. An example of one emission grid (Scenario 1 of 120) is displayed in Fig. 4.

Concentrations were determined for each of the 120 emission scenarios at distances of 200 m, 300 m, 400 m, 500 m, 750 m, 1 km, 1.25 km, 1.5 km, 2 km, 2.5 km, 3 km, 4 km and 5 km from the origin of the source. A concentration was determined for a number of discrete times that encompassed the complete plume travelling past the receptor. Further the concentrations were determined at 21 locations 10 m apart in a plane parallel and directly downwind of the source area (see Fig. 3). An average concentration from each of the receptors was determined; in this case with N equal to 21.

$$C^{*} = \frac{1}{N}\sum_{i=1}^{N} C_i \tag{5}$$

The average for each scenario was then used to create an ensemble average and standard deviation for the entire run (i.e. $N = 120$).

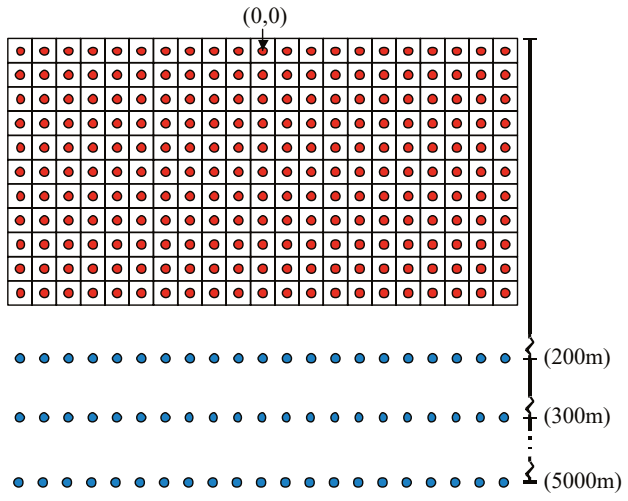


Fig. 3. Emission grid and receptor array setup.

$$\overline{C} = \frac{1}{N}\sum_{j=1}^{N} C_j^{*} \tag{6}$$

$$\sigma_{\overline{C}} = \frac{1}{N}\sum_{j=1}^{N}\left(C_j^{*} - \overline{C}\right)^2 \tag{7}$$

$$C_{\max} = \max_{k=1}^{N}[\overline{C}_k] \tag{8}$$

A dosage expressed in ppm s was determined from the times when the ensemble average plume travelled past the receptors located at each distance downwind of the source. Again N represents each discrete time step (dt) where $C' \neq 0$.

$$C_{\text{dose}} = \sum_{k=1}^{N}(\overline{C}_k)dt \tag{9}$$

The relative variation for the dosage is provided by similarly treating the ensemble standard deviation.

$$\sigma_{\text{dose}} = \sum_{k=1}^{N}(\sigma_{\overline{C}k})dt \tag{10}$$

3. Results and discussion

3.1. Field measurements

Plume measurements were made using the mini-DOAS spectrometer at two open-cut mine sites located in the Hunter Valley. The combination of the spectral analysis and the plume estimation technique allowed for NO_2 concentration and mass flux estimates to be made remotely, totally eliminating the requirement of physical sampling.

An example of the spectral output produced by the mini-DOAS is shown in Fig. 5. The spectral output consists of the NO_2 concentration (ppm m) as a function of time. The figure also contains a series of photographs depicting the formation of a blast plume at time intervals of 70, 110, 163, 250 and 350 s post-blast initiation. It is worth noting the change in intensity of the colour of plume and size as a function of time.

Reliable concentration measurements with the mini-DOAS may only be made when the spectrometer is aimed into a sky background above the horizon from the point of observation. In this example, a peak concentration of 580 ppm m was achieved in 163 s post-blast initiation (third image from the left). At this time the plume has risen above the horizon from the point of observation. The plume to mini-DOAS distance at this stage is approximately 500 m, with an estimated plume depth of 105 m. This results in a NO_2 concentration of 5.6 ppm at that particular stage of the plumes' dispersion.

After 350 s, the plume is barely visible and is now estimated to be approximately 650 m from the mini-DOAS unit. The plume depth has increased to 125 m with

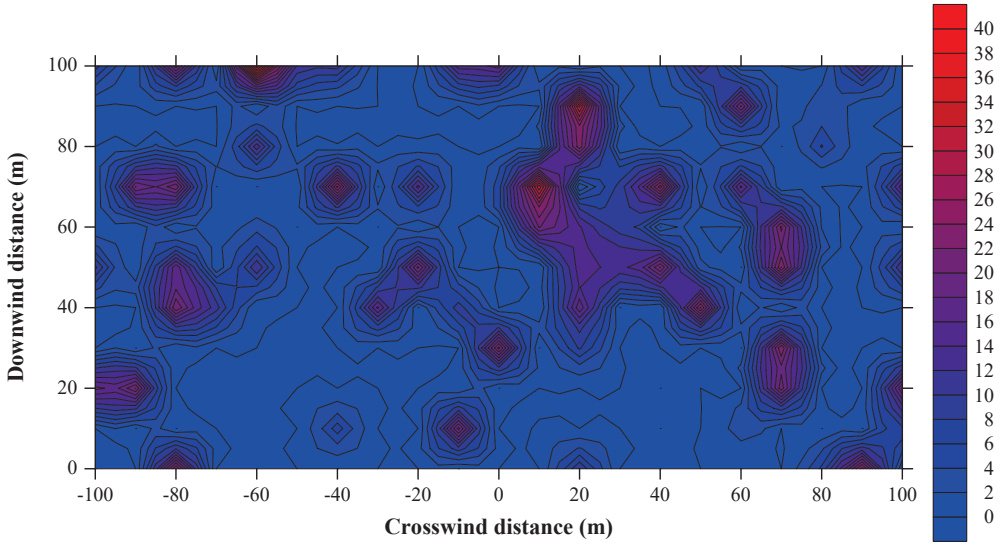


Fig. 4. Example of emission grid for 1 of the 120 scenarios modelled (the scale on the right hand side refers to NO_2 concentration in ppm).

a corresponding increase in plume volume by a factor of two. This expansion of the plume corresponds to a decrease in NO_2 concentration to 2.8 ppm.

At 360 s the plume was no longer visible to the eye and was lost for a short period of time to the mini-DOAS. This, however, was rectified with scanning of the sky with the spectrometer until the invisible plume was tracked for a further period.

Results for all plumes monitored during field work at both mine sites are given in Table 1. The table gives the peak NO_2 concentration as measured by the mini-DOAS above the horizon. Also given in the table is the plume volume at peak concentration and the calculated mass of NO_2 released from the blast. The mass of ANFO typically used in a blast was on average 210 tonnes, ranging from 60 to 565 tonnes. The explosive was distributed over an area of typically 200 m × 100 m containing approximately 200 bole holes with 200 mm diameter and to a depth of 25 m.

From the table the maximum NO_2 concentrations were found to range from 0 to about 7 ppm. This range of concentrations translated to 0–63.3 kg of NO_2 in the plume. However, no correlation can be made between blast charge and NO_2 levels.

During the measurements with the mini-DOAS ground level measurements were also carried out using a portable combustion gas analyser (Greenline 8000) to augment the airborne measurements made by the mini-DOAS. For NO_2 the ground level measures were higher than those observed using the mini-DOAS at higher altitudes. When the results of both measurement methods were applied to

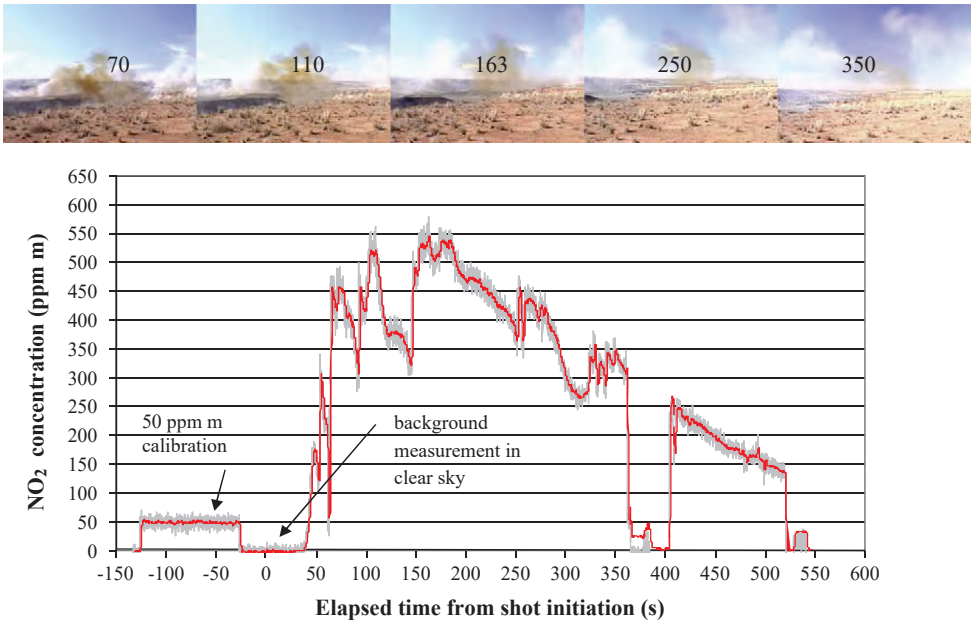


Fig. 5. Typical NO_2 spectrum demonstrating plume colour characteristics relative to concentration level.

Table 1
Through plume measurement results

Date	Total ANFO charge (t)	Peak NO_2 Conc (ppm)	Plume volume ($m^3 \times 10^{-6}$)	Mass of NO_2 (kg)	Emission flux (kg t^{-1} ANFO)		
					NO	NO_2	NO_x
12/12/2005	281	3.7	1.4	9.9	0.5	0.03	0.6
13/12/2005	150	0.4	5.3	3.7	0.4	0.03	0.4
14/12/2005	119	0.0	0.0	0.0	0.0	0.00	0.0
21/12/2005	229	1.0	4.4	7.9	0.6	0.04	0.6
22/12/2005	211	0.0	0.0	0.0	0.0	0.00	0.0
23/12/2005	222	0.0	0.0	0.0	0.0	0.00	0.0
5/01/2006	177	1.0	0.2	0.4	0.0	0.00	0.0
6/01/2006	275	1.1	15.3	30.6	1.8	0.12	1.9
12/01/2006	225	1.6	6.2	18.3	1.3	0.08	1.4
18/01/2006	169	1.3	1.7	0.2	0.4	0.02	0.4
23/01/2006	139	2.1	4.2	16.7	1.9	0.12	2.0
25/01/2006	155	0.4	4.4	2.9	0.3	0.02	0.4
30/01/2006	132	0.7	5.3	7.1	0.8	0.05	0.9
22/02/2006	224	0.0	0.00	0.0	0.0	0.00	0.0
1/03/2006	194	1.6	20.6	63.3	5.0	0.32	5.3
12/05/2006	362	6.5	1.9	23.3	1.0	0.06	1.1
15/05/2006	131	0.3	3.2	1.7	0.2	0.01	0.2
19/05/2006	168	0.0	0.00	0.0	0.0	0.00	0.0
30/05/2006	100	0.8	0.00	1.0	0.0	0.00	0.0
1/06/2006	365	0.7	3.5	4.9	0.2	0.01	0.2
6/06/2006	145	0.8	11.5	17.5	1.9	0.12	2.0
15/06/2006	60	0.0	0.00	0.0	0.0	0.00	0.0
26/06/2006	254	4.3	0.3	2.1	0.1	0.01	0.2
27/06/2006	212	5.6	0.9	10.0	0.7	0.04	0.7
28/06/2006	241	0.0	0.00	0.0	0.0	0.00	0.0
6/07/2006	565	2.8	2.7	14.0	0.4	0.03	0.4
13/07/2006	184	7.0	1.0	12.6	1.1	0.07	1.2

dispersion modelling techniques strong agreement was observed.

Point measurements which were made on Greenline 8000 indicated that a loose relationship existed between NO and NO_2 concentration. Although a strong correlation was not found, there is a general trend of increasing NO_2 with increasing NO. It was generally found that the relative proportion of NO to NO_2 from our data set was 27 to 1. This

Table 2
Maximum calculated NO_2 concentrations downwind of source

	200 m	300 m	400 m	500 m	750 m	1000 m	1250 m	1500 m	2000 m	2500 m	3000 m	4000 m	5000 m
WSPD = 0.5 m s^{-1}													
Stab A	83.0	30.0	14.4	7.9	2.5	0.9	0.4	0.2	0.1	0.0	0.0	0.0	0.0
Stab B	145.8	69.3	40.8	25.4	10.1	4.8	2.6	1.6	0.7	0.4	0.2	0.1	0.1
Stab C	219.4	122.0	80.8	55.9	26.8	14.3	8.6	5.6	2.8	1.6	1.0	0.5	0.3
Stab D	321.1	201.5	146.0	113.1	64.6	40.2	26.1	18.6	10.5	6.7	4.5	2.4	1.4
Stab E	390.2	267.4	204.3	165.5	109.6	75.9	54.6	41.3	26.4	17.9	12.7	7.1	4.5
Stab F	464.1	339.8	269.0	222.6	154.5	114.9	88.6	69.7	50.4	37.0	27.8	16.7	11.0
WSPD = 3 m s^{-1}													
Stab A	78.5	29.1	14.2	7.7	2.4	0.9	0.4	0.2	0.1	0.0	0.0	0.0	0.0
Stab B	137.6	67.7	39.7	25.1	10.0	4.8	2.6	1.6	0.7	0.4	0.2	0.1	0.1
Stab C	211.6	118.7	77.6	55.2	26.0	14.0	8.6	5.6	2.8	1.6	1.0	0.5	0.3
Stab D	312.5	197.9	143.2	110.0	62.5	39.3	26.1	18.2	10.5	6.7	4.5	2.4	1.4
Stab E	383.0	267.0	202.1	162.6	106.3	73.7	54.1	40.3	26.1	17.7	12.5	7.2	4.5
Stab F	461.5	344.6	268.4	220.8	151.1	112.3	86.1	67.6	48.9	36.4	27.5	16.6	11.0
WSPD = 7.5 m s^{-1}													
Stab A	62.5	25.5	13.0	7.3	2.3	0.9	0.4	0.2	0.1	0.0	0.0	0.0	0.0
Stab B	111.9	56.1	34.2	22.6	9.4	4.6	2.6	1.6	0.7	0.4	0.2	0.1	0.1
Stab C	173.3	100.4	66.5	47.7	23.8	13.2	8.2	5.4	2.7	1.6	1.0	0.5	0.3
Stab D	261.2	167.9	122.1	92.3	54.8	35.3	23.7	17.2	10.1	6.5	4.4	2.3	1.4
Stab E	325.9	232.2	175.8	139.6	89.5	63.8	46.7	36.0	23.9	16.8	12.1	7.0	4.4
Stab F	394.6	302.7	237.0	194.3	132.2	96.1	73.3	59.0	43.6	33.3	25.7	15.8	10.5
WSPD = 10 m s^{-1}													
Stab A	53.0	22.6	11.9	6.9	2.3	0.9	0.4	0.2	0.1	0.0	0.0	0.0	0.0
Stab B	92.3	49.7	31.0	20.9	9.0	4.5	2.5	1.5	0.7	0.4	0.2	0.1	0.1
Stab C	140.1	84.2	57.7	42.1	21.7	12.6	7.9	5.3	2.7	1.6	1.0	0.5	0.3
Stab D	205.5	138.3	102.4	79.9	48.6	31.8	22.1	16.4	9.7	6.4	4.3	2.3	1.4
Stab E	254.0	184.0	143.0	116.4	78.0	56.2	42.6	33.1	22.7	16.0	11.6	6.9	4.4
Stab F	306.8	235.8	189.6	157.9	109.9	82.8	64.5	52.2	40.0	30.9	24.0	15.2	10.2

relationship enabled the estimation of the NO fluxes in the blast plume with a reasonable level of confidence.

The results obtained in this study are the only published quantitative data available on blast plume gas composition that the authors are aware of and it is useful to compare them to the emission factors currently used for NPI estimates.

Based on the NO_2 measurements and estimates of NO, the flux for NO_x was calculated to be in the range of 0.04–5.3 kg t^{-1} ANFO. The average flux level for all the blast plumes measured was 0.9 kg t^{-1}. This figure is considerably lower than the current NPI emission factor which is 8 kg t^{-1}.

3.2. Modelling

Results of the modelling runs are summarised in Table 2 and show the peak NO_2 concentrations (ppm) at various points downwind of the blast for the six atmospheric stability classes considered.

Examples of the modelled data are plotted in Fig. 6 and Fig. 7. In Fig. 6 a plot is displayed for the concentration estimate of one scenario at a distance of 200 m from the source origin and for a wind speed of 2 m s^{-1} and a stability class C. In this plot 21 lines are shown representing the dose received directly downwind of the source at the locations displayed in Fig. 3. In this figure it is apparent that there is a considerable difference in the concentration predicted at each of the 21 receptors. It should be noted that the distance of 200 m is defined from the origin of the source area (0, 0) as displayed in Fig. 3. At this distance emission sources at 100 m will cause significantly higher concentrations than those occurring at positions toward the origin. In comparison the concentrations predicted at the receptor array 1 km from the source show more normally defined distributions with maxima occurring towards the middle receptors as a result of crosswind diffusion. Receptors toward the edge of the sample array receive less crosswind influence and are, therefore, smaller in concentration. Also apparent in these two figures is the considerable difference in the predicted peak concentrations with the values at 1 km up to 25 times lower than at 200 m. When viewing Table 2, the peak values at 5 km approach ambient levels for all but the most stable conditions which are quite commonly over predicted with Gaussian models. For future studies it is recommended that a long path technique on a mining lease boundary may provide both a measure of the model accuracy as well as a direct measure of the impact in areas directly surrounding the mining area.

The data presented in this study represent a dose directly downwind of the source and as such are a worst case scenario for exposure. The averages of the 21 receptors (i.e. the average concentration directly downwind of the source) for each of the 120 scenarios modelled were used to determine the selected data. The number of scenarios modelled was arbitrarily chosen to allow 10 scenarios to be run on each machine in a cluster of 12 computers. The maximum concentration in Table 2 is the maximum ensemble average obtained from the average of the 21 receptors for the 120 scenarios modelled. Maximum concentrations at individual locations directly downwind of hot spots are obviously higher than the values reported in this table.

When viewing Table 2 it is apparent that the peak concentrations drop dramatically as the receptor moves away from the source. It is also apparent that the peak concentrations vary little as a function of wind speed although the plume width will vary. In AFTOX a downwind concentration is determined in two steps. In the first step the size of the initial plume envelope is estimated. In its default mode AFTOX determines the size of the envelope (assumed to be a cylinder of equal height and width) from the magnitude of the emission rate. In this report the size is set at 10 m to match the grid structure used for the area

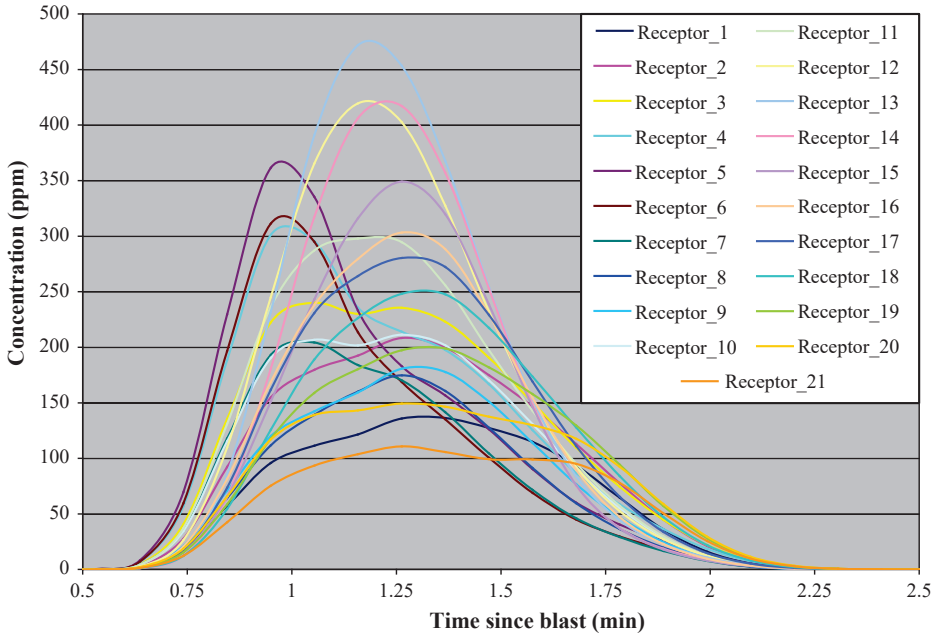


Fig. 6. Calculated NO_2 concentration profiles 200 m from source.

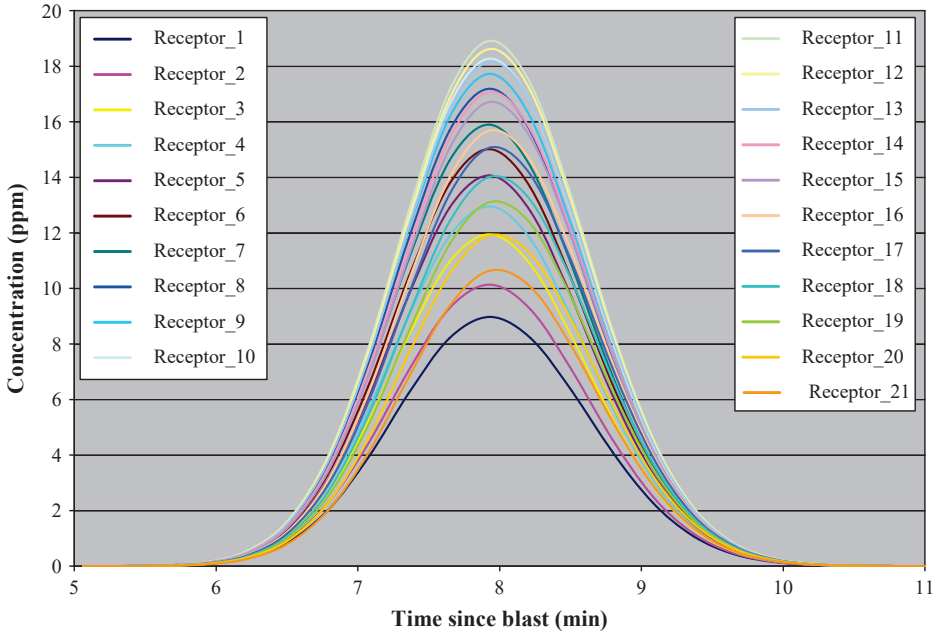


Fig. 7. Calculated NO_2 concentration profiles 1 km from source.

source. AFTOX in this regard ignores the effect of wind speed on the size of the initial envelope and as such the initial concentration of the plume is identical irrespective of wind speed by ignoring longitudinal (i.e. downwind) spread of the initial release. In the second step the concentration downwind of the initial release is determined by estimating the growth of a puff in three dimensions which in this case explicitly includes longitudinal plume spread which is assumed to be equal to the degree of crosswind spread. The degree of this spread is determined solely from the prescribed atmospheric stability class which ignores any wind speed dependence.

While the peak concentrations are similar, the dose received at a receptor is linearly dependent on wind speed. Emissions released into an atmosphere with higher wind speeds result in a receptor receiving doses for a smaller period of time. It should be noted that some of the differences in the peak concentrations displayed in Table 2 result from the number of discrete time steps used to calculate the concentrations. This was set at 25 intervals between the onset and finish of a plume as it passes by the receptor. This time is dependent on atmospheric stability and the distance from the source. In AFTOX, the puffs are assumed to disperse in the direction of plume travel proportionally with the degree of crosswind spread. As such, portions of the plume arrive before and after the main bulk of the emissions and the effect clearly demonstrated in Figs. 6 and 7. The moderate number of discrete times modelled to capture this effect while generally adequate may have led to a degree of variation particularly at larger distances from the source.

Again it should be noted that the modelled figures assume an area wide flux of 100 kg which is larger than observed in the blast recorded during this study. It should also be noted that while some of the concentrations are high close to the source the concentration at a particular location occurs for a brief period of time which is determined by the wind speed.

4. Conclusions

A portable open-path spectroscopic method was found to be effective for measuring NO_2 emissions from blasting. Overall this technique was found to be simpler, safer and more successful than other approaches that in the past have proved to be ineffective in monitoring these short lived plumes.

Quantitative measurements of NO_2 in plumes from blasting were made at two open-cut mines. The results showed that NO_2 was present in most of the plumes but in relatively low concentrations (typically ranging between 0 and 7 ppm). The highest concentration measured during all the field campaigns was about 17 ppm at ground level.

Based on field measurements, the emission factor currently used in compiling the Australian National Pollutant Inventory was found to be approximately eight times greater than that observed in our investigation. This would suggest that an over estimation of NO_x is made if the current factor is used.

Numerical modelling of the behaviour of plumes resulting from blasting was made to assess the possible downwind concentrations of NO_2. These results were compared to ambient NO_x measurements made in Muswellbrook.

- Modelling results were consistent with concentration measurements within the plumes at relatively short distances from the blast (i.e. up to about 1 km).
- Ambient monitoring did not detect NO_x events that could be attributed to individual blasts. Modelling suggested that these emissions would be very low at

distances greater than 5 km from the blast and may be indistinguishable from background levels; typically of the order of several parts per billion, in most cases.

Acknowledgements

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FACTORS AFFECTING ANFO FUMES PRODUCTION

James H. Rowland III and Richard Mainiero

ABSTRACT

For many years there have been small scale tests available for evaluating the toxic fumes production by cap-sensitive explosives (DOT Class 1.1), but these could not be used with blasting agents due to the large charge sizes and heavy confinement required for proper detonation. Considering the extensive use of blasting agents in construction and mining, there is a need to determine the quantities of toxic fumes generated by blasting agents. At the International Society of Explosive Engineers Twenty Third Annual Conference on Explosives and Blasting Technique in 1997, the authors reported on a facility for detonating large (4.54 kg), confined blasting agent charges in a controlled volume that had been constructed at the National Institute for Occupational Safety and Health's Pittsburgh Research Lab's Experimental Mine. Since 1997, this facility has been used to collect data on toxic fumes produced by the detonation of various ammonium nitrate/fuel oil (ANFO) mixtures and several cap-sensitive explosives.

ANFO composition ranging from 1 to 10 percent (pct) fuel oil have been studied. As expected from previous studies, with an increase in fuel oil content the carbon monoxide production increases, while nitric oxide and nitrogen dioxide production decrease. The detonation velocity varies from 3,000 to 4,000 m/sec for the 1 to 10 pct range of fuel oil content, suggesting that ANFO mixes with improper fuel oil content may appear to detonate properly, while their fume production differs significantly from optimum. The study also considers such factors as degree of confinement, water contamination, and aluminum content on blasting agent fume production. Results indicate that water contamination of the ANFO has little effect on carbon monoxide production, but causes significant increase in nitric oxide and nitrogen dioxide production. Decreasing confinement from Schedule 80 steel pipe to 0.4-mm thick sheet metal also has little effect on carbon monoxide production, but significantly increases nitric oxide and nitrogen dioxide production. Adding 5 and 10 pct aluminum to the ANFO had no clear effect on carbon monoxide, nitric oxide, or nitrogen dioxide production.

INTRODUCTION

In February of 1997 a paper entitled "A Technique for Measuring Toxic Gases Produced by Blasting Agents" was presented at the 23rd Annual Conference on Explosives & Blasting Technique in Las Vegas, Nevada. That paper discussed a method for measuring toxic fumes produced by detonation of blasting agents. The research reported here is a continuation of that work.

Detonating ANFO in steel pipe in the Pittsburgh Research Lab (PRL) mine fumes chamber yields a baseline for comparing relative fumes production for blasting agents, but is by no means a predictor of what will happen in the field. In actual blasting operations, the confinement of the detonating ANFO will probably be less than that offered by the 4-in, Schedule 80 steel pipe employed in most tests. Additionally the ANFO evaluated in the PRL mine chamber is carefully mixed the day before and care is taken to prevent contamination. In practice, ANFO may not be exactly the 94/6 ammonium nitrate/fuel oil ratio desired or may be loaded into boreholes weeks before it is shot, exposing the explosive to water seeping into loaded boreholes and possible fuel oil evaporation. The current research looks at these factors and others in an effort to determine how they affect fumes production. Fumes measurements in the mine chamber were carried out for ANFO mixtures other than 94/6, ANFO contaminated with up to 10 pct water, ANFO detonated with less confinement than that offered by Schedule 80 steel pipe, and ANFO contaminated with limestone rock dust. Additionally, several cap-sensitive explosives, as well as ANFO containing up to10 pct aluminum were also studied to gain an understanding of how detonation behavior affects fumes production. In each case carbon monoxide, nitrogen oxides, and ammonia were the toxic gases of primary interest.

EXPERIMENTAL APPROACH

Detonating large blasting agent charges and confining the fumes requires a larger experimental chamber than was employed in past work on cap-sensitive explosives. Towards this end, a chamber was created in the experimental mine at PRL. The facility consists of a portion of mine entry enclosed between two explosion proof bulkheads. Each bulkhead is 40 inches (1 m) thick, constructed of solid concrete block hitched 1 foot (30 cm) into the roof, ribs, and floor. On the intake side, the bulkhead is fitted with a submarine mandoor and a small port for control and sampling lines. On the return side, the bulkhead is fitted with two sealed ventilation ports. Total volume of the chamber is 9,666 ft^3 (274 m^3). The chamber volume was determined by releasing a known quantity of carbon monoxide into the chamber and sampling the atmosphere after it had mixed. Following the shot, a fan mounted at one end of the chamber mixes the chamber atmosphere at 3,500 ft^3/min, after which the chamber is vented using the mine's airflow. The layout of the chamber is illustrated in Figure 1. Up to 10 pound (4.54 kg) charges can be detonated in the chamber using a variety of confinements.

EXPERIMENTAL

A 28-inch (71-cm) length of 4-inch (20-cm) Schedule 80 seamless steel pipe was chosen to provide confinement in most tests of blasting agents and cap-sensitive explosives. Prior to loading the pipe with explosive, a continuous velocity probe of the type described by Santis is taped to the inner surface of the pipe along its length[1]. In conducting a test of a blasting agent, the commercial blasting agent minus its wrapper, or premixed ANFO are loaded into the pipe to a weight of 10 lb (4.54 kg). Initiation is provided by a 2-inch (5-cm) diameter, 2-inch (5-cm) thick cast pentolite booster, initiated by a number 8 instantaneous electric

blasting cap. In conducting a test of a cap-sensitive explosive, the cartridge explosive is loaded into the pipe to a weight of about 10 lb (4.54 kg). Cap-sensitive explosives are initiated by a number 8 instantaneous electric blasting cap.

Following detonation of an explosive in the chamber, the fan is run for about 10 minutes to uniformly mix the chamber atmosphere before fumes samples are taken out of the chamber through 1/4-inch (0.6-cm) Teflon or polyethylene tubes for analysis. Teflon sample lines are used for nitrogen oxides and ammonia to minimize loss of these constituents to absorption on the tube surface. Vacutainer[1] samples are taken and sent to the analytical laboratory for analysis; this technique is appropriate for components that are stable in the Vacutainer, namely hydrogen, carbon monoxide, and carbon dioxide. Nitrogen dioxide, nitrogen oxides, and ammonia are not amenable to analysis by the Vacutainer technique and are instead absorbed in chemical solutions in bubbler trains using the technique described by Santis[2]. That method was modified by eliminating the purging of the system with helium and using a gas meter to measure the volume of fumes bubbled through the solutions rather than measuring gas flow rate. An electrochemical carbon monoxide monitor was also employed to act as a backup to the analytical lab's carbon monoxide analysis of the Vacutainer and to allow monitoring of the mixing of the chamber atmosphere.

RESULTS

An ANFO mixture of 94 pct ammonium nitrate, 6 pct fuel oil is close to optimum from the perspective of minimum toxic fumes production. Previous research and theory show that the detonating ANFO will produce excessive levels of nitrogen oxides if the fuel oil content is too low and will produce excessive levels of carbon monoxide and ammonia if the fuel oil content is too high.[3,4,5] This behavior is supported by data collected in the current research, as illustrated in Figures 2, 3, and 4.

In Figure 5 the data from figures 2, 3, and 4 is presented in terms of oxygen balance. Figure 5 is a plot of carbon monoxide production versus oxygen balance for ANFO and several cap-sensitive explosives. As the oxygen balance is increased for ANFO the carbon monoxide production decreases. This would be expected since there is increasing oxygen to convert the carbon monoxide to carbon dioxide. ANFO mixed at 6 pct fuel oil produces approximately the same amount of carbon monoxide as cap-sensitive explosives of equivalent oxygen balance. The opposite is true when looking at nitrogen oxides production as a function of oxygen balance, as illustrated in Figure 6. When the oxygen balance is increased, the nitrogen oxides and nitrogen dioxide production increased. ANFO mixed at 6 pct fuel oil produced significantly more nitrogen oxides and nitrogen dioxide than cap-sensitive explosives. Figure 7 illustrates that as the oxygen balance for ANFO is increased the ammonia production decreases. With the exception of a couple data points that may be anomalous, ANFO mixed at 6 pct fuel oil produced about the same quantity of ammonia as cap-sensitive explosives of equivalent oxygen balance.

Figure 8 shows that adding water to an ANFO mixture of 94 pct ammonium nitrate and 6 pct fuel oil had little effect on carbon monoxide production for water percentages from 0 to 10 pct. However the nitrogen oxides and nitrogen dioxide increased dramatically when water is added to the ANFO mixture. This is demonstrated in Figure 9. Figure 10 shows the effect of water on ammonia fumes production; adding water to the ANFO yields an erratic trend, indicating that further study is needed.

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[1]Reference to Specific products is for informational purposes and does not imply endorsement by NIOSH.

As mentioned earlier, shooting ANFO in 4-inch schedule 80 seamless steel pipe is probably much more confinement than seen in the field. To examine the effect of reduced confinement on fumes production, ANFO was tested in sheet metal and PVC pipe. As seen in Figure 11, reduced confinement doesn't have much effect on carbon monoxide production. Carbon monoxide production for ANFO shot in the PVC pipe was much higher than that for the steel or sheet metal pipe. The high carbon monoxide might be attributed to burning of the PVC pipe. The degree to which the PVC pipe reacted was not studied in detail, but it is safe to assume that at least some of the PVC burned during the ANFO detonation. The high carbon monoxide production would be consistent with the earlier observation that the higher the fuel content of the explosive, the higher the carbon monoxide production.

Explosive packaging is an important consideration relative to toxic fumes production. For example, a blast pattern may contain a number of boreholes that are contaminated with water and the blaster may decide to insert sleeves into the boreholes contaminated with water to keep the ANFO dry. If the sleeves are made of a combustible material they could add to the carbon monoxide production. Figure 12 shows that the production of nitrogen oxides and nitrogen dioxide increases dramatically with lower confinement, while Figure 13 shows that with less confinement ammonia decreases.

Limestone rock dust (approximately 73 pct through 200 mesh) was added to the ANFO mixture to simulate drill cuttings being mixed with the ANFO as it was loaded into a borehole. The rock dust had little effect on the carbon monoxide production, as illustrated in Figure 14. Figure 15 shows that the addition of the rock dust led to an increase in nitrogen oxides production and a decrease in nitrogen dioxide production. Since the nitrogen oxides consist essentially of nitric oxide and nitrogen dioxide, this indicates that nitric oxide production increased significantly. Figure 16 shows that adding rock dust to the ANFO caused a significant increase in ammonia production .

Aluminum is sometimes added to ANFO to increase the velocity and the output energy. Figure 14 illustrates that the aluminum added to the ANFO mixture has little effect on the production of carbon monoxide. From Figure 15 it is not clear whether or not the nitrogen oxides and nitrogen dioxide production is affected by the added aluminum. The ammonia increased with the added aluminum, as illustrated in figure 16. It should be noted that the addition of aluminum had no clear effect on the ANFO's detonation velocity. The aluminum added to the ANFO mixture was Fine Aluminum Paint Pigment Powder, Alcoa # 422 flake. This type was used to give the fastest possible burning rate for experimental purposes. For commercial explosives, the lowest and least expensive grade of aluminum is typically used, consisting of ground scrap aluminum of various particle sizes.

DISCUSSION

Several factors that may effect the fumes production of ANFO have been investigated. Probably the easiest to control is the fuel oil content. To minimize toxic fumes production , the ANFO should be mixed at 6 pct fuel oil. Deviating from the 6 pct will lead to excessive fumes. Water contamination may not have an affect on carbon monoxide production, but it increases the production of nitrogen oxides and nitrogen dioxide. At the present time in our research it is not clear how the production of ammonia is affected. The confinement of ANFO doesn't appear to make a difference in the production of carbon monoxide, but it makes a difference in the production of nitrogen oxides , nitrogen dioxide, and ammonia.

In the case of nitrogen oxides and nitrogen dioxide the fumes production will increase, while the ammonia fumes production will decrease.

Adding aluminum or rock dust to ANFO does not affect the fumes production of carbon monoxide. The addition of aluminum does not have a significant affect on nitrogen oxides and nitrogen dioxide production, but the addition of rock dust leads to an increased production of nitrogen oxides. Additionally, the rock dust appears to have an effect on the ratio of nitric oxide to nitrogen dioxide. The addition of aluminum and rock dust increased the production of ammonia. The effect of rock dust on fume production was based on limited data and requires further study to look at the effect of particle size and dust type.

Its important to understand that the data reported here applies only to the test conditions under which the data was collected. For example, the schedule 80 steel pipe may provide more confinement than many field blasts. The research reported here shows that the confinement will affect the quantity of toxic fumes produced. In the field the toxic fumes released from a blast will differ significantly from the data reported here. There is a need to collect data from the field to develop an understanding of how data from the PRL fumes chamber compare to fumes production in the field. This, in return, will help in developing improved tests for evaluating fumes production.

1. Santis, L. D. and R. A. Cortese, A Method of Measuring Continuous Detonation Rates Using Off-the-Shelf Items, Proceedings of the Twenty-Second Annual Conference on Explosives and Blasting Technique, Orlando, FL, February 4-8, 1996.

2. Santis, L. D., J. H. Rowland, III, D. J. Viscusi, and M. H. Weslowski, The Large Chamber Test for Toxic Fumes Analysis for Permissible Explosives, Proceedings of the Twenty-First Annual Conference on Explosives and Blasting Technique, Nashville, TN, February 5-9, 1995.

3. Mainiero, R.J., A Technique for Measuring Toxic Gases Produced by Blasting Agents, Proceedings of the Twenty Third Annual Conference on Explosives and Blasting Technique, Las Vegas, NV, February 2-5, 1997.

4. Blaster's Handbook, Sixteenth Edition, E.I. du Pont de Nemours and Company, 1977, p. 59.

5. Explosives and Rock Blasting, Atlas Powder Company, 1987, p. 25-27.

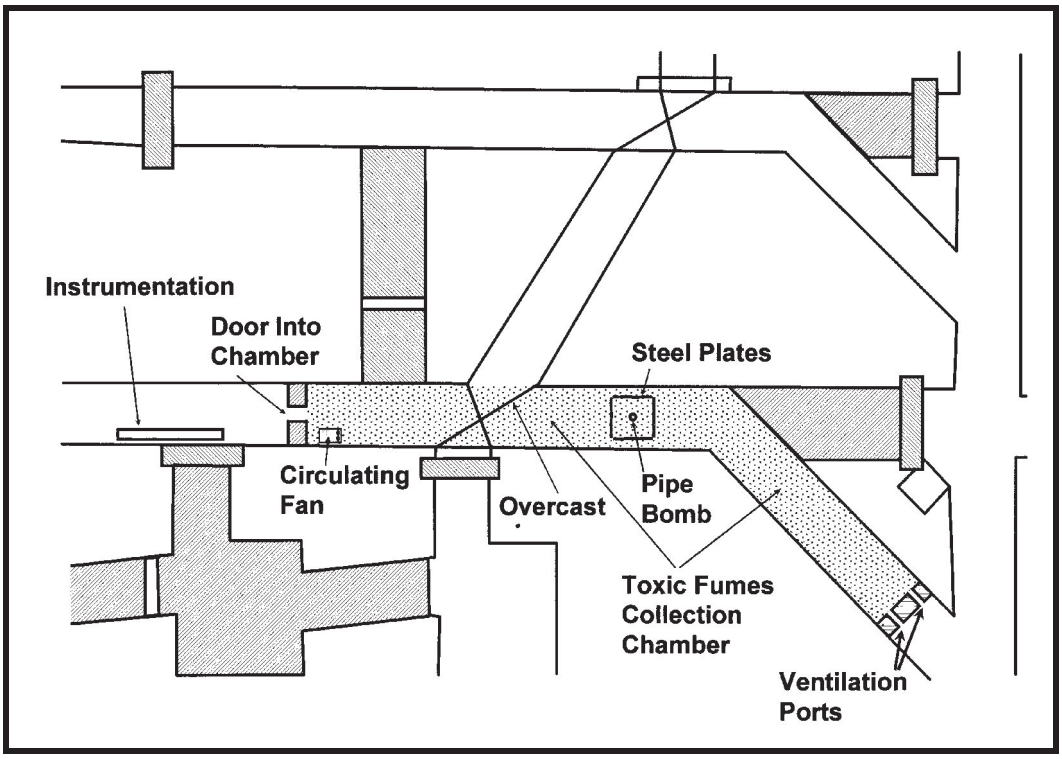


Figure 1. Research was conducted in a chamber created in the underground mine at the Pittsburgh Research Lab.

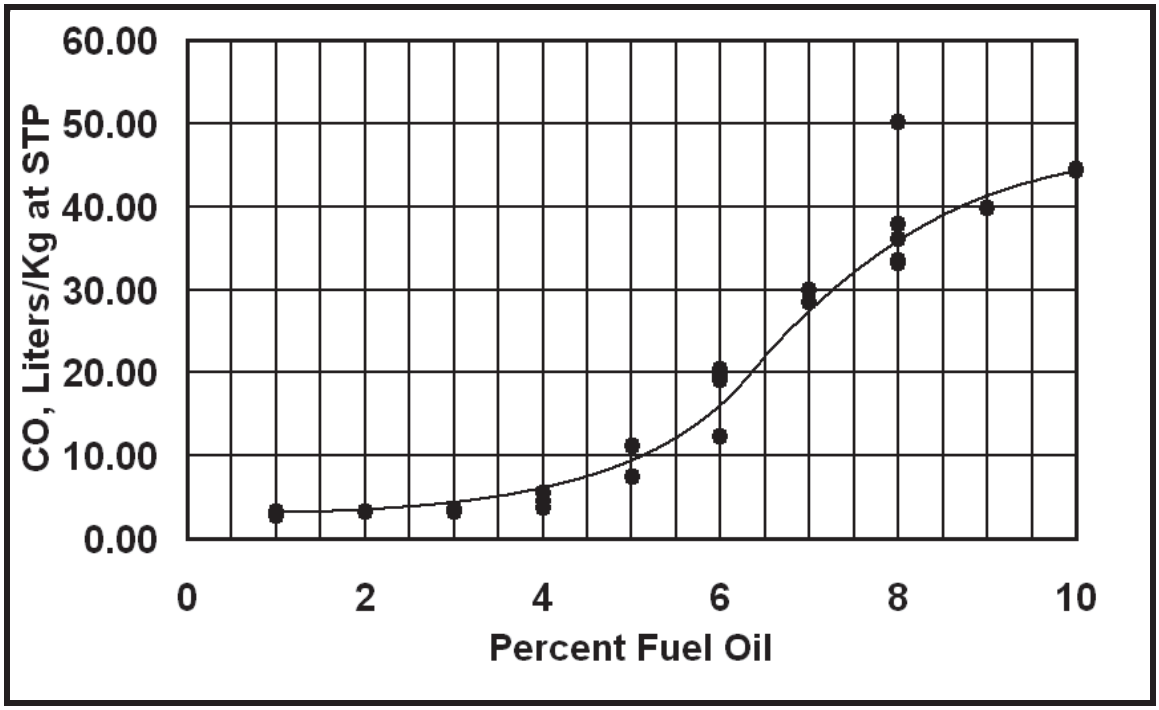


Figure 2. Effect of ANFO fuel oil content on carbon monoxide production. In all figures, the line is a polynomial fit to the data; it is included for illustrative purposes and does not represent a fit of theoretical results.

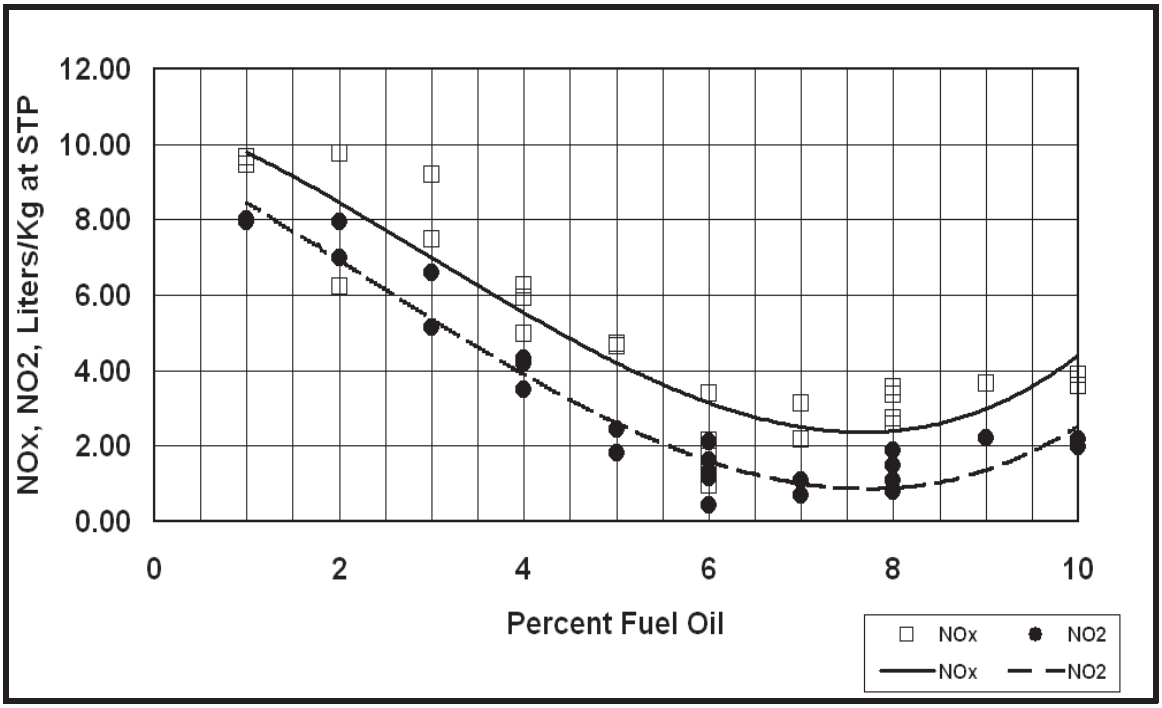


Figure 3. Effect of ANFO fuel oil content on nitrogen oxides and nitrogen dioxide production.

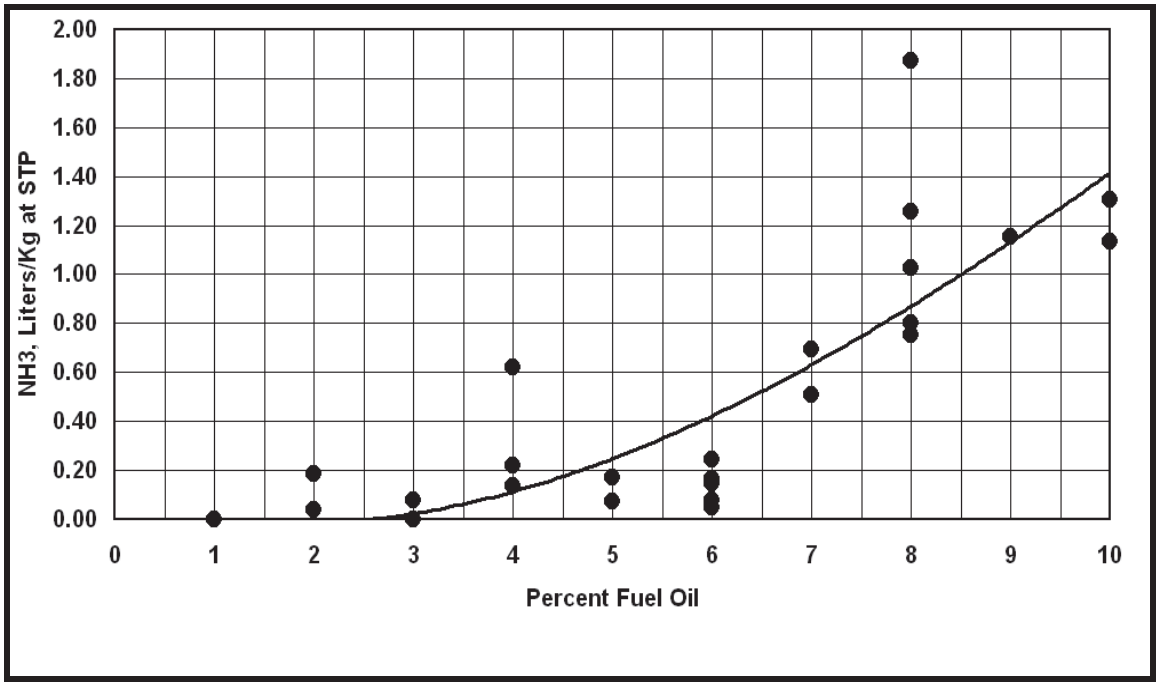


Figure 4. Effect of ANFO fuel oil content on ammonia production.

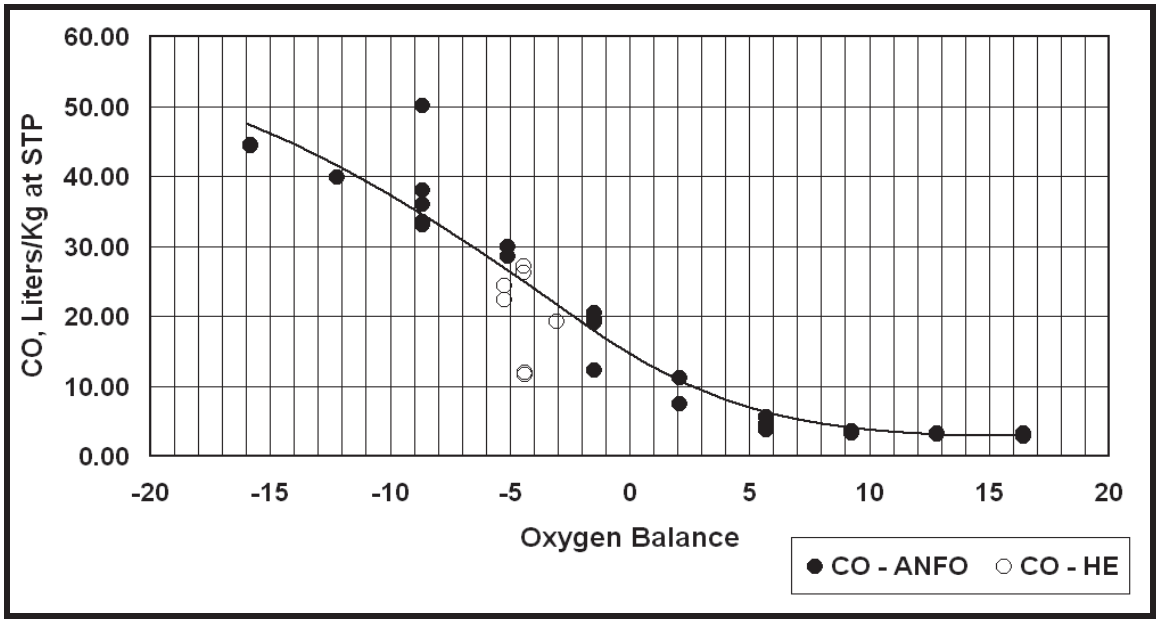


Figure 5. Effect of Oxygen Balance on carbon monoxide production for 94/6 ANFO and high explosives (cap-sensitive explosives).

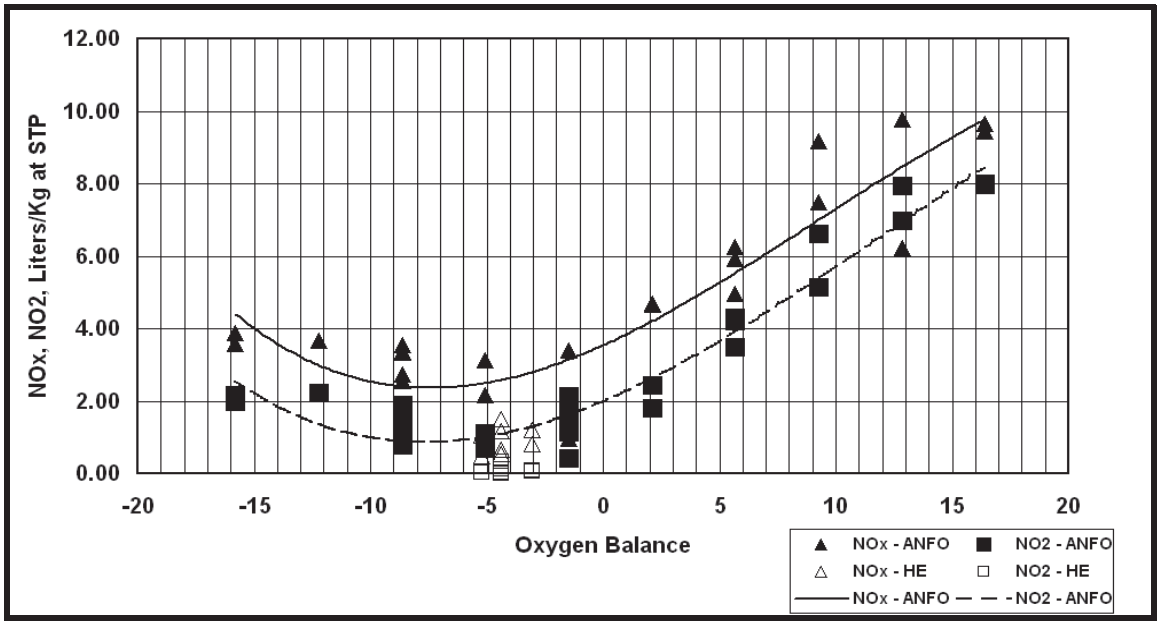


Figure 6. Effect of Oxygen Balance on nitrogen oxides and nitrogen dioxide production for 94/6 ANFO and high explosives (cap-sensitive explosives).

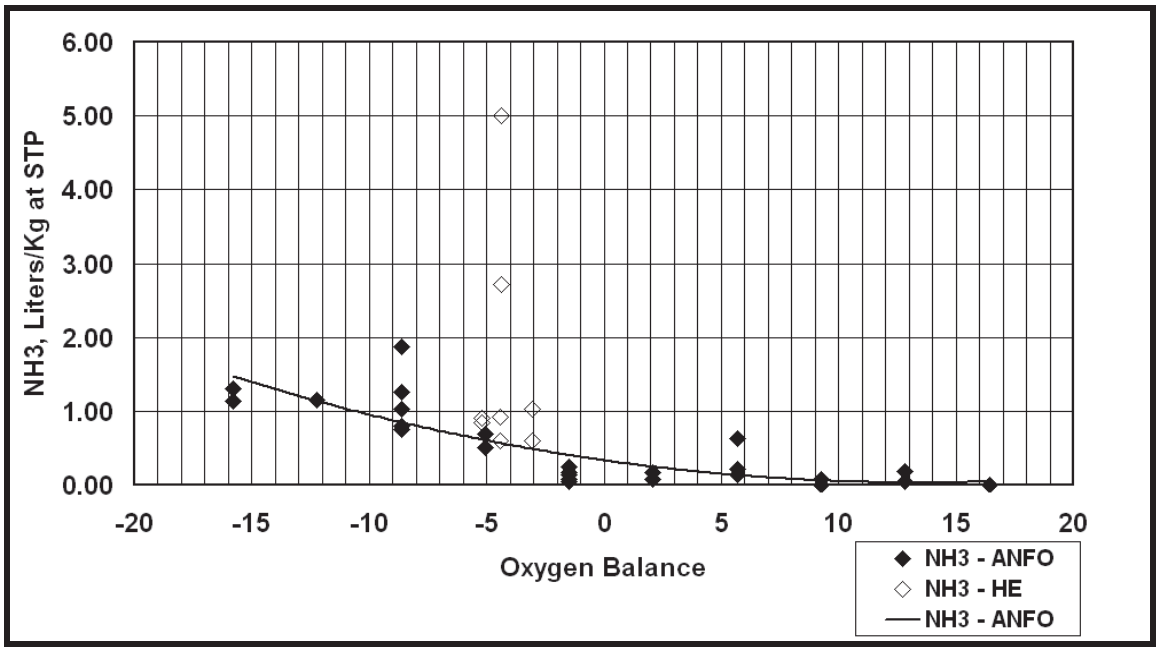


Figure 7. Effect of Oxygen Balance on ammonia production for 94/6 ANFO and high explosives (cap-sensitive explosives).

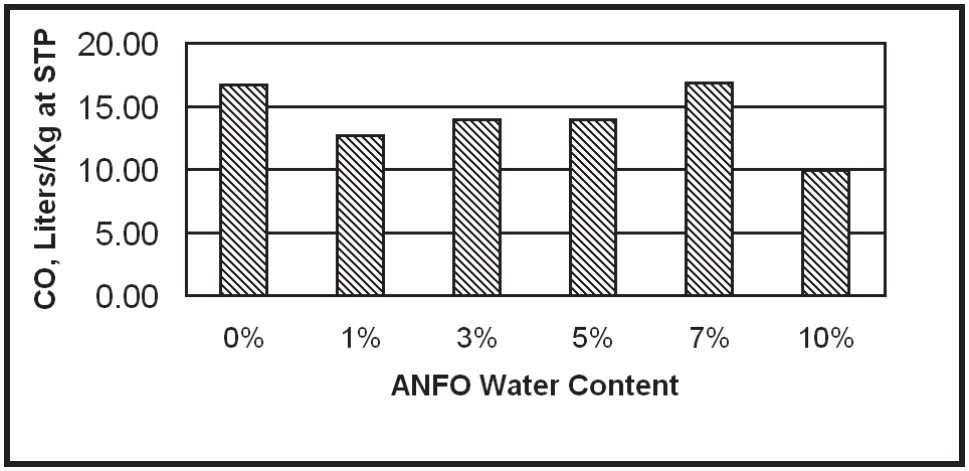


Figure 8. Effect of ANFO water content on carbon monoxide production for a 94/6 mix.

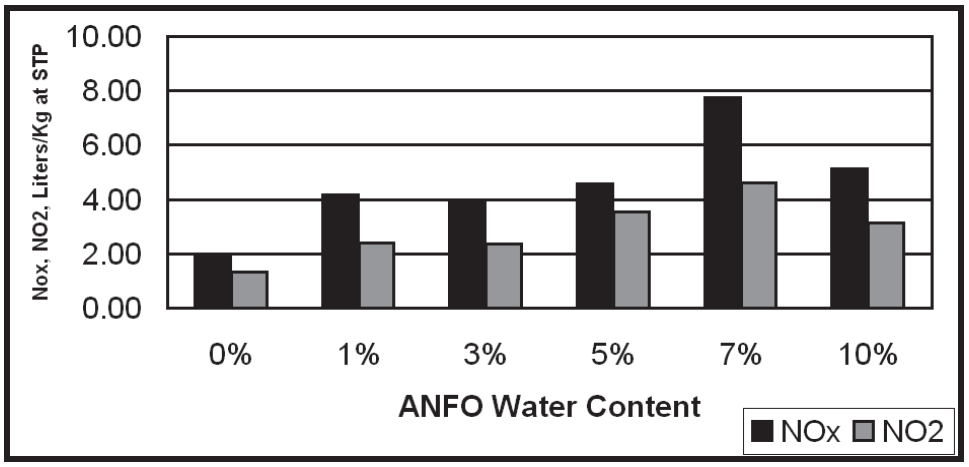


Figure 9. Effect of 94/6 ANFO water content on nitrogen oxides and nitrogen dioxide production.

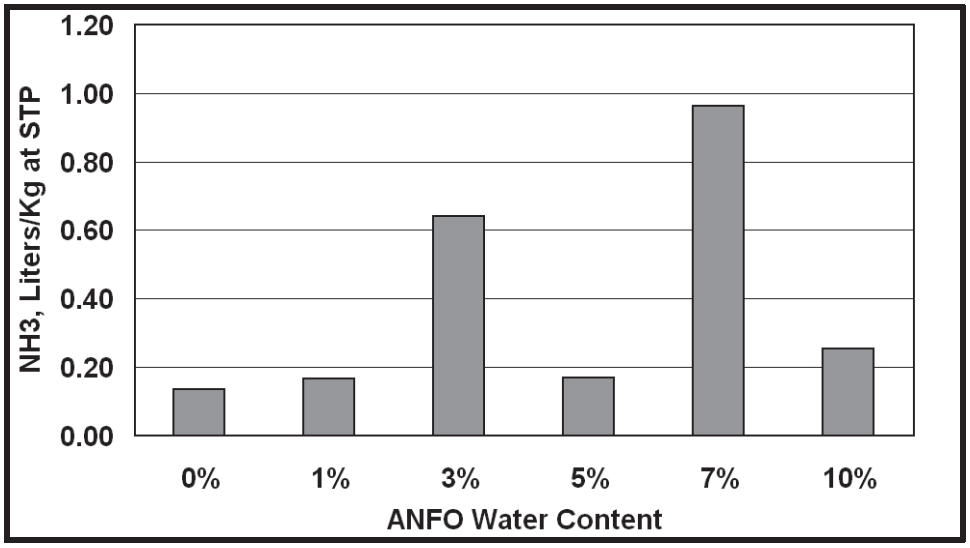


Figure 10. Effect of 94/6 ANFO water content on ammonia production.

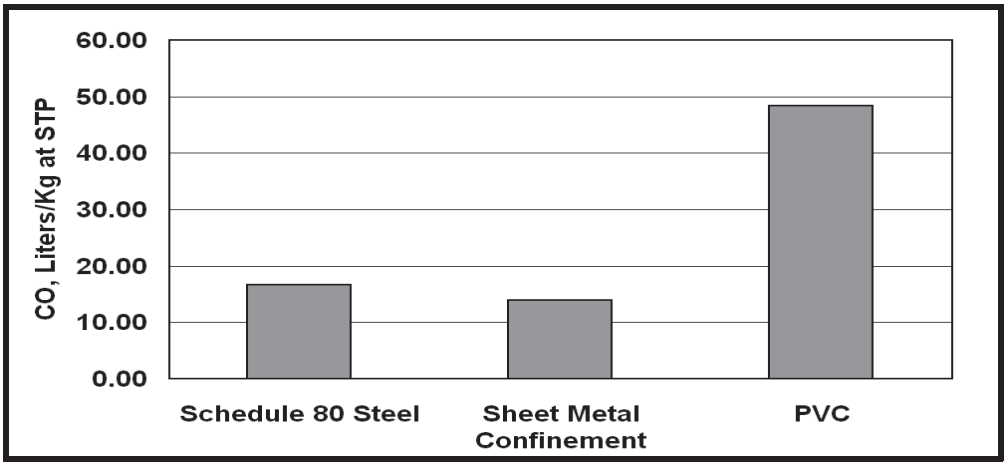


Figure 11. Effect of 94/6 ANFO confinement on carbon monoxide production.

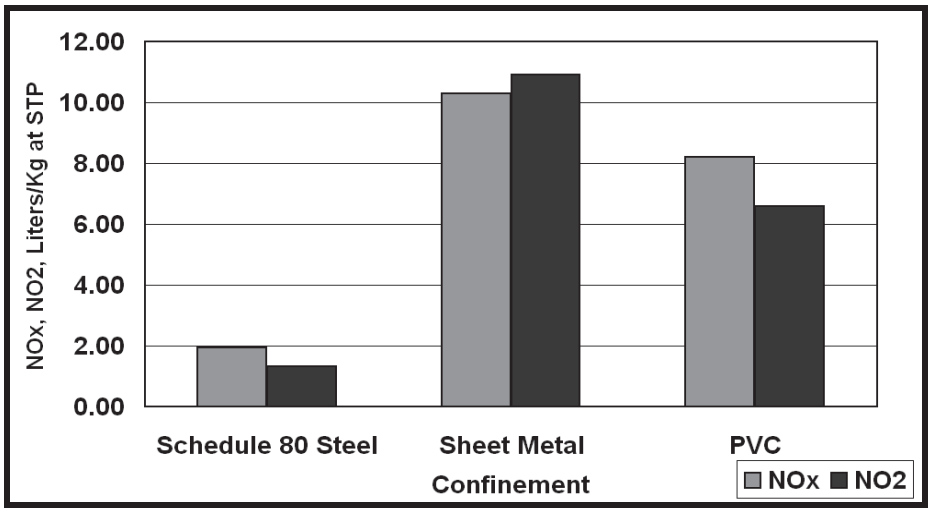


Figure 12. Effect of 94/6 ANFO confinement on nitrogen oxides and nitrogen dioxide production.

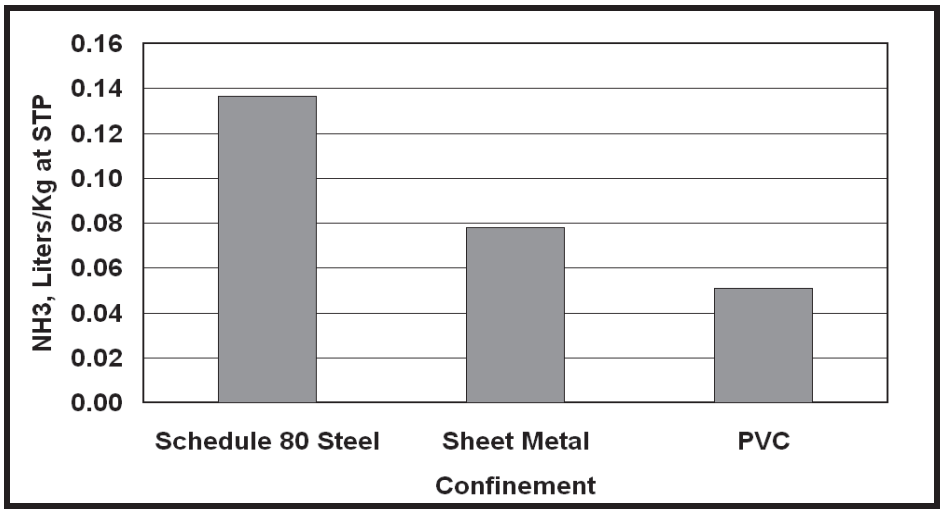


Figure 13. Effect of 94/6 ANFO confinement on ammonia production.

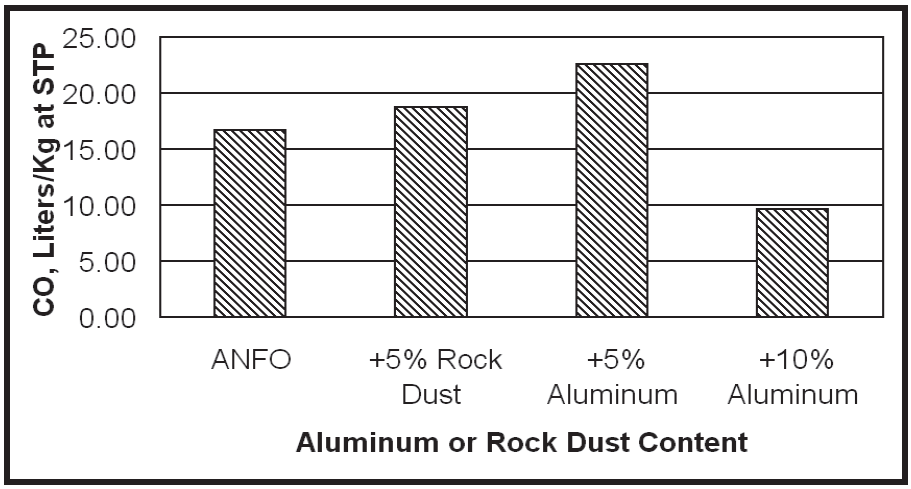


Figure 14. Effect of aluminum and rock dust content on carbon monoxide production.

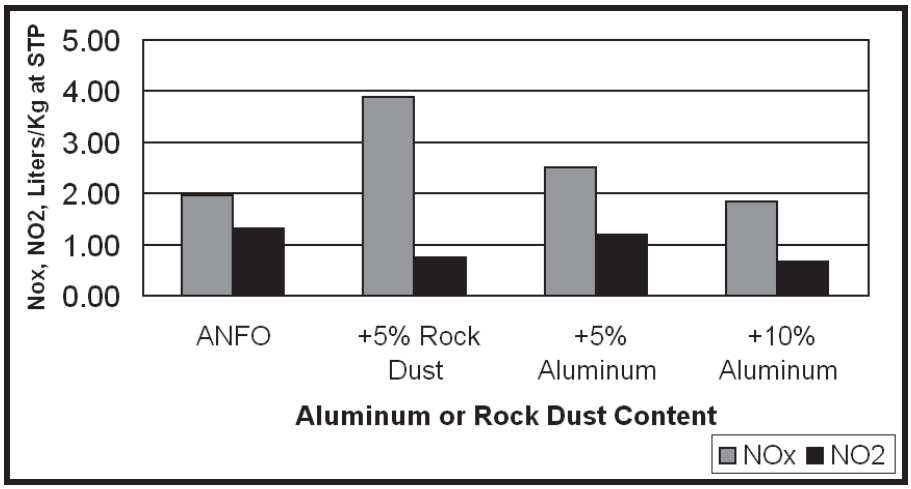


Figure 15. Effect of aluminum and rock dust content on nitrogen oxides and nitrogen dioxide production.

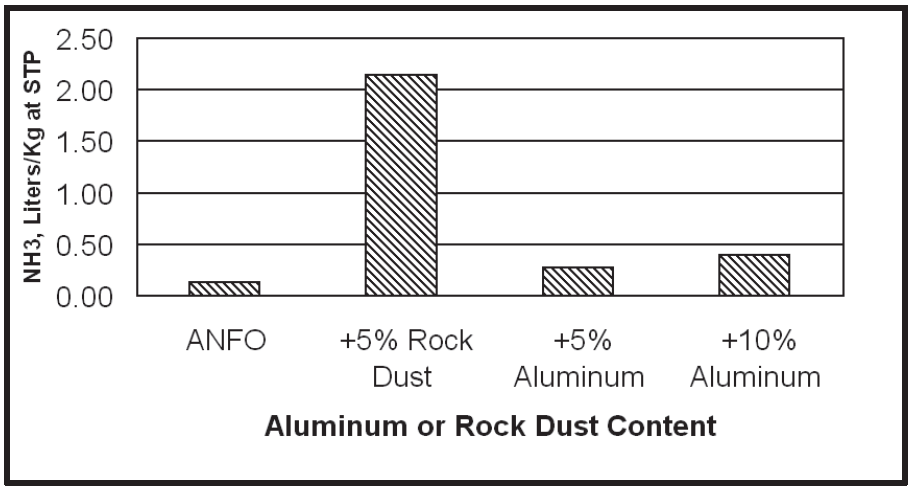


Figure 16. Effect of aluminum or rock dust content on ammonia production.

Chino Mines Company
NSR Consolidation Application

Sulfuric Acid Mist Emissions from SX/EW Tankhouse

The following sections describe the derivation of equations used to calculate annual acid mist emissions.

A. Driving Mechanisms for Natural Ventilation

The two driving forces that produce natural ventilation in a building are wind pressure (wind effect) and thermal buoyancy (stack effect) caused by a temperature difference.

1. Flow due to wind effect (Q_w):

Factors affecting ventilation wind forces include average velocity, prevailing direction, seasonal and daily variation in velocity and direction, and local obstructions such as nearby buildings, hills, trees, and shrubbery. The following equation shows the quantity of air forced through ventilation inlet openings by wind:

$$Q_w = (88) C_w A_w V \tag{1}$$

where Q_w = wind effect air flow (ft^3/min)
C_w = effectiveness of openings (orifice coefficient)
A_w = area of windward inlet openings (ft^2)
V = wind velocity (MPH)
88 = conversion factor (MPH to ft/min)

2. Flow due to stack effect (Q_s):

The pressure flow relationship for the movement of air through a building is given by the following equation:

$$h_{th} = h(1 - s_h) \tag{2}$$

where h_{th} = thermostatic head (ft of air)
h = height of feet of hot air in an enclosure
s_h = specific gravity of hot air relative to cold air

But, since the specific gravity of the cooler air is equal to unity (since it is made the point of reference), s_h becomes:

$$s_h = \frac{s_c T_o}{T_i} = \frac{T_o}{T_i} \tag{3}$$

where s_c = specific gravity of cool air in an enclosure
T_i = absolute temperature of the hot interior air

T_o = absolute temperature of the cooler air

Combining equations (2) and (3):

$$h_{th} = h(1 - \frac{T_o}{T_i}) = h\frac{(T_i - T_o)}{T_i} = h\frac{\Delta T}{T_i} \quad (4)$$

Since the value of h_{th} is in feet of air, it can be used directly in the following equation to ascertain velocity through an orifice:

$$v = C_s\sqrt{2gh_{th}} \quad (5)$$

where v = orifice velocity (ft/s)
C_s = effectiveness of openings (orifice coefficient)
g = gravitational constant (32.2 ft/ s^2)
h_{th} = thermostatic head (ft)

Combining equations (4) and (5):

$$v = C_s\sqrt{(2)(32.2)h\frac{\Delta T}{T_i}} = 8.02C_s\sqrt{h\frac{\Delta T}{T_i}} \quad (6)$$

Orifice flowrates can be calculated by multiplying the orifice velocity by the orifice cross sectional area:

$$Q_s = (8.02)(60)C_sA\sqrt{h\frac{\Delta T}{T_i}} \quad (7)$$

where Q_s = stack effect air flow (ft^3 /min)
A = flow area (ft^2)
60 = conversion factor (ft/s to ft/min)

According to the ASHRAE Fundamentals Handbook, the thermal effect flowrate is greatest when the inlet and outlet openings are equal. In the case of unequal openings, the smaller area should be used in the equation and the flowrate corrected using the correction factor F_c. This correction is determined from Figure 7 located on page 26.11 of the 2005 Fundamentals Handbook.

To calculate h, the following equation can be used:

$$h = \frac{H}{1 + \frac{A_1^2T_i}{A_2^2T_o}} \quad (8)$$

where A_1 = area of lower openings (ft^2)
A_2 = area of upper openings (ft^2)

H = distance from lower to upper openings (ft)

Combining equations (7) and (8), and taking into account the correction factor, F_c :

$$Q_s = (481.2)F_c C_s A \sqrt{\frac{\frac{H\Delta T}{T_i}}{1+\frac{A_1^2 T_i}{A_2^2 T_o}}} \tag{9}$$

3. Combining wind effect and stack effect flowrates:

Wind effect and stack effect ventilation rates are combined according to the following equation:

$$Q = \sqrt{Q_w^2 + Q_s^2} \tag{10}$$

Substituting equations (1) and (9) into (10) yields the final equation:

$$Q = \sqrt{(7{,}744)C_w^2 A_w^2 V^2 + (231{,}533.44)F_c^2 C_s^2 A^2 \frac{\frac{H\Delta T}{T_i}}{1+\frac{A_1^2 T_i}{A_2^2 T_o}}} \tag{11}$$

4. Calculation of acid mist emission

When the ventilation rate and acid mist concentration are known, the acid mist emissions can be determined from the following equation:

$$E_A = kQZ \tag{12}$$

where E_A = Acid mist emission rate (ton/yr)
k = Conversion factor
Z = Acid mist concentration (mg/ m^3)

References ASHRAE Fundamentals Handbook. Chapter 26, “Ventilation and Infiltration” Atlanta, GA: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 2001.

through ventilation inlet openings by wind or determines the proper size of openings to produce given airflow rates:

$$Q = C_v A U \tag{29}$$

where

Q = airflow rate, m^3/s
C_v = effectiveness of openings (C_v is assumed to be 0.5 to 0.6 for perpendicular winds and 0.25 to 0.35 for diagonal winds)
A = free area of inlet openings, m^2
U = wind speed, m/s

Inlets should face directly into the prevailing wind. If they are not advantageously placed, flow will be less than that predicted by Equation (29); if the inlets are unusually well placed, flow will be slightly more. Desirable outlet locations are (1) on the leeward side of the building directly opposite the inlet, (2) on the roof, in the low-pressure area caused by a flow discontinuity of the wind, (3) on the side adjacent to the windward face where low-pressure areas occur, (4) in a dormer on the leeward side, (5) in roof ventilators, or (6) by stacks. Chapter 16 gives a general description of the wind pressure distribution on a building. The inlets should be placed in the exterior high-pressure regions; the outlets should be placed in the exterior low-pressure regions.

Flow Caused by Thermal Forces Only

If building internal resistance is not significant, the flow caused by stack effect can be expressed by

$$Q = C_D A \sqrt{2 g \Delta H_{\mathrm{NPL}} (T_i - T_o)/T_i} \tag{30}$$

where

Q = airflow rate, m^3/s
C_D = discharge coefficient for opening
ΔH_{NPL} = height from midpoint of lower opening to NPL, m
T_i = indoor temperature, K
T_o = outdoor temperature, K

Equation (30) applies when $T_i > T_o$. If $T_i < T_o$, replace T_i in the denominator with T_o, and replace $(T_i - T_o)$ in the numerator with $(T_o - T_i)$. An average temperature should be used for T_i if there is thermal stratification. If the building has more than one opening, the outlet and inlet areas are considered equal. The discharge coefficient C_D accounts for all viscous effects such as surface drag and interfacial mixing.

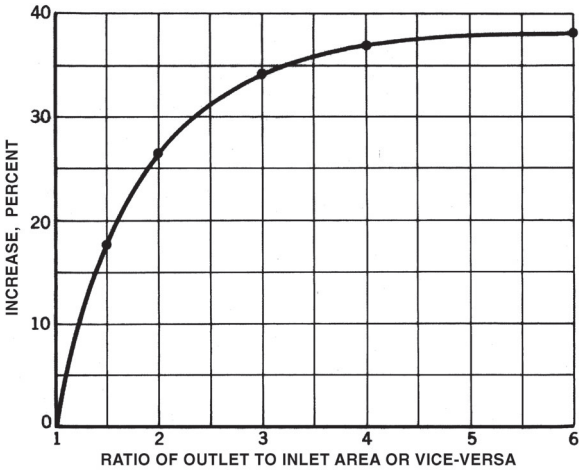


Fig. 7 Increase in Flow Caused by Excess Area of One Opening over the Other

Estimation of ΔH_{NPL} is difficult for naturally ventilated buildings. If one window or door represents a large fraction (approximately 90%) of the total opening area in the envelope, then the NPL is at the mid-height of that aperture, and ΔH_{NPL} equals one-half the height of the aperture. For this condition, flow through the opening is bidirectional (i.e., air from the warmer side flows through the top of the opening, and air from the colder side flows through the bottom). Interfacial mixing occurs across the counterflow interface, and the orifice coefficient can be calculated according to the following equation (Kiel and Wilson 1986):

$$C_D = 0.40 + 0.0045 |T_i - T_o| \tag{31}$$

If enough other openings are available, the airflow through the opening will be unidirectional, and mixing cannot occur. A discharge coefficient of $C_D = 0.65$ should then be used. Additional information on stack-driven airflows for natural ventilation can be found in Foster and Down (1987).

Greatest flow per unit area of openings is obtained when inlet and outlet areas are equal; Equations (30) and (31) are based on this equality. Increasing the outlet area over inlet area (or vice versa) increases airflow but not in proportion to the added area. When openings are unequal, use the smaller area in Equation (30) and add the increase as determined from Figure 7.

Natural Ventilation Guidelines

Several general guidelines should be observed in designing for natural ventilation. Some of these may conflict with other climate-responsive strategies (such as using orientation and shading devices to minimize solar gain) or other design considerations.

1. In hot, humid climates, use mechanical cooling. If mechanical cooling is not available, air velocities should be maximized in the occupied zones. In hot, arid climates, consider evaporative cooling. Airflow throughout the building should be maximized for structural cooling, particularly at night when the temperature is low.
2. Topography, landscaping, and surrounding buildings should be used to redirect airflow and give maximum exposure to breezes. Vegetation can funnel breezes and avoid wind dams, which reduce the driving pressure differential around the building. Site objects should not obstruct inlet openings.
3. The building should be shaped to expose maximum shell openings to breezes.
4. Architectural elements such as wing walls, parapets, and overhangs should be used to promote airflow into the building interior.
5. The long facade of the building and the majority of the door and window openings should be oriented with respect to the prevailing summer breezes. If there is no prevailing direction, openings should be sufficient to provide ventilation regardless of wind direction.
6. Windows should be located in opposing pressure zones. Two openings on opposite sides of a space increase the ventilation flow. Openings on adjacent sides force air to change direction, providing ventilation to a greater area. The benefits of the window arrangement depend on the outlet location relative to the direction of the inlet airstream.
7. If a room has only one external wall, better airflow is achieved with two widely spaced windows.
8. If the openings are at the same level and near the ceiling, much of the flow may bypass the occupied level and be ineffective in diluting contaminants there.
9. Vertical distance between openings is required to take advantage of the stack effect; the greater the vertical distance, the greater the ventilation.

Chino Mines Company
NSR Consolidation Application

Solution Extraction Plant VOC Fugitive Emissions

The fugitive VOC emissions from the solvent extraction tanks were estimated using the methodology developed by BHP Copper in the study "Quantification of Volatile Organic Compound (VOC) Emissions from the Solution Extraction Process" (July 1997). The BHP method is based on Fick's Law to determine the diffusive flux of the individual components in the organic in air. The equation used is:

$$\text{Diff F} = (Ci - Ch) \times D/H$$

Where: Diff F, g/m^2-s = diffusive flux of constituent in air
C*i*, ppm = constituent concentration at liquid surface (from manufacturer data)
C*h*, ppm = constituent concentration at a distance, H, above the liquid surface
D = constituent diffusivity (calculated from EPA link: http://www.epa.gov/athens/learn2model/part-two/onsite/estdiffusion.htm; where T = 25.84°C, and P = 1 atm, per 1995 met. data)
H, m = distance above liquid surface

This method includes assumptions, fundamental equations, and tabulated chemical data to estimate VOC emissions. Three assumptions govern the scope of their method:

1. Only chemicals with a significant vapor pressure are included in the emissions losses calculation.
2. The driving force for VOC diffusion is the concentration gradient that exists between the surface of the solution and headspace. In the 1997 study, the headspace was assumed to be 1 meter. For the Tyrone SX/EW tanks, 2 ft (or 0.61 m) was assumed to be a reasonable headspace.

This methodology was selected for the Phelps Dodge Tyrone SX/EW emission calculations due to its direct applicability and credibility.

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Potential VOC Emission Evaluation

Technology Center Mineral Processing Department
To: Russell Gossett
From: Gerry Buras and Allison Nguyen
Date: September 12, 2018

Executive Summary:

In 2009, Climax Molybdenum Company conducted a survey of the Henderson Mill to measure volatile organic carbon (VOC) emissions.[1] A test program was conducted at the Technology Center in Tucson from late 2017 to early 2018 to further examine VOC emissions and to determine a correlation factor for VOC emissions produced in the lab compared to a mill.

This test program consisted of ten float tests with a variety of float conditions and ores as follows: Henderson ore and reagent scheme (HenHen), Henderson ore with the Chino Lee Hill reagent scheme (HenCLH), Chino South Pit ore and reagent scheme (CSPCSP), and Chino Lee Hill ore and reagent scheme (CLHCLH).

For these four combinations, the VOC ppmv was measured while the floats were being performed. Using those ppmv values, the average VOC emission rates were calculated, as well as the average VOC emission rate per square foot.

The ore and reagent combination that generated the highest amount of VOC's was the Chino South Pit ore/flotation condition with an average VOC emission rate of 1.68E-05 lb/hr and an average per square foot emission rate of 2.27E-04 lb/hr/ft^2. The Henderson ore/reagent scheme was the next highest, followed by the Chino Lee Hill ore/reagent scheme. The lowest VOC producer was the Henderson ore/Chino Lee Hill float condition.

The primary contributors to the generation of the VOC's are the reagent schemes that contain organics with higher vapor pressures. The Chino South Pit blend of MX-7017 and Nalco DVS 4U038 contains a high amount of organics with high vapor pressures, while the Chino Lee Hill scheme consists mostly of compounds with fairly low vapor pressures.

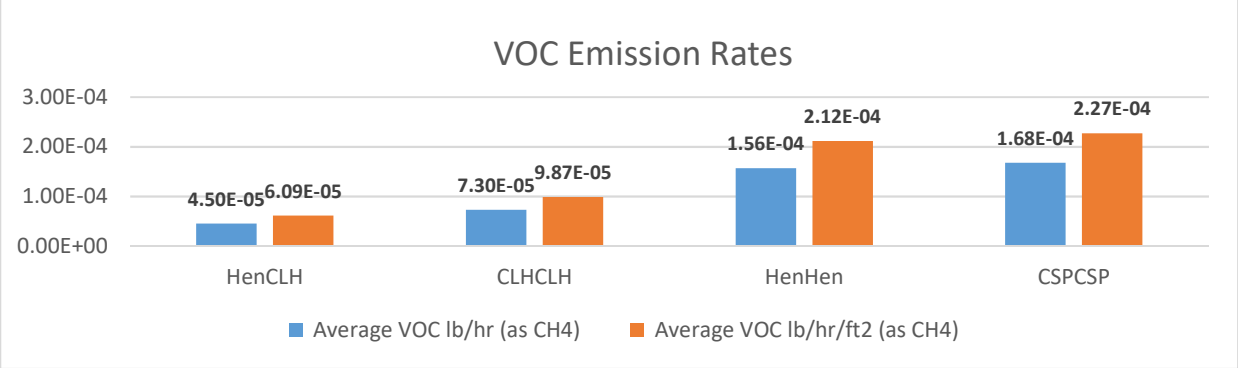


Figure 1: Average VOC emission rates for the ore and reagent combinations.

Henderson Reagent Testing:

Prior to running the float tests with the ore, the instrument was run against each individual reagent of the Henderson reagent scheme to test the instrument's response. These tests were run without any ore, i.e. reagents in water only. Figure 2 below displays the amount of VOC each reagent generated over an 8 minute period.

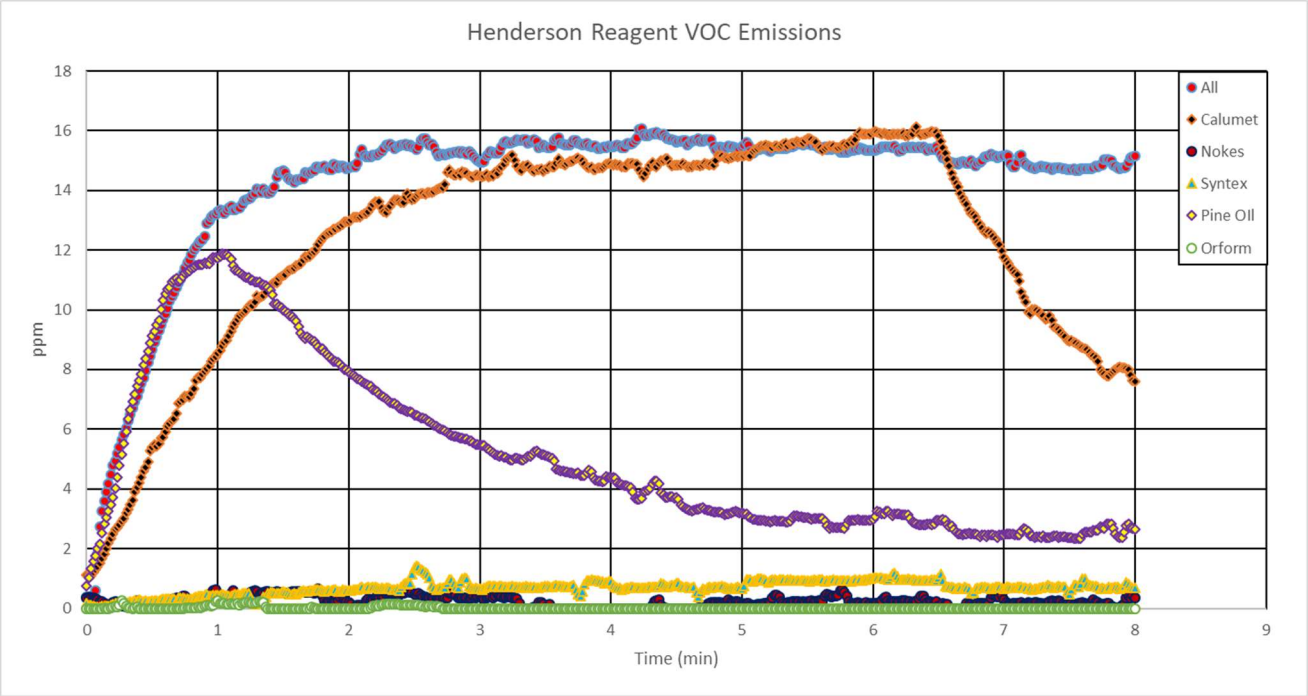


Figure 2: Cell VOC ppmv for individual Henderson reagents.

From the VOC data above, the VOC emission rates for each reagent were calculated as seen in Appendix A.[1] The emission rates per square foot were also calculated based on cell surface area. Table 1 presents the following data below.

Table 1: Calculated VOC emission rates for reagents used in Henderson scheme.

Reagents	VOC lb/hr (as CH_4)	VOC lb/hr/ft^2 (as CH_4)
All	6.87E-05	9.29E-05
Calumet	6.16E-05	8.33E-05
Pine Oil	2.42E-05	3.27E-05
Syntex	3.48E-06	4.71E-06
Nokes	1.12E-06	1.51E-06
Orform	1.03E-07	1.39E-07

The two reagents that contribute the most to VOC emissions are calumet and pine oil. Pine oil in particular affects the VOC emission rates the most for the Henderson reagent scheme. For pine oil, approximately 0.0242 was used during the test. This dosage is much lower than Calumet's, yet the reagent still produced a significant amount of VOC's.

Float Testing:

Ten tests were run according to the conditions listed in Table 2. The procedure and set up for the tests can be found in Appendix B. For each ore and reagent scheme combination, replicate tests were performed in order to determine repeatability.

Table 2: Ore and reagent schemes used.

OC Code	Test ID	Ore/Float Conditions	1st Collector Dosage (g/T ore)	1st Collector	2nd Collector Dosage (g/T ore)	2nd Collector	3rd Collector Dosage (g/T ore)	3rd Collector	Dilution	4th Collector Dosage (g/T ore)	4th Collector	Dilution	Frother	Frother Dosage (g/T ore)
HenHen	Float-HenHen-1A	Henderson/ Henderson	240	Calumet	30	Orform	155	Nokes	40%	7.5	Syntex	2%	Pine oil	13
	Float-HenHen-1B													
HenCLH	Float-HenCLH-1A	Henderson/ Chino Lee Hill	3.2	MX-7048	10	MX-7310	–	N/A		–	N/A		X-133	16
	Float-HenCLH-1B													
	Float-HenCLH-1C													
CSPCSP	Float-CSPCSP-1A	Chino South Pit/Chino South Pit	15	MX-7017	–	N/A	–	N/A		–	N/A		Nalco DVS 4U038	10
	Float-CSPCSP-1B													
CLHCLH	Float-CLHCLH-1A	Chino Lee Hill/Chino Lee Hill	3.2	MX-7048	10	MX-7310	–	N/A		–	N/A		X-133	16
	Float-CLHCLH-1B													
	Float-CLHCLH-1C													

The graph below, Figure 3, presents the VOC ppmv measurement for the ten floats run over an 8 minute duration.

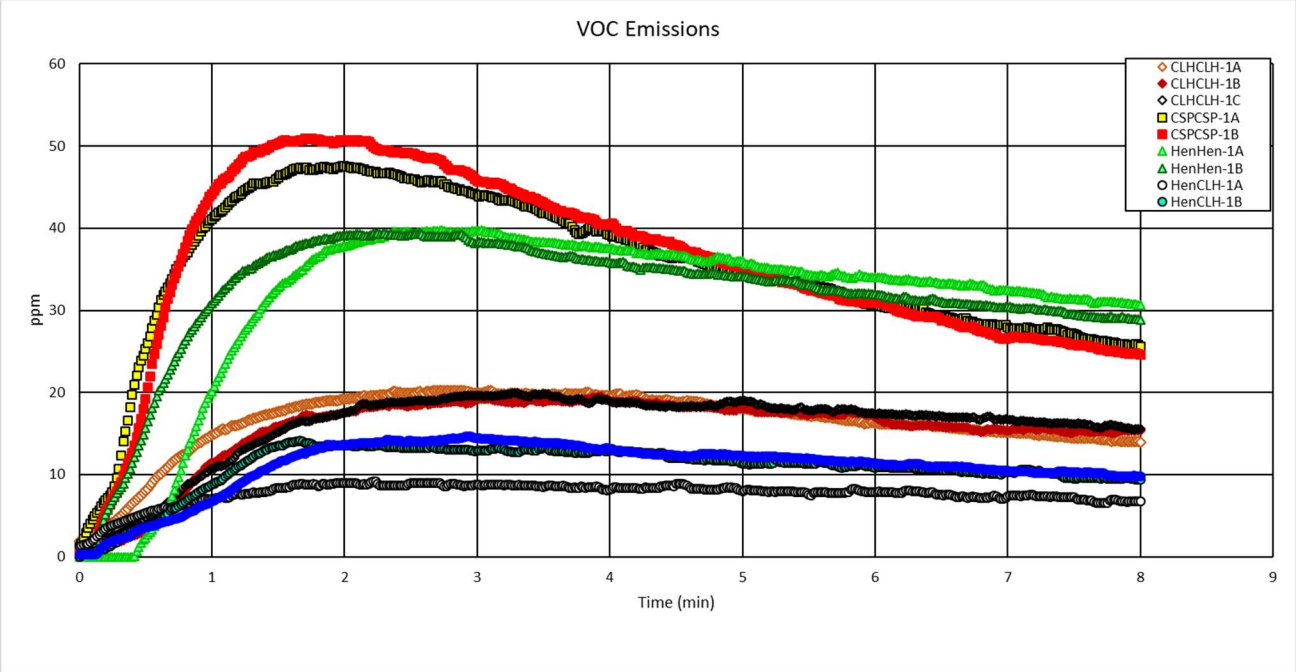


Figure 3: Instrument VOC ppmv for each float test.

Table 3 displays the results of the ten tests calculated from the measured ppmv[1]. The Chino South Pit ore/reagent combination produced the highest VOC emission rate averaging 1.68E-04 lb/hr. The Henderson ore and reagent combination also produced a high VOC emission rate averaging 1.56E-04 lb/hr. The Chino Lee Hill ore and reagent combination generated the next lowest average VOC emission rate of 7.30E-05 lb/hr and finally, the ore and reagent combination producing the lowest VOC emission rate of the test set was Henderson/Chino Lee Hill averaging 4.50E-05 lb/hr. Additionally, test repeatability varied from 1% to 2% RSD with the exception of the Henderson/Chino Lee Hill test set with an RSD of 25%.

Table 3: Results for various ore/reagent scheme combinations

Test	Test ID	VOC lb/hr (as CH4)	VOC lb/hr/ft2 (as CH4)	OC Code	Average VOC lb/hr (as CH4)	Average VOC lb/hr/ft2 (as CH4)	Stdev	RSD
1	Float-HenHen-1A	1.55E-04	2.09E-04	HenHen	1.56E-04	2.12E-04	3.56E-06	2%
2	Float-HenHen-1B	1.58E-04	2.14E-04					
3	Float-HenCLH-1A	3.21E-05	4.34E-05	HenCLH	4.50E-05	6.09E-05	1.51E-05	25%
4	Float-HenCLH-1B	5.15E-05	6.96E-05					
5	Float-HenCLH-1C	5.14E-05	6.95E-05					
6	Float-CSPCSP-1A	1.67E-04	2.26E-04	CSPCSP	1.68E-04	2.27E-04	1.50E-06	1%
7	Float-CSPCSP-1B	1.69E-04	2.28E-04					
8	Float-CLHCLH-1A	7.35E-05	9.94E-05	CLHCLH	7.30E-05	9.87E-05	1.52E-06	2%
9	Float-CLHCLH-1B	7.17E-05	9.70E-05					
10	Float-CLHCLH-1C	7.38E-05	9.97E-05					

The blend of MX-7017 and Nalco DVS 4U038 most likely has the highest organic vapor pressure since the Chino South Pit ore/reagent combination yielded the highest emission rate. The Nalco DVS 4U038 frother is most likely the largest factor in the production of VOC's for that blend. Likewise the Henderson reagent scheme also has compounds with high organic vapor pressures, particularly pine oil. The Chino Lee Hill blend of MX-7310 and X-133 generates minimal VOC's. Comparing the Henderson/Chino Lee Hill Test with the Chino Lee Hill ore and reagent combination, it is evident that there is a slight difference in organic vapor pressure as a function of the ore.

Table 4: List of reagents used and their major components.

Float Condition	Reagent	Dosage (g/T ore)	Major Component(s)	% Make Up
Henderson	Calumet	240	Hydrotreated light naphthenic distillate	100
	Orform	30	Disodium carboxymethyltrithiocarbonate	40
	Nokes	155 (40% dilution)	Water	80
			Sodium thiophosphate	15
	Syntex	7.5 (2% dilution)	Sulfuric acid mono-C10-C16 alkyl esters soldium salts	90
	Pine oil	13	1-Methyl-4-(1-methylethenyl)-cyclohexene C10H16	60
			(1S,5S)-2,6,6-trimethylbicyclo[3.1.1]hept-2-ene	25
Chino Lee Hill	MX-7048	3.2	Thiophosphate	10-30
			Modified thionocarbamate	10-30
	MX-7310	10	Thiophosphate	10-30
			Modified thionocarbamate	10-30
	X-133	16	Aliphatic alcohol mixture	45-60
Chino South Pit	MX-7017	15	Alcohols mixture	30-50
			4-methylpentan-2-ol	30-45
			Complex hydrocarbon	38-40
	Nalco DVS 4U038	10	Alcohols/aldehydes/esters	60-100

Looking into the reagent properties more in depth, Table 4 breaks down each reagent into their most significant components. The Chino South Pit blend consists mostly of alcohols, which results in a high vapor pressure and therefore a high VOC emission rate.

The Henderson reagent scheme is the next highest. Calumet plays a crucial role in VOC emission due to the large dosage. Pine oil is also a major VOC contributor, even with a fairly small dosage, as can be seen in Figure 2 above. Orform, Nokes and Syntex are minor contributors as their major components are far less volatile than pine oil and calumet.

The Chino Lee Hill reagent blend has the lowest VOC emission rate due to the low dosage of its major contributor X-133. Aliphatic carbons are highly volatile, but at such a low dosage, it most likely produces a sharp spike of VOC and tapers off, similar to pine oil's behavior. In addition, the other two reagents added to the blend have very low vapor pressures, which leads to an overall low VOC emission rate.

Conclusion:

Of the four ore/reagent scheme combinations tested in this program, the Chino South Pit ore and reagent scheme produced the largest VOC emission rate. The Henderson was the second largest due to the amount of components that had high vapor pressures, as well as a high Calumet dosage. The more compounds that have higher vapor pressures, the greater the VOC emission rate. In addition, the ore itself affects the vapor pressure, as seen in the difference between the Henderson/Chino Lee Hill combination and the Chino Lee Hill/Chino Lee Hill combination.

The Henderson ore and reagent scheme produced an average VOC emission rate per square foot of cell surface area of 2.12E-04. This value can be used as a comparison factor for once the dimensions necessary dimensions of the desired areas/equipment are measured in the mill.

Appendix A: Equations and Sample Calculations

Total ppm calculation:

To calculate total ppm VOC emitted over the 8 minute period, the area under the curve was approximated using a Riemann sum and the trapezoidal rule.

Temperature and pressure correction for flow rate:

In order to correct for temperature and pressure, the following equation was used, as taken and modified from the Henderson Mill Building Volatile Organic Compound Emission Test Results report[1]:

$$cfr = afr * \left(\frac{T_{room}}{P_{room}}\right) * \left(\frac{P_{hs}}{T_s}\right)$$

Where:

- cfr = corrected flow rate (L/min)
- afr = actual flow rate (8.3 L/min)
- T_{room} = room temperature (20 ºC)
- P_{room} = room pressure (1 atm = 14.6959 psi)
- T_s = average temperature of slurry over the 8 minute period
- P_{hs} = average pressure of cell head space over the 8 minute period

VOC emission rate:

Using the value determined from the above equation, it is plugged into the following equation, also taken and modified from the same report, to calculate VOC emission rates in lb/hr[1]:

$$E_{gas} = \frac{C_{gas} * MW * cfr * 60}{24 * (1 * 10^6) * 453.59}$$

Where:

- E_{gas} = gaseous pollutant emission rate (lb/hr)
- C_{gas} = gaseous pollutant concentration (ppm)
- MW = molecular weight of pollutant (methane = 16.04 g)
- 60 = minutes per hour conversion factor
- 24 = standard molar volume at room conditions
- 1E6 = ppm conversion factor
- 453.59 = grams to pounds conversion factor

Sample calculation using data from CLHCLH-1B:

$$cfr = 8.3\frac{L}{min} * \left(\frac{20\ ^0C}{14.6959\ psi}\right) * \left(\frac{14.738\ psi}{25.6\ ^0C}\right) = 6.5\ L/min$$

$$E_{gas} = \frac{124.5 * 16.04\frac{g}{mol} * 6.5\frac{L}{min} * 60\frac{min}{hr}}{24\frac{L}{mol} * (1 * 10^6) * 453.59\frac{g}{lb}} = 7.2 * 10^{-5}\ lb/hr$$

Appendix B: Procedure and Operating Apparatus

Each test was run in a 5 L JK Tech batch cell at 1200 rpm with an 8.3 L/min air flow over an 8 minute period as outlined in Table 5. Slurry temperature, pH, mV were continuously monitored. The VOC ppmv was measured continuously using Thermo TVA1000B FID instrument calibrated and checked each day the test was run using 10 ppm and 100 ppm Methane (CH4) calibration gas standards and blanked with zero air. Cell gas temperature, pressure, and relative humidity were captured continuously throughout the tests. The experimental apparatus used during the test program is illustrated in Figure 4.

Table 5: Operating conditions.

OC Code	Ore/Domain		Float Conditions	pH	% Solids	Cell Size L	RPM	Air Flow L/min
HenHen	Henderson	AG Mill Feed	Henderson	As is ~7	30	5	1200	8.3
HenCLH	Henderson	AG Mill Feed	Chino Lee Hill	11	30	5	1200	8.3
CSPCSP	Chino South Pit	DC-2	Chino South Pit	11	28	5	1200	8.3
CLHCLH	Chino Lee Hill	DC-1 CC62	Chino Lee Hill	11	35	5	1200	8.3

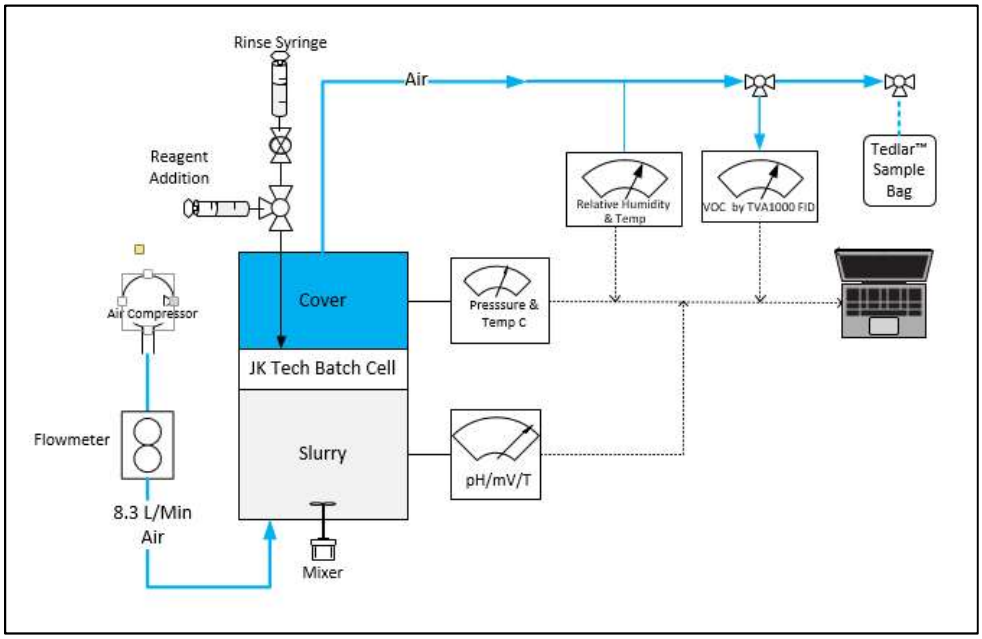


Figure 4: Experimental apparatus.

Appendix C: References

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Surface Mine Pit Retention

Clifford F. Cole & Allan J. Fabrick

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Drs. Cheng and Carpenter are aerosol scientists, Dr. Hanson is an analytical chemist and Dr. Hobbs is manager of the Coal Combustion Toxicology Program at Inhalation Toxicology Research Institute, P.O. Box 5890, Albuquerque, NM 87185. This note manuscript was peer reviewed.

Surface Mine Pit Retention

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Most air quality dispersion models which are used to predict particulate concentrations in the vicinity of surface mines simulate emissions as if they were released at ground level. In fact, many different dust producing operations at open pit mines occur inside the pit, sometimes at depths of many hundreds of feet below grade. It is reasonable to suspect that only a fraction of the fugitive dust generated at the pit floor escapes to the surface where it then may be transported to the mine boundaries. This tendency for particulate matter to remain inside the pit has been called pit retention,[1] and the magnitude and nature of pit retention is of interest because most air quality models neglect it. Failure to account for pit retention in a model may introduce a large systematic error in predicted concentrations, causing the model to overpredict actual particulate concentrations at the mine boundary or fenceline.

To date, only a very few studies have examined the magnitude or the behavior of pit retention. This article reviews two field experiments where pit retention may have played a role, discusses ways to model pit retention, and describes ongoing work designed to better understand the phenomenon.

Field Studies

In a year-long study at two open pit coal mines in Wyoming, Shearer *et al.*[2] derived particualte emission factors for major dust emitting activities. Using these emission factors coupled with historical mine operational data, they then computed the total particulate emission rates from each of the two mines. These "whole mine" emission rates, indicative of emissions prior to particle deposition, are shown in Table I. During the course of the emission factor study Shearer *et al.* independently operated ten hi-vol samplers in the vicinity of each of the mines. The hi-vols, arranged in two concentric arcs roughly 300 and 600 m downwind of the mines, measured particulate concentrations induced by mining activity. Using the EPA's PAL model, modified with a source depletion factor to account for particulate removal due to deposition and settling, they back calculated the total mine emission rates that best fit the hi-vol measured concentrations. These back calculated emission rates are shown in Table I for each of the two mines.

The agreement between the particulate emission rates determined by the two methods is poor. The emission rates back calculated from measured hi-vol concentrations are roughly one-third those of the emission factor rates. Because the PAL model used to back calculate emission rates idealized sources as if they were located at ground level, rather than at the bottom of the pit, Shearer *et al.* suggested that the discrepancy in emission rates might be attributed to pit retention.

Cole and Kunasz[3] analyzed particulate data collected at nine hi-vol samplers surrounding Anaconda Minerals Company's 550-m deep Berkeley Pit in Butte, Montana. Using a hybrid receptor model, they calculated particulate emission rates from sources within the city of Butte (primarily open burning, fuel combustion, and unpaved roads), and from mining related sources within the pit. The emission rate determined by the hybrid receptor model for city sources agreed favorably with the Butte particulate emission rate determined previously by conventional emissions inventories, as shown in Table II. However, the emission rate of Berkeley Pit sources determined by inventory and by the receptor model differed by a factor of two. The effective particulate emission rate that the receptor model predicted was half as large as that determined by the inventory inside the pit, and the authros hypothesized that only one-half of the particulate matter released in the Berkeley Pit "escaped" to the surface where it could contribute to measured hi-vol concentrations.

Table I. Comparison of particulate emission rates (g/s) determined from emission factors and from model back calculation.

Location	Emission factor	Model
Mine A	168	53
Mine B	111	41

Table II. Comparison of particulate emission rates (g/s) determined from receptor model and from emissions inventory.

Source	Receptor model	Emissions inventory
City of Butte	48	46
Berkeley Pit	59	125

Neither of these two field experiments was designed specifically to investigate pit retention, and as a consequence neither study adequately isolated the effect of pit retention. The disparity between the measured and modeled concentrations could have been caused by errors in emission factors or by systematic errors in dispersion modeling. Nevertheless, these findings suggest that the fraction of particulate matter that escapes from pit mines may be between

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one-third and one-half of the dust generated within the pit.

Pit Retention Models

Winges[4] has described a proprietary Gaussian plume model (EMAQ) which accounts for the effect of pit retention by computing the mass fraction of total emissions, ϵ, that escape the pit. The escape fraction is given by

$$\epsilon = \frac{1}{1 + \left(\frac{V_d}{K_z}\right) H} \quad (1)$$

where V_d is particle deposition velocity (m/s),
K_z is vertical diffusivity (m^2/s), and
H is pit depth (m).

The derivation includes several simplifications, but the interaction of variables seems intuitively correct—increases in deposition velocity and pit depth tend to decrease the magnitude of the escape fraction, ϵ, while an increase in eddy diffusivity increases ϵ.

Beginning with expressions for concentration within an urban street canyon, Fabrick[5] has derived a separate pit retention escape fraction

$$\epsilon = 1 - V_d \left[C/u \left(\frac{1}{2} + \ln \frac{w}{4} \right) \right] \quad (2)$$

where u is wind speed measured at the top of the pit, w is pit width, and C is an empirical dimensionless constant with a value of about 7. All other variables are as previously defined.

The Winges and Fabrick expressions can be compared by substituting identical representative data into both equations to calculate overall escape fractions. Table III shows a comparison of the two expressions using values determined by Shearer *et al.*[2] at the Wyoming coal mines mentioned earlier. A value for K_z of 7 m^2/s is assumed consistent with observed prevailing "D" stability class, the wind speed is set to 3 m/s, the pit depth is 61 m (200 ft), and the width is 550 m. The value of particulate deposition velocity in both equations is set to the maximum of deposition velocity (determined from Hanna, *et al.*[6]) and gravitational settling velocity determined from Stokes' law.

Table III shows that while the escape fractions for small particles determined by the Winges and Fabrick equations agree well, the Fabrick equation predicts complete pit retention for larger particles. The overall escape fractions computed by the equations, 0.50 and 0.16, bracket the inferred value of one-third that Shearer *et al.* reported.

Table III. Particulate escape fractions, Winges (Eq. 1) and Fabrick (Eq. 2).

Particle mean diameter[a]	Mass fraction	Deposition velocity[b] (m/s)	ϵ Winges	ϵ Fabrick
10	0.068	0.018	0.86	0.77
30	0.178	0.031	0.79	0.61
50	0.228	0.086	0.57	0.00
70	0.219	0.168	0.41	0.00
95	0.308	0.309	0.27	0.00
		Weighted average[c]:	0.50	0.16

[a] Distribution from Shearer *et al.*[2] for particles <110 μm.
[b] Maximum of deposition velocity and settling velocity.
[c] Composite values of ϵ weighted by mass fraction.

Current Work

EPA has recently finished the first phase of a study designed to isolate the effects of pit retention and to identify important controlling parameters.[7] This phase was a data gathering effort in which controlled smoke releases were made inside pits at an operating coal mine. The smoke plumes were videotaped to provide visualization of air flow in the pits, and stability class and wind speed were measured during the smoke releases. Analyses of these data, and other parameters such as pit dimensions and wind direction orientation, are to be performed in the near future.

Conclusion

Given the complexity of the pit retention problem it is not surprising that the comparison of available measured and calculated escape fractions indicates a wide range of values. A better understanding of the pit retention phenomenon, and means of analytically calculating its effect on modeled particulate concentrations, are needed. In light of the fact that current dispersion models neglect pit retention, perhaps predicting concentrations that are systematically too large and possibly preventing mines from obtaining permits, further research effort seems warranted.

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Estrella Pit Evap System Frisbee Table

Facility TDS 73,400

EPRI Droplet			Particle Mass	Solid Particle			
Diameter (µm)	Droplet ⁷olume (µm3	Droplet Mass (µg)	(Solids) (µg)	Solid Particle ⁷olume (µm3	Diameter (µm)	EPRI % Mass (particle size distribution) Smaller	Interpolated Particulate Fraction based on facility TDS **73,400**
10	524	5.24E-04	4.03E-06	1.83	1.52	0.00	3.22
20	4189	4.19E-03	3.23E-05	14.66	3.04	0.20	6.44
30	14137	1.41E-02	1.09E-04	49.48	4.56	0.23	9.66
40	33510	3.35E-02	2.58E-04	117.29	6.07	0.51	12.88
50	65450	6.54E-02	5.04E-04	229.07	7.59	1.82	16.10
60	113097	1.13E-01	8.71E-04	395.84	9.11	5.70	19.32
70	179594	1.80E-01	1.38E-03	628.58	10.63	21.35	22.53
90	381704	3.82E-01	2.94E-03	1335.96	13.67	49.81	28.97
110	696910	6.97E-01	5.37E-03	2439.18	16.70	70.51	35.41
130	1150347	1.15E+00	8.86E-03	4026.21	19.74	82.02	41.85
150	1767146	1.77E+00	1.36E-02	6185.01	22.77	88.01	48.29
180	3053628	3.05E+00	2.35E-02	10687.7	27.33	91.03	57.95
210	4849048	4.85E+00	3.73E-02	16971.67	31.88	92.47	67.60
240	7238229	7.24E+00	5.57E-02	25333.8	36.44	94.09	77.26
270	10305995	1.03E+01	7.94E-02	36070.98	40.99	94.69	86.92
300	14137167	1.41E+01	1.09E-01	49480.08	45.55	96.29	96.58
350	22449298	2.24E+01	1.73E-01	78572.54	53.14	97.01	112.67
400	33510322	3.35E+01	2.58E-01	117286.13	60.73	98.34	128.77
450	47712938	4.77E+01	3.67E-01	166995.28	68.32	99.07	144.87
500	65449847	6.54E+01	5.04E-01	229074.46	75.92	99.07	160.96
600	113097336	1.13E+02	8.71E-01	395840.67	91.10	100.00	193.16

PM2.5/Total	2.5	-
PM10/Total	10	0.257
PM/Total	30	53.112

Site Specific Data

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
1/1/2020 0:00	0	# days >= 0.01 in of precip (2020)		58	
1/2/2020 0:00	0	# days >= 0.01 in of precip (2021)		63	
1/3/2020 0:00	0	# days >= 0.01 in of precip (2022)		89	
1/4/2020 0:00	0	# days >= 0.01 in of precip (2023)		67	
1/5/2020 0:00	0	# days >= 0.01 in of precip (2024)		62	
1/6/2020 0:00	0	**Maximum (2020-2024)**		**89**	
1/7/2020 0:00	0				
1/8/2020 0:00	0				
1/9/2020 0:00	0				
1/10/2020 0:00	0				
1/11/2020 0:00	0.03				
1/12/2020 0:00	0				
1/13/2020 0:00	0				
1/14/2020 0:00	0				
1/15/2020 0:00	0				
1/16/2020 0:00	0				
1/17/2020 0:00	0.24				
1/18/2020 0:00	0.03				
1/19/2020 0:00	0				
1/20/2020 0:00	0				
1/21/2020 0:00	0				
1/22/2020 0:00	0.14				
1/23/2020 0:00	0.01				
1/24/2020 0:00	0				
1/25/2020 0:00	0				
1/26/2020 0:00	0				
1/27/2020 0:00	0				
1/28/2020 0:00	0.02				
1/29/2020 0:00	0				
1/30/2020 0:00	0				
1/31/2020 0:00	0				
2/1/2020 0:00	0				
2/2/2020 0:00	0				
2/3/2020 0:00	0				
2/4/2020 0:00	0				
2/5/2020 0:00	0				
2/6/2020 0:00	0				
2/7/2020 0:00	0				
2/8/2020 0:00	0				
2/9/2020 0:00	0				
2/10/2020 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
2/11/2020 0:00	1.02				
2/12/2020 0:00	0.59				
2/13/2020 0:00	0.08				
2/14/2020 0:00	0				
2/15/2020 0:00	0				
2/16/2020 0:00	0				
2/17/2020 0:00	0				
2/18/2020 0:00	0				
2/19/2020 0:00	0				
2/20/2020 0:00	0				
2/21/2020 0:00	0				
2/22/2020 0:00	0				
2/23/2020 0:00	0.13				
2/24/2020 0:00	0.02				
2/25/2020 0:00	0				
2/26/2020 0:00	0				
2/27/2020 0:00	0				
2/28/2020 0:00	0				
2/29/2020 0:00	0				
3/1/2020 0:00	0				
3/2/2020 0:00	0				
3/3/2020 0:00	0				
3/4/2020 0:00	0.1				
3/5/2020 0:00	0.01				
3/6/2020 0:00	0				
3/7/2020 0:00	0				
3/8/2020 0:00	0				
3/9/2020 0:00	0.57				
3/10/2020 0:00	0				
3/11/2020 0:00	0				
3/12/2020 0:00	0.05				
3/13/2020 0:00	0.11				
3/14/2020 0:00	0.34				
3/15/2020 0:00	0				
3/16/2020 0:00	0				
3/17/2020 0:00	0				
3/18/2020 0:00	0				
3/19/2020 0:00	0.74				
3/20/2020 0:00	0.02				
3/21/2020 0:00	0				
3/22/2020 0:00	0				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
3/23/2020 0:00	0
3/24/2020 0:00	0
3/25/2020 0:00	0
3/26/2020 0:00	0
3/27/2020 0:00	0
3/28/2020 0:00	0
3/29/2020 0:00	0
3/30/2020 0:00	0
3/31/2020 0:00	0
4/1/2020 0:00	0
4/2/2020 0:00	0
4/3/2020 0:00	0
4/4/2020 0:00	0
4/5/2020 0:00	0
4/6/2020 0:00	0
4/7/2020 0:00	0
4/8/2020 0:00	0
4/9/2020 0:00	0
4/10/2020 0:00	0
4/11/2020 0:00	0
4/12/2020 0:00	0
4/13/2020 0:00	0
4/14/2020 0:00	0
4/15/2020 0:00	0
4/16/2020 0:00	0
4/17/2020 0:00	0
4/18/2020 0:00	0
4/19/2020 0:00	0
4/20/2020 0:00	0
4/21/2020 0:00	0
4/22/2020 0:00	0
4/23/2020 0:00	0
4/24/2020 0:00	0
4/25/2020 0:00	0
4/26/2020 0:00	0
4/27/2020 0:00	0
4/28/2020 0:00	0
4/29/2020 0:00	0
4/30/2020 0:00	0
5/1/2020 0:00	0
5/2/2020 0:00	0

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
5/3/2020 0:00	0
5/4/2020 0:00	0
5/5/2020 0:00	0
5/6/2020 0:00	0
5/7/2020 0:00	0
5/8/2020 0:00	0
5/9/2020 0:00	0
5/10/2020 0:00	0
5/11/2020 0:00	0.08
5/12/2020 0:00	0
5/13/2020 0:00	0
5/14/2020 0:00	0
5/15/2020 0:00	0
5/16/2020 0:00	0
5/17/2020 0:00	0
5/18/2020 0:00	0
5/19/2020 0:00	0
5/20/2020 0:00	0
5/21/2020 0:00	0
5/22/2020 0:00	0
5/23/2020 0:00	0
5/24/2020 0:00	0
5/25/2020 0:00	0
5/26/2020 0:00	0
5/27/2020 0:00	0
5/28/2020 0:00	0
5/29/2020 0:00	0
5/30/2020 0:00	0
5/31/2020 0:00	0
6/1/2020 0:00	0
6/2/2020 0:00	0.04
6/3/2020 0:00	0.03
6/4/2020 0:00	0
6/5/2020 0:00	0
6/6/2020 0:00	0
6/7/2020 0:00	0.13
6/8/2020 0:00	0
6/9/2020 0:00	0
6/10/2020 0:00	0
6/11/2020 0:00	0
6/12/2020 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
6/13/2020 0:00	0.27				
6/14/2020 0:00	0.03				
6/15/2020 0:00	0				
6/16/2020 0:00	0.02				
6/17/2020 0:00	0				
6/18/2020 0:00	0				
6/19/2020 0:00	0				
6/20/2020 0:00	0				
6/21/2020 0:00	0				
6/22/2020 0:00	0				
6/23/2020 0:00	0				
6/24/2020 0:00	0				
6/25/2020 0:00	0				
6/26/2020 0:00	0				
6/27/2020 0:00	0				
6/28/2020 0:00	0				
6/29/2020 0:00	0				
6/30/2020 0:00	0				
7/1/2020 0:00	0				
7/2/2020 0:00	0				
7/3/2020 0:00	0				
7/4/2020 0:00	0				
7/5/2020 0:00	0				
7/6/2020 0:00	0				
7/7/2020 0:00	0				
7/8/2020 0:00	0				
7/9/2020 0:00	0				
7/10/2020 0:00	0				
7/11/2020 0:00	0				
7/12/2020 0:00	0				
7/13/2020 0:00	0				
7/14/2020 0:00	0.02				
7/15/2020 0:00	0				
7/16/2020 0:00	0.09				
7/17/2020 0:00	0				
7/18/2020 0:00	0				
7/19/2020 0:00	0				
7/20/2020 0:00	0.1				
7/21/2020 0:00	0				
7/22/2020 0:00	0.33				
7/23/2020 0:00	0.37				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
7/24/2020 0:00	0.22
7/25/2020 0:00	0.98
7/26/2020 0:00	0.05
7/27/2020 0:00	0.63
7/28/2020 0:00	0
7/29/2020 0:00	0.11
7/30/2020 0:00	0
7/31/2020 0:00	0
8/1/2020 0:00	0
8/2/2020 0:00	0
8/3/2020 0:00	0.02
8/4/2020 0:00	0
8/5/2020 0:00	0
8/6/2020 0:00	0
8/7/2020 0:00	0
8/8/2020 0:00	0
8/9/2020 0:00	0
8/10/2020 0:00	0
8/11/2020 0:00	0.01
8/12/2020 0:00	0
8/13/2020 0:00	0.04
8/14/2020 0:00	0.04
8/15/2020 0:00	0.14
8/16/2020 0:00	0
8/17/2020 0:00	0
8/18/2020 0:00	0
8/19/2020 0:00	0
8/20/2020 0:00	0.01
8/21/2020 0:00	0
8/22/2020 0:00	0.24
8/23/2020 0:00	0
8/24/2020 0:00	0.01
8/25/2020 0:00	0.08
8/26/2020 0:00	0.02
8/27/2020 0:00	0
8/28/2020 0:00	0
8/29/2020 0:00	0
8/30/2020 0:00	0.01
8/31/2020 0:00	0.01
9/1/2020 0:00	0
9/2/2020 0:00	0.09

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
9/3/2020 0:00	0				
9/4/2020 0:00	0				
9/5/2020 0:00	0				
9/6/2020 0:00	0				
9/7/2020 0:00	0				
9/8/2020 0:00	0				
9/9/2020 0:00	0				
9/10/2020 0:00	0.68				
9/11/2020 0:00	0				
9/12/2020 0:00	0				
9/13/2020 0:00	0				
9/14/2020 0:00	0				
9/15/2020 0:00	0				
9/16/2020 0:00	0				
9/17/2020 0:00	0.11				
9/18/2020 0:00	0				
9/19/2020 0:00	0				
9/20/2020 0:00	0				
9/21/2020 0:00	0				
9/22/2020 0:00	0				
9/23/2020 0:00	0				
9/24/2020 0:00	0.01				
9/25/2020 0:00	0				
9/26/2020 0:00	0				
9/27/2020 0:00	0				
9/28/2020 0:00	0				
9/29/2020 0:00	0				
9/30/2020 0:00	0				
10/1/2020 0:00	0				
10/2/2020 0:00	0				
10/3/2020 0:00	0				
10/4/2020 0:00	0				
10/5/2020 0:00	0				
10/6/2020 0:00	0				
10/7/2020 0:00	0				
10/8/2020 0:00	0				
10/9/2020 0:00	0				
10/10/2020 0:00	0				
10/11/2020 0:00	0				
10/12/2020 0:00	0				
10/13/2020 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
10/14/2020 0:00	0				
10/15/2020 0:00	0				
10/16/2020 0:00	0				
10/17/2020 0:00	0				
10/18/2020 0:00	0				
10/19/2020 0:00	0				
10/20/2020 0:00	0				
10/21/2020 0:00	0				
10/22/2020 0:00	0				
10/23/2020 0:00	0				
10/24/2020 0:00	0				
10/25/2020 0:00	0				
10/26/2020 0:00	0				
10/27/2020 0:00	0.48				
10/28/2020 0:00	0.09				
10/29/2020 0:00	0.02				
10/30/2020 0:00	0				
10/31/2020 0:00	0				
11/1/2020 0:00	0				
11/2/2020 0:00	0				
11/3/2020 0:00	0				
11/4/2020 0:00	0				
11/5/2020 0:00	0				
11/6/2020 0:00	0				
11/7/2020 0:00	0				
11/8/2020 0:00	0.18				
11/9/2020 0:00	0.19				
11/10/2020 0:00	0				
11/11/2020 0:00	0				
11/12/2020 0:00	0				
11/13/2020 0:00	0				
11/14/2020 0:00	0				
11/15/2020 0:00	0				
11/16/2020 0:00	0				
11/17/2020 0:00	0				
11/18/2020 0:00	0				
11/19/2020 0:00	0				
11/20/2020 0:00	0				
11/21/2020 0:00	0				
11/22/2020 0:00	0				
11/23/2020 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
11/24/2020 0:00	0				
11/25/2020 0:00	0				
11/26/2020 0:00	0				
11/27/2020 0:00	0				
11/28/2020 0:00	0				
11/29/2020 0:00	0				
11/30/2020 0:00	0				
12/1/2020 0:00	0				
12/2/2020 0:00	0				
12/3/2020 0:00	0				
12/4/2020 0:00	0				
12/5/2020 0:00	0				
12/6/2020 0:00	0				
12/7/2020 0:00	0				
12/8/2020 0:00	0				
12/9/2020 0:00	0				
12/10/2020 0:00	0				
12/11/2020 0:00	0.56				
12/12/2020 0:00	0				
12/13/2020 0:00	0				
12/14/2020 0:00	0				
12/15/2020 0:00	0				
12/16/2020 0:00	0				
12/17/2020 0:00	0				
12/18/2020 0:00	0				
12/19/2020 0:00	0				
12/20/2020 0:00	0				
12/21/2020 0:00	0				
12/22/2020 0:00	0				
12/23/2020 0:00	0				
12/24/2020 0:00	0				
12/25/2020 0:00	0				
12/26/2020 0:00	0				
12/27/2020 0:00	0				
12/28/2020 0:00	0				
12/29/2020 0:00	0				
12/30/2020 0:00	0				
12/31/2020 0:00	0				
1/1/2021 0:00	0				
1/2/2021 0:00	0				
1/3/2021 0:00	0				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
1/4/2021 0:00	0
1/5/2021 0:00	0
1/6/2021 0:00	0
1/7/2021 0:00	0
1/8/2021 0:00	0
1/9/2021 0:00	0
1/10/2021 0:00	0
1/11/2021 0:00	0
1/12/2021 0:00	0
1/13/2021 0:00	0
1/14/2021 0:00	0
1/15/2021 0:00	0
1/16/2021 0:00	0
1/17/2021 0:00	0
1/18/2021 0:00	0
1/19/2021 0:00	0
1/20/2021 0:00	0
3/4/2021 0:00	0
3/5/2021 0:00	0
3/6/2021 0:00	0
3/7/2021 0:00	0
3/8/2021 0:00	0
3/9/2021 0:00	0
3/10/2021 0:00	0
3/11/2021 0:00	0
3/12/2021 0:00	0
3/13/2021 0:00	0
3/14/2021 0:00	0
3/15/2021 0:00	0.02
3/16/2021 0:00	0
3/17/2021 0:00	0
3/18/2021 0:00	0
3/19/2021 0:00	0
3/20/2021 0:00	0
3/21/2021 0:00	0
3/22/2021 0:00	0
3/23/2021 0:00	0
3/24/2021 0:00	0.03
3/25/2021 0:00	0.18
3/26/2021 0:00	0.01
3/27/2021 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
3/28/2021 0:00	0.03				
3/29/2021 0:00	0				
3/30/2021 0:00	0				
3/31/2021 0:00	0				
4/1/2021 0:00	0				
4/2/2021 0:00	0				
4/3/2021 0:00	0				
4/4/2021 0:00	0				
4/5/2021 0:00	0				
4/6/2021 0:00	0				
4/7/2021 0:00	0				
4/8/2021 0:00	0				
4/9/2021 0:00	0				
4/10/2021 0:00	0				
4/11/2021 0:00	0				
4/12/2021 0:00	0				
4/13/2021 0:00	0				
4/14/2021 0:00	0				
4/15/2021 0:00	0				
4/16/2021 0:00	0				
4/17/2021 0:00	0				
4/18/2021 0:00	0				
4/19/2021 0:00	0				
4/20/2021 0:00	0				
4/21/2021 0:00	0				
4/22/2021 0:00	0				
4/23/2021 0:00	0				
4/24/2021 0:00	0				
4/25/2021 0:00	0				
4/26/2021 0:00	0				
4/27/2021 0:00	0				
4/28/2021 0:00	0				
4/29/2021 0:00	0.06				
4/30/2021 0:00	0.12				
5/1/2021 0:00	0				
5/2/2021 0:00	0				
5/3/2021 0:00	0				
5/4/2021 0:00	0				
5/8/2021 0:00	0				
5/9/2021 0:00	0				
5/10/2021 0:00	0				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
5/11/2021 0:00	0
5/12/2021 0:00	0
5/13/2021 0:00	0
5/14/2021 0:00	0
5/15/2021 0:00	0
5/16/2021 0:00	0
5/17/2021 0:00	0
5/18/2021 0:00	0
5/19/2021 0:00	0
5/20/2021 0:00	0
5/21/2021 0:00	0
5/22/2021 0:00	0
5/23/2021 0:00	0
5/24/2021 0:00	0
5/25/2021 0:00	0
5/26/2021 0:00	0
5/27/2021 0:00	0
5/28/2021 0:00	0
5/29/2021 0:00	0
5/30/2021 0:00	0
5/31/2021 0:00	0
6/1/2021 0:00	0
6/2/2021 0:00	0.08
6/3/2021 0:00	0
6/4/2021 0:00	0
6/5/2021 0:00	0
6/6/2021 0:00	0
6/7/2021 0:00	0
6/8/2021 0:00	0
6/9/2021 0:00	0
6/10/2021 0:00	0
6/11/2021 0:00	0.6
6/12/2021 0:00	0
6/13/2021 0:00	0
6/14/2021 0:00	0.04
6/15/2021 0:00	0
6/16/2021 0:00	0
6/17/2021 0:00	0
6/18/2021 0:00	0
6/19/2021 0:00	0
6/20/2021 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
6/21/2021 0:00	0.02				
6/22/2021 0:00	0.14				
6/23/2021 0:00	0				
6/24/2021 0:00	0				
6/25/2021 0:00	0				
6/26/2021 0:00	0				
6/27/2021 0:00	0				
6/28/2021 0:00	0.18				
6/29/2021 0:00	0.11				
6/30/2021 0:00	0				
7/1/2021 0:00	0				
7/2/2021 0:00	0.01				
7/3/2021 0:00	0.81				
7/4/2021 0:00	0.07				
7/5/2021 0:00	0				
7/6/2021 0:00	0				
7/7/2021 0:00	0.05				
7/8/2021 0:00	1.64				
7/9/2021 0:00	0				
7/10/2021 0:00	0				
7/11/2021 0:00	0				
7/12/2021 0:00	0.33				
7/13/2021 0:00	0				
7/14/2021 0:00	0				
7/15/2021 0:00	0				
7/16/2021 0:00	0.21				
7/17/2021 0:00	0				
7/18/2021 0:00	0				
7/19/2021 0:00	0.09				
7/20/2021 0:00	0.02				
7/21/2021 0:00	0				
7/22/2021 0:00	0				
7/23/2021 0:00	0.27				
7/24/2021 0:00	0				
7/25/2021 0:00	0.24				
7/26/2021 0:00	0				
7/27/2021 0:00	0				
7/28/2021 0:00	0				
7/29/2021 0:00	0				
7/30/2021 0:00	0.18				
7/31/2021 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
8/1/2021 0:00	0.01				
8/2/2021 0:00	0.02				
8/3/2021 0:00	0.12				
8/4/2021 0:00	0.03				
8/5/2021 0:00	0				
8/6/2021 0:00	0				
8/7/2021 0:00	0.31				
8/8/2021 0:00	0				
8/9/2021 0:00	0				
8/10/2021 0:00	0				
8/11/2021 0:00	0				
8/12/2021 0:00	0.46				
8/13/2021 0:00	0.16				
8/14/2021 0:00	0.51				
8/15/2021 0:00	0.36				
8/16/2021 0:00	0				
8/17/2021 0:00	0.08				
8/18/2021 0:00	0				
8/19/2021 0:00	0.18				
8/20/2021 0:00	0				
8/21/2021 0:00	0				
8/22/2021 0:00	0.51				
8/23/2021 0:00	0.02				
8/24/2021 0:00	0.07				
8/25/2021 0:00	0.01				
8/26/2021 0:00	1.31				
8/27/2021 0:00	0.15				
8/28/2021 0:00	0.01				
8/29/2021 0:00	0.05				
8/30/2021 0:00	0				
8/31/2021 0:00	0.17				
9/1/2021 0:00	0.25				
9/2/2021 0:00	0.32				
9/3/2021 0:00	0				
9/4/2021 0:00	0				
9/5/2021 0:00	0.09				
9/6/2021 0:00	0.56				
9/7/2021 0:00	0				
9/8/2021 0:00	0				
9/9/2021 0:00	0				
9/10/2021 0:00	0				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
9/11/2021 0:00	0
9/12/2021 0:00	0
9/13/2021 0:00	0
9/14/2021 0:00	0
9/15/2021 0:00	0
9/16/2021 0:00	0
9/17/2021 0:00	0
9/18/2021 0:00	0
9/19/2021 0:00	0
9/20/2021 0:00	0
9/21/2021 0:00	0
9/22/2021 0:00	0
9/23/2021 0:00	0
9/24/2021 0:00	0
9/25/2021 0:00	0
9/26/2021 0:00	0.44
9/27/2021 0:00	0.15
9/28/2021 0:00	0.03
9/29/2021 0:00	0.26
9/30/2021 0:00	0
10/1/2021 0:00	0.38
10/2/2021 0:00	0
10/3/2021 0:00	0
10/4/2021 0:00	0
10/5/2021 0:00	0
10/6/2021 0:00	0.06
10/7/2021 0:00	0.01
10/8/2021 0:00	0
10/9/2021 0:00	0
10/10/2021 0:00	0
10/11/2021 0:00	0
10/12/2021 0:00	0
10/13/2021 0:00	0
10/14/2021 0:00	0
10/15/2021 0:00	0
10/16/2021 0:00	0
10/17/2021 0:00	0
10/18/2021 0:00	0
10/19/2021 0:00	0
10/20/2021 0:00	0
10/21/2021 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
10/22/2021 0:00	0				
10/23/2021 0:00	0				
10/24/2021 0:00	0				
10/25/2021 0:00	0				
10/26/2021 0:00	0				
10/27/2021 0:00	0				
10/28/2021 0:00	0				
10/29/2021 0:00	0				
10/30/2021 0:00	0				
10/31/2021 0:00	0				
11/1/2021 0:00	0				
11/2/2021 0:00	0				
11/3/2021 0:00	0				
11/4/2021 0:00	0				
11/5/2021 0:00	0				
11/6/2021 0:00	0				
11/7/2021 0:00	0				
11/8/2021 0:00	0				
11/9/2021 0:00	0				
11/10/2021 0:00	0				
11/11/2021 0:00	0				
11/12/2021 0:00	0				
11/13/2021 0:00	0				
11/14/2021 0:00	0				
11/15/2021 0:00	0				
11/16/2021 0:00	0				
11/17/2021 0:00	0				
11/18/2021 0:00	0				
11/19/2021 0:00	0				
11/20/2021 0:00	0				
11/21/2021 0:00	0				
11/22/2021 0:00	0				
11/23/2021 0:00	0				
11/24/2021 0:00	0				
11/25/2021 0:00	0.01				
11/26/2021 0:00	0				
11/27/2021 0:00	0				
11/28/2021 0:00	0				
11/29/2021 0:00	0				
11/30/2021 0:00	0				
12/1/2021 0:00	0				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
12/2/2021 0:00	0
12/3/2021 0:00	0
12/4/2021 0:00	0
12/5/2021 0:00	0
12/6/2021 0:00	0
12/7/2021 0:00	0
12/8/2021 0:00	0
12/9/2021 0:00	0
12/10/2021 0:00	0
12/11/2021 0:00	0.11
12/12/2021 0:00	0
12/13/2021 0:00	0
12/14/2021 0:00	0
12/15/2021 0:00	0
12/16/2021 0:00	0
12/17/2021 0:00	0
12/18/2021 0:00	0
12/19/2021 0:00	0
12/20/2021 0:00	0
12/21/2021 0:00	0
12/22/2021 0:00	0
12/23/2021 0:00	0
12/24/2021 0:00	0
12/25/2021 0:00	0.18
12/26/2021 0:00	0
12/27/2021 0:00	0
12/28/2021 0:00	0.05
12/29/2021 0:00	0
12/30/2021 0:00	0.01
12/31/2021 0:00	0.05
1/1/2022 0:00	0.62
1/2/2022 0:00	0.4
1/3/2022 0:00	0
1/4/2022 0:00	0
1/5/2022 0:00	0
1/6/2022 0:00	0
1/7/2022 0:00	0
1/8/2022 0:00	0
1/9/2022 0:00	0
1/10/2022 0:00	0
1/11/2022 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
1/12/2022 0:00	0				
1/13/2022 0:00	0				
1/14/2022 0:00	0				
1/15/2022 0:00	0				
1/16/2022 0:00	0				
1/17/2022 0:00	0				
1/18/2022 0:00	0				
1/19/2022 0:00	0.01				
1/20/2022 0:00	0.01				
1/21/2022 0:00	0				
1/22/2022 0:00	0				
1/23/2022 0:00	0				
1/24/2022 0:00	0.05				
1/25/2022 0:00	0.01				
1/26/2022 0:00	0				
1/27/2022 0:00	0				
1/28/2022 0:00	0				
1/29/2022 0:00	0				
1/30/2022 0:00	0				
1/31/2022 0:00	0				
2/1/2022 0:00	0				
2/2/2022 0:00	0				
2/3/2022 0:00	0.02				
2/4/2022 0:00	0.02				
2/5/2022 0:00	0				
2/6/2022 0:00	0				
2/7/2022 0:00	0				
2/8/2022 0:00	0				
2/9/2022 0:00	0				
2/10/2022 0:00	0				
2/11/2022 0:00	0				
2/12/2022 0:00	0				
2/13/2022 0:00	0				
2/14/2022 0:00	0				
2/15/2022 0:00	0				
2/16/2022 0:00	0				
2/17/2022 0:00	0				
2/18/2022 0:00	0.02				
2/19/2022 0:00	0				
2/20/2022 0:00	0				
2/21/2022 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
2/22/2022 0:00	0				
2/23/2022 0:00	0				
2/24/2022 0:00	0				
2/25/2022 0:00	0				
2/26/2022 0:00	0				
2/27/2022 0:00	0				
2/28/2022 0:00	0				
3/1/2022 0:00	0				
3/2/2022 0:00	0				
3/3/2022 0:00	0				
3/4/2022 0:00	0				
3/5/2022 0:00	0.01				
3/6/2022 0:00	0				
3/7/2022 0:00	0				
3/8/2022 0:00	0				
3/9/2022 0:00	0				
3/10/2022 0:00	0				
3/11/2022 0:00	0				
3/12/2022 0:00	0.15				
3/13/2022 0:00	0				
3/14/2022 0:00	0				
3/15/2022 0:00	0				
3/16/2022 0:00	0				
3/17/2022 0:00	0				
3/18/2022 0:00	0				
3/19/2022 0:00	0				
3/20/2022 0:00	0				
3/21/2022 0:00	0				
3/22/2022 0:00	0				
3/23/2022 0:00	0				
3/24/2022 0:00	0				
3/25/2022 0:00	0				
3/26/2022 0:00	0				
3/27/2022 0:00	0				
3/28/2022 0:00	0				
3/29/2022 0:00	0				
3/30/2022 0:00	0.08				
3/31/2022 0:00	0.01				
4/1/2022 0:00	0				
4/2/2022 0:00	0				
4/3/2022 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
4/4/2022 0:00	0				
4/5/2022 0:00	0				
4/6/2022 0:00	0				
4/7/2022 0:00	0				
4/8/2022 0:00	0				
4/9/2022 0:00	0				
4/10/2022 0:00	0				
4/11/2022 0:00	0				
4/12/2022 0:00	0				
4/13/2022 0:00	0				
4/14/2022 0:00	0				
4/15/2022 0:00	0				
4/16/2022 0:00	0				
4/17/2022 0:00	0				
4/18/2022 0:00	0				
4/19/2022 0:00	0				
4/20/2022 0:00	0				
4/21/2022 0:00	0				
4/22/2022 0:00	0				
4/23/2022 0:00	0				
4/24/2022 0:00	0				
4/25/2022 0:00	0				
4/26/2022 0:00	0				
4/27/2022 0:00	0				
4/28/2022 0:00	0				
4/29/2022 0:00	0				
4/30/2022 0:00	0				
5/1/2022 0:00	0				
5/2/2022 0:00	0				
5/3/2022 0:00	0				
5/4/2022 0:00	0				
5/5/2022 0:00	0				
5/6/2022 0:00	0				
5/7/2022 0:00	0				
5/8/2022 0:00	0				
5/9/2022 0:00	0				
5/10/2022 0:00	0				
5/11/2022 0:00	0				
5/12/2022 0:00	0				
5/13/2022 0:00	0				
5/14/2022 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
5/15/2022 0:00	0				
5/16/2022 0:00	0				
5/17/2022 0:00	0				
5/18/2022 0:00	0				
5/19/2022 0:00	0				
5/20/2022 0:00	0				
5/21/2022 0:00	0				
5/22/2022 0:00	0				
5/23/2022 0:00	0				
5/24/2022 0:00	0				
5/25/2022 0:00	0				
5/26/2022 0:00	0				
5/27/2022 0:00	0				
5/28/2022 0:00	0				
5/29/2022 0:00	0				
5/30/2022 0:00	0				
5/31/2022 0:00	0				
6/1/2022 0:00	0				
6/2/2022 0:00	0				
6/3/2022 0:00	0				
6/4/2022 0:00	0				
6/5/2022 0:00	0				
6/6/2022 0:00	0				
6/7/2022 0:00	0				
6/8/2022 0:00	0				
6/9/2022 0:00	0				
6/10/2022 0:00	0				
6/11/2022 0:00	0				
6/12/2022 0:00	0				
6/13/2022 0:00	0				
6/14/2022 0:00	0				
6/15/2022 0:00	0				
6/16/2022 0:00	0				
6/17/2022 0:00	0				
6/18/2022 0:00	0.29				
6/19/2022 0:00	0				
6/20/2022 0:00	0.01				
6/21/2022 0:00	0				
6/22/2022 0:00	0.25				
6/23/2022 0:00	0.09				
6/24/2022 0:00	0.48				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
6/25/2022 0:00	0				
6/26/2022 0:00	0.01				
6/27/2022 0:00	0.13				
6/28/2022 0:00	0.49				
6/29/2022 0:00	0.02				
6/30/2022 0:00	0				
7/1/2022 0:00	0.01				
7/2/2022 0:00	0.27				
7/3/2022 0:00	0.05				
7/4/2022 0:00	0.16				
7/5/2022 0:00	0				
7/6/2022 0:00	0				
7/7/2022 0:00	0				
7/8/2022 0:00	0				
7/9/2022 0:00	0.01				
7/10/2022 0:00	0.11				
7/11/2022 0:00	0				
7/12/2022 0:00	0.05				
7/13/2022 0:00	0				
7/14/2022 0:00	0				
7/15/2022 0:00	0				
7/16/2022 0:00	0				
7/17/2022 0:00	0				
7/18/2022 0:00	0				
7/19/2022 0:00	0				
7/20/2022 0:00	0.09				
7/21/2022 0:00	0.01				
7/22/2022 0:00	0				
7/23/2022 0:00	0.2				
7/24/2022 0:00	0.17				
7/25/2022 0:00	0.25				
7/26/2022 0:00	0				
7/27/2022 0:00	0				
7/28/2022 0:00	0.07				
7/29/2022 0:00	0.07				
7/30/2022 0:00	0.1				
7/31/2022 0:00	0.01				
8/1/2022 0:00	0.24				
8/2/2022 0:00	0.02				
8/3/2022 0:00	0.08				
8/4/2022 0:00	0.3				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
8/5/2022 0:00	0.14
8/6/2022 0:00	0.1
8/7/2022 0:00	0.01
8/8/2022 0:00	0
8/9/2022 0:00	0.33
8/10/2022 0:00	0.15
8/11/2022 0:00	0.25
8/12/2022 0:00	0.29
8/13/2022 0:00	0.11
8/14/2022 0:00	1.16
8/15/2022 0:00	0
8/16/2022 0:00	0.08
8/17/2022 0:00	0.02
8/18/2022 0:00	0.18
8/19/2022 0:00	0.01
8/20/2022 0:00	0.87
8/21/2022 0:00	1.57
8/22/2022 0:00	1.42
8/23/2022 0:00	0.17
8/24/2022 0:00	0.18
8/25/2022 0:00	0.16
8/26/2022 0:00	0
8/27/2022 0:00	0.06
8/28/2022 0:00	0
8/29/2022 0:00	0.34
8/30/2022 0:00	0.04
8/31/2022 0:00	0.03
9/1/2022 0:00	0
9/2/2022 0:00	0
9/3/2022 0:00	0
9/4/2022 0:00	0.03
9/5/2022 0:00	0
9/6/2022 0:00	0
9/7/2022 0:00	0
9/8/2022 0:00	0
9/9/2022 0:00	0
9/10/2022 0:00	0
9/11/2022 0:00	0.03
9/12/2022 0:00	0
9/13/2022 0:00	0
9/14/2022 0:00	0

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
9/15/2022 0:00	0
9/16/2022 0:00	0
9/17/2022 0:00	0
9/18/2022 0:00	0
9/19/2022 0:00	0.1
9/20/2022 0:00	0.06
9/21/2022 0:00	0.58
9/22/2022 0:00	0.09
9/23/2022 0:00	0
9/24/2022 0:00	0.01
9/25/2022 0:00	0
9/26/2022 0:00	0
9/27/2022 0:00	0
9/28/2022 0:00	0
9/29/2022 0:00	0
9/30/2022 0:00	0
10/1/2022 0:00	0
10/2/2022 0:00	0.08
10/3/2022 0:00	0
10/4/2022 0:00	0
10/5/2022 0:00	0
10/6/2022 0:00	0.04
10/7/2022 0:00	0.19
10/8/2022 0:00	1.69
10/9/2022 0:00	0.2
10/10/2022 0:00	0
10/11/2022 0:00	0
10/12/2022 0:00	0
10/13/2022 0:00	0
10/14/2022 0:00	0
10/15/2022 0:00	0
10/16/2022 0:00	1.14
10/17/2022 0:00	0
10/18/2022 0:00	0
10/19/2022 0:00	0
10/20/2022 0:00	0
10/21/2022 0:00	0
10/22/2022 0:00	0.01
10/23/2022 0:00	0.37
10/24/2022 0:00	0.19
10/25/2022 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
10/26/2022 0:00	0				
10/27/2022 0:00	0				
10/28/2022 0:00	0				
10/29/2022 0:00	0				
10/30/2022 0:00	0				
10/31/2022 0:00	0				
11/1/2022 0:00	0				
11/2/2022 0:00	0				
11/3/2022 0:00	0				
11/4/2022 0:00	0				
11/5/2022 0:00	0				
11/6/2022 0:00	0				
11/7/2022 0:00	0				
11/8/2022 0:00	0				
11/9/2022 0:00	0				
11/10/2022 0:00	0				
11/11/2022 0:00	0				
11/12/2022 0:00	0				
11/13/2022 0:00	0				
11/14/2022 0:00	0				
11/15/2022 0:00	0				
11/16/2022 0:00	0				
11/17/2022 0:00	0				
11/18/2022 0:00	0				
11/19/2022 0:00	0				
11/20/2022 0:00	0				
11/21/2022 0:00	0				
11/22/2022 0:00	0				
11/23/2022 0:00	0				
11/24/2022 0:00	0				
11/25/2022 0:00	0				
11/26/2022 0:00	0				
11/27/2022 0:00	0				
11/28/2022 0:00	0				
11/29/2022 0:00	0				
11/30/2022 0:00	0				
12/1/2022 0:00	0				
12/2/2022 0:00	0				
12/3/2022 0:00	0.57				
12/4/2022 0:00	0.27				
12/5/2022 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
12/6/2022 0:00	0				
12/7/2022 0:00	0				
12/8/2022 0:00	0				
12/9/2022 0:00	0				
12/10/2022 0:00	0				
12/11/2022 0:00	0				
12/12/2022 0:00	0.04				
12/13/2022 0:00	0.03				
12/14/2022 0:00	0.01				
12/15/2022 0:00	0				
12/16/2022 0:00	0				
12/17/2022 0:00	0				
12/18/2022 0:00	0				
12/19/2022 0:00	0				
12/20/2022 0:00	0				
12/21/2022 0:00	0				
12/22/2022 0:00	0				
12/23/2022 0:00	0				
12/24/2022 0:00	0				
12/25/2022 0:00	0				
12/26/2022 0:00	0				
12/27/2022 0:00	0				
12/28/2022 0:00	0.04				
12/29/2022 0:00	0.29				
12/30/2022 0:00	0.12				
12/31/2022 0:00	0				
1/1/2023 0:00	0.12				
1/2/2023 0:00	0.31				
1/3/2023 0:00	0.04				
1/4/2023 0:00	0				
1/5/2023 0:00	0				
1/6/2023 0:00	0				
1/7/2023 0:00	0				
1/8/2023 0:00	0				
1/9/2023 0:00	0				
1/10/2023 0:00	0				
1/11/2023 0:00	0				
1/12/2023 0:00	0				
1/13/2023 0:00	0				
1/14/2023 0:00	0				
1/15/2023 0:00	0.2				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
1/16/2023 0:00	0.17
1/17/2023 0:00	0.16
1/18/2023 0:00	0
1/19/2023 0:00	0
1/20/2023 0:00	0
1/21/2023 0:00	0
1/22/2023 0:00	0
1/23/2023 0:00	0
1/24/2023 0:00	0
1/25/2023 0:00	0
1/26/2023 0:00	0
1/27/2023 0:00	0
1/28/2023 0:00	0
1/29/2023 0:00	0
1/30/2023 0:00	0
1/31/2023 0:00	0
2/1/2023 0:00	0
2/2/2023 0:00	0
2/3/2023 0:00	0
2/4/2023 0:00	0
2/5/2023 0:00	0
2/6/2023 0:00	0
2/7/2023 0:00	0.02
2/8/2023 0:00	0.01
2/9/2023 0:00	0
2/10/2023 0:00	0
2/11/2023 0:00	0
2/12/2023 0:00	0
2/13/2023 0:00	0
2/14/2023 0:00	0.04
2/15/2023 0:00	0.05
2/16/2023 0:00	0.01
2/17/2023 0:00	0
2/18/2023 0:00	0
2/19/2023 0:00	0.3
2/20/2023 0:00	0
2/21/2023 0:00	0.04
2/22/2023 0:00	0.06
2/23/2023 0:00	0.02
2/24/2023 0:00	0
2/25/2023 0:00	0

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
2/26/2023 0:00	0.01
2/27/2023 0:00	0
2/28/2023 0:00	0
3/1/2023 0:00	0
3/2/2023 0:00	0.01
3/3/2023 0:00	0
3/4/2023 0:00	0
3/5/2023 0:00	0
3/6/2023 0:00	0
3/7/2023 0:00	0
3/8/2023 0:00	0
3/9/2023 0:00	0
3/10/2023 0:00	0
3/11/2023 0:00	0
3/12/2023 0:00	0
3/13/2023 0:00	0
3/14/2023 0:00	0
3/15/2023 0:00	0
3/16/2023 0:00	0.12
3/17/2023 0:00	0.04
3/18/2023 0:00	0
3/19/2023 0:00	0
3/20/2023 0:00	0
3/21/2023 0:00	0
3/22/2023 0:00	0
3/23/2023 0:00	0
3/24/2023 0:00	0
3/25/2023 0:00	0
3/26/2023 0:00	0
3/27/2023 0:00	0
3/28/2023 0:00	0
3/29/2023 0:00	0
3/30/2023 0:00	0
3/31/2023 0:00	0
4/1/2023 0:00	0
4/2/2023 0:00	0
4/3/2023 0:00	0
4/4/2023 0:00	0
4/5/2023 0:00	0
4/6/2023 0:00	0
4/7/2023 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
4/8/2023 0:00	0				
4/9/2023 0:00	0				
4/10/2023 0:00	0				
4/11/2023 0:00	0				
4/12/2023 0:00	0				
4/13/2023 0:00	0				
4/14/2023 0:00	0				
4/15/2023 0:00	0				
4/16/2023 0:00	0				
4/17/2023 0:00	0				
4/18/2023 0:00	0				
4/19/2023 0:00	0				
4/20/2023 0:00	0				
4/21/2023 0:00	0				
4/22/2023 0:00	0				
4/23/2023 0:00	0				
4/24/2023 0:00	0				
4/25/2023 0:00	0				
4/26/2023 0:00	0				
4/27/2023 0:00	0				
4/28/2023 0:00	0				
4/29/2023 0:00	0				
4/30/2023 0:00	0				
5/1/2023 0:00	0				
5/2/2023 0:00	0				
5/3/2023 0:00	0				
5/4/2023 0:00	0				
5/5/2023 0:00	0				
5/6/2023 0:00	0				
5/7/2023 0:00	0				
5/8/2023 0:00	0				
5/9/2023 0:00	0				
5/10/2023 0:00	0				
5/11/2023 0:00	0				
5/12/2023 0:00	0				
5/13/2023 0:00	0.99				
5/14/2023 0:00	0.24				
5/15/2023 0:00	0				
5/16/2023 0:00	0.01				
5/17/2023 0:00	0				
5/18/2023 0:00	0				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
5/19/2023 0:00	0.01
5/20/2023 0:00	0.26
5/21/2023 0:00	0
5/22/2023 0:00	0
5/23/2023 0:00	0
5/24/2023 0:00	0
5/25/2023 0:00	0
5/26/2023 0:00	0
5/27/2023 0:00	0
5/28/2023 0:00	0
5/29/2023 0:00	0
5/30/2023 0:00	0
5/31/2023 0:00	0
6/1/2023 0:00	0
6/2/2023 0:00	0
6/3/2023 0:00	0
6/4/2023 0:00	0
6/5/2023 0:00	0
6/6/2023 0:00	0
6/7/2023 0:00	0
6/8/2023 0:00	0
6/9/2023 0:00	0
6/10/2023 0:00	0
6/11/2023 0:00	0
6/12/2023 0:00	0
6/13/2023 0:00	0
6/14/2023 0:00	0
6/15/2023 0:00	0
6/16/2023 0:00	0
6/17/2023 0:00	0
6/18/2023 0:00	0
6/19/2023 0:00	0
6/20/2023 0:00	0
6/21/2023 0:00	0
6/22/2023 0:00	0
6/23/2023 0:00	0
6/24/2023 0:00	0
6/25/2023 0:00	0
6/26/2023 0:00	0
6/27/2023 0:00	0
6/28/2023 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
6/29/2023 0:00	0				
6/30/2023 0:00	0				
7/1/2023 0:00	0				
7/2/2023 0:00	0				
7/3/2023 0:00	0.25				
7/4/2023 0:00	0				
7/5/2023 0:00	0				
7/6/2023 0:00	0				
7/7/2023 0:00	0				
7/8/2023 0:00	0				
7/9/2023 0:00	0.14				
7/10/2023 0:00	0				
7/11/2023 0:00	0				
7/12/2023 0:00	0.02				
7/13/2023 0:00	0.37				
7/14/2023 0:00	0.28				
7/15/2023 0:00	0.69				
7/16/2023 0:00	0				
7/17/2023 0:00	0.29				
7/18/2023 0:00	0				
7/19/2023 0:00	0.09				
7/20/2023 0:00	0.1				
7/21/2023 0:00	0.01				
7/22/2023 0:00	0.01				
7/23/2023 0:00	0				
7/24/2023 0:00	0				
7/25/2023 0:00	0				
7/26/2023 0:00	0				
7/27/2023 0:00	0				
7/28/2023 0:00	0				
7/29/2023 0:00	0				
7/30/2023 0:00	0				
7/31/2023 0:00	0				
8/1/2023 0:00	0.01				
8/2/2023 0:00	0.05				
8/3/2023 0:00	0				
8/4/2023 0:00	0				
8/5/2023 0:00	0				
8/6/2023 0:00	0				
8/7/2023 0:00	0.27				
8/8/2023 0:00	0.01				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
8/9/2023 0:00	0
8/10/2023 0:00	0
8/11/2023 0:00	0
8/12/2023 0:00	0
8/13/2023 0:00	0
8/14/2023 0:00	0.11
8/15/2023 0:00	0
8/16/2023 0:00	0
8/17/2023 0:00	0
8/18/2023 0:00	0
8/19/2023 0:00	0
8/20/2023 0:00	0
8/21/2023 0:00	0.03
8/22/2023 0:00	0
8/23/2023 0:00	0.06
8/24/2023 0:00	0
8/25/2023 0:00	0.5
8/26/2023 0:00	0.76
8/27/2023 0:00	0
8/28/2023 0:00	0.33
8/29/2023 0:00	0.01
8/30/2023 0:00	0
8/31/2023 0:00	0
9/1/2023 0:00	0
9/2/2023 0:00	0.01
9/3/2023 0:00	0.07
9/4/2023 0:00	0
9/5/2023 0:00	0
9/6/2023 0:00	0
9/7/2023 0:00	0
9/8/2023 0:00	0
9/9/2023 0:00	0
9/10/2023 0:00	0
9/11/2023 0:00	0.04
9/12/2023 0:00	0.85
9/13/2023 0:00	1.08
9/14/2023 0:00	0
9/15/2023 0:00	0
9/16/2023 0:00	0.04
9/17/2023 0:00	0.97
9/18/2023 0:00	0

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
9/19/2023 0:00	0
9/20/2023 0:00	0.03
9/21/2023 0:00	0.51
9/22/2023 0:00	0
9/23/2023 0:00	0
9/24/2023 0:00	0
9/25/2023 0:00	0
9/26/2023 0:00	0.03
9/27/2023 0:00	0
9/28/2023 0:00	0
9/29/2023 0:00	0
9/30/2023 0:00	0
10/1/2023 0:00	0
10/2/2023 0:00	0.11
10/3/2023 0:00	0
10/4/2023 0:00	0
10/5/2023 0:00	0
10/6/2023 0:00	0
10/7/2023 0:00	0
10/8/2023 0:00	0
10/9/2023 0:00	0
10/10/2023 0:00	0
10/11/2023 0:00	0
10/12/2023 0:00	0
10/13/2023 0:00	0
10/14/2023 0:00	0
10/15/2023 0:00	0
10/16/2023 0:00	0
10/17/2023 0:00	0
10/18/2023 0:00	0
10/19/2023 0:00	0
10/20/2023 0:00	0
10/21/2023 0:00	0
10/22/2023 0:00	0
10/23/2023 0:00	0
10/24/2023 0:00	0.43
10/25/2023 0:00	0
10/26/2023 0:00	0
10/27/2023 0:00	0
10/28/2023 0:00	0
10/29/2023 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
10/30/2023 0:00	0				
10/31/2023 0:00	0				
11/1/2023 0:00	0				
11/2/2023 0:00	0				
11/3/2023 0:00	0				
11/4/2023 0:00	0				
11/5/2023 0:00	0				
11/6/2023 0:00	0				
11/7/2023 0:00	0				
11/8/2023 0:00	0				
11/9/2023 0:00	0.17				
11/10/2023 0:00	0.04				
11/11/2023 0:00	0				
11/12/2023 0:00	0				
11/13/2023 0:00	0				
11/14/2023 0:00	0				
11/15/2023 0:00	0				
11/16/2023 0:00	0				
11/17/2023 0:00	0				
11/18/2023 0:00	0				
11/19/2023 0:00	0				
11/20/2023 0:00	0				
11/21/2023 0:00	0				
11/22/2023 0:00	0				
11/23/2023 0:00	0				
11/24/2023 0:00	0				
11/25/2023 0:00	0.02				
11/26/2023 0:00	0				
11/27/2023 0:00	0				
11/28/2023 0:00	0				
11/29/2023 0:00	0				
11/30/2023 0:00	0.07				
12/1/2023 0:00	0.01				
12/2/2023 0:00	0				
12/3/2023 0:00	0				
12/4/2023 0:00	0				
12/5/2023 0:00	0				
12/6/2023 0:00	0				
12/7/2023 0:00	0				
12/8/2023 0:00	0				
12/9/2023 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
12/10/2023 0:00	0				
12/11/2023 0:00	0				
12/12/2023 0:00	0				
12/13/2023 0:00	0				
12/14/2023 0:00	0				
12/15/2023 0:00	0				
12/16/2023 0:00	0				
12/17/2023 0:00	0				
12/18/2023 0:00	0				
12/19/2023 0:00	0				
12/20/2023 0:00	0.15				
12/21/2023 0:00	0.01				
12/22/2023 0:00	0.2				
12/23/2023 0:00	0.72				
12/24/2023 0:00	0				
12/25/2023 0:00	0				
12/26/2023 0:00	0				
12/27/2023 0:00	0				
12/28/2023 0:00	0				
12/29/2023 0:00	0				
12/30/2023 0:00	0				
12/31/2023 0:00	0				
1/1/2024 0:00	0				
1/2/2024 0:00	0				
1/3/2024 0:00	0				
1/4/2024 0:00	0.01				
1/5/2024 0:00	0				
1/6/2024 0:00	0				
1/7/2024 0:00	0				
1/8/2024 0:00	0.03				
1/9/2024 0:00	0.01				
1/10/2024 0:00	0				
1/11/2024 0:00	0				
1/12/2024 0:00	0.02				
1/13/2024 0:00	0				
1/14/2024 0:00	0				
1/15/2024 0:00	0				
1/16/2024 0:00	0				
1/17/2024 0:00	0				
1/18/2024 0:00	0				
1/19/2024 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
1/20/2024 0:00	0				
1/21/2024 0:00	0.39				
1/22/2024 0:00	0.08				
1/23/2024 0:00	0.76				
1/24/2024 0:00	0.01				
1/25/2024 0:00	0.04				
1/26/2024 0:00	0.04				
1/27/2024 0:00	0				
1/28/2024 0:00	0				
1/29/2024 0:00	0				
1/30/2024 0:00	0				
1/31/2024 0:00	0.13				
2/1/2024 0:00	0				
2/2/2024 0:00	0.33				
2/3/2024 0:00	0.16				
2/4/2024 0:00	0				
2/5/2024 0:00	0				
2/6/2024 0:00	0.15				
2/7/2024 0:00	0.01				
2/8/2024 0:00	0				
2/9/2024 0:00	0				
2/10/2024 0:00	0.18				
2/11/2024 0:00	0.07				
2/12/2024 0:00	0				
2/13/2024 0:00	0				
2/14/2024 0:00	0				
2/15/2024 0:00	0				
2/16/2024 0:00	0				
2/17/2024 0:00	0				
2/18/2024 0:00	0				
2/19/2024 0:00	0				
2/20/2024 0:00	0				
2/21/2024 0:00	0				
2/22/2024 0:00	0				
2/23/2024 0:00	0				
2/24/2024 0:00	0				
2/25/2024 0:00	0				
2/26/2024 0:00	0				
2/27/2024 0:00	0.03				
2/28/2024 0:00	0.3				
2/29/2024 0:00	0.5				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
3/1/2024 0:00	0
3/2/2024 0:00	0
3/3/2024 0:00	0
3/4/2024 0:00	0
3/5/2024 0:00	0
3/6/2024 0:00	0
3/7/2024 0:00	0.01
3/8/2024 0:00	0.03
3/9/2024 0:00	0.04
3/10/2024 0:00	0
3/11/2024 0:00	0
3/12/2024 0:00	0
3/13/2024 0:00	0
3/14/2024 0:00	0
3/15/2024 0:00	0.01
3/16/2024 0:00	0.12
3/17/2024 0:00	0
3/18/2024 0:00	0
3/19/2024 0:00	0.01
3/20/2024 0:00	0
3/21/2024 0:00	0
3/22/2024 0:00	0
3/23/2024 0:00	0
3/24/2024 0:00	0.11
3/25/2024 0:00	0
3/26/2024 0:00	0.06
3/27/2024 0:00	0
3/28/2024 0:00	0
3/29/2024 0:00	0
3/30/2024 0:00	0
3/31/2024 0:00	0
4/1/2024 0:00	0.1
4/2/2024 0:00	0.04
4/3/2024 0:00	0
4/4/2024 0:00	0
4/5/2024 0:00	0
4/6/2024 0:00	0
4/7/2024 0:00	0
4/8/2024 0:00	0
4/9/2024 0:00	0.05
4/10/2024 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
4/11/2024 0:00	0				
4/12/2024 0:00	0				
4/13/2024 0:00	0				
4/14/2024 0:00	0				
4/15/2024 0:00	0				
4/16/2024 0:00	0				
4/17/2024 0:00	0				
4/18/2024 0:00	0				
4/19/2024 0:00	0				
4/20/2024 0:00	0				
4/21/2024 0:00	0				
4/22/2024 0:00	0				
4/23/2024 0:00	0				
4/24/2024 0:00	0				
4/25/2024 0:00	0				
4/26/2024 0:00	0				
4/27/2024 0:00	0				
4/28/2024 0:00	0				
4/29/2024 0:00	0				
4/30/2024 0:00	0				
5/1/2024 0:00	0				
5/2/2024 0:00	0				
5/3/2024 0:00	0				
5/4/2024 0:00	0				
5/5/2024 0:00	0				
5/6/2024 0:00	0				
5/7/2024 0:00	0				
5/8/2024 0:00	0				
5/9/2024 0:00	0				
5/10/2024 0:00	0				
5/11/2024 0:00	0				
5/12/2024 0:00	0				
5/13/2024 0:00	0				
5/14/2024 0:00	0				
5/15/2024 0:00	0				
5/16/2024 0:00	0				
5/17/2024 0:00	0				
5/18/2024 0:00	0				
5/19/2024 0:00	0				
5/20/2024 0:00	0				
5/21/2024 0:00	0				

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
5/22/2024 0:00	0
5/23/2024 0:00	0
5/24/2024 0:00	0
5/25/2024 0:00	0
5/26/2024 0:00	0
5/27/2024 0:00	0
5/28/2024 0:00	0
5/29/2024 0:00	0
5/30/2024 0:00	0
5/31/2024 0:00	0
6/1/2024 0:00	0
6/2/2024 0:00	0
6/3/2024 0:00	0
6/4/2024 0:00	0
6/5/2024 0:00	0
6/6/2024 0:00	0
6/7/2024 0:00	0
6/8/2024 0:00	0
6/9/2024 0:00	0
6/10/2024 0:00	0
6/11/2024 0:00	0
6/12/2024 0:00	0
6/13/2024 0:00	0
6/14/2024 0:00	0
6/15/2024 0:00	0
6/16/2024 0:00	0
6/17/2024 0:00	0
6/18/2024 0:00	0
6/19/2024 0:00	0
6/20/2024 0:00	0
6/21/2024 0:00	0
6/22/2024 0:00	0
6/23/2024 0:00	0
6/24/2024 0:00	0
6/25/2024 0:00	0
6/26/2024 0:00	1.78
6/27/2024 0:00	1.07
6/28/2024 0:00	0
6/29/2024 0:00	0.13
6/30/2024 0:00	0.22
7/1/2024 0:00	0

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	Rain_in_Tot
TS	inch
	Tot
7/2/2024 0:00	0.15
7/3/2024 0:00	0.43
7/4/2024 0:00	0
7/5/2024 0:00	0
7/6/2024 0:00	0
7/7/2024 0:00	0
7/8/2024 0:00	0
7/9/2024 0:00	0
7/10/2024 0:00	0.17
7/11/2024 0:00	0.14
7/12/2024 0:00	0
7/13/2024 0:00	0
7/14/2024 0:00	0
7/15/2024 0:00	0
7/16/2024 0:00	0
7/17/2024 0:00	0
7/18/2024 0:00	0
7/19/2024 0:00	0
7/20/2024 0:00	0.1
7/21/2024 0:00	0.25
7/22/2024 0:00	0.06
7/23/2024 0:00	0.02
7/24/2024 0:00	0
7/25/2024 0:00	0.01
7/26/2024 0:00	0
7/27/2024 0:00	0
7/28/2024 0:00	0
7/29/2024 0:00	0
7/30/2024 0:00	0
7/31/2024 0:00	0
8/1/2024 0:00	0
8/2/2024 0:00	0
8/3/2024 0:00	0
8/4/2024 0:00	0
8/5/2024 0:00	0
8/6/2024 0:00	0
8/7/2024 0:00	0
8/8/2024 0:00	0
8/9/2024 0:00	0
8/10/2024 0:00	0
8/11/2024 0:00	0

TOA5 24537 CR800.Std. CPU:Chino_Dam-17.CR8 56022 Daily

TIMESTAMP	**Rain_in_Tot**
TS	**inch**
	Tot
8/12/2024 0:00	0
8/13/2024 0:00	0
8/14/2024 0:00	0
8/15/2024 0:00	0
8/16/2024 0:00	0
8/17/2024 0:00	0.02
8/18/2024 0:00	0
8/19/2024 0:00	0
8/20/2024 0:00	0
8/21/2024 0:00	0
8/22/2024 0:00	0
8/23/2024 0:00	0
8/24/2024 0:00	0
8/25/2024 0:00	0.05
8/26/2024 0:00	0.03
8/27/2024 0:00	0.01
8/28/2024 0:00	0.01
8/29/2024 0:00	0.01
8/30/2024 0:00	0
8/31/2024 0:00	0.01
9/1/2024 0:00	0
9/2/2024 0:00	0.01
9/3/2024 0:00	0
9/4/2024 0:00	0
9/5/2024 0:00	0
9/6/2024 0:00	0
9/7/2024 0:00	0
9/8/2024 0:00	0
9/9/2024 0:00	0
9/10/2024 0:00	0
9/11/2024 0:00	0
9/12/2024 0:00	0
9/13/2024 0:00	0
9/14/2024 0:00	0
9/15/2024 0:00	0
9/16/2024 0:00	0
9/17/2024 0:00	0
9/18/2024 0:00	0
9/19/2024 0:00	0
9/20/2024 0:00	0
9/21/2024 0:00	0

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
9/22/2024 0:00	0				
9/23/2024 0:00	0				
9/24/2024 0:00	0				
9/25/2024 0:00	0				
9/26/2024 0:00	0				
9/27/2024 0:00	0				
9/28/2024 0:00	0				
9/29/2024 0:00	0				
9/30/2024 0:00	0				
10/1/2024 0:00	0				
10/2/2024 0:00	0				
10/3/2024 0:00	0				
10/4/2024 0:00	0				
10/5/2024 0:00	0				
10/6/2024 0:00	0				
10/7/2024 0:00	0				
10/8/2024 0:00	0				
10/9/2024 0:00	0.01				
10/10/2024 0:00	0				
10/11/2024 0:00	0				
10/12/2024 0:00	0				
10/13/2024 0:00	0				
10/14/2024 0:00	0				
10/15/2024 0:00	0				
10/16/2024 0:00	0				
10/17/2024 0:00	0				
10/18/2024 0:00	0				
10/19/2024 0:00	0.02				
10/20/2024 0:00	0.01				
10/21/2024 0:00	0				
10/22/2024 0:00	0				
10/23/2024 0:00	0				
10/24/2024 0:00	0				
10/25/2024 0:00	0				
10/26/2024 0:00	0				
10/27/2024 0:00	0				
10/28/2024 0:00	0				
10/29/2024 0:00	0				
10/30/2024 0:00	0				
10/31/2024 0:00	0				
11/1/2024 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
11/2/2024 0:00	0				
11/3/2024 0:00	0.01				
11/4/2024 0:00	0.04				
11/5/2024 0:00	0.1				
11/6/2024 0:00	0				
11/7/2024 0:00	0				
11/8/2024 0:00	0				
11/9/2024 0:00	0				
11/10/2024 0:00	0				
11/11/2024 0:00	0				
11/12/2024 0:00	0				
11/13/2024 0:00	0				
11/14/2024 0:00	0				
11/15/2024 0:00	0				
11/16/2024 0:00	0				
11/17/2024 0:00	0.13				
11/18/2024 0:00	0.08				
11/19/2024 0:00	0.06				
11/20/2024 0:00	0				
11/21/2024 0:00	0				
11/22/2024 0:00	0				
11/23/2024 0:00	0				
11/24/2024 0:00	0				
11/25/2024 0:00	0				
11/26/2024 0:00	0				
11/27/2024 0:00	0				
11/28/2024 0:00	0				
11/29/2024 0:00	0				
11/30/2024 0:00	0				
12/1/2024 0:00	0				
12/2/2024 0:00	0				
12/3/2024 0:00	0				
12/4/2024 0:00	0.01				
12/5/2024 0:00	0				
12/6/2024 0:00	0				
12/7/2024 0:00	0				
12/8/2024 0:00	0				
12/9/2024 0:00	0				
12/10/2024 0:00	0				
12/11/2024 0:00	0				
12/12/2024 0:00	0				

TOA5	24537	CR800.Std.	CPU:Chino_Dam-17.CR8	56022	Daily
TIMESTAMP	**Rain_in_Tot**				
TS	**inch**				
	Tot				
12/13/2024 0:00	0				
12/14/2024 0:00	0				
12/15/2024 0:00	0				
12/16/2024 0:00	0				
12/17/2024 0:00	0				
12/18/2024 0:00	0				
12/19/2024 0:00	0				
12/20/2024 0:00	0				
12/21/2024 0:00	0				
12/22/2024 0:00	0				
12/23/2024 0:00	0				
12/24/2024 0:00	0				
12/25/2024 0:00	0				
12/26/2024 0:00	0				
12/27/2024 0:00	0				
12/28/2024 0:00	0				
12/29/2024 0:00	0				
12/30/2024 0:00	0				
12/31/2024 0:00	0				

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
1/1/2020 0:00	16.83	0	8.415
1/2/2020 0:00	31.93	0	15.965
1/3/2020 0:00	32.93	0	16.465
1/4/2020 0:00	24.21	0	12.105
1/5/2020 0:00	15.83	0	7.915
1/6/2020 0:00	17.84	0	8.92
1/7/2020 0:00	39.31	0	19.655
1/8/2020 0:00	14.15	0	7.075
1/9/2020 0:00	36.96	0	18.48
1/10/2020 0:00	33.27	0	16.635
1/11/2020 0:00	31.26	0	15.63
1/12/2020 0:00	24.55	0	12.275
1/13/2020 0:00	26.9	0	13.45
1/14/2020 0:00	42.33	0	21.165
1/15/2020 0:00	36.96	0	18.48
1/16/2020 0:00	15.83	0	7.915
1/17/2020 0:00	17.17	0	8.585
1/18/2020 0:00	38.97	0	19.485
1/19/2020 0:00	17.17	0	8.585
1/20/2020 0:00	15.49	0	7.745
1/21/2020 0:00	15.83	0	7.915
1/22/2020 0:00	19.52	0	9.76
1/23/2020 0:00	27.9	0	13.95
1/24/2020 0:00	30.25	0	15.125
1/25/2020 0:00	18.85	0	9.425
1/26/2020 0:00	28.57	0	14.285
1/27/2020 0:00	28.57	0	14.285
1/28/2020 0:00	44.67	0	22.335
1/29/2020 0:00	29.24	0	14.62
1/30/2020 0:00	45.68	0	22.84
1/31/2020 0:00	29.58	0	14.79
2/1/2020 0:00	27.23	0	13.615
2/2/2020 0:00	23.88	0	11.94
2/3/2020 0:00	29.58	0	14.79
2/4/2020 0:00	52.39	7.779	30.0845
2/5/2020 0:00	40.31	0	20.155
2/6/2020 0:00	38.97	0	19.485
2/7/2020 0:00	33.6	0	16.8
2/8/2020 0:00	25.22	0	12.61
2/9/2020 0:00	31.59	0	15.795
2/10/2020 0:00	32.93	0	16.465
2/11/2020 0:00	49.7	0	24.85
2/12/2020 0:00	26.23	0	13.115
2/13/2020 0:00	23.88	0	11.94
2/14/2020 0:00	18.18	0	9.09
2/15/2020 0:00	19.85	0	9.925
2/16/2020 0:00	30.92	0	15.46
2/17/2020 0:00	31.26	0	15.63
2/18/2020 0:00	36.29	0	18.145
2/19/2020 0:00	26.9	0	13.45

% of year mean wind speed > 12 mph	
2020	77.0
2021	77.8
2022	62.2
2023	21.6
2024	22.7
Average	**52.3**

TOA5		43263	Daily		South Stockpile Met Station
TIMESTAMP	WS_mph_Max		WS_mph_Min		553668-wind_speed_avg (contrail)
TS	miles/hour		miles/hour		miles/hour
	Max		**Min**		**Average**
2/20/2020 0:00	32.26		0		16.13
2/21/2020 0:00	20.52		0		10.26
2/22/2020 0:00	26.23		0		13.115
2/23/2020 0:00	35.62		0		17.81
2/24/2020 0:00	45.01		0		22.505
2/25/2020 0:00	32.26		0		16.13
2/26/2020 0:00	34.95		0		17.475
2/27/2020 0:00	21.53		0		10.765
2/28/2020 0:00	18.85		0		9.425
2/29/2020 0:00	17.17		0		8.585
3/1/2020 0:00	47.36		0		23.68
3/2/2020 0:00	42.33		0		21.165
3/3/2020 0:00	40.31		0		20.155
3/4/2020 0:00	22.54		0		11.27
3/5/2020 0:00	30.25		0		15.125
3/6/2020 0:00	23.54		0		11.77
3/7/2020 0:00	27.23		0		13.615
3/8/2020 0:00	31.93		0		15.965
3/9/2020 0:00	26.23		0		13.115
3/10/2020 0:00	27.57		0		13.785
3/11/2020 0:00	23.88		0		11.94
3/12/2020 0:00	29.92		0		14.96
3/13/2020 0:00	23.21		0		11.605
3/14/2020 0:00	43.67		0		21.835
3/15/2020 0:00	26.56		0		13.28
3/16/2020 0:00	38.64		0		19.32
3/17/2020 0:00	29.92		0		14.96
3/18/2020 0:00	49.37		1.742		25.556
3/19/2020 0:00	61.44		0		30.72
3/20/2020 0:00	39.31		0		19.655
3/21/2020 0:00	28.24		0		14.12
3/22/2020 0:00	40.31		0		20.155
3/23/2020 0:00	32.6		0		16.3
3/24/2020 0:00	59.43		0		29.715
3/25/2020 0:00	38.97		0		19.485
3/26/2020 0:00	55.41		0		27.705
3/27/2020 0:00	54.4		3.419		28.9095
3/28/2020 0:00	58.09		1.071		29.5805
3/29/2020 0:00	30.92		0		15.46
3/30/2020 0:00	24.88		0		12.44
3/31/2020 0:00	41.99		0		20.995
4/1/2020 0:00	21.19		0		10.595
4/2/2020 0:00	51.05		0		25.525
4/3/2020 0:00	45.68		0		22.84
4/4/2020 0:00	36.29		0		18.145
4/5/2020 0:00	35.95		0		17.975
4/6/2020 0:00	35.62		0		17.81
4/7/2020 0:00	32.6		0		16.3
4/8/2020 0:00	36.62		0		18.31
4/9/2020 0:00	40.65		0		20.325

TOA5		43263	Daily		South Stockpile Met Station
TIMESTAMP	WS_mph_Max		WS_mph_Min		553668-wind_speed_avg (contrail)
TS	miles/hour		miles/hour		miles/hour
	Max		**Min**		**Average**
4/10/2020 0:00		48.7		0	24.35
4/11/2020 0:00		37.96		0	18.98
4/12/2020 0:00		44		0	22
4/13/2020 0:00		50.37		0	25.185
4/14/2020 0:00		55.41		0	27.705
4/15/2020 0:00		32.26		0	16.13
4/16/2020 0:00		38.97		0	19.485
4/17/2020 0:00		39.98		0	19.99
4/18/2020 0:00		41.32		0	20.66
4/19/2020 0:00		55.07		0	27.535
4/20/2020 0:00		41.32		0	20.66
4/21/2020 0:00		44.34		0	22.17
4/22/2020 0:00		51.05		0	25.525
4/23/2020 0:00		44		0	22
4/24/2020 0:00		45.68		0	22.84
4/25/2020 0:00		42.66		0	21.33
4/26/2020 0:00		31.26		0	15.63
4/27/2020 0:00		33.27		0	16.635
4/28/2020 0:00		44.67		0	22.335
4/29/2020 0:00		36.29		0	18.145
4/30/2020 0:00		23.21		0	11.605
5/1/2020 0:00		30.59		0	15.295
5/2/2020 0:00		53.39		0	26.695
5/3/2020 0:00		44.34		0	22.17
5/4/2020 0:00		37.29		0	18.645
5/5/2020 0:00		39.64		0	19.82
5/6/2020 0:00		27.23		0	13.615
5/7/2020 0:00		35.95		0	17.975
5/8/2020 0:00		52.39		0	26.195
5/9/2020 0:00		23.88		0	11.94
5/10/2020 0:00		37.29		0	18.645
5/11/2020 0:00		41.99		0	20.995
5/12/2020 0:00		41.65		0	20.825
5/13/2020 0:00		38.3		0	19.15
5/14/2020 0:00		44.34		0	22.17
5/15/2020 0:00		30.92		0	15.46
5/16/2020 0:00		39.64		0	19.82
5/17/2020 0:00		31.93		0	15.965
5/18/2020 0:00		39.98		0	19.99
5/19/2020 0:00		43.67		0	21.835
5/20/2020 0:00		46.35		0	23.175
5/21/2020 0:00		42.33		0	21.165
5/22/2020 0:00		40.65		0	20.325
5/23/2020 0:00		36.96		0	18.48
5/24/2020 0:00		43.33		0	21.665
5/25/2020 0:00		43		0	21.5
5/26/2020 0:00		44.34		0	22.17
5/27/2020 0:00		33.94		0	16.97
5/28/2020 0:00		29.58		0	14.79
5/29/2020 0:00		38.64		0	19.32

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
5/30/2020 0:00	21.53	0	10.765
5/31/2020 0:00	22.54	0	11.27
6/1/2020 0:00	29.24	0	14.62
6/2/2020 0:00	31.26	0	15.63
6/3/2020 0:00	41.32	0	20.66
6/4/2020 0:00	34.28	0	17.14
6/5/2020 0:00	32.6	0	16.3
6/6/2020 0:00	39.31	0	19.655
6/7/2020 0:00	50.37	0	25.185
6/8/2020 0:00	45.34	0	22.67
6/9/2020 0:00	56.41	0	28.205
6/10/2020 0:00	31.59	0	15.795
6/11/2020 0:00	28.91	0	14.455
6/12/2020 0:00	40.31	0	20.155
6/13/2020 0:00	33.6	0	16.8
6/14/2020 0:00	37.63	0	18.815
6/15/2020 0:00	31.93	0	15.965
6/16/2020 0:00	34.95	0	17.475
6/17/2020 0:00	55.74	0	27.87
6/18/2020 0:00	45.34	0	22.67
6/19/2020 0:00	40.65	0	20.325
6/20/2020 0:00	41.99	0	20.995
6/21/2020 0:00	36.29	0	18.145
6/22/2020 0:00	35.62	0	17.81
6/23/2020 0:00	38.3	0	19.15
6/24/2020 0:00	33.27	0	16.635
6/25/2020 0:00	34.95	0	17.475
6/26/2020 0:00	33.94	0	16.97
6/27/2020 0:00	33.94	0	16.97
6/28/2020 0:00	54.06	0	27.03
6/29/2020 0:00	44.67	0	22.335
6/30/2020 0:00	53.06	4.76	28.91
7/1/2020 0:00	43	0	21.5
7/2/2020 0:00	38.64	0	19.32
7/3/2020 0:00	26.9	0	13.45
7/4/2020 0:00	34.95	0	17.475
7/5/2020 0:00	30.25	0	15.125
7/6/2020 0:00	30.92	0	15.46
7/7/2020 0:00	32.93	0	16.465
7/8/2020 0:00	29.58	0	14.79
7/9/2020 0:00	39.31	0	19.655
7/10/2020 0:00	32.26	0	16.13
7/11/2020 0:00	31.93	0	15.965
7/12/2020 0:00	25.89	0	12.945
7/13/2020 0:00	33.94	0	16.97
7/14/2020 0:00	35.62	0	17.81
7/15/2020 0:00	43.33	0	21.665
7/16/2020 0:00	31.93	0	15.965
7/17/2020 0:00	33.6	0	16.8
7/18/2020 0:00	29.92	0	14.96

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
7/19/2020 0:00	35.28	0	17.64
7/20/2020 0:00	26.23	0	13.115
7/21/2020 0:00	31.59	0	15.795
7/22/2020 0:00	34.28	0	17.14
7/23/2020 0:00	25.89	0	12.945
7/24/2020 0:00	21.19	0	10.595
7/25/2020 0:00	34.61	0	17.305
7/26/2020 0:00	30.25	0	15.125
7/27/2020 0:00	42.66	0	21.33
7/28/2020 0:00	18.51	0	9.255
7/29/2020 0:00	20.19	0	10.095
7/30/2020 0:00	41.65	0	20.825
7/31/2020 0:00	21.87	0	10.935
8/1/2020 0:00	29.92	0	14.96
8/2/2020 0:00	39.98	0	19.99
8/3/2020 0:00	46.35	0	23.175
8/4/2020 0:00	33.94	0	16.97
8/5/2020 0:00	36.62	0	18.31
8/6/2020 0:00	27.9	0	13.95
8/7/2020 0:00	31.26	0	15.63
8/8/2020 0:00	28.91	0	14.455
8/9/2020 0:00	26.56	0	13.28
8/10/2020 0:00	27.9	0	13.95
8/11/2020 0:00	17.84	0	8.92
8/12/2020 0:00	22.87	0	11.435
8/13/2020 0:00	31.93	0	15.965
8/14/2020 0:00	60.44	0	30.22
8/15/2020 0:00	52.39	0	26.195
8/16/2020 0:00	22.54	0	11.27
8/17/2020 0:00	35.62	0	17.81
8/18/2020 0:00	48.03	0	24.015
8/19/2020 0:00	21.53	0	10.765
8/20/2020 0:00	25.22	0	12.61
8/21/2020 0:00	37.63	0	18.815
8/22/2020 0:00	53.73	0	26.865
8/23/2020 0:00	23.88	0	11.94
8/24/2020 0:00	32.93	0	16.465
8/25/2020 0:00	31.93	0	15.965
8/26/2020 0:00	23.54	0	11.77
8/27/2020 0:00	20.52	0	10.26
8/28/2020 0:00	25.89	0	12.945
8/29/2020 0:00	26.56	0	13.28
8/30/2020 0:00	29.58	0	14.79
8/31/2020 0:00	32.26	0	16.13
9/1/2020 0:00	40.65	0	20.325
9/2/2020 0:00	43.67	0	21.835
9/3/2020 0:00	21.87	0	10.935
9/4/2020 0:00	22.87	0	11.435
9/5/2020 0:00	19.18	0	9.59
9/6/2020 0:00	24.21	0	12.105

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
9/7/2020 0:00	27.23	0	13.615
9/8/2020 0:00	30.92	0	15.46
9/9/2020 0:00	45.34	0	22.67
9/10/2020 0:00	40.98	0	20.49
9/11/2020 0:00	15.49	0	7.745
9/12/2020 0:00	17.17	0	8.585
9/13/2020 0:00	14.49	0	7.245
9/14/2020 0:00	20.52	0	10.26
9/15/2020 0:00	20.19	0	10.095
9/16/2020 0:00	23.88	0	11.94
9/17/2020 0:00	21.53	0	10.765
9/18/2020 0:00	24.55	0	12.275
9/19/2020 0:00	19.52	0	9.76
9/20/2020 0:00	20.52	0	10.26
9/21/2020 0:00	26.23	0	13.115
9/22/2020 0:00	24.88	0	12.44
9/23/2020 0:00	26.56	0	13.28
9/24/2020 0:00	40.98	0	20.49
9/25/2020 0:00	22.87	0	11.435
9/26/2020 0:00	36.29	0	18.145
9/27/2020 0:00	41.32	0	20.66
9/28/2020 0:00	40.31	0	20.155
9/29/2020 0:00	23.88	0	11.94
9/30/2020 0:00	21.87	0	10.935
10/1/2020 0:00	21.53	0	10.765
10/2/2020 0:00	22.54	0	11.27
10/3/2020 0:00	32.93	0	16.465
10/4/2020 0:00	22.87	0	11.435
10/5/2020 0:00	19.18	0	9.59
10/6/2020 0:00	37.29	0	18.645
10/7/2020 0:00	26.23	0	13.115
10/8/2020 0:00	30.25	0	15.125
10/9/2020 0:00	30.59	0	15.295
10/10/2020 0:00	34.61	0	17.305
10/11/2020 0:00	32.93	0	16.465
10/12/2020 0:00	42.66	0	21.33
10/13/2020 0:00	29.92	0	14.96
10/14/2020 0:00	30.25	0	15.125
10/15/2020 0:00	35.95	0	17.975
10/16/2020 0:00	24.21	0	12.105
10/17/2020 0:00	20.86	0	10.43
10/18/2020 0:00	41.99	0	20.995
10/19/2020 0:00	35.28	0	17.64
10/20/2020 0:00	32.6	0	16.3
10/21/2020 0:00	27.23	0	13.615
10/22/2020 0:00	30.59	0	15.295
10/23/2020 0:00	36.29	0	18.145
10/24/2020 0:00	26.23	0	13.115
10/25/2020 0:00	30.92	0	15.46
10/26/2020 0:00	54.06	0	27.03

TOA5		43263	Daily		South Stockpile Met Station
TIMESTAMP	WS_mph_Max		WS_mph_Min		553668-wind_speed_avg (contrail)
TS	miles/hour		miles/hour		miles/hour
	Max		**Min**		**Average**
10/27/2020 0:00		41.32		0	20.66
10/28/2020 0:00		23.54		0	11.77
10/29/2020 0:00		25.56		0	12.78
10/30/2020 0:00		16.5		0	8.25
10/31/2020 0:00		18.51		0	9.255
11/1/2020 0:00		18.85		0	9.425
11/2/2020 0:00		19.18		0	9.59
11/3/2020 0:00		16.83		0	8.415
11/4/2020 0:00		22.2		0	11.1
11/5/2020 0:00		26.56		0	13.28
11/6/2020 0:00		27.23		0	13.615
11/7/2020 0:00		21.53		0	10.765
11/8/2020 0:00		52.05		0	26.025
11/9/2020 0:00		53.06		0	26.53
11/10/2020 0:00		45.34		0	22.67
11/11/2020 0:00		28.57		0	14.285
11/12/2020 0:00		27.23		0	13.615
11/13/2020 0:00		18.18		0	9.09
11/14/2020 0:00		27.9		0	13.95
11/15/2020 0:00		46.01		0	23.005
11/16/2020 0:00		23.54		0	11.77
11/17/2020 0:00		15.83		0	7.915
11/18/2020 0:00		17.17		0	8.585
11/19/2020 0:00		32.6		0	16.3
11/20/2020 0:00		35.95		0	17.975
11/21/2020 0:00		22.54		0	11.27
11/22/2020 0:00		22.54		0	11.27
11/23/2020 0:00		19.18		0	9.59
11/24/2020 0:00		38.64		0	19.32
11/25/2020 0:00		48.7		0	24.35
11/26/2020 0:00		30.59		0	15.295
11/27/2020 0:00		32.93		0	16.465
11/28/2020 0:00		36.29		0	18.145
11/29/2020 0:00		30.25		0	15.125
11/30/2020 0:00		24.88		0	12.44
12/1/2020 0:00		17.17		0	8.585
12/2/2020 0:00		36.96		0	18.48
12/3/2020 0:00		31.26		0	15.63
12/4/2020 0:00		24.21		0	12.105
12/5/2020 0:00		25.89		0	12.945
12/6/2020 0:00		21.87		0	10.935
12/7/2020 0:00		17.17		0	8.585
12/8/2020 0:00		20.86		0	10.43
12/9/2020 0:00		16.83		0	8.415
12/10/2020 0:00		19.52		0	9.76
12/11/2020 0:00		56.75		0	28.375
12/12/2020 0:00		37.63		0	18.815
12/13/2020 0:00		47.02		0	23.51
12/14/2020 0:00		32.93		0	16.465
12/15/2020 0:00		36.96		0	18.48

TOA5		43263	Daily		South Stockpile Met Station
TIMESTAMP	WS_mph_Max		WS_mph_Min		553668-wind_speed_avg (contrail)
TS	miles/hour		miles/hour		miles/hour
	Max		**Min**		**Average**
12/16/2020 0:00		31.26		0	15.63
12/17/2020 0:00		24.55		0	12.275
12/18/2020 0:00		16.83		0	8.415
12/19/2020 0:00		38.3		0	19.15
12/20/2020 0:00		26.23		0	13.115
12/21/2020 0:00		23.88		0	11.94
12/22/2020 0:00		17.51		0	8.755
12/23/2020 0:00		39.64		0	19.82
12/24/2020 0:00		44.34		0	22.17
12/25/2020 0:00		22.87		0	11.435
12/26/2020 0:00		15.16		0	7.58
12/27/2020 0:00		29.92		0	14.96
12/28/2020 0:00		26.9		0	13.45
12/29/2020 0:00		39.98		0	19.99
12/30/2020 0:00		34.61		0	17.305
12/31/2020 0:00		32.93		0	16.465
1/1/2021 0:00		25.56		0	12.78
1/2/2021 0:00		23.54		0	11.77
1/3/2021 0:00		29.58		0	14.79
1/4/2021 0:00		31.59		0	15.795
1/5/2021 0:00		27.9		0	13.95
1/6/2021 0:00		32.6		0	16.3
1/7/2021 0:00		35.62		0	17.81
1/8/2021 0:00		27.23		0	13.615
1/9/2021 0:00		19.85		0	9.925
1/10/2021 0:00		52.05		0	26.025
1/11/2021 0:00		36.96		0	18.48
1/12/2021 0:00		16.83		0	8.415
1/13/2021 0:00		18.85		0	9.425
1/14/2021 0:00		22.2		0	11.1
1/15/2021 0:00		30.25		0	15.125
1/16/2021 0:00		28.57		0	14.285
1/17/2021 0:00		37.63		0	18.815
1/18/2021 0:00		25.22		0	12.61
1/19/2021 0:00		35.28		0	17.64
1/20/2021 0:00		36.29		0	18.145
1/21/2021 0:00		21.53		0	10.765
1/22/2021 0:00		21.53		0	10.765
1/23/2021 0:00		26.23		0	13.115
1/24/2021 0:00		35.95		0	17.975
1/25/2021 0:00		50.37		4.76	27.565
1/26/2021 0:00		45.34		1.742	23.541
1/27/2021 0:00		54.06		0	27.03
1/28/2021 0:00		23.54		0	11.77
1/29/2021 0:00		14.49		0	7.245
1/30/2021 0:00		50.37		0	25.185
1/31/2021 0:00		35.62		0	17.81
2/1/2021 0:00		23.21		0	11.605
2/2/2021 0:00		21.87		0	10.935
2/3/2021 0:00		20.52		0	10.26

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
2/4/2021 0:00	42.33	0	21.165
2/5/2021 0:00	41.99	0	20.995
2/6/2021 0:00	36.96	0	18.48
2/7/2021 0:00	27.23	0	13.615
2/8/2021 0:00	36.29	0	18.145
2/9/2021 0:00	33.27	0	16.635
2/10/2021 0:00	35.62	0	17.81
2/11/2021 0:00	32.6	0	16.3
2/12/2021 0:00	30.92	0	15.46
2/13/2021 0:00	31.26	0	15.63
2/14/2021 0:00	41.65	0	20.825
2/15/2021 0:00	53.06	0	26.53
2/16/2021 0:00	36.96	0	18.48
2/17/2021 0:00	38.64	0	19.32
2/18/2021 0:00	37.63	0	18.815
2/19/2021 0:00	28.57	0	14.285
2/20/2021 0:00	18.51	0	9.255
2/21/2021 0:00	66.14	0	33.07
2/22/2021 0:00	28.57	0	14.285
2/23/2021 0:00	23.88	0	11.94
2/24/2021 0:00	36.29	0	18.145
2/25/2021 0:00	41.65	0	20.825
2/26/2021 0:00	53.06	0	26.53
2/27/2021 0:00	28.57	0	14.285
2/28/2021 0:00	41.99	0	20.995
3/1/2021 0:00	49.37	0	24.685
3/2/2021 0:00	47.02	0	23.51
3/3/2021 0:00	16.83	0	8.415
3/4/2021 0:00	42.33	0	21.165
3/5/2021 0:00	46.01	0	23.005
3/6/2021 0:00	35.28	0	17.64
3/7/2021 0:00	23.88	0	11.94
3/8/2021 0:00	24.21	0	12.105
3/9/2021 0:00	41.65	0	20.825
3/10/2021 0:00	65.8	0	32.9
3/11/2021 0:00	49.37	0	24.685
3/12/2021 0:00	50.71	0	25.355
3/13/2021 0:00	58.76	2.412	30.586
3/14/2021 0:00	49.03	0	24.515
3/15/2021 0:00	58.76	1.742	30.251
3/16/2021 0:00	31.26	0	15.63
3/17/2021 0:00	67.82	0	33.91
3/18/2021 0:00	33.27	0	16.635
3/19/2021 0:00	26.56	0	13.28
3/20/2021 0:00	23.21	0	11.605
3/21/2021 0:00	40.98	0	20.49
3/22/2021 0:00	46.35	0	23.175
3/23/2021 0:00	53.39	0	26.695
3/24/2021 0:00	59.43	0	29.715
3/25/2021 0:00	32.93	0	16.465

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
3/26/2021 0:00	38.64	0	19.32
3/27/2021 0:00	44.34	0	22.17
3/28/2021 0:00	26.56	0	13.28
3/29/2021 0:00	20.19	0	10.095
3/30/2021 0:00	31.59	0	15.795
3/31/2021 0:00	57.42	0	28.71
4/1/2021 0:00	28.57	0	14.285
4/2/2021 0:00	27.9	0	13.95
4/3/2021 0:00	30.92	0	15.46
4/4/2021 0:00	18.85	0	9.425
4/5/2021 0:00	28.57	0	14.285
4/6/2021 0:00	41.99	0	20.995
4/7/2021 0:00	55.41	0	27.705
4/8/2021 0:00	38.97	0	19.485
4/9/2021 0:00	56.08	0	28.04
4/10/2021 0:00	47.36	0	23.68
4/11/2021 0:00	50.04	0	25.02
4/12/2021 0:00	40.65	0	20.325
4/13/2021 0:00	39.64	0	19.82
4/14/2021 0:00	49.7	0	24.85
4/15/2021 0:00	42.66	1.071	21.8655
4/16/2021 0:00	52.05	0	26.025
4/17/2021 0:00	37.29	0	18.645
4/18/2021 0:00	32.6	0	16.3
4/19/2021 0:00	24.55	0	12.275
4/20/2021 0:00	33.94	0	16.97
4/21/2021 0:00	39.64	0	19.82
4/22/2021 0:00	41.99	0	20.995
4/23/2021 0:00	46.01	0	23.005
4/24/2021 0:00	39.31	0	19.655
4/25/2021 0:00	34.95	0	17.475
4/26/2021 0:00	37.63	0	18.815
4/27/2021 0:00	56.41	5.766	31.088
4/28/2021 0:00	60.77	0	30.385
4/29/2021 0:00	30.92	0	15.46
4/30/2021 0:00	37.96	0	18.98
5/1/2021 0:00	26.56	0	13.28
5/2/2021 0:00	44.34	0	22.17
5/3/2021 0:00	61.11	0	30.555
5/4/2021 0:00	50.37	0	25.185
5/5/2021 0:00	32.26	0	16.13
5/6/2021 0:00	29.58	0	14.79
5/7/2021 0:00	34.95	0	17.475
5/8/2021 0:00	45.34	0	22.67
5/9/2021 0:00	50.71	0	25.355
5/10/2021 0:00	50.37	0	25.185
5/11/2021 0:00	44.34	0	22.17
5/12/2021 0:00	37.96	0	18.98
5/13/2021 0:00	28.57	0	14.285
5/14/2021 0:00	39.98	0	19.99

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
5/15/2021 0:00	36.29	0	18.145
5/16/2021 0:00	43.33	0	21.665
5/17/2021 0:00	40.98	0	20.49
5/18/2021 0:00	47.02	0	23.51
5/19/2021 0:00	41.65	0	20.825
5/20/2021 0:00	45.68	0	22.84
5/21/2021 0:00	38.64	0	19.32
5/22/2021 0:00	43.33	4.425	23.8775
5/23/2021 0:00	56.41	0	28.205
5/24/2021 0:00	38.64	0	19.32
5/25/2021 0:00	38.3	0	19.15
5/26/2021 0:00	34.61	0	17.305
5/27/2021 0:00	41.99	0	20.995
5/28/2021 0:00	41.65	0	20.825
5/29/2021 0:00	31.93	0	15.965
5/30/2021 0:00	37.29	0	18.645
5/31/2021 0:00	38.3	0	19.15
6/1/2021 0:00	37.29	0	18.645
6/2/2021 0:00	42.33	0	21.165
6/3/2021 0:00	34.95	0	17.475
6/4/2021 0:00	35.95	0	17.975
6/5/2021 0:00	31.26	0	15.63
6/6/2021 0:00	55.41	0	27.705
6/7/2021 0:00	49.7	0	24.85
6/8/2021 0:00	42.66	0	21.33
6/9/2021 0:00	37.96	0	18.98
6/10/2021 0:00	34.28	0	17.14
6/11/2021 0:00	36.96	0	18.48
6/12/2021 0:00	33.27	0	16.635
6/13/2021 0:00	38.97	0	19.485
6/14/2021 0:00	58.09	0	29.045
6/15/2021 0:00	29.24	0	14.62
6/16/2021 0:00	33.6	0	16.8
6/17/2021 0:00	24.21	0	12.105
6/18/2021 0:00	23.21	0	11.605
6/19/2021 0:00	27.9	0	13.95
6/20/2021 0:00	43	0	21.5
6/21/2021 0:00	45.68	0	22.84
6/22/2021 0:00	54.06	0	27.03
6/23/2021 0:00	38.3	0	19.15
6/24/2021 0:00	37.96	0	18.98
6/25/2021 0:00	39.31	0	19.655
6/26/2021 0:00	45.68	0	22.84
6/27/2021 0:00	31.59	0	15.795
6/28/2021 0:00	36.62	0	18.31
6/29/2021 0:00	24.21	0	12.105
6/30/2021 0:00	22.54	0	11.27
7/1/2021 0:00	15.83	0	7.915
7/2/2021 0:00	26.23	0	13.115
7/3/2021 0:00	20.19	0	10.095

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
7/4/2021 0:00	24.88	0	12.44
7/5/2021 0:00	28.91	0	14.455
7/6/2021 0:00	29.24	0	14.62
7/7/2021 0:00	31.26	0	15.63
7/8/2021 0:00	48.03	0	24.015
7/9/2021 0:00	25.56	0	12.78
7/10/2021 0:00	21.19	0	10.595
7/11/2021 0:00	29.92	0	14.96
7/12/2021 0:00	39.64	0	19.82
7/13/2021 0:00	21.87	0	10.935
7/14/2021 0:00	25.89	0	12.945
7/15/2021 0:00	29.24	0	14.62
7/16/2021 0:00	27.9	0	13.95
7/17/2021 0:00	29.92	0	14.96
7/18/2021 0:00	28.24	0	14.12
7/19/2021 0:00	26.9	0	13.45
7/20/2021 0:00	28.57	0	14.285
7/21/2021 0:00	26.56	0	13.28
7/22/2021 0:00	22.54	0	11.27
7/23/2021 0:00	31.59	0	15.795
7/24/2021 0:00	33.94	0	16.97
7/25/2021 0:00	22.87	0	11.435
7/26/2021 0:00	29.58	0	14.79
7/27/2021 0:00	27.57	0	13.785
7/28/2021 0:00	28.91	0	14.455
7/29/2021 0:00	35.62	0	17.81
7/30/2021 0:00	31.26	0	15.63
7/31/2021 0:00	25.89	0	12.945
8/1/2021 0:00	23.21	0	11.605
8/2/2021 0:00	19.52	0	9.76
8/3/2021 0:00	28.24	0	14.12
8/4/2021 0:00	28.57	0	14.285
8/5/2021 0:00	32.6	0	16.3
8/6/2021 0:00	26.23	0	13.115
8/7/2021 0:00	34.61	0	17.305
8/8/2021 0:00	33.6	0	16.8
8/9/2021 0:00	34.95	0	17.475
8/10/2021 0:00	29.24	0	14.62
8/11/2021 0:00	24.88	0	12.44
8/12/2021 0:00	35.28	0	17.64
8/13/2021 0:00	20.86	0	10.43
8/14/2021 0:00	17.17	0	8.585
8/15/2021 0:00	17.51	0	8.755
8/16/2021 0:00	18.85	0	9.425
8/17/2021 0:00	23.54	0	11.77
8/18/2021 0:00	22.2	0	11.1
8/19/2021 0:00	42.33	0	21.165
8/20/2021 0:00	30.25	0	15.125
8/21/2021 0:00	29.24	0	14.62
8/22/2021 0:00	25.22	0	12.61

TOA5		43263	Daily		South Stockpile Met Station
TIMESTAMP	WS_mph_Max		WS_mph_Min		553668-wind_speed_avg (contrail)
TS	miles/hour		miles/hour		miles/hour
	Max		**Min**		**Average**
8/23/2021 0:00		38.64		0	19.32
8/24/2021 0:00		25.89		0	12.945
8/25/2021 0:00		22.2		0	11.1
8/26/2021 0:00		54.73		0	27.365
8/27/2021 0:00		29.58		0	14.79
8/28/2021 0:00		33.6		0	16.8
8/29/2021 0:00		31.93		0	15.965
8/30/2021 0:00		20.52		0	10.26
8/31/2021 0:00		37.96		0	18.98
9/1/2021 0:00		32.93		0	16.465
9/2/2021 0:00		44.67		0	22.335
9/3/2021 0:00		26.9		0	13.45
9/4/2021 0:00		18.85		0	9.425
9/5/2021 0:00		24.55		0	12.275
9/6/2021 0:00		51.38		0	25.69
9/7/2021 0:00		17.17		0	8.585
9/8/2021 0:00		23.88		0	11.94
9/9/2021 0:00		22.2		0	11.1
9/10/2021 0:00		18.85		0	9.425
9/11/2021 0:00		18.51		0	9.255
9/12/2021 0:00		18.85		0	9.425
9/13/2021 0:00		17.84		0	8.92
9/14/2021 0:00		23.88		0	11.94
9/15/2021 0:00		27.57		0	13.785
9/16/2021 0:00		28.91		0	14.455
9/17/2021 0:00		33.6		0	16.8
9/18/2021 0:00		25.22		0	12.61
9/19/2021 0:00		26.9		0	13.45
9/20/2021 0:00		44.34		0	22.17
9/21/2021 0:00		39.31		0	19.655
9/22/2021 0:00		23.88		0	11.94
9/23/2021 0:00		19.85		0	9.925
9/24/2021 0:00		33.94		0	16.97
9/25/2021 0:00		17.51		0	8.755
9/26/2021 0:00		34.61		0	17.305
9/27/2021 0:00		34.61		0	17.305
9/28/2021 0:00		32.93		0	16.465
9/29/2021 0:00		31.59		0	15.795
9/30/2021 0:00		26.23		0	13.115
10/1/2021 0:00		28.57		0	14.285
10/2/2021 0:00		27.23		0	13.615
10/3/2021 0:00		20.86		0	10.43
10/4/2021 0:00		19.18		0	9.59
10/5/2021 0:00		18.51		0	9.255
10/6/2021 0:00		34.95		0	17.475
10/7/2021 0:00		24.55		0	12.275
10/8/2021 0:00		27.23		0	13.615
10/9/2021 0:00		27.23		0	13.615
10/10/2021 0:00		49.37		0	24.685
10/11/2021 0:00		40.98		0	20.49

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
10/12/2021 0:00	47.36	0	23.68
10/13/2021 0:00	54.73	0	27.365
10/14/2021 0:00	35.62	0	17.81
10/15/2021 0:00	34.95	0	17.475
10/16/2021 0:00	30.92	0	15.46
10/17/2021 0:00	22.2	0	11.1
10/18/2021 0:00	22.87	0	11.435
10/19/2021 0:00	37.63	0	18.815
10/20/2021 0:00	38.3	0	19.15
10/21/2021 0:00	25.89	0	12.945
10/22/2021 0:00	24.55	0	12.275
10/23/2021 0:00	26.9	0	13.45
10/24/2021 0:00	37.63	0	18.815
10/25/2021 0:00	33.27	0	16.635
10/26/2021 0:00	30.92	0	15.46
10/27/2021 0:00	63.79	1.406	32.598
10/28/2021 0:00	30.92	0	15.46
10/29/2021 0:00	28.57	0	14.285
10/30/2021 0:00	17.51	0	8.755
10/31/2021 0:00	31.59	0	15.795
11/1/2021 0:00	28.24	0	14.12
11/2/2021 0:00	29.24	0	14.62
11/3/2021 0:00	27.9	0	13.95
11/4/2021 0:00	23.54	0	11.77
11/5/2021 0:00	21.19	0	10.595
11/6/2021 0:00	23.88	0	11.94
11/7/2021 0:00	23.88	0	11.94
11/8/2021 0:00	27.9	0	13.95
11/9/2021 0:00	22.2	0	11.1
11/10/2021 0:00	25.22	0	12.61
11/11/2021 0:00	27.9	0	13.95
11/12/2021 0:00	34.61	0	17.305
11/13/2021 0:00	26.23	0	13.115
11/14/2021 0:00	27.9	0	13.95
11/15/2021 0:00	33.6	0	16.8
11/16/2021 0:00	23.21	0	11.605
11/17/2021 0:00	38.3	0	19.15
11/18/2021 0:00	28.24	0	14.12
11/19/2021 0:00	22.2	0	11.1
11/20/2021 0:00	30.25	0	15.125
11/21/2021 0:00	33.27	0	16.635
11/22/2021 0:00	18.85	0	9.425
11/23/2021 0:00	13.82	0	6.91
11/24/2021 0:00	26.56	0	13.28
11/25/2021 0:00	32.6	0	16.3
11/26/2021 0:00	25.22	0	12.61
11/27/2021 0:00	18.18	0	9.09
11/28/2021 0:00	15.83	0	7.915
11/29/2021 0:00	19.52	0	9.76
11/30/2021 0:00	17.17	0	8.585

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
12/1/2021 0:00	18.18	0	9.09
12/2/2021 0:00	17.17	0	8.585
12/3/2021 0:00	20.19	0	10.095
12/4/2021 0:00	22.87	0	11.435
12/5/2021 0:00	23.54	0	11.77
12/6/2021 0:00	26.9	0	13.45
12/7/2021 0:00	20.86	0	10.43
12/8/2021 0:00	27.57	0	13.785
12/9/2021 0:00	33.27	0	16.635
12/10/2021 0:00	51.38	0	25.69
12/11/2021 0:00	47.36	0	23.68
12/12/2021 0:00	15.83	0	7.915
12/13/2021 0:00	16.16	0	8.08
12/14/2021 0:00	25.22	0	12.61
12/15/2021 0:00	38.3	0	19.15
12/16/2021 0:00	47.36	0	23.68
12/17/2021 0:00	23.54	0	11.77
12/18/2021 0:00	31.26	0	15.63
12/19/2021 0:00	18.51	0	9.255
12/20/2021 0:00	19.85	0	9.925
12/21/2021 0:00	19.85	0	9.925
12/22/2021 0:00	23.54	0	11.77
12/23/2021 0:00	27.9	0	13.95
12/24/2021 0:00	34.28	0	17.14
12/25/2021 0:00	54.4	0	27.2
12/26/2021 0:00	38.97	0	19.485
12/27/2021 0:00	54.73	0	27.365
12/28/2021 0:00	58.09	0	29.045
12/29/2021 0:00	47.69	0	23.845
12/30/2021 0:00	43	0	21.5
12/31/2021 0:00	27.23	0	13.615
1/1/2022 0:00	70.83	0	35.415
1/2/2022 0:00	55.41	0	27.705
1/3/2022 0:00	30.25	0	15.125
1/4/2022 0:00	12.81	0	6.405
1/5/2022 0:00	29.92	0	14.96
1/6/2022 0:00	26.23	0	13.115
1/7/2022 0:00	20.19	0	10.095
1/8/2022 0:00	30.25	0	15.125
1/9/2022 0:00	40.98	0	20.49
1/10/2022 0:00	20.19	0	10.095
1/11/2022 0:00	24.21	0	12.105
1/12/2022 0:00	19.18	0	9.59
1/13/2022 0:00	18.18	0	9.09
1/14/2022 0:00	15.49	0	7.745
1/15/2022 0:00	41.32	0	20.66
1/16/2022 0:00	31.26	0	15.63
1/17/2022 0:00	12.81	0	6.405
1/18/2022 0:00	29.24	0	14.62
1/19/2022 0:00	35.95	0	17.975

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
1/20/2022 0:00	30.25	0	15.125
1/21/2022 0:00	21.87	0	10.935
1/22/2022 0:00	22.54	0	11.27
1/23/2022 0:00	31.59	0	15.795
1/24/2022 0:00	18.51	0	9.255
1/25/2022 0:00	31.59	0	15.795
1/26/2022 0:00	33.27	0	16.635
1/27/2022 0:00	26.56	0	13.28
1/28/2022 0:00	42.33	0	21.165
1/29/2022 0:00	30.59	0	15.295
1/30/2022 0:00	19.18	0	9.59
1/31/2022 0:00	36.96	0	18.48
2/1/2022 0:00	27.9	0	13.95
2/2/2022 0:00	34.28	0	17.14
2/3/2022 0:00	37.29	0	18.645
2/4/2022 0:00	22.54	0	11.27
2/5/2022 0:00	18.85	0	9.425
2/6/2022 0:00	16.5	0	8.25
2/7/2022 0:00	27.23	0	13.615
2/8/2022 0:00	18.18	0	9.09
2/9/2022 0:00	15.49	0	7.745
2/10/2022 0:00	23.21	0	11.605
2/11/2022 0:00	27.9	0	13.95
2/12/2022 0:00	31.59	0	15.795
2/13/2022 0:00	26.56	0	13.28
2/14/2022 0:00	23.54	0	11.77
2/15/2022 0:00	32.6	0	16.3
2/16/2022 0:00	53.06	0	26.53
2/17/2022 0:00	56.75	0	28.375
2/18/2022 0:00	28.24	0	14.12
2/19/2022 0:00	18.18	0	9.09
2/20/2022 0:00	19.18	0	9.59
2/21/2022 0:00	34.61	0	17.305
2/22/2022 0:00	56.75	1.742	29.246
2/23/2022 0:00	52.72	0	26.36
2/24/2022 0:00	73.52	3.754	38.637
2/25/2022 0:00	36.29	0	18.145
2/26/2022 0:00	28.91	0	14.455
2/27/2022 0:00	31.59	0	15.795
2/28/2022 0:00	27.9	0	13.95
3/1/2022 0:00	16.5	0	8.25
3/2/2022 0:00	24.55	0	12.275
3/3/2022 0:00	21.53	0	10.765
3/4/2022 0:00	33.94	0	16.97
3/5/2022 0:00	67.82	0	33.91
3/6/2022 0:00	50.37	0	25.185
3/7/2022 0:00	51.72	0	25.86
3/8/2022 0:00	42.33	0	21.165
3/9/2022 0:00	32.26	0	16.13
3/10/2022 0:00	43	0	21.5

TOA5		43263	Daily		South Stockpile Met Station
TIMESTAMP	WS_mph_Max		WS_mph_Min		553668-wind_speed_avg (contrail)
TS	miles/hour		miles/hour		miles/hour
	Max		**Min**		**Average**
3/11/2022 0:00	56.41		0		28.205
3/12/2022 0:00	30.25		0		15.125
3/13/2022 0:00	21.19		0		10.595
3/14/2022 0:00	47.36		0		23.68
3/15/2022 0:00	26.9		0		13.45
3/16/2022 0:00	24.21		0		12.105
3/17/2022 0:00	55.74		0		27.87
3/18/2022 0:00	44.67		0		22.335
3/19/2022 0:00	34.61		0		17.305
3/20/2022 0:00	27.23		0		13.615
3/21/2022 0:00	59.77		0		29.885
3/22/2022 0:00	40.31		0		20.155
3/23/2022 0:00	22.54		0		11.27
3/24/2022 0:00	28.57		0		14.285
3/25/2022 0:00	36.96		0		18.48
3/26/2022 0:00	30.92		0		15.46
3/27/2022 0:00	27.9		0		13.95
3/28/2022 0:00	41.32		0		20.66
3/29/2022 0:00	65.13		0		32.565
3/30/2022 0:00	57.08		0		28.54
3/31/2022 0:00	49.03		0		24.515
4/1/2022 0:00	35.95		0		17.975
4/2/2022 0:00	32.93		0		16.465
4/3/2022 0:00	35.62		0		17.81
4/4/2022 0:00	33.94		0		16.97
4/5/2022 0:00	38.3		0		19.15
4/6/2022 0:00	48.7		0		24.35
4/7/2022 0:00	35.28		0		17.64
4/8/2022 0:00	44.67		0		22.335
4/9/2022 0:00	23.54		0		11.77
4/10/2022 0:00	52.39		0		26.195
4/11/2022 0:00	52.05		6.437		29.2435
4/12/2022 0:00	58.42		0.735		29.5775
4/13/2022 0:00	70.5		7.779		39.1395
4/14/2022 0:00	15.16		0		7.58
4/15/2022 0:00	39.31		0		19.655
4/16/2022 0:00	46.35		0		23.175
4/17/2022 0:00	49.37		0		24.685
4/18/2022 0:00	29.92		0		14.96
4/19/2022 0:00	28.24		0		14.12
4/20/2022 0:00	50.37		0		25.185
4/21/2022 0:00	56.08		0		28.04
4/22/2022 0:00	39.64		0		19.82
4/23/2022 0:00	80.2		5.096		42.648
4/24/2022 0:00	44.34		0		22.17
4/25/2022 0:00	38.97		0		19.485
4/26/2022 0:00	37.96		0		18.98
4/27/2022 0:00	21.87		0		10.935
4/28/2022 0:00	56.75		0		28.375
4/29/2022 0:00	46.35		0		23.175

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
4/30/2022 0:00	38.3	0	19.15
5/1/2022 0:00	33.6	0	16.8
5/2/2022 0:00	55.74	0	27.87
5/3/2022 0:00	48.36	0	24.18
5/4/2022 0:00	54.73	0	27.365
5/5/2022 0:00	53.06	0	26.53
5/6/2022 0:00	37.96	0	18.98
5/7/2022 0:00	41.99	0	20.995
5/8/2022 0:00	50.71	0	25.355
5/9/2022 0:00	63.79	2.748	33.269
5/10/2022 0:00	52.05	4.425	28.2375
5/11/2022 0:00	46.01	0	23.005
5/12/2022 0:00	55.41	0	27.705
5/13/2022 0:00	41.99	0	20.995
5/14/2022 0:00	31.93	0	15.965
5/15/2022 0:00	29.58	0	14.79
5/16/2022 0:00	28.57	0	14.285
5/17/2022 0:00	38.64	0	19.32
5/18/2022 0:00	39.64	0	19.82
5/19/2022 0:00	37.29	0	18.645
5/20/2022 0:00	45.01	0	22.505
5/21/2022 0:00	56.08	0	28.04
5/22/2022 0:00	41.99	0.735	21.3625
5/23/2022 0:00	27.23	0	13.615
5/24/2022 0:00	46.35	0	23.175
5/25/2022 0:00	49.7	0	24.85
5/26/2022 0:00	38.97	0	19.485
5/27/2022 0:00	37.63	0	18.815
5/28/2022 0:00	43	0	21.5
5/29/2022 0:00	51.72	0	25.86
5/30/2022 0:00	64.46	6.437	35.4485
5/31/2022 0:00	46.69	0	23.345
6/1/2022 0:00	37.63	0	18.815
6/2/2022 0:00	32.6	0	16.3
6/3/2022 0:00	34.61	0	17.305
6/4/2022 0:00	44.34	0	22.17
6/5/2022 0:00	46.01	0	23.005
6/6/2022 0:00	43.67	0	21.835
6/7/2022 0:00	39.31	0	19.655
6/8/2022 0:00	36.62	0	18.31
6/9/2022 0:00	34.28	0	17.14
6/10/2022 0:00	32.26	0	16.13
6/11/2022 0:00	35.95	0	17.975
6/12/2022 0:00	36.29	0	18.145
6/13/2022 0:00	39.98	0	19.99
6/14/2022 0:00	52.05	0	26.025
6/15/2022 0:00	48.36	0	24.18
6/16/2022 0:00	31.26	0	15.63
6/17/2022 0:00	46.35	0	23.175
6/18/2022 0:00	45.68	0	22.84

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
6/19/2022 0:00	40.31	0	20.155
6/20/2022 0:00	30.59	0	15.295
6/21/2022 0:00	27.23	0	13.615
6/22/2022 0:00	33.27	0	16.635
6/23/2022 0:00	22.2	0	11.1
6/24/2022 0:00	35.95	0	17.975
6/25/2022 0:00	26.23	0	13.115
6/26/2022 0:00	22.87	0	11.435
6/27/2022 0:00	26.9	0	13.45
6/28/2022 0:00	30.92	0	15.46
6/29/2022 0:00	19.18	0	9.59
6/30/2022 0:00	19.52	0	9.76
7/1/2022 0:00	21.87	0	10.935
7/2/2022 0:00	27.57	0	13.785
7/3/2022 0:00	27.9	0	13.95
7/4/2022 0:00	23.88	0	11.94
7/5/2022 0:00	28.24	0	14.12
7/6/2022 0:00	32.93	0	16.465
7/7/2022 0:00	30.92	0	15.46
7/8/2022 0:00	19.52	0	9.76
7/9/2022 0:00	26.23	0	13.115
7/10/2022 0:00	26.9	0	13.45
7/11/2022 0:00	29.92	0	14.96
7/12/2022 0:00	24.55	0	12.275
7/13/2022 0:00	22.87	0	11.435
7/15/2022 0:00	23.88	0	11.94
7/16/2022 0:00	24.55	0	12.275
7/17/2022 0:00	21.53	0	10.765
7/18/2022 0:00	22.2	0	11.1
7/19/2022 0:00	22.2	0	11.1
7/20/2022 0:00	33.27	0	16.635
7/21/2022 0:00	45.01	0	22.505
7/22/2022 0:00	41.65	0	20.825
7/23/2022 0:00	31.59	0	15.795
7/24/2022 0:00	29.92	0	14.96
7/25/2022 0:00	32.93	0	16.465
7/26/2022 0:00	24.21	0	12.105
7/27/2022 0:00	26.9	0	13.45
7/28/2022 0:00	24.88	0	12.44
7/29/2022 0:00	29.58	0	14.79
7/30/2022 0:00	28.57	0	14.285
7/31/2022 0:00	23.54	0	11.77
8/1/2022 0:00	33.94	0	16.97
8/2/2022 0:00	23.54	0	11.77
8/3/2022 0:00	32.93	0	16.465
8/4/2022 0:00	29.58	0	14.79
8/5/2022 0:00	24.88	0	12.44
8/6/2022 0:00	29.92	0	14.96
8/7/2022 0:00	31.26	0	15.63
8/8/2022 0:00	28.24	0	14.12

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
8/9/2022 0:00	23.54	0	11.77
8/10/2022 0:00	28.24	0	14.12
8/11/2022 0:00	29.92	0	14.96
8/12/2022 0:00	23.54	0	11.77
8/13/2022 0:00	21.87	0	10.935
8/14/2022 0:00	19.18	0	9.59
8/15/2022 0:00	28.91	0	14.455
8/16/2022 0:00	23.54	0	11.77
8/17/2022 0:00	17.84	0	8.92
8/18/2022 0:00	29.24	0	14.62
8/19/2022 0:00	28.91	0	14.455
8/20/2022 0:00	23.88	0	11.94
8/21/2022 0:00	20.19	0	10.095
8/22/2022 0:00	13.15	0	6.575
8/23/2022 0:00	22.2	0	11.1
8/24/2022 0:00	20.86	0	10.43
8/25/2022 0:00	20.19	0	10.095
8/26/2022 0:00	16.83	0	8.415
8/27/2022 0:00	30.92	0	15.46
8/28/2022 0:00	26.23	0	13.115
8/29/2022 0:00	24.55	0	12.275
8/30/2022 0:00	26.9	0	13.45
8/31/2022 0:00	34.61	0	17.305
10/1/2022 0:00	contrail data - interval average		
10/2/2022 0:00			
10/3/2022 0:00			
10/4/2022 0:00			
10/5/2022 0:00			7.9
10/6/2022 0:00			6.48
10/7/2022 0:00			8.19
10/8/2022 0:00			8.31
10/9/2022 0:00			8.61
10/10/2022 0:00			5.27
10/11/2022 0:00			5.5
10/12/2022 0:00			5.88
10/13/2022 0:00			5.98
10/14/2022 0:00			4.41
10/15/2022 0:00			5.59
10/16/2022 0:00			7.99
10/17/2022 0:00			9.19
10/18/2022 0:00			7
10/19/2022 0:00			4.34
10/20/2022 0:00			5.68
10/21/2022 0:00			8.45
10/22/2022 0:00			14.75
10/23/2022 0:00			23.76
10/24/2022 0:00			15.24
10/25/2022 0:00			7.38
10/26/2022 0:00			8.23
10/27/2022 0:00			18.58

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
10/28/2022 0:00			10.86
10/29/2022 0:00			5.33
10/30/2022 0:00			4.68
10/31/2022 0:00			5.8
11/1/2022 0:00			5.26
11/2/2022 0:00			10.53
11/3/2022 0:00			24.23
11/4/2022 0:00			12.56
11/5/2022 0:00			9.16
11/6/2022 0:00			7.55
11/6/2022 23:00			6.59
11/7/2022 23:00			10.66
11/8/2022 23:00			22.55
11/9/2022 23:00			10.86
11/10/2022 23:00			7.39
11/11/2022 23:00			5.73
11/12/2022 23:00			14.7
11/13/2022 23:00			10.74
11/14/2022 23:00			6.1
11/15/2022 23:00			6.63
11/16/2022 23:00			4.7
11/17/2022 23:00			5.75
11/18/2022 23:00			6.07
11/19/2022 23:00			3.41
11/20/2022 23:00			4.76
11/21/2022 23:00			6.01
11/22/2022 23:00			9.14
11/23/2022 23:00			16.28
11/24/2022 23:00			15.12
11/25/2022 23:00			10.55
11/26/2022 23:00			9.34
11/27/2022 23:00			17.09
11/28/2022 23:00			20.08
11/29/2022 23:00			4.35
11/30/2022 23:00			8.17
12/1/2022 23:00			17.09
12/2/2022 23:00			5.28
12/3/2022 23:00			5.95
12/4/2022 23:00			11.85
12/5/2022 23:00			10.58
12/6/2022 23:00			6.66
12/7/2022 23:00			7.01
12/8/2022 23:00			6.03
12/9/2022 23:00			5.44
12/10/2022 23:00			6.8
12/11/2022 23:00			17.92
12/12/2022 23:00			14.18
12/13/2022 23:00			9.8
12/14/2022 23:00			7.09
12/15/2022 23:00			8.86

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
12/16/2022 23:00			4.18
12/17/2022 23:00			5.17
12/18/2022 23:00			7.33
12/19/2022 23:00			4.08
12/20/2022 23:00			6.4
12/21/2022 23:00			11.69
12/22/2022 23:00			3.55
12/23/2022 23:00			5.44
12/24/2022 23:00			6.97
12/25/2022 23:00			9.11
12/26/2022 23:00			9.22
12/27/2022 23:00			24.5
12/28/2022 23:00			12.02
12/29/2022 23:00			7.76
12/30/2022 23:00			11.65
12/31/2022 23:00			13.06
1/1/2023 23:00			16.14
1/2/2023 23:00			14.72
1/3/2023 23:00			8.07
1/4/2023 23:00			2.93
1/5/2023 23:00			8.15
1/6/2023 23:00			6.76
1/7/2023 23:00			4.84
1/8/2023 23:00			6.84
1/9/2023 23:00			8.86
1/10/2023 23:00			16.06
1/11/2023 23:00			9.07
1/12/2023 23:00			3.79
1/13/2023 23:00			10.16
1/14/2023 23:00			23.67
1/15/2023 23:00			12.89
1/16/2023 23:00			19.01
1/17/2023 23:00			13.59
1/18/2023 23:00			5.22
1/19/2023 23:00			13.06
1/20/2023 23:00			7.15
1/21/2023 23:00			9.3
1/22/2023 23:00			11.29
1/23/2023 23:00			10
1/24/2023 23:00			6.89
1/25/2023 23:00			9.45
1/26/2023 23:00			6.84
1/27/2023 23:00			11.28
1/28/2023 23:00			13.36
1/29/2023 23:00			11.88
1/30/2023 23:00			9.98
1/31/2023 23:00			8.93
2/1/2023 23:00			7.85
2/2/2023 23:00			6.84
2/3/2023 23:00			7.81

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
2/4/2023 23:00			10.54
2/5/2023 23:00			15.29
2/6/2023 23:00			10.52
2/7/2023 23:00			8.44
2/8/2023 23:00			11.34
2/9/2023 23:00			5.38
2/10/2023 23:00			8.4
2/11/2023 23:00			8.36
2/12/2023 23:00			16.29
2/13/2023 23:00			23.97
2/14/2023 23:00			23.76
2/15/2023 23:00			10.53
2/16/2023 23:00			9.69
2/17/2023 23:00			8.2
2/18/2023 23:00			6.06
2/19/2023 23:00			7.86
2/20/2023 23:00			15.14
2/21/2023 23:00			31.56
2/22/2023 23:00			15.45
2/23/2023 23:00			9.08
2/24/2023 23:00			7.06
2/25/2023 23:00			23.62
2/26/2023 23:00			11.32
2/27/2023 23:00			17.09
2/28/2023 23:00			18.58
3/1/2023 23:00			19.17
3/2/2023 23:00			9.04
3/3/2023 23:00			8.93
3/4/2023 23:00			13.72
3/5/2023 23:00			10.78
3/6/2023 23:00			9.35
3/7/2023 23:00			11.25
3/8/2023 23:00			8.39
3/9/2023 23:00			10.67
3/10/2023 23:00			18.3
3/11/2023 23:00			13.72
3/13/2023 0:00			10.46
3/14/2023 0:00			7.6
3/15/2023 0:00			13.06
3/16/2023 0:00			17.99
3/17/2023 0:00			7.08
3/18/2023 0:00			11
3/19/2023 0:00			6.28
3/20/2023 0:00			14.27
3/21/2023 0:00			26.39
3/22/2023 0:00			23.27
3/23/2023 0:00			16.84
3/24/2023 0:00			15.24
3/25/2023 0:00			11.59
3/26/2023 0:00			15.92

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
3/27/2023 0:00			8.65
3/28/2023 0:00			9.45
3/29/2023 0:00			12.03
3/30/2023 0:00			25.09
3/31/2023 0:00			15.16
4/1/2023 0:00			8.54
4/2/2023 0:00			12.31
4/3/2023 0:00			24.99
4/4/2023 0:00			34.12
4/5/2023 0:00			8.37
4/6/2023 0:00			7.15
4/7/2023 0:00			7.82
4/8/2023 0:00			8.73
4/9/2023 0:00			7.86
4/10/2023 0:00			7.54
4/11/2023 0:00			5.89
4/12/2023 0:00			7.93
4/13/2023 0:00			18.7
4/14/2023 0:00			24.66
4/15/2023 0:00			6.71
4/16/2023 0:00			8.8
4/17/2023 0:00			11.99
4/18/2023 0:00			17.14
4/19/2023 0:00			19.28
4/20/2023 0:00			11.79
4/21/2023 0:00			15.05
4/22/2023 0:00			11.4
4/23/2023 0:00			8.95
4/24/2023 0:00			11.57
4/25/2023 0:00			17.25
4/26/2023 0:00			9.08
4/27/2023 0:00			10.31
4/28/2023 0:00			8.72
4/29/2023 0:00			7.65
4/30/2023 0:00			9.32
5/1/2023 0:00			9.68
5/2/2023 0:00			9.39
5/3/2023 0:00			9.51
5/4/2023 0:00			17.67
5/5/2023 0:00			19.55
5/6/2023 0:00			14.73
5/7/2023 0:00			11.97
5/8/2023 0:00			8.17
5/9/2023 0:00			9.78
5/10/2023 0:00			20.12
5/11/2023 0:00			11.39
5/12/2023 0:00			8
5/13/2023 0:00			8.21
5/14/2023 0:00			10.36
5/15/2023 0:00			9.23

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
5/16/2023 0:00			7.28
5/17/2023 0:00			8.2
5/18/2023 0:00			10.29
5/19/2023 0:00			8.33
5/20/2023 0:00			11.59
5/21/2023 0:00			7.64
5/22/2023 0:00			8.41
5/23/2023 0:00			10.57
5/24/2023 0:00			10.16
5/25/2023 0:00			8.48
5/26/2023 0:00			11.85
5/27/2023 0:00			12.31
5/28/2023 0:00			10.95
5/29/2023 0:00			9.62
5/30/2023 0:00			10.09
5/31/2023 0:00			13.6
6/1/2023 0:00			13.02
6/2/2023 0:00			9.41
6/3/2023 0:00			9.86
6/4/2023 0:00			9.48
6/5/2023 0:00			9.19
6/6/2023 0:00			14.16
6/7/2023 0:00			10.11
6/8/2023 0:00			8.81
6/9/2023 0:00			8.57
6/10/2023 0:00			12.69
6/11/2023 0:00			17.74
6/12/2023 0:00			16.77
6/13/2023 0:00			13.01
6/14/2023 0:00			14.68
6/15/2023 0:00			17.91
6/16/2023 0:00			18.04
6/17/2023 0:00			17.06
6/18/2023 0:00			15.33
6/19/2023 0:00			16.87
6/20/2023 0:00			13.62
6/21/2023 0:00			11.06
6/22/2023 0:00			15.03
6/23/2023 0:00			18.76
6/24/2023 0:00			13.12
6/25/2023 0:00			12.81
6/26/2023 0:00			9.33
6/27/2023 0:00			11.66
6/28/2023 0:00			12.39
6/29/2023 0:00			11.02
6/30/2023 0:00			12.38
7/1/2023 0:00			8.04
7/2/2023 0:00			7.59
7/3/2023 0:00			7.09
7/4/2023 0:00			6.62

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
7/5/2023 0:00			10.06
7/6/2023 0:00			9.46
7/7/2023 0:00			10.26
7/8/2023 0:00			9.9
7/9/2023 0:00			7.63
7/10/2023 0:00			8.72
7/11/2023 0:00			7.12
7/12/2023 0:00			8.53
7/13/2023 0:00			6.15
7/14/2023 0:00			5.07
7/15/2023 0:00			6.72
7/16/2023 0:00			6.83
7/17/2023 0:00			7.27
7/18/2023 0:00			9.46
7/19/2023 0:00			9.24
7/20/2023 0:00			10.91
7/21/2023 0:00			9.02
7/22/2023 0:00			9.98
7/23/2023 0:00			6.67
7/24/2023 0:00			5.99
7/25/2023 0:00			6.96
7/26/2023 0:00			6.97
7/27/2023 0:00			10.64
7/28/2023 0:00			8.83
7/29/2023 0:00			8.3
7/30/2023 0:00			8.34
7/31/2023 0:00			8.38
8/1/2023 0:00			7.98
8/2/2023 0:00			8.05
8/3/2023 0:00			6.87
8/4/2023 0:00			7.71
8/5/2023 0:00			10.09
8/6/2023 0:00			11.94
8/7/2023 0:00			10.05
8/8/2023 0:00			11.35
8/9/2023 0:00			12.48
8/10/2023 0:00			11.71
8/11/2023 0:00			8.41
8/12/2023 0:00			5.63
8/13/2023 0:00			8.56
8/14/2023 0:00			8.97
8/15/2023 0:00			7.56
8/16/2023 0:00			6.18
8/17/2023 0:00			6.22
8/18/2023 0:00			8.55
8/19/2023 0:00			9.53
8/20/2023 0:00			10.92
8/21/2023 0:00			12.03
8/22/2023 0:00			10.39
8/23/2023 0:00			8.02

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
8/24/2023 0:00			5.13
8/25/2023 0:00			5.4
8/26/2023 0:00			
8/27/2023 0:00			
8/28/2023 0:00			6.87
8/29/2023 0:00			5.57
8/30/2023 0:00			4.81
8/31/2023 0:00			4.59
9/1/2023 0:00			7.05
9/2/2023 0:00			4.69
9/3/2023 0:00			7.36
9/4/2023 0:00			11.63
9/5/2023 0:00			7.55
9/6/2023 0:00			7.32
9/7/2023 0:00			8.21
9/8/2023 0:00			4.93
9/9/2023 0:00			8
9/10/2023 0:00			8.19
9/11/2023 0:00			14.42
9/12/2023 0:00			5.55
9/13/2023 0:00			7.3
9/14/2023 0:00			8.77
9/15/2023 0:00			7.78
9/16/2023 0:00			9.73
9/17/2023 0:00			10.23
9/18/2023 0:00			8.32
9/19/2023 0:00			8.51
9/20/2023 0:00			7.49
9/21/2023 0:00			9.24
9/22/2023 0:00			9.73
9/23/2023 0:00			9.08
9/24/2023 0:00			8.42
9/25/2023 0:00			7.38
9/26/2023 0:00			7.75
9/27/2023 0:00			9.46
9/28/2023 0:00			7.9
9/29/2023 0:00			7.8
9/30/2023 0:00			11.44
10/1/2023 0:00			15.97
10/2/2023 0:00			14.87
10/3/2023 0:00			10.96
10/4/2023 0:00			7.15
10/5/2023 0:00			9.78
10/6/2023 0:00			7.55
10/7/2023 0:00			10.02
10/8/2023 0:00			7.69
10/9/2023 0:00			6.6
10/10/2023 0:00			8.1
10/11/2023 0:00			18.22
10/12/2023 0:00			20.64

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
10/13/2023 0:00			6.7
10/14/2023 0:00			6.07
10/15/2023 0:00			6.19
10/16/2023 0:00			5.74
10/17/2023 0:00			6.45
10/18/2023 0:00			6.8
10/19/2023 0:00			7.97
10/20/2023 0:00			5.91
10/21/2023 0:00			5.91
10/22/2023 0:00			7.47
10/23/2023 0:00			7.06
10/24/2023 0:00			6.77
10/25/2023 0:00			8.25
10/26/2023 0:00			8.07
10/27/2023 0:00			4.74
10/28/2023 0:00			12.68
10/29/2023 0:00			11.28
10/30/2023 0:00			4.23
10/31/2023 0:00			4.07
11/1/2023 0:00			5.63
11/2/2023 0:00			4.36
11/3/2023 0:00			5.06
11/4/2023 0:00			4.94
11/5/2023 0:00			6.36
11/5/2023 23:00			9.43
11/6/2023 23:00			17.86
11/7/2023 23:00			18.31
11/8/2023 23:00			8.11
11/9/2023 23:00			6.77
11/10/2023 23:00			5.66
11/11/2023 23:00			7.02
11/12/2023 23:00			6.26
11/13/2023 23:00			5.24
11/14/2023 23:00			4.43
11/15/2023 23:00			5.69
11/16/2023 23:00			6.13
11/17/2023 23:00			8.87
11/18/2023 23:00			17.9
11/19/2023 23:00			8.03
11/20/2023 23:00			10.97
11/21/2023 23:00			3.55
11/22/2023 23:00			7.32
11/23/2023 23:00			14.37
11/24/2023 23:00			12.65
11/25/2023 23:00			5.03
11/26/2023 23:00			5.54
11/27/2023 23:00			4.2
11/28/2023 23:00			6.1
11/29/2023 23:00			14.36
11/30/2023 23:00			11.04

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
12/1/2023 23:00			9.2
12/2/2023 23:00			7.27
12/3/2023 23:00			4.8
12/4/2023 23:00			4.26
12/5/2023 23:00			6.22
12/6/2023 23:00			7.94
12/7/2023 23:00			14.28
12/8/2023 23:00			7.16
12/9/2023 23:00			4.1
12/10/2023 23:00			2.5
12/11/2023 23:00			4.5
12/12/2023 23:00			8.73
12/13/2023 23:00			7.86
12/14/2023 23:00			8.14
12/15/2023 23:00			4.52
12/16/2023 23:00			3.84
12/17/2023 23:00			5.82
12/18/2023 23:00			4.96
12/19/2023 23:00			6.48
12/20/2023 23:00			4.17
12/21/2023 23:00			8.54
12/22/2023 23:00			14.7
12/23/2023 23:00			7.98
12/24/2023 23:00			7.52
12/25/2023 23:00			9.31
12/26/2023 23:00			11.21
12/27/2023 23:00			6.71
12/28/2023 23:00			4.51
12/29/2023 23:00			4.2
12/30/2023 23:00			9.25
12/31/2023 23:00			5.15
1/1/2024 23:00			5.96
1/2/2024 23:00			5.97
1/3/2024 23:00			19.97
1/4/2024 23:00			11.23
1/5/2024 23:00			7.72
1/6/2024 23:00			18.21
1/7/2024 23:00			18.13
1/8/2024 23:00			6.22
1/9/2024 23:00			12.67
1/10/2024 23:00			23.57
1/11/2024 23:00			9.41
1/12/2024 23:00			10.72
1/13/2024 23:00			13.29
1/14/2024 23:00			10.65
1/15/2024 23:00			6.11
1/16/2024 23:00			8.86
1/17/2024 23:00			12.96
1/18/2024 23:00			4.19
1/19/2024 23:00			4.07

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
1/20/2024 23:00			9.97
1/21/2024 23:00			8.37
1/22/2024 23:00			5.17
1/23/2024 23:00			7.39
1/24/2024 23:00			8.22
1/25/2024 23:00			11.42
1/26/2024 23:00			7.36
1/27/2024 23:00			3.77
1/28/2024 23:00			4.61
1/29/2024 23:00			4.34
1/30/2024 23:00			7.38
1/31/2024 23:00			10.61
2/1/2024 23:00			17.72
2/2/2024 23:00			19.91
2/3/2024 23:00			8.34
2/4/2024 23:00			5.44
2/5/2024 23:00			11.01
2/6/2024 23:00			22.09
2/7/2024 23:00			14.14
2/8/2024 23:00			10.28
2/9/2024 23:00			9.72
2/10/2024 23:00			5.19
2/11/2024 23:00			4.09
2/12/2024 23:00			5.3
2/13/2024 23:00			8.77
2/14/2024 23:00			7.33
2/15/2024 23:00			8.4
2/16/2024 23:00			8.73
2/17/2024 23:00			7.46
2/18/2024 23:00			7.64
2/19/2024 23:00			7.42
2/20/2024 23:00			17.79
2/21/2024 23:00			7.01
2/22/2024 23:00			7.12
2/23/2024 23:00			6.35
2/24/2024 23:00			10.38
2/25/2024 23:00			14.26
2/26/2024 23:00			22.7
2/27/2024 23:00			8.3
2/28/2024 23:00			7.96
2/29/2024 23:00			10.53
3/1/2024 23:00			20.82
3/2/2024 23:00			21.17
3/3/2024 23:00			14.2
3/4/2024 23:00			8.2
3/5/2024 23:00			10.88
3/6/2024 23:00			12.94
3/7/2024 23:00			7.45
3/8/2024 23:00			7.88
3/9/2024 23:00			7.12

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
3/11/2024 0:00			6.43
3/12/2024 0:00			10.42
3/13/2024 0:00			19.33
3/14/2024 0:00			6.69
3/15/2024 0:00			10.99
3/16/2024 0:00			6.67
3/17/2024 0:00			5.95
3/18/2024 0:00			14.66
3/19/2024 0:00			8.23
3/20/2024 0:00			8
3/21/2024 0:00			8.59
3/22/2024 0:00			8.12
3/23/2024 0:00			14.31
3/24/2024 0:00			20.11
3/25/2024 0:00			16.85
3/26/2024 0:00			12.25
3/27/2024 0:00			6.81
3/28/2024 0:00			7.51
3/29/2024 0:00			20.15
3/30/2024 0:00			16.53
3/31/2024 0:00			24.83
4/1/2024 0:00			12.15
4/2/2024 0:00			5.73
4/3/2024 0:00			8.98
4/4/2024 0:00			8.47
4/5/2024 0:00			21.2
4/6/2024 0:00			24.19
4/7/2024 0:00			8.73
4/8/2024 0:00			8.74
4/9/2024 0:00			7.33
4/10/2024 0:00			8.73
4/11/2024 0:00			10.09
4/12/2024 0:00			12.2
4/13/2024 0:00			15.47
4/14/2024 0:00			11.71
4/15/2024 0:00			19.17
4/16/2024 0:00			9.18
4/17/2024 0:00			10.85
4/18/2024 0:00			9.52
4/19/2024 0:00			8.5
4/20/2024 0:00			8.36
4/21/2024 0:00			6.08
4/22/2024 0:00			7.73
4/23/2024 0:00			12.14
4/24/2024 0:00			10.98
4/25/2024 0:00			20.15
4/26/2024 0:00			19.64
4/27/2024 0:00			22
4/28/2024 0:00			10.31
4/29/2024 0:00			9.83

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
4/30/2024 0:00			8.96
5/1/2024 0:00			13.07
5/2/2024 0:00			10.47
5/3/2024 0:00			10
5/4/2024 0:00			9.89
5/5/2024 0:00			19.02
5/6/2024 0:00			22.14
5/7/2024 0:00			16.26
5/8/2024 0:00			16.61
5/9/2024 0:00			12.48
5/10/2024 0:00			8.33
5/11/2024 0:00			12.76
5/12/2024 0:00			12.7
5/13/2024 0:00			7.9
5/14/2024 0:00			10.34
5/15/2024 0:00			10.91
5/16/2024 0:00			11.91
5/17/2024 0:00			10.69
5/18/2024 0:00			10.85
5/19/2024 0:00			14.01
5/20/2024 0:00			16.79
5/21/2024 0:00			14.79
5/22/2024 0:00			13.16
5/23/2024 0:00			13.6
5/24/2024 0:00			12.87
5/25/2024 0:00			22.81
5/26/2024 0:00			12.39
5/27/2024 0:00			10.27
5/28/2024 0:00			11.6
5/29/2024 0:00			10.35
5/30/2024 0:00			11.8
5/31/2024 0:00			8.54
6/1/2024 0:00			8.17
6/2/2024 0:00			12.5
6/3/2024 0:00			12.85
6/4/2024 0:00			12.65
6/5/2024 0:00			7.44
6/6/2024 0:00			6.73
6/7/2024 0:00			9.6
6/8/2024 0:00			9.11
6/9/2024 0:00			10.52
6/10/2024 0:00			8.98
6/11/2024 0:00			5.7
6/12/2024 0:00			9.85
6/13/2024 0:00			10.63
6/14/2024 0:00			12.54
6/15/2024 0:00			9.07
6/16/2024 0:00			11.65
6/17/2024 0:00			16.37
6/18/2024 0:00			12.69

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
6/19/2024 0:00			7.85
6/20/2024 0:00			16.5
6/21/2024 0:00			9.64
6/22/2024 0:00			11.05
6/23/2024 0:00			9.46
6/24/2024 0:00			8.17
6/25/2024 0:00			7.38
6/26/2024 0:00			10.86
6/27/2024 0:00			7.6
6/28/2024 0:00			6.77
6/29/2024 0:00			10.22
6/30/2024 0:00			10.95
7/1/2024 0:00			7.15
7/2/2024 0:00			9.21
7/3/2024 0:00			6.87
7/4/2024 0:00			7.42
7/5/2024 0:00			8.24
7/6/2024 0:00			7.71
7/7/2024 0:00			8.81
7/8/2024 0:00			8.18
7/9/2024 0:00			9.85
7/10/2024 0:00			8.68
7/11/2024 0:00			6.7
7/12/2024 0:00			7.32
7/13/2024 0:00			6.36
7/14/2024 0:00			5.94
7/15/2024 0:00			6.51
7/16/2024 0:00			8.26
7/17/2024 0:00			9.74
7/18/2024 0:00			10.24
7/19/2024 0:00			6.88
7/20/2024 0:00			9.97
7/21/2024 0:00			5.49
7/22/2024 0:00			7.64
7/23/2024 0:00			6.81
7/24/2024 0:00			5.75
7/25/2024 0:00			8.85
7/26/2024 0:00			8.18
7/27/2024 0:00			6.41
7/28/2024 0:00			7.79
7/29/2024 0:00			8.38
7/30/2024 0:00			8.86
7/31/2024 0:00			9.56
8/1/2024 0:00			7.28
8/2/2024 0:00			8.51
8/3/2024 0:00			9.21
8/4/2024 0:00			7.31
8/5/2024 0:00			7.06
8/6/2024 0:00			5.15
8/7/2024 0:00			5.08

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
8/8/2024 0:00			6.52
8/9/2024 0:00			10.36
8/10/2024 0:00			9.05
8/11/2024 0:00			6.49
8/12/2024 0:00			10.3
8/13/2024 0:00			7.89
8/14/2024 0:00			7.04
8/15/2024 0:00			5.75
8/16/2024 0:00			8.67
8/17/2024 0:00			9.07
8/18/2024 0:00			7.41
8/19/2024 0:00			6.34
8/20/2024 0:00			6.66
8/21/2024 0:00			6.66
8/22/2024 0:00			8.62
8/23/2024 0:00			8.82
8/24/2024 0:00			6.66
8/25/2024 0:00			6.2
8/26/2024 0:00			11.63
8/27/2024 0:00			7.37
8/28/2024 0:00			8.48
8/29/2024 0:00			5.34
8/30/2024 0:00			12.38
8/31/2024 0:00			6.13
9/1/2024 0:00			7.32
9/2/2024 0:00			6.67
9/3/2024 0:00			5.81
9/4/2024 0:00			5.48
9/5/2024 0:00			5.05
9/6/2024 0:00			7.56
9/7/2024 0:00			7.53
9/8/2024 0:00			6.48
9/9/2024 0:00			6.53
9/10/2024 0:00			5.2
9/11/2024 0:00			7.48
9/12/2024 0:00			11.43
9/13/2024 0:00			8.45
9/14/2024 0:00			7.15
9/15/2024 0:00			8.46
9/16/2024 0:00			9.09
9/17/2024 0:00			12.59
9/18/2024 0:00			5.84
9/19/2024 0:00			4.93
9/20/2024 0:00			12.72
9/21/2024 0:00			13.78
9/22/2024 0:00			7.69
9/23/2024 0:00			5.76
9/24/2024 0:00			5.41
9/25/2024 0:00			6.3
9/26/2024 0:00			6.55

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
9/27/2024 0:00			4.39
9/28/2024 0:00			6.52
9/29/2024 0:00			6.76
9/30/2024 0:00			6.35
10/1/2024 0:00			8.71
10/2/2024 0:00			7.33
10/3/2024 0:00			5.33
10/4/2024 0:00			6.47
10/5/2024 0:00			8.26
10/6/2024 0:00			7.59
10/7/2024 0:00			7.34
10/8/2024 0:00			5.57
10/9/2024 0:00			6.64
10/10/2024 0:00			7.41
10/11/2024 0:00			5.25
10/12/2024 0:00			6.23
10/13/2024 0:00			5.72
10/14/2024 0:00			6.85
10/15/2024 0:00			7.12
10/16/2024 0:00			9.88
10/17/2024 0:00			10.34
10/18/2024 0:00			22.59
10/19/2024 0:00			10.37
10/20/2024 0:00			9.32
10/21/2024 0:00			5.28
10/22/2024 0:00			5.55
10/23/2024 0:00			5.4
10/24/2024 0:00			8.48
10/25/2024 0:00			6.57
10/26/2024 0:00			5.31
10/27/2024 0:00			7.69
10/28/2024 0:00			13.55
10/29/2024 0:00			17.91
10/30/2024 0:00			12.29
10/31/2024 0:00			5.18
11/1/2024 0:00			5.74
11/2/2024 0:00			11.84
11/3/2024 0:00			18.03
11/3/2024 23:00			12.62
11/4/2024 23:00			7.13
11/5/2024 23:00			10.9
11/6/2024 23:00			9.52
11/7/2024 23:00			10.68
11/8/2024 23:00			5.4
11/9/2024 23:00			4.97
11/10/2024 23:00			4.46
11/11/2024 23:00			13.97
11/12/2024 23:00			7.09
11/13/2024 23:00			3.89
11/14/2024 23:00			13.9

TOA5	43263	Daily	South Stockpile Met Station
TIMESTAMP	WS_mph_Max	WS_mph_Min	553668-wind_speed_avg (contrail)
TS	miles/hour	miles/hour	miles/hour
	Max	**Min**	**Average**
11/15/2024 23:00			12.19
11/16/2024 23:00			7.8
11/17/2024 23:00			11.83
11/18/2024 23:00			8.51
11/19/2024 23:00			5.53
11/20/2024 23:00			2.97
11/21/2024 23:00			3.8
11/22/2024 23:00			7.8
11/23/2024 23:00			11.8
11/24/2024 23:00			7.1
11/25/2024 23:00			10.24
11/26/2024 23:00			12.06
11/27/2024 23:00			5.66
11/28/2024 23:00			5.32
11/29/2024 23:00			6.16
11/30/2024 23:00			3.85
12/1/2024 23:00			4.88
12/2/2024 23:00			7.13
12/3/2024 23:00			5.07
12/4/2024 23:00			8.84
12/5/2024 23:00			5.01
12/6/2024 23:00			5.16
12/7/2024 23:00			10.57
12/8/2024 23:00			12.79
12/9/2024 23:00			13.48
12/10/2024 23:00			4.18
12/11/2024 23:00			4.7
12/12/2024 23:00			15.76
12/13/2024 23:00			4.89
12/14/2024 23:00			6.4
12/15/2024 23:00			6.82
12/16/2024 23:00			6.29
12/17/2024 23:00			6.8
12/18/2024 23:00			4.5
12/19/2024 23:00			3.89
12/20/2024 23:00			3.55
12/21/2024 23:00			7.36
12/22/2024 23:00			7.31
12/23/2024 23:00			8.37
12/24/2024 23:00			16.45
12/25/2024 23:00			8.06
12/26/2024 23:00			12.97
12/27/2024 23:00			7.23
12/28/2024 23:00			8.54
12/29/2024 23:00			9.51
12/30/2024 23:00			8.72

	QuadraFroth P-100	QuadraFroth 222	Nalco 9714	Cytec 7048	7310 Promoter	Magnafloc 10 (only 2022, 2023)
	Lbs used	Lbs used	Lbs used	Lbs used	Lbs used	Lbs used
Annual Maximum (2022-2024)	3,013,465	342,647	574,777	255,482	379,706	378,035

Site Number	Sample Identifier	Sample Date	Comments	Reason for No Sample	Water Temp (Degrees C)	Water Temp (Degrees F)	Cond, Fld (micromho)	Al, Diss (mg/L)
Water Quality Standard (Prior to 12:00:00 AM)								
Water Quality Standard (Effective 12:00:00 AM)								
459-ES (Estrella Pit)	459-ES	05/18/2023				NA	NA	3,070
459-ES (Estrella Pit)	459-ES 20ft	05/24/2023				NA	NA	4,420
459-ES (Estrella Pit)	459-ES 40ft	05/24/2023				NA	NA	3,910
459-ES (Estrella Pit)	459-ES 60ft	05/24/2023				NA	NA	4,470
459-ES (Estrella Pit)	459-ES 80ft	05/24/2023				NA	NA	4,450
459-ES (Estrella Pit)	459-ES 100ft	05/24/2023				NA	NA	4,390
459-ES (Estrella Pit)	459-ES 120ft	05/24/2023				NA	NA	4,020
Maximum Concentraion								4,470

Site Number	Sample Identifier	Sample Date	Alk, CO3 (mg/L)	Alk, HCO3 (mg/L)	Alk, Tot. (mg/L)	Diesel H (ug/l)	As, Diss (mg/L)	Ca, Diss (mg/L)	Cd, Diss (mg/L)	Ethlbenz (ug/l)	Fe, Tot. (mg/L)	Cl, Tot. (mg/L)	Co, Diss (mg/L)	Cr, Diss (mg/L)	Cu, Diss (mg/L)	F, Tot. (mg/L)
Water Quality Standard (Prior to 12:00:00 AM)																
Water Quality Standard (Effective 12:00:00 AM)																
459-ES (Estrella Pit)	459-ES	05/18/2023	<1	<1	<1	NA	0.103	517	0.763	NA	544	57.3	40.7	0.603	493	44.2
459-ES (Estrella Pit)	459-ES 20ft	05/24/2023	<1	<1	<1	NA	<0.1	498	0.777	NA	3,930	74.4	34	<0.6	394	206
459-ES (Estrella Pit)	459-ES 40ft	05/24/2023	<1	<1	<1	NA	<0.1	532	0.7	NA	3,780	74.1	30.8	<0.6	382	189
459-ES (Estrella Pit)	459-ES 60ft	05/24/2023	<1	<1	<1	NA	<0.1	499	0.761	NA	3,720	74.7	33.8	<0.6	398	207
459-ES (Estrella Pit)	459-ES 80ft	05/24/2023	<1	<1	<1	NA	<0.1	488	0.795	NA	4,070	73.2	34.1	<0.6	394	206
459-ES (Estrella Pit)	459-ES 100ft	05/24/2023	<1	<1	<1	NA	<0.1	496	0.792	NA	3,840	72.6	34.2	<0.6	388	207
459-ES (Estrella Pit)	459-ES 120ft	05/24/2023	<1	<1	<1	NA	<0.1	520	0.731	NA	3,570	70.7	31.7	<0.6	381	194
Maximum Concentraion							0.103	532	0.795	0	4070	74.7	40.7	0.603	493	207

Site Number	Sample Identifier	Sample Date	Fe, Diss (mg/L)	K, Diss (mg/L)	K, Tot. (mg/L)	Kerosene (mg/L)	Mg, Diss (mg/L)	Mn, Diss (mg/L)	Na, Diss (mg/L)	Ni, Diss (mg/L)	Mg, Tot. (mg/L)	Pb, Diss (mg/L)	Mn, Tot. (mg/L)	Se, Diss (mg/L)
Water Quality Standard (Prior to 12:00:00 AM)														
Water Quality Standard (Effective 12:00:00 AM)														
459-ES (Estrella Pit)	459-ES	05/18/2023	2,600	25	3.21	NA	4,160	645	40.1	10.8	594	<0.375	92.9	<2
459-ES (Estrella Pit)	459-ES 20ft	05/24/2023	3,540	50	<25	NA	3,800	609	<50	9.16	4,030	<0.75	643	<4
459-ES (Estrella Pit)	459-ES 40ft	05/24/2023	3,250	50	<25	NA	3,400	563	<50	8.15	3,900	<0.75	621	<4
459-ES (Estrella Pit)	459-ES 60ft	05/24/2023	3,600	50	<25	NA	3,800	615	<50	9.1	3,750	<0.75	599	<4
459-ES (Estrella Pit)	459-ES 80ft	05/24/2023	3,540	50	<25	NA	3,880	610	<50	9.12	4,090	<0.75	667	<4
459-ES (Estrella Pit)	459-ES 100ft	05/24/2023	3,580	50	<25	NA	3,860	600	<50	9.13	3,840	<0.75	623	<4
459-ES (Estrella Pit)	459-ES 120ft	05/24/2023	3,350	50	<25	NA	3,600	565	<50	8.54	3,610	<0.75	582	<4
Maximum Concentraion			3600	25	0	0	4160	645	40.1	10.8	4090	0.75	0	4

Site Number	Sample Identifier	Sample Date	U, Diss (mg/L)	Zn, Diss (mg/L)	Na, Tot. (mg/L)	Naphthalene (ug/l)	Napthalene (ug/l)	Ni, Tot. (mg/L)	O-Xylene, (ug/l)	Pb, Tot. (mg/L)	pH, Lab (SU)	Se, TR (mg/L)
Water Quality Standard (Prior to 12:00:00 AM)												
Water Quality Standard (Effective 12:00:00 AM)												
459-ES (Estrella Pit)	459-ES	05/18/2023	1.63	176	8.56	NA	NA	1.47	NA	<0.0375	NA	<0.2
459-ES (Estrella Pit)	459-ES 20ft	05/24/2023	1.59	167	32.4	NA	NA	9.85	NA	<0.375	NA	<2
459-ES (Estrella Pit)	459-ES 40ft	05/24/2023	1.68	154	39.4	NA	NA	9.52	NA	<0.375	NA	<2
459-ES (Estrella Pit)	459-ES 60ft	05/24/2023	1.78	167	29.7	NA	NA	9.21	NA	<0.375	NA	<2
459-ES (Estrella Pit)	459-ES 80ft	05/24/2023	1.78	168	32.6	NA	NA	10.6	NA	<0.375	NA	<2
459-ES (Estrella Pit)	459-ES 100ft	05/24/2023	1.78	166	30.5	NA	NA	9.6	NA	<0.375	NA	<2
459-ES (Estrella Pit)	459-ES 120ft	05/24/2023	1.7	155	36.1	NA	NA	8.53	NA	<0.375	NA	<2
Maximum Concentraion			1.78	176	0	0	0	0	0	0	0	0

Site Number	Sample Identifier	Sample Date	TDS Ratio (Ratio)	TDS Calc_Field Conductivity Ratio (Ratio)	TDS, sum (mg/L)	TDS_Field Conductivity Ratio (Ratio)	Toluene (ug/l)	Hydrocarb, T (mg/L)	U Tot mg/l (mg/L)	Zn, Tot. (mg/L)	TPH, Diesel (mg/L)	TPH, Motor Oil (mg/L)
Water Quality Standard (Prior to 12:00:00 AM)												
Water Quality Standard (Effective 12:00:00 AM)												
459-ES (Estrella Pit)	459-ES	05/18/2023	NA	NA	NA	NA	NA	NA	1.71	25	NA	NA
459-ES (Estrella Pit)	459-ES 20ft	05/24/2023	NA	NA	NA	NA	NA	NA	1.6	167	NA	NA
459-ES (Estrella Pit)	459-ES 40ft	05/24/2023	NA	NA	NA	NA	NA	NA	1.48	162	NA	NA
459-ES (Estrella Pit)	459-ES 60ft	05/24/2023	NA	NA	NA	NA	NA	NA	1.66	154	NA	NA
459-ES (Estrella Pit)	459-ES 80ft	05/24/2023	NA	NA	NA	NA	NA	NA	1.64	179	NA	NA
459-ES (Estrella Pit)	459-ES 100ft	05/24/2023	NA	NA	NA	NA	NA	NA	1.6	161	NA	NA
459-ES (Estrella Pit)	459-ES 120ft	05/24/2023	NA	NA	NA	NA	NA	NA	1.63	144	NA	NA
Maximum Concentraion			0	0	0	0	0	0	0	0	0	0

Estrella Pit Lake Analytical Data		Maximum Concentration 2023			
Chemical		(mg/kg)	%	HAP[2]	TAP[3]
Aluminum	Al	4470.0	30.87%	N	Y
Arsenic	As	0.1	0.00%	Y	N
Barium	Ba	No Data	-	N	Y
Calcium	Ca	532.0	3.67%	N	N
Cadmium	Cd	0.8	0.01%	Y	Y
Chlorine	Cl	74.7	0.52%	Y	N
Cobalt	Co	40.7	0.28%	Y	Y
Chromium	Cr	0.6	0.00%	Y	Y
Copper	Cu	493.0	3.40%	N	Y
Fluorine	F	207.0	1.43%	N	Y
Iron	Fe	3600.0	24.86%	N	N
Potassium	K	25.0	0.17%	N	N
Magnesium	Mg	4160.0	28.72%	N	N
Manganese	Mn	645.0	4.45%	Y	Y
Sodium	Na	40.1	0.28%	N	N
Nickel	Ni	10.8	0.07%	Y	Y
Lead	Pb	0.8	0.01%	Y	N
Selenium	Se	4.0	0.03%	Y	Y
Uranium	U	1.8	0.01%	N	Y
Vanadium	V	No Data	-	N	N
Zinc	Zn	176.0	1.22%	N	N
	TOTAL	14,482.33	100.00%		

Chino TRI data received from Clyde Durham 1/28/11 email

Average metal content of waste rock, ore for leach, ore for milling, PLS, wastewater etc.

Waste Rock

Metal	Conc. (ppm)	Conc. (%)
Antimony	3.2	0.0003
Arsenic	3.8	0.0004
Barium	111.0	0.0111
Beryllium	NA	NA
Cadmium	1.0	0.0001
Chromium	56.9	0.0057
Cobalt	14.5	0.0015
Copper	533.3	0.0533
Lead	9.0	0.0009
Mercury	NA	NA
Manganese	440.0	0.0440
Nickel	11.0	0.0011
Selenium	NA	NA
Silver	4.0	0.0004
Thallium	NA	NA
Vanadium	37.0	0.0037
Zinc	79.0	0.0079

Ore for Mill

Metal	Conc. (ppm)	Conc. (%)
Antimony	6.7	0.0007
Arsenic	3.9	0.0004
Barium	19	0.0019
Beryllium	NA	NA
Cadmium	2.2	0.0002
Chromium	25.0	0.0025
Cobalt	20	0.0020
Copper	5900	0.5900
Lead	27	0.0027
Mercury	NA	NA
Manganese	662	0.0662
Nickel	12	0.0012
Selenium	NA	NA
Silver	0.8	0.0001
Thallium	NA	NA
Vanadium	43	0.0043
Zinc	110	0.0110

Ore for Leach

Metal	Conc. (ppm)	Conc. (%)
Antimony	4.8	0.0005
Arsenic	3.7	0.0004
Barium	68	0.0068
Beryllium	NA	NA
Cadmium	1.3	0.0001
Chromium	91.0	0.0091
Cobalt	39	0.0039
Copper	2918	0.2918
Lead	15.7	0.0016
Mercury	NA	NA
Manganese	493	0.0493
Nickel	21	0.0021
Selenium	NA	NA
Silver	0.8	0.0001
Thallium	NA	NA
Vanadium	27	0.0027
Zinc	94	0.0094

Copper Concentrate

Metal	Conc. (ppm)	Conc. (%)
Antimony	50	0.005
Arsenic	40	0.004
Barium	80	0.008
Beryllium	10	0.001
Cadmium	20	0.002
Chromium	50	0.005
Cobalt	50	0.005
Copper	250,000	25
Lead	10	0.001
Mercury	5	0.0005
Manganese	100	0.01
Nickel	50	0.005
Selenium	40	0.004
Silver	10	0.001
Thallium	5	0.0005
Vanadium	5	0.0005
Zinc	80	0.008

Moly Concentrate

Metal	Conc. (ppm)	Conc. (%)
Antimony	50	0.005
Arsenic	40	0.004
Barium	80	0.008
Beryllium	10	0.001
Cadmium	20	0.002
Chromium	50	0.005
Cobalt	50	0.005
Copper	50	0.005
Lead	10	0.001
Mercury	5	0.0005
Manganese	100	0.01
Nickel	50	0.005
Selenium	40	0.004
Silver	10	0.001
Thallium	5	0.0005
Vanadium	5	0.0005
Zinc	80	0.008

CHINO Final Data 2024

	Ag ppm	As ppm	Ba ppm	Be ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Sb ppm	Tl ppm	V ppm	Zn ppm
Waste	0.3	3.7	195.3	0.5	1.3	17.0	39.6	695.4	536.5	4.7	11.5	21.8	3.5	4.2	35.2	322.4
Leach	0.4	5.2	96.5	0.6	1.2	26.9	72.5	1954.9	233.4	5.8	15.5	13.7	4.1	8.3	24.0	181.8
Ore	0.2	3.5	202.1	1.1	0.7	31.4	33.6	4424.1	24.2	7.6	14.1	4.7	3.2	6.7	33.2	16.7

Estrella Averages

Ag ppm	As ppm	Ba ppm	Be ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Sb ppm	Tl ppm	V ppm	Zn ppm
0.3	2.5	480.5	1.0	1.4	21.9	68.0	495.2	220.7	6.3	12.3	24.2	0.9	2.7	71.3	455.3
0.80	5.63	160.00	0.75	1.58	14.60	175.25	1138.75	560.50	2.00	10.40	30.40	2.58	5.63	47.75	443.75
0.3	1	456	2	0.1	17.5	80	3560	38	3.4	9.1	6	0.1	1	74	40

Lee Hill Averages

Ag ppm	As ppm	Ba ppm	Be ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Sb ppm	Tl ppm	V ppm	Zn ppm
0.7	1.5	502.0	2.1	0.2	34.9	30.2	796.1	345.2	36.3	18.0	28.6	2.5	0.7	65.9	77.6
1.2	4.7	93.8	2.2	1.8	22.2	34.3	3206.4	2026.9	18.6	12.8	13.2	1.5	0.2	46.7	734.0

Canyon Averages

Ag ppm	As ppm	Ba ppm	Be ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Sb ppm	Tl ppm	V ppm	Zn ppm
0.3	4.1	27.1	0.2	1.4	12.0	30.9	261.1	977.8	3.8	11.8	27.5	5.0	3.2	18.8	339.7
0.7	5.0	30.0	0.5	1.0	27.3	19.0	1630.7	246.7	2.7	25.0	6.0	5.0	10.0	23.7	238.3
0.8	5.5	33.8	0.3	1.7	38.9	51.9	4201.0	1484.1	3.3	25.9	29.4	13.3	6.0	38.8	176.7

Hanover Mountain Averages

Ag ppm	As ppm	Ba ppm	Be ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Sb ppm	Tl ppm	V ppm	Zn ppm
0.2	5.0	60.0	0.5	1.0	20.0	5.0	2234.0	20.0	4.0	9.0	2.0	5.0	10.0	5.0	9.0
0.2	5.0	57.5	0.5	1.0	35.0	7.0	2510.5	16.3	8.5	18.5	3.0	5.0	10.0	8.3	5.8
0.2	5.0	55.0	0.5	1.0	39.5	6.8	4924.5	16.3	10.0	17.0	4.0	5.0	10.0	9.5	3.3

Tonnages

Estrella	**12,394,418**	**tons**
	1,869,556	**tons**
	5,921,041	**tons**
Lee Hill	**0**	**tons**
		tons
	0	
Canyon	**16,057,888**	**tons**
	132,541	**tons**
	328,523	**tons**
Hanover	**6,145,344**	**tons**
	2,823,411	**tons**
	10,224,414	**tons**
Totals	**34,597,650**	**tons**
	4,825,508	**tons**
	16,473,978	**tons**

EPA CFR References

§ 98.31 Reporting threshold.

You must report GHG emissions under this subpart if your facility contains one or more stationary fuel combustion sources and the facility meets the applicability requirements of either §§ 98.2(a)(1), 98.2(a)(2), or 98.2(a)(3).

§ 98.32 GHGs to report.

You must report CO_2, CH_4, and N_2O mass emissions from each stationary fuel combustion unit, except as otherwise indicated in this subpart.

[75 FR 79140, Dec. 17, 2010]

§ 98.33 Calculating GHG emissions.

You must calculate CO_2 emissions according to paragraph (a) of this section, and calculate CH_4 and N_2O emissions according to paragraph (c) of this section.

(a) *CO_2 emissions from fuel combustion.* Calculate CO_2 mass emissions by using one of the four calculation methodologies in paragraphs (a)(1) through (a)(4) of this section, subject to the applicable conditions, requirements, and restrictions set forth in paragraph (b) of this section. Alternatively, for units that meet the conditions of paragraph (a)(5) of this section, you may use CO_2 mass emissions calculation methods from part 75 of this chapter, as described in paragraph (a)(5) of this section. For units that combust both biomass and fossil fuels, you must calculate and report CO_2 emissions from the combustion of biomass separately using the methods in paragraph (e) of this section, except as otherwise provided in paragraphs (a)(5)(iv) and (e) of this section and in § 98.36(d).

(1) *Tier 1 Calculation Methodology.* Calculate the annual CO_2 mass emissions for each type of fuel by using Equation C–1, C–1a, or C–1b of this section (as applicable).

(i) Use Equation C–1 except when natural gas billing records are used to quantify fuel usage and gas consumption is expressed in units of therms or million Btu. In that case, use Equation C–1a or C–1b, as applicable.

$$CO_2 = 1x10^{-3} * Fuel * HHV * EF \qquad \text{(Eq. C-1)}$$

where:

CO_2 = Annual CO_2 mass emissions for the specific fuel type (metric tons).

Fuel = Mass or volume of fuel combusted per year, from company records as defined in § 98.6 (express mass in short tons for solid fuel, volume in standard cubic feet for gaseous fuel, and volume in gallons for liquid fuel).

HHV = Default high heat value of the fuel, from Table C–1 of this subpart (mmBtu per mass or mmBtu per volume, as applicable).

EF = Fuel-specific default CO_2 emission factor, from Table C–1 of this subpart (kg CO_2/mmBtu).

1×10^{-3} = Conversion factor from kilograms to metric tons.

(ii) If natural gas consumption is obtained from billing records and fuel usage is expressed in therms, use Equation C–1a.

$$CO_2 = 1x10^{-3}\left[0.1 * Gas * EF\right] \qquad \text{(Eq. C-1a)}$$

where:

CO_2 = Annual CO_2 mass emissions from natural gas combustion (metric tons).

Gas = Annual natural gas usage, from billing records (therms).

EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C–1 of this subpart (kg CO_2/mmBtu).

0.1 = Conversion factor from therms to mmBtu

1×10^{-3} = Conversion factor from kilograms to metric tons.

(iii) If natural gas consumption is obtained from billing records and fuel usage is expressed in mmBtu, use Equation C–1b.

$$CO_2 = 1 x 10^{-3} * Gas * EF \qquad \text{(Eq. C-1b)}$$

where:

CO_2 = Annual CO_2 mass emissions from natural gas combustion (metric tons).

Gas = Annual natural gas usage, from billing records (mmBtu).

EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C–1 of this subpart (kg CO_2/mmBtu).

1×10^{-3} = Conversion factor from kilograms to metric tons.

(2) *Tier 2 Calculation Methodology.* Calculate the annual CO_2 mass emissions for each type of fuel by using either Equation C2a or C2c of this section, as appropriate.

(i) Equation C–2a of this section applies to any type of fuel listed in Table C–1 of the subpart, except for municipal solid waste (MSW). For MSW combustion, use Equation C–2c of this section.

$$CO_2 = 1 x 10^{-3} * Fuel * HHV * EF \qquad \text{(Eq. C-2a)}$$

Where:

CO_2 = Annual CO_2 mass emissions for a specific fuel type (metric tons).

Fuel = Mass or volume of the fuel combusted during the year, from company records as defined in §98.6 (express mass in short tons for solid fuel, volume in standard cubic feet for gaseous fuel, and volume in gallons for liquid fuel).

HHV = Annual average high heat value of the fuel (mmBtu per mass or volume). The average HHV shall be calculated according to the requirements of paragraph (a)(2)(ii) of this section.

EF = Fuel-specific default CO_2 emission factor, from Table C–1 of this subpart (kg CO_2/mmBtu).

1×10^{-3} = Conversion factor from kilograms to metric tons.

(ii) The minimum required sampling frequency for determining the annual average HHV (*e.g.*, monthly, quarterly, semi-annually, or by lot) is specified in §98.34. The method for computing the annual average HHV is a function of unit size and how frequently you perform or receive from the fuel supplier the results of fuel sampling for HHV. The method is specified in paragraph (a)(2)(ii)(A) or (a)(2)(ii)(B) of this section, as applicable.

(A) If the results of fuel sampling are received monthly or more frequently, then for each unit with a maximum rated heat input capacity greater than or equal to 100 mmBtu/hr (or for a group of units that includes at least one unit of that size), the annual average HHV shall be calculated using Equation C–2b of this section. If multiple HHV determinations are made in any month, average the values for the month arithmetically.

$$(HHV)_{annual} = \frac{\sum_{i=1}^{n} (HHV)_i * (Fuel)_i}{\sum_{i=1}^{n} (Fuel)_i} \qquad \text{(Eq. C-2b)}$$

Where:

$(HHV)_{annual}$ = Weighted annual average high heat value of the fuel (mmBtu per mass or volume).≤

$(HHV)_I$ = Measured high heat value of the fuel, for sample period ''i'' (which may be

Where:

CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of a particular type of fuel (metric tons).

Fuel = Mass or volume of the fuel combusted, either from company records or directly measured by a fuel flow meter, as applicable (mass or volume per year).

HHV = Default high heat value of the fuel from Table C–1 of this subpart; alternatively, for Tier 3, if actual HHV data are available for the reporting year, you may average these data using the procedures specified in paragraph (a)(2)(ii) of this section, and use the average value in Equation C–8 (mmBtu per mass or volume).

EF = Fuel-specific default emission factor for CH_4 or N_2O, from Table C–2 of this subpart (kg CH_4 or N_2O per mmBtu).

1×10^{-3} = Conversion factor from kilograms to metric tons.

(i) Use Equation C–8a to calculate CH_4 and N_2O emissions when natural gas usage is obtained from gas billing records in units of therms.

$$CH_4 \text{ or } N_2O = 1 \times 10^{-3} * Fuel * 0.1 * EF \qquad \text{(Eq. C-8a)}$$

where:

CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of natural gas (metric tons).

Fuel = Annual natural gas usage, from gas billing records (therms).

EF = Fuel-specific default emission factor for CH_4 or N_2O, from Table C–2 of this subpart (kg CH_4 or N_2O per mmBtu).

0.1 = Conversion factor from therms to mmBtu

1×10^{-3} = Conversion factor from kilograms to metric tons.

(ii) Use Equation C–8b to calculate CH_4 and N_2O emissions when natural gas usage is obtained from gas billing records in units of mmBtu.

CH_4 or $N_2O = 1 \times 10^{-3} * Fuel * EF$ (Eq. C–8b)

where:

CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of natural gas (metric tons).

Fuel = Annual natural gas usage, from gas billing records (mmBtu).

EF = Fuel-specific default emission factor for CH_4 or N_2O, from Table C–2 of this subpart (kg CH_4 or N_2O per mmBtu).

1×10^{-3} = Conversion factor from kilograms to metric tons.

(2) Use Equation C–9a of this section to estimate CH_4 and N_2O emissions for any fuels for which you use the Tier 2 Equation C–2a of this section to estimate CO_2 emissions. Use the same values for fuel consumption and HHV that you use for the Tier 2 calculation.

$$CH_4 \text{ or } N_2O = 1 \text{ x } 10^{-3} * HHV * EF * Fuel \qquad \text{(Eq. C-9a)}$$

Where:

CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of a particular type of fuel (metric tons).

Fuel = Mass or volume of the fuel combusted during the reporting year.

HHV = High heat value of the fuel, averaged for all valid measurements for the reporting year (mmBtu per mass or volume).

EF = Fuel-specific default emission factor for CH_4 or N_2O, from Table C–2 of this subpart (kg CH_4 or N_2O per mmBtu).

1×10^{-3} = Conversion factor from kilograms to metric tons.

(3) Use Equation C–9b of this section to estimate CH_4 and N_2O emissions for any fuels for which you use Equation C–2c of this section to calculate the CO_2 emissions. Use the same values for steam generation and the ratio ''B'' that you use for Equation C–2c.

$$CH_4 \text{ or } N_2O = 1 \times 10^{-3} \text{ Steam} * B * EF \qquad \text{(Eq. C-9b)}$$

Where:

CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of a solid fuel (metric tons).

Steam = Total mass of steam generated by solid fuel combustion during the reporting year (lb steam).

B = Ratio of the boiler's maximum rated heat input capacity to its design rated steam output (mmBtu/lb steam).

EF = Fuel-specific emission factor for CH_4 or N_2O, from Table C–2 of this subpart (kg CH_4 or N_2O per mmBtu).

1×10^{-3} = Conversion factor from kilograms to metric tons.

(4) Use Equation C–10 of this section for: units subject to subpart D of this part; units that qualify for and elect to use the alternative CO_2 mass emissions calculation methodologies described in paragraph (a)(5) of this section; and units that use the Tier 4 Calculation Methodology.

$$CH_4 \text{ or } N_2O = 0.001 * (HI)_A * EF \qquad \text{(Eq. C-10)}$$

Where:

CH_4 or N_2O = Annual CH_4 or N_2O emissions from the combustion of a particular type of fuel (metric tons).

$(HI)_A$ = Cumulative annual heat input from combustion of the fuel (mmBtu).

EF = Fuel-specific emission factor for CH_4 or N_2O, from Table C–2 of this section (kg CH_4 or N_2O per mmBtu).

0.001 = Conversion factor from kg to metric tons.

(i) If only one type of fuel listed in Table C–2 of this subpart is combusted during the reporting year, substitute the cumulative annual heat input from combustion of the fuel into Equation C–10 of this section to calculate the annual CH_4 or N_2O emissions. For units in the Acid Rain Program and units that report heat input data to EPA year-round according to part 75 of this chapter, obtain the cumulative annual heat input directly from the electronic data reports required under §75.64 of this chapter. For Tier 4 units, use the best available information, as described in paragraph (c)(4)(ii)(C) of this section, to estimate the cumulative annual heat input $(HI)_A$.

(ii) If more than one type of fuel listed in Table C–2 of this subpart is combusted during the reporting year, use Equation C–10 of this section separately for each type of fuel, except as provided in paragraph (c)(4)(ii)(B) of this section. Determine the appropriate values of $(HI)_A$ as follows:

(A) For units in the Acid Rain Program and other units that report heat input data to EPA year-round according to part 75 of this chapter, obtain $(HI)_A$ for each type of fuel from the electronic data reports required under §75.64 of this chapter, except as otherwise provided in paragraphs (c)(4)(ii)(B) and (c)(4)(ii)(D) of this section.

(B) For a unit that uses CEMS to monitor hourly heat input according to part 75 of this chapter, the value of $(HI)_A$ obtained from the electronic data reports under §75.64 of this chapter may be attributed exclusively to the fuel with the highest F-factor, when the reporting option in 3.3.6.5 of appendix F to part 75 of this chapter is selected and implemented.

(C) For Tier 4 units, use the best available information (*e.g.*, fuel feed rate measurements, fuel heating values, engineering analysis) to estimate the value of $(HI)_A$ for each type of fuel. Instrumentation used to make these estimates is not subject to the calibration requirements of §98.3(i) or to the QA requirements of §98.34.

(D) Units in the Acid Rain Program and other units that report heat input data to EPA year-round according to part 75 of this chapter may use the best available information described in paragraph (c)(4)(ii)(C) of this section, to estimate $(HI)_A$ for each fuel type,

expressed as a decimal fraction) (Equation C–3).

(19) Annual volume of each liquid fuel combusted (gallons/year) (Equation C–4 of §98.33).

(20) Annual average carbon content of each liquid fuel (kg C per gallon of fuel) (Equation C–4).

(21) Annual volume of each gaseous fuel combusted (scf/year) (Equation C–5 of §98.33).

(22) Annual average carbon content of each gaseous fuel (kg C per kg of fuel) (Equation C–5).

(23) Annual average molecular weight of each gaseous fuel (kg/kg-mole) (Equation C–5).

(24) Molar volume conversion factor at standard conditions, as defined in §98.6 (scf per kg-mole) (Equation C–5).

(25) Identify for each fuel if you will use the default high heat value from Table C–1 of this subpart, or actual high heat value data (Equation C–8 of §98.33).

(26) High heat value of each solid fuel (mmBtu/tons) (Equation C–8).

(27) High heat value of each liquid fuel (mmBtu/gallon) (Equation C–8).

(28) High heat value of each gaseous fuel (mmBtu/scf) (Equation C–8).

(29) Cumulative annual heat input from combustion of each fuel (mmBtu) (Equation C–10 of §98.33).

(30) Total quantity of each solid fossil fuel combusted in the reporting year, as defined in §98.6 (pounds) (Equation C–13 of §98.33).

(31) Total quantity of each liquid fossil fuel combusted in the reporting year, as defined in §98.6 (gallons) (Equation C–13).

(32) Total quantity of each gaseous fossil fuel combusted in the reporting year, as defined in §98.6 (scf) (Equation C–13).

(33) High heat value of the each solid fossil fuel (Btu/lb) (Equation C–13).

(34) High heat value of the each liquid fossil fuel (Btu/gallons) (Equation C–13).

(35) High heat value of the each gaseous fossil fuel (Btu/scf) (Equation C–13).

(36) Fuel-specific carbon based F-factor per fuel (scf CO_2/mmBtu) (Equation C–13).

(37) Moisture content used to calculate the wood and wood residuals wet basis HHV (percent), if applicable (Equations C–1 and C–8 of this subpart).

[79 FR 63783, Oct. 24, 2014, as amended at 81 FR 89252, Dec. 9, 2016]

EFFECTIVE DATE NOTE: Amendments to §98.37 were published at 89 FR 31903, Apr. 25, 2024, effective Jan. 1, 2025.

§98.38 Definitions.

All terms used in this subpart have the same meaning given in the Clean Air Act and subpart A of this part.

TABLE C–1 TO SUBPART C OF PART 98—DEFAULT CO_2 EMISSION FACTORS AND HIGH HEAT VALUES FOR VARIOUS TYPES OF FUEL

DEFAULT CO_2 EMISSION FACTORS AND HIGH HEAT VALUES FOR VARIOUS TYPES OF FUEL

Fuel type	Default high heat value	Default CO_2 emission factor
Coal and coke	mmBtu/short ton	kg CO_2/mmBtu
Anthracite	25.09	103.69
Bituminous	24.93	93.28
Subbituminous	17.25	97.17
Lignite	14.21	97.72
Coal Coke	24.80	113.67
Mixed (Commercial sector)	21.39	94.27
Mixed (Industrial coking)	26.28	93.90
Mixed (Industrial sector)	22.35	94.67
Mixed (Electric Power sector)	19.73	95.52
Natural gas	mmBtu/scf	kg CO_2/mmBtu
(Weighted U.S. Average)	1.026×10^{-3}	53.06

DEFAULT CO_2 EMISSION FACTORS AND HIGH HEAT VALUES FOR VARIOUS TYPES OF FUEL—Continued

Fuel type	Default high heat value	Default CO_2 emission factor
Petroleum products—liquid	mmBtu/gallon	kg CO_2/mmBtu
Distillate Fuel Oil No. 1	0.139	73.25
Distillate Fuel Oil No. 2	0.138	73.96
Distillate Fuel Oil No. 4	0.146	75.04
Residual Fuel Oil No. 5	0.140	72.93
Residual Fuel Oil No. 6	0.150	75.10
Used Oil	0.138	74.00
Kerosene	0.135	75.20
Liquefied petroleum gases (LPG) [1]	0.092	61.71
Propane [1]	0.091	62.87
Propylene [2]	0.091	67.77
Ethane [1]	0.068	59.60
Ethanol	0.084	68.44
Ethylene [2]	0.058	65.96
Isobutane [1]	0.099	64.94
Isobutylene [1]	0.103	68.86
Butane [1]	0.103	64.77
Butylene [1]	0.105	68.72
Naphtha (<401 deg F)	0.125	68.02
Natural Gasoline	0.110	66.88
Other Oil (>401 deg F)	0.139	76.22
Pentanes Plus	0.110	70.02
Petrochemical Feedstocks	0.125	71.02
Special Naphtha	0.125	72.34
Unfinished Oils	0.139	74.54
Heavy Gas Oils	0.148	74.92
Lubricants	0.144	74.27
Motor Gasoline	0.125	70.22
Aviation Gasoline	0.120	69.25
Kerosene-Type Jet Fuel	0.135	72.22
Asphalt and Road Oil	0.158	75.36
Crude Oil	0.138	74.54
Petroleum products—solid	mmBtu/short ton	kg CO_2/mmBtu.
Petroleum Coke	30.00	102.41.
Petroleum products—gaseous	mmBtu/scf	kg CO_2/mmBtu.
Propane Gas	2.516×10^{-3}	61.46.
Other fuels—solid	mmBtu/short ton	kg CO_2/mmBtu
Municipal Solid Waste	9.95 [3]	90.7
Tires	28.00	85.97
Plastics	38.00	75.00
Other fuels—gaseous	mmBtu/scf	kg CO_2/mmBtu
Blast Furnace Gas	0.092×10^{-3}	274.32
Coke Oven Gas	0.599×10^{-3}	46.85
Fuel Gas [4]	1.388×10^{-3}	59.00
Biomass fuels—solid	mmBtu/short ton	kg CO_2/mmBtu
Wood and Wood Residuals (dry basis) [5]	17.48	93.80
Agricultural Byproducts	8.25	118.17
Peat	8.00	111.84
Solid Byproducts	10.39	105.51
Biomass fuels—gaseous	mmBtu/scf	kg CO_2/mmBtu
Landfill Gas	0.485×10^{-3}	52.07
Other Biomass Gases	0.655×10^{-3}	52.07
Biomass Fuels—Liquid	mmBtu/gallon	kg CO_2/mmBtu
Ethanol	0.084	68.44
Biodiesel (100%)	0.128	73.84
Rendered Animal Fat	0.125	71.06
Vegetable Oil	0.120	81.55

[1] The HHV for components of LPG determined at 60 °F and saturation pressure with the exception of ethylene.

[2] Ethylene HHV determined at 41 °F (5 °C) and saturation pressure.
[3] Use of this default HHV is allowed only for: (a) Units that combust MSW, do not generate steam, and are allowed to use Tier 1; (b) units that derive no more than 10 percent of their annual heat input from MSW and/or tires; and (c) small batch incinerators that combust no more than 1,000 tons of MSW per year.
[4] Reporters subject to subpart X of this part that are complying with § 98.243(d) or subpart Y of this part may only use the default HHV and the default CO_2 emission factor for fuel gas combustion under the conditions prescribed in § 98.243(d)(2)(i) and (d)(2)(ii) and § 98.252(a)(1) and (a)(2), respectively. Otherwise, reporters subject to subpart X or subpart Y shall use either Tier 3 (Equation C–5) or Tier 4.
[5] Use the following formula to calculate a wet basis HHV for use in Equation C–1: $HHV_w = ((100 - M)/100)*HHV_d$ where HHV_w = wet basis HHV, M = moisture content (percent) and HHV_d = dry basis HHV from Table C–1.

[78 FR 71950, Nov. 29, 2013, as amended at 81 FR 89252, Dec. 9, 2016]

TABLE C–2 TO SUBPART C OF PART 98—DEFAULT CH_4 AND N_2O EMISSION FACTORS FOR VARIOUS TYPES OF FUEL

Fuel type	Default CH_4 emission factor (kg CH_4/mmBtu)	Default N_2O emission factor (kg N_2O/mmBtu)
Coal and Coke (All fuel types in Table C–1)	1.1×10^{-02}	1.6×10^{-03}
Natural Gas	1.0×10^{-03}	1.0×10^{-04}
Petroleum Products (All fuel types in Table C–1)	3.0×10^{-03}	6.0×10^{-04}
Fuel Gas	3.0×10^{-03}	6.0×10^{-04}
Other Fuels—Solid	3.2×10^{-02}	4.2×10^{-03}
Blast Furnace Gas	2.2×10^{-05}	1.0×10^{-04}
Coke Oven Gas	4.8×10^{-04}	1.0×10^{-04}
Biomass Fuels—Solid (All fuel types in Table C–1, except wood and wood residuals).	3.2×10^{-02}	4.2×10^{-03}
Wood and wood residuals	7.2×10^{-03}	3.6×10^{-03}
Biomass Fuels—Gaseous (All fuel types in Table C–1)	3.2×10^{-03}	6.3×10^{-04}
Biomass Fuels—Liquid (All fuel types in Table C–1)	1.1×10^{-03}	1.1×10^{-04}

Note: Those employing this table are assumed to fall under the IPCC definitions of the "Energy Industry" or "Manufacturing Industries and Construction". In all fuels except for coal the values for these two categories are identical. For coal combustion, those who fall within the IPCC "Energy Industry" category may employ a value of 1g of CH_4/mmBtu.

[78 FR 71952, Nov. 29, 2013, as amended at 81 FR 89252, Dec. 9, 2016]

EFFECTIVE DATE NOTE: Amendments to table C–2 to subpart C of part 98 were published at 89 FR 42220, May 14, 2024, effective Jan. 1, 2025.

Subpart D—Electricity Generation

§ 98.40 Definition of the source category.

(a) The electricity generation source category comprises electricity generating units that are subject to the requirements of the Acid Rain Program and any other electricity generating units that are required to monitor and report to EPA CO_2 mass emissions year-round according to 40 CFR part 75.

(b) This source category does not include portable equipment, emergency equipment, or emergency generators, as defined in § 98.6.

[74 FR 56374, Oct. 30, 2009, as amended at 75 FR 79155, Dec. 17, 2010]

§ 98.41 Reporting threshold.

You must report GHG emissions under this subpart if your facility contains one or more electricity generating units and the facility meets the requirements of § 98.2(a)(1).

§ 98.42 GHGs to report.

(a) For each electricity generating unit that is subject to the requirements of the Acid Rain Program or is otherwise required to monitor and report to EPA CO_2 emissions year-round according to 40 CFR part 75, you must report under this subpart the annual mass emissions of CO_2, N_2O, and CH_4 by following the requirements of this subpart.

(b) For each electricity generating unit that is not subject to the Acid Rain Program or otherwise required to monitor and report to EPA CO_2 emissions year-round according to 40 CFR part 75, you must report under subpart C of this part (General Stationary Fuel Combustion Sources) the emissions of CO_2, CH_4, and N_2O by following the requirements of subpart C.

(c) For each stationary fuel combustion unit that does not generate electricity, you must report under subpart C of this part (General Stationary Fuel

Ave., NW., Mail Code: 6207J, Washington, DC 20460.

(b) For package deliveries. Director, Climate Change Division, 1310 L St, NW., Washington, DC 20005.

[74 FR 56374, Oct. 30, 2009, as amended at 76 FR 73900, Nov. 29, 2011]

TABLE A–1 TO SUBPART A OF PART 98—GLOBAL WARMING POTENTIALS

[100-Year Time Horizon]

Name	CAS No.	Chemical formula	Global warming potential (100 yr.)
Chemical-Specific GWPs			
Carbon dioxide	124–38–9	CO_2	1
Methane	74–82–8	CH_4	[a] 25
Nitrous oxide	10024–97–2	N_2O	[a] 298
Fully Fluorinated GHGs			
Sulfur hexafluoride	2551–62–4	SF_6	[a] 22,800
Trifluoromethyl sulphur pentafluoride	373–80–8	SF_5CF_3	17,700
Nitrogen trifluoride	7783–54–2	NF_3	17,200
PFC–14 (Perfluoromethane)	75–73–0	CF_4	[a] 7,390
PFC–116 (Perfluoroethane)	76–16–4	C_2F_6	[a] 12,200
PFC–218 (Perfluoropropane)	76–19–7	C_3F_8	[a] 8,830
Perfluorocyclopropane	931–91–9	C–C_3F_6	17,340
PFC–3–1–10 (Perfluorobutane)	355–25–9	C_4F_{10}	[a] 8,860
PFC–318 (Perfluorocyclobutane)	115–25–3	C–C_4F_8	[a] 10,300
PFC–4–1–12 (Perfluoropentane)	678–26–2	C_5F_{12}	[a] 9,160
PFC–5–1–14 (Perfluorohexane, FC–72)	355–42–0	C_6F_{14}	[a] 9,300
PFC–6–1–12	335–57–9	C_7F_{16}; $CF_3(CF_2)_5CF_3$	[b] 7,820
PFC–7–1–18	307–34–6	C_8F_{18}; $CF_3(CF_2)_6CF_3$	[b] 7,620
PFC–9–1–18	306–94–5	$C_{10}F_{18}$	7,500
PFPMIE (HT–70)	NA	$CF_3OCF(CF_3)CF_2OCF_2OCF_3$	10,300
Perfluorodecalin (cis)	60433–11–6	Z–$C_{10}F_{18}$	[b] 7,236
Perfluorodecalin (trans)	60433–12–7	E–$C_{10}F_{18}$	[b] 6,288
Saturated Hydrofluorocarbons (HFCs) With Two or Fewer Carbon-Hydrogen Bonds			
HFC–23	75–46–7	CHF_3	[a] 14,800
HFC–32	75–10–5	CH_2F_2	[a] 675
HFC–125	354–33–6	C_2HF_5	[a] 3,500
HFC–134	359–35–3	$C_2H_2F_4$	[a] 1,100
HFC–134a	811–97–2	CH_2FCF_3	[a] 1,430
HFC–227ca	2252–84–8	$CF_3CF_2CHF_2$	[b] 2640
HFC–227ea	431–89–0	C_3HF_7	[a] 3,220
HFC–236cb	677–56–5	$CH_2FCF_2CF_3$	1,340
HFC–236ea	431–63–0	CHF_2CHFCF_3	1,370
HFC–236fa	690–39–1	$C_3H_2F_6$	[a] 9,810
HFC–329p	375–17–7	$CHF_2CF_2CF_2CF_3$	[b] 2360
HFC–43–10mee	138495–42–8	$CF_3CFHCFHCF_2CF_3$	[a] 1,640
Saturated Hydrofluorocarbons (HFCs) With Three or More Carbon-Hydrogen Bonds			
HFC–41	593–53–3	CH_3F	[a] 92
HFC–143	430–66–0	$C_2H_3F_3$	[a] 353
HFC–143a	420–46–2	$C_2H_3F_3$	[a] 4,470
HFC–152	624–72–6	CH_2FCH_2F	53
HFC–152a	75–37–6	CH_3CHF_2	[a] 124
HFC–161	353–36–6	CH_3CH_2F	12
HFC–245ca	679–86–7	$C_3H_3F_5$	[a] 693
HFC–245cb	1814–88–6	$CF_3CF_2CH_3$	[b] 4620
HFC–245ea	24270–66–4	$CHF_2CHFCHF_2$	[b] 235
HFC–245eb	431–31–2	$CH_2FCHFCF_3$	[b] 290
HFC–245fa	460–73–1	$CHF_2CH_2CF_3$	1,030
HFC–263fb	421–07–8	$CH_3CH_2CF_3$	[b] 76
HFC–272ca	420–45–1	$CH_3CF_2CH_3$	[b] 144
HFC–365mfc	406–58–6	$CH_3CF_2CH_2CF_3$	794
Saturated Hydrofluoroethers (HFEs) and Hydrochlorofluoroethers (HCFEs) With One Carbon-Hydrogen Bond			
HFE–125	3822–68–2	CHF_2OCF_3	14,900

[100-Year Time Horizon]

Name	CAS No.	Chemical formula	Global warming potential (100 yr.)
HFE–227ea	2356–62–9	$CF_3CHFOCF_3$	1,540
HFE–329mcc2	134769–21–4	$CF_3CF_2OCF_2CHF_2$	919
HFE–329me3	428454–68–6	$CF_3CFHCF_2OCF_3$	[b] 4,550
1,1,1,2,2,3,3-Heptafluoro-3-(1,2,2,2-tetrafluoroethoxy)-propane.	3330–15–2	$CF_3CF_2CF_2OCHFCF_3$	[b] 6,490
Saturated HFEs and HCFEs With Two Carbon-Hydrogen Bonds			
HFE–134 (HG–00)	1691–17–4	CHF_2OCHF_2	6,320
HFE–236ca	32778–11–3	$CHF_2OCF_2CHF_2$	[b] 4,240
HFE–236ca12 (HG–10)	78522–47–1	$CHF_2OCF_2OCHF_2$	2,800
HFE–236ea2 (Desflurane)	57041–67–5	$CHF_2OCHFCF_3$	989
HFE–236fa	20193–67–3	$CF_3CH_2OCF_3$	487
HFE–338mcf2	156053–88–2	$CF_3CF_2OCH_2CF_3$	552
HFE–338mmz1	26103–08–2	$CHF_2OCH(CF_3)_2$	380
HFE–338pcc13 (HG–01)	188690–78–0	$CHF_2OCF_2CF_2OCHF_2$	1,500
HFE–43–10pccc (H-Galden 1040x, HG–11)	E1730133	$CHF_2OCF_2OC_2F_4OCHF_2$	1,870
HCFE–235ca2 (Enflurane)	13838–16–9	CHF_2OCF_2CHFCl	[b] 583
HCFE–235da2 (Isoflurane)	26675–46–7	$CHF_2OCHClCF_3$	350
HG–02	205367–61–9	$HF_2C-(OCF_2CF_2)_2-OCF_2H$	[b] 3,825
HG–03	173350–37–3	$HF_2C-(OCF_2CF_2)_3-OCF_2H$	[b] 3,670
HG–20	249932–25–0	$HF_2C-(OCF_2)_2-OCF_2H$	[b] 5,300
HG–21	249932–26–1	$HF_2C-OCF_2CF_2OCF_2OCF_2O-CF_2H$.	[b] 3,890
HG–30	188690–77–9	$HF_2C-(OCF_2)_3-OCF_2H$	[b] 7,330
1,1,3,3,4,4,6,6,7,7,9,9,10,10,12,12,13,13,15,15-eicosafluoro-2,5,8,11,14-Pentaoxapentadecane.	173350–38–4	$HCF_2O(CF_2CF_2O)_4CF_2H$	[b] 3,630
1,1,2-Trifluoro-2-(trifluoromethoxy)-ethane	84011–06–3	$CHF_2CHFOCF_3$	[b] 1,240
Trifluoro(fluoromethoxy)methane	2261–01–0	CH_2FOCF_3	[b] 751
Saturated HFEs and HCFEs With Three or More Carbon-Hydrogen Bonds			
HFE–143a	421–14–7	CH_3OCF_3	756
HFE–245cb2	22410–44–2	$CH_3OCF_2CF_3$	708
HFE–245fa1	84011–15–4	$CHF_2CH_2OCF_3$	286
HFE–245fa2	1885–48–9	$CHF_2OCH_2CF_3$	659
HFE–254cb2	425–88–7	$CH_3OCF_2CHF_2$	359
HFE–263fb2	460–43–5	$CF_3CH_2OCH_3$	11
HFE–263m1; R–E–143a	690–22–2	$CF_3OCH_2CH_3$	[b] 29
HFE–347mcc3 (HFE–7000)	375–03–1	$CH_3OCF_2CF_2CF_3$	575
HFE–347mcf2	171182–95–9	$CF_3CF_2OCH_2CHF_2$	374
HFE–347mmy1	22052–84–2	$CH_3OCF(CF_3)_2$	343
HFE–347mmz1 (Sevoflurane)	28523–86–6	$(CF_3)_2CHOCH_2F$	[c] 216
HFE–347pcf2	406–78–0	$CHF_2CF_2OCH_2CF_3$	580
HFE–356mec3	382–34–3	$CH_3OCF_2CHFCF_3$	101
HFE–356mff2	333–36–8	$CF_3CH_2OCH_2CF_3$	[b] 17
HFE–356mmz1	13171–18–1	$(CF_3)_2CHOCH_3$	27
HFE–356pcc3	160620–20–2	$CH_3OCF_2CF_2CHF_2$	110
HFE–356pcf2	50807–77–7	$CHF_2CH_2OCF_2CHF_2$	265
HFE–356pcf3	35042–99–0	$CHF_2OCH_2CF_2CHF_2$	502
HFE–365mcf2	22052–81–9	$CF_3CF_2OCH_2CH_3$	[b] 58
HFE–365mcf3	378–16–5	$CF_3CF_2CH_2OCH_3$	11
HFE–374pc2	512–51–6	$CH_3CH_2OCF_2CHF_2$	557
HFE–449s1 (HFE–7100) Chemical blend	163702–07–6 163702–08–7	$C_4F_9OCH_3$ $(CF_3)_2CFCF_2OCH_3$.	297
HFE–569sf2 (HFE–7200) Chemical blend	163702–05–4 163702–06–5	$C_4F_9OC_2H_5$ $(CF_3)_2CFCF_2OC_2H_5$.	59
HG'-01	73287–23–7	$CH_3OCF_2CF_2OCH_3$	[b] 222
HG'-02	485399–46–0	$CH_3O(CF_2CF_2O)_2CH_3$	[b] 236
HG'-03	485399–48–2	$CH_3O(CF_2CF_2O)_3CH_3$	[b] 221
Difluoro(methoxy)methane	359–15–9	CH_3OCHF_2	[b] 144
2-Chloro-1,1,2-trifluoro-1-methoxyethane	425–87–6	CH_3OCF_2CHFCl	[b] 122
1-Ethoxy-1,1,2,2,3,3,3-heptafluoropropane	22052–86–4	$CF_3CF_2CF_2OCH_2CH_3$	[b] 61
2-Ethoxy-3,3,4,4,5-pentafluorotetrahydro-2,5-bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-furan.	920979–28–8	$C_{12}H_5F_{19}O_2$	[b] 56
1-Ethoxy-1,1,2,3,3,3-hexafluoropropane	380–34–7	$CF_3CHFCF_2OCH_2CH_3$	[b] 23
Fluoro(methoxy)methane	460–22–0	CH_3OCH_2F	[b] 13
1,1,2,2-Tetrafluoro-3-methoxy-propane; Methyl 2,2,3,3-tetrafluoropropyl ether.	60598–17–6	$CHF_2CF_2CH_2OCH_3$	[b] 0.5
1,1,2,2-Tetrafluoro-1-(fluoromethoxy)ethane	37031–31–5	$CH_2FOCF_2CF_2H$	[b] 871

[100-Year Time Horizon]

Name	CAS No.	Chemical formula	Global warming potential (100 yr.)
Difluoro(fluoromethoxy)methane	461–63–2	CH_2FOCHF_2	[b]617
Fluoro(fluoromethoxy)methane	462–51–1	CH_2FOCH_2F	[b]130
Fluorinated Formates			
Trifluoromethyl formate	85358–65–2	$HCOOCF_3$	[b]588
Perfluoroethyl formate	313064–40–3	$HCOOCF_2CF_3$	[b]580
1,2,2,2-Tetrafluoroethyl formate	481631–19–0	$HCOOCHFCF_3$	[b]470
Perfluorobutyl formate	197218–56–7	$HCOOCF_2CF_2CF_2CF_3$	[b]392
Perfluoropropyl formate	271257–42–2	$HCOOCF_2CF_2CF_3$	[b]376
1,1,1,3,3,3-Hexafluoropropan-2-yl formate	856766–70–6	$HCOOCH(CF_3)_2$	[b]333
2,2,2-Trifluoroethyl formate	32042–38–9	$HCOOCH_2CF_3$	[b]33
3,3,3-Trifluoropropyl formate	1344118–09–7	$HCOOCH_2CH_2CF_3$	[b]17
Fluorinated Acetates			
Methyl 2,2,2-trifluoroacetate	431–47–0	CF_3COOCH_3	[b]52
1,1-Difluoroethyl 2,2,2-trifluoroacetate	1344118–13–3	$CF_3COOCF_2CH_3$	[b]31
Difluoromethyl 2,2,2-trifluoroacetate	2024–86–4	$CF_3COOCHF_2$	[b]27
2,2,2-Trifluoroethyl 2,2,2-trifluoroacetate	407–38–5	$CF_3COOCH_2CF_3$	[b]7
Methyl 2,2-difluoroacetate	433–53–4	HCF_2COOCH_3	[b]3
Perfluoroethyl acetate	343269–97–6	$CH_3COOCF_2CF_3$	[b]2.1
Trifluoromethyl acetate	74123–20–9	CH_3COOCF_3	[b]2.0
Perfluoropropyl acetate	1344118–10–0	$CH_3COOCF_2CF_2CF_3$	[b]1.8
Perfluorobutyl acetate	209597–28–4	$CH_3COOCF_2CF_2CF_2CF_3$	[b]1.6
Ethyl 2,2,2-trifluoroacetate	383–63–1	$CF_3COOCH_2CH_3$	[b]1.3
Carbonofluoridates			
Methyl carbonofluoridate	1538–06–3	$FCOOCH_3$	[b]95
1,1-Difluoroethyl carbonofluoridate	1344118–11–1	$FCOOCF_2CH_3$	[b]27
Fluorinated Alcohols Other Than Fluorotelomer Alcohols			
Bis(trifluoromethyl)-methanol	920–66–1	$(CF_3)_2CHOH$	195
(Octafluorotetramethy-lene) hydroxymethyl group	NA	$X\text{-}(CF_2)_4CH(OH)\text{-}X$	73
2,2,3,3,3-Pentafluoropropanol	422–05–9	$CF_3CF_2CH_2OH$	42
2,2,3,3,4,4,4-Heptafluorobutan-1-ol	375–01–9	C_3F_7CH2OH	[b]25
2,2,2-Trifluoroethanol	75–89–8	CF_3CH_2OH	[b]20
2,2,3,4,4,4-Hexafluoro-1-butanol	382–31–0	$CF_3CHFCF_2CH_2OH$	[b]17
2,2,3,3-Tetrafluoro-1-propanol	76–37–9	$CHF_2CF_2CH_2OH$	[b]13
2,2-Difluoroethanol	359–13–7	CHF_2CH2OH	[b]3
2-Fluoroethanol	371–62–0	CH_2FCH_2OH	[b]1.1
4,4,4-Trifluorobutan-1-ol	461–18–7	$CF_3(CH_2)_2CH_2OH$	[b]0.05
Unsaturated Perfluorocarbons (PFCs)			
PFC–1114; TFE	116–14–3	$CF_2 = CF_2$; C_2F_4	[b]0.004
PFC–1216; Dyneon HFP	116–15–4	C_3F_6; $CF_3CF = CF_2$	[b]0.05
PFC C–1418	559–40–0	$c\text{-}C_5F_8$	[b]1.97
Perfluorobut-2-ene	360–89–4	$CF_3CF = CFCF_3$	[b]1.82
Perfluorobut-1-ene	357–26–6	$CF_3CF_2CF = CF_2$	[b]0.10
Perfluorobuta-1,3-diene	685–63–2	$CF_2 = CFCF = CF_2$	[b]0.003
Unsaturated Hydrofluorocarbons (HFCs) and Hydrochlorofluorocarbons (HCFCs)			
HFC–1132a; VF2	75–38–7	$C_2H_2F_2$, $CF_2 = CH_2$	[b]0.04
HFC–1141; VF	75–02–5	C_2H_3F, $CH_2 = CHF$	[b]0.02
(E)-HFC–1225ye	5595–10–8	$CF_3CF = CHF(E)$	[b]0.06
(Z)-HFC–1225ye	5528–43–8	$CF_3CF = CHF(Z)$	[b]0.22
Solstice 1233zd(E)	102687–65–0	$C_3H_2ClF_3$; $CHCl = CHCF_3$	[b]1.34
HFC–1234yf; HFO–1234yf	754–12–1	$C_3H_2F_4$; $CF_3CF = CH_2$	[b]0.31
HFC–1234ze(E)	1645–83–6	$C_3H_2F_4$; $trans\text{-}CF_3CH = CHF$	[b]0.97
HFC–1234ze(Z)	29118–25–0	$C_3H_2F_4$; $cis\text{-}CF_3CH = CHF$; $CF_3CH = CHF$.	[b]0.29
HFC–1243zf; TFP	677–21–4	$C_3H_3F_3$, $CF_3CH = CH_2$	[b]0.12
(Z)-HFC–1336	692–49–9	$CF_3CH = CHCF_3(Z)$	[b]1.58
HFC–1345zfc	374–27–6	$C_2F_5CH = CH_2$	[b]0.09
Capstone 42–U	19430–93–4	$C_6H_3F_9$, $CF_3(CF_2)_3CH = CH_2$	[b]0.16
Capstone 62–U	25291–17–2	$C_8H_3F_{13}$, $CF_3(CF_2)_5CH = CH_2$	[b]0.11

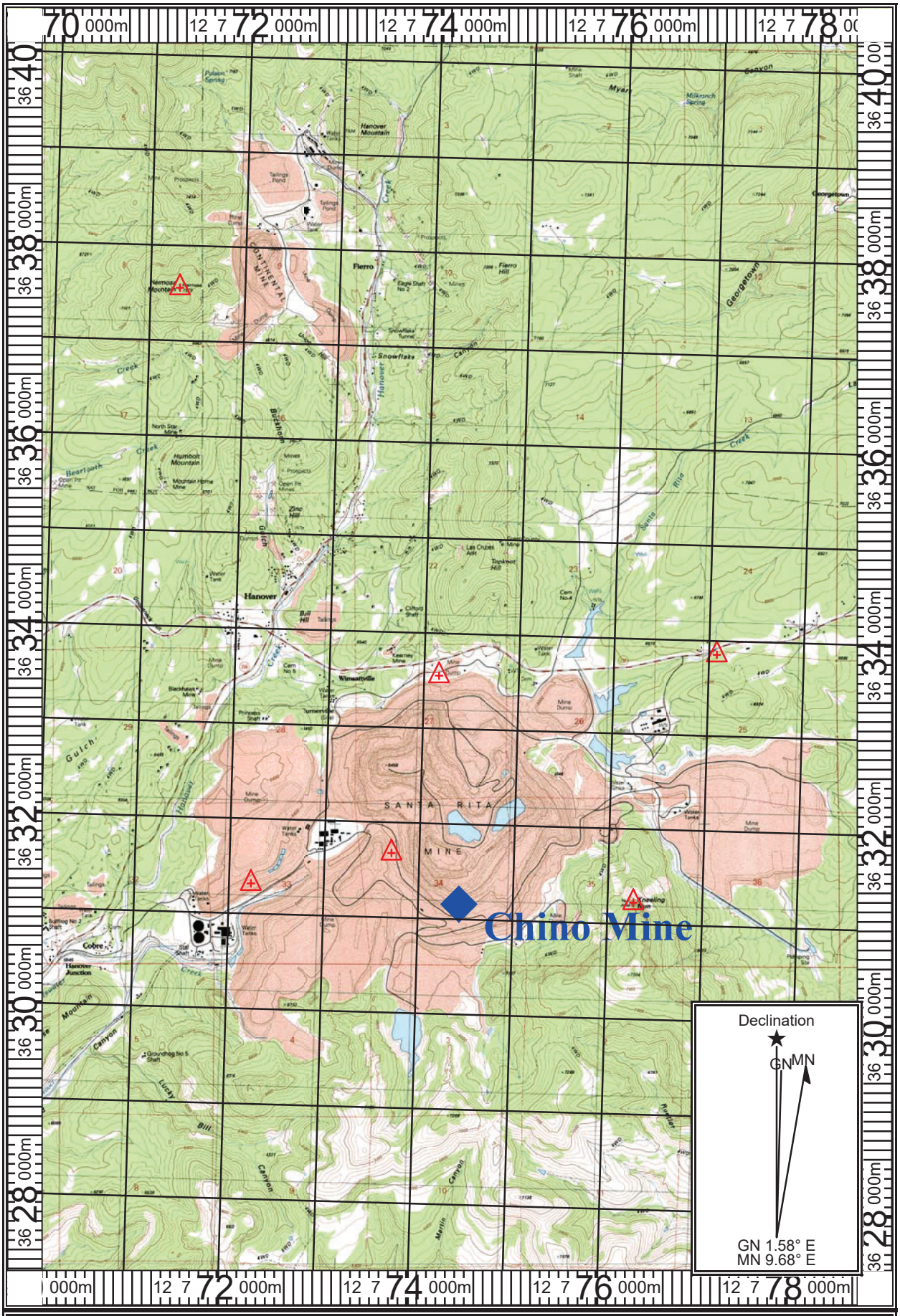
Section 8

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 of the facility is attached.



Map Name: SANTA RITA MINE
Print Date: 11/17/19

Scale: 1 inch = 4,761 ft.
Map Center: 12 0774500 E 3631100 N

Horizontal Datum: WGS84

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.

9.1: Certified Letter Receipts with Post Marks

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Figueroa Robert A Dominguez Dominique
Po Box 831
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Fletcher Willie J & Charlene & Willie Jr
Po Box 324
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Holland Esperanza
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9589 0710 5270 3778 9060 38

Sierra William T Sierra Erlinda R
903 Rogers Street
Bayard, NM 88023

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First Baptist Church Of Bayard New Mexico
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Bayard, NM 88023

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8429 7242

Flores David C & Vega Sofia
Po Box 220
Bayard, NM 88023

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3778 9061 20

Holguin Yvonne F
904 1/2 Watson Street
Bayard, NM 88023

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Crespin Selina M
713 Rogers St
Bayard, NM 88023

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Varela Jose Mauricio
Po Box 1318
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Sierra Jose M Sierra Rhonda R
Po Box 887
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Tovar Alejandro C Tovar Bernadette
306 Chino Street
Bayard, NM 88023

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Van Patten Scott D Van Patten Veronica
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Bothroyd Sterling & Drake Raven
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Bernal Louis M Bernal Mary Helen
719 Winifred Street
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Carter Ralph Jesus & Carter Marie Ethel
801 Benjamin Street
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Carrillo Robert J Carrillo Yvonne A
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7022 1670 0001 8429 5811

Blount Amanda Lea
Po Box 131
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Bencomo Teresa & Barela Ruth
Po Box 466
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Carrillo Tomas U Etal
Po Box 354
Bayard, NM 88023

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7022 1670 0001 8429 5989

Brown Michael J & Braddock Mary B
Po Box 194
Bayard, NM 88023

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7022 1670 0001 8429 5750

Black Larry David
713 Winifred St
Bayard, NM 88023-9730

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7022 1670 0001 8429 5651

Begay Nellie & Sam Jenny A
Po Box 1225
Bayard, NM 88023

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White Corey & White Crystal
Po Box 1347
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Candelaria Antonio H & Candelaria Sylvia
412 N Railroad Street
Bayard, NM 88023

for Instructions

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Villanueva Stacey G Villanueva Raul D
706 Taylor Street
Bayard, NM 88023

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Caldera Alberto Caldera Debra A
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Castaneda Benjamin
1208 Central Ave
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Torres Manuel,Sierra Maria,Mario
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Williamson Grant & Williamson Julie U/C
712 Lusk St
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Wilson Anthony & Wilson Kenneth
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Wright Sandra K
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Young Patricia V
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Willet Michael B
810 Waggoner
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Hurley, NM 88043

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Venegas Randolph E Venegas Leticia M
Po Box 52
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Triviso Jaime Emiliano Jr
302 1/2 B Street
Hurley, NM 88043

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Stratton Michael Kevin & Mcfarlane
Brenda Leigh
5 Nevada Ave
Hurley, NM 88043

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Vigil Saul & Gallegos Janelle Eden
311 Pattie Ave
Hurley, NM 88043

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Trujillo Pete C Et Al
Po Box 666
Hurley, NM 88043

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Huerta Ernesto Huerta Olga
109 C Street
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Stevens Joseph E & Stevens Nancy Jay
100 Cortez
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Gonzales Mike & Eby Anissia M Gonzales
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Goodyear Harold L & Goodyear Gerri D
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Granadino Amelia P Granadino Frank P Jr
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Graziano Patricia O
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Hines Willie S Hines K Christine
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Gonzalez Loren P Gonzalez Tammy L
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Flores Richard Romero Rosa
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Cortez Andre Saiz & Martinez Maria
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Hurley, NM 88043

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Clanton Jimmy W & Clanton Patricia
105 Nevada Ave
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Cook Richard E Cook Eva Kay
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Crow Kevin D Crow Carolyn Gale
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Short Mattysen & Deangelo Nicholas
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Day Nanette
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Short Mattysen & Deangelo Nicholas
312 Arizona St
Hurley, NM 88043

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Sedillos Manuel A & Sedillos Juanita C Et
Po Box 226
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Andazola Antonio L & Andazola Suzanne
G Et Al
422 Poplar St
Bayard, NM 88023

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Silva Gloria B & Holguin Lynette
306 Fran Dr
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Veronica L
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Jeanette
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Bayard, NM 88023

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Arellano Gary Arellano Lucille
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Butikofer Gordon
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Carrasco Sammy C Carrasco Patsy A
603 1/2 Taylor Street
Bayard, NM 88023

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Arellano Gary & Arellano Lucille
619 Lusk St
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Carbajal Jeff A Carbajal Rachel H
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404 S Railroad St
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1110 Canyon St
Bayard, NM 88023

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Po Box 1332
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Salas Ramona
Po Box 926
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Salas Lawrence V
Po Box 1152
Bayard, NM 88023

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Salas Jerry V & Salas Guadalupe Roxane
Po Box 1346
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Sanchez Avelino L
Po Box 941
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Salas Martha A & Salas Cruz J
720 Bard St
Bayard, NM 88023

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Salas Laura O
714 Bard Street
Bayard, NM 88023

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Salaiz Jose J Rodriguez Jose B C/O
Po Box 1271
Bayard, NM 88023

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Salcido Victor Manuel Salcido Sherry L
Po Box 1336
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Salas Lucille D
311 Chino St
Bayard, NM 88023

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Salas Jose M Salas Consuelo
Po Box 142
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Saenz John
Po Box 157
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Rodriguez Christopher
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Sedillos Carol
Po Box 911
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Savorillo Ynocencia & Borunda Geniveve
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Sanchez Mark A & Rosemary L
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Rodriguez Andrea
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Schenk John A
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Santa Maria Socorro, Santa Maria Joel
Bustillos & Santa Maria Steven R
Po Box 717
Bayard, NM 88023

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Sanchez Patricia S Sanchez Henry M
Po Box 1136
Bayard, NM 88023

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Sedillos Edward S & Sedillos Kathryn Y Et
Po Box 933
Bayard, NM 88023

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Sawyer Lesley G
701 Bard St
Bayard, NM 88023

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Santa Maria Lydia P Et Al
622 Mckee Street
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Santa Maria Edward P Maria Lucinda
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Rubio Jose S & Padilla Bernice C
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Rosales Cecilia R Et Al
Po Box 46
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Rogers Lester Revocable Trust
Po Box 335
Bayard, NM 88023

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Rodriguez Joe M & Rodriguez Beatrice G
Po Box 371
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Roybal Ricky & Roybal Brandi
717 Fahey St
Bayard, NM 88023

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Rosa James C Jr Rosa Melinda R
616 Fahey St
Bayard, NM 88023

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Rodriquez Stacy Gore Doyle L & Gore
Teddy H
Po Box 703
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Rosales Luis H Rosales Sylvia
Po Box 1006
Bayard, NM 88023

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Romo Eulalia & Javier & Salas Estella
711 Bard St
Bayard, NM 88023

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Rodriguez Richard, Barrios Argella
Po Box 1301
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9589 0710 5270 1699 2743 66

Pena Jose Eloy Et Al
Po Box 592
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9589 0710 5270 1699 2742 43

Pedraza Rosie R
Po Box 162
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9589 0710 5270 1699 2726 52

Tovar Dora D
504 Vencill St
Bayard, NM 88023

9589 0710 5270 1699 2744 27

Perez Johnny Perez Sylvia
112 S. Yucca St
Bayard, NM 88023

9589 0710 5270 1699 2742 98

Pena Christina M & Marquez Bernadette
717 Guinevan St
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9589 0710 5270 1699 2740 76

Pantasari Foundation
Po Box 206
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Trujillo Angela J Humble Margaret L
611 N Canyon Street
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9589 0710 5270 1699 2744 10

Perez Jesus Silva Perez Joan Munoz
Po Box 680
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9589 0710 5270 1699 2742 74

Pena Angelic R
Po Box 401
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Po Box 63
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Rios David H Et Al
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Guljas Frederick J
317 Peru St
Bayard, NM 88023

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Hales Dougan J U/C
800 Watson St
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Roberts Eddie Ray Ii
Po Box 1008
Bayard, NM 88023

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- Return Receipt (electronic) $0.00
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- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

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Castro Rudy & Eaton Summer
607 S State Street
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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

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Castillo Rodolfo L & Dolores, Monica
704 Fahey Street
Bayard, NM 88023

7022 1670 0001 8429 6559

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Tucson, AZ 85746

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

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Mora Jesus & Galindo Cristina Vizcaino
1480 W Lama Dr
Tucson, AZ 85746

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7022 1670 0001 8429 4135

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Holgoin Manuel M
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Bayard, NM 88023

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Arenas Valley, NM 88022

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
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Postage $0.78

Total Postage and Fees $6.08

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Castillo Rudy C
173 Racetrack Road
Arenas Valley, NM 88022

7022 1670 0001 8429 6573

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Santa Fe, NM 87507

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

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Castillo Martha
27736 West Frontage Road
Santa Fe, NM 87507

7022 1670 0001 8429 6542

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Santa Clara, NM 88026

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
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Castillo Israel C & Castillo Anna Liza
Po Box 1296
Santa Clara, NM 88026

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Holguin Janet M & Holguin Javier T Jr
Po Box 384
Bayard, NM 88023

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Castillo Rosemary G
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Castillo Joe R Castillo Irene
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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
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Postage $0.78

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Castillo Israel
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Holguin Javier T Jr & Holguin Janet Marie S
Po Box 384
Bayard, NM 88023

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
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Chappell Francis
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Bayard, NM 88023

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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Chavez Alfred C
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Bayard, NM 88023

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☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
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Chacon John L & Chacon Irene D
618 Taylor St
Bayard, NM 88023

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Santa Fe, NM 87507

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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
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7022 1670 0001 8429 6627

Chacon David G & Chacon Regina C
1024 Calle De Suenos
Santa Fe, NM 87507

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
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Chanez Reynaldo T Chanez Olivia
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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
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Tucumcari, NM 88401

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Cates Sydney Cates Edith
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Mimbres, NM 88049

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
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☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
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Chanez Cornelio T
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Hurley, NM 88043

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Las Cruces, NM 88005

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☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
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Catholic Diocese Of Las Cruces
1280 Medpark Drive
Las Cruces, NM 88005

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Bellingham, WA 98229

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☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
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7022 1670 0001 8429 6597

Cates Ashley & Cates Amber
4000 Flynn St. #83
Bellingham, WA 98229

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
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Postage $0.78

$6.08

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Chavez Julie Irene
715 Taylor St
Bayard, NM 88023

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- Certified Mail Restricted Delivery $0.00
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Postage $0.78

$6.08

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Chavez Isaac
Po Box 664
Hurley, NM 88043

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
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Postage $0.78

$6.08

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Chavez Gloria
Po Box 569
Bayard, NM 88023

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
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$6.08

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Chavez Arthur Altamirano
199 N Hurley Rd
Hurley, NM 88043

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

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Chavez Joseph & Marrufo Angelina
90 North Hurley Rd
Hurley, NM 88043

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

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Chavez Jesus Z Chavez Maria Elena C
105 Main St
Bayard, NM 88023

for Instructions

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

0723 5

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Chavez Erica R
Po Box 414
Bayard, NM 88023

for Instructions

7022 1670 0001 8429 6757

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Elizabeth, LA 70638

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

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Chavez Arnold M Chavez Alice R
Po Box 27
Elizabeth, LA 70638

for Instructions

7022 1670 0001 8429 6726

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

0723 5

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02/06/2026

Chavez Joseph
90 North Hurley Rd
Hurley, NM 88043

for Instructions

7022 1670 0001 8429 6801

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Hephzibah, GA 30815

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

0723 5

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02/06/2026

Chavez Isaac & Chavez Toni
104 Ridgeview Dr
Hephzibah, GA 30815

for Instructions

7022 1670 0001 8429 6788

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

0723 5

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02/06/2026

Chavez Carolina Holguin
Po Box 1191
Bayard, NM 88023

for Instructions

7022 1670 0001 8429 6740

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Hanover, NM 88041

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

0723 5

Postmark Here

02/06/2026

Chavez Andy Chavez Edelia
Po Box 355
Hanover, NM 88041

for Instructions

7022 1670 0001 8429 6719

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Hanover, NM 88041

Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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7022 1670 0001 8429 6948

Chavez Ted Loera Julie M
Po Box 292
Hanover, NM 88041

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Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0723 5
Postmark Here
FEB 06 2026
02/06/2026
USPS

7022 1670 0001 8429 6917

Chavez Ronald M & Chavez Catalina F
110 C Street
Hurley, NM 88043

for Instructions

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Hurley, NM 88043

Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0723 5
Postmark Here
FEB 06 2026
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7022 1670 0001 8429 6887

Chavez Raymond H Chavez Marie
Po Box 239
Hurley, NM 88043

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Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0723 5
Postmark Here
02/06/2026
USPS

7022 1670 0001 8429 6856

Chavez Olga V
Po Box 709
Bayard, NM 88023

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Hurley, NM 88043

Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0723 5
Postmark Here
FEB 06 2026
02/06/2026
USPS

7022 1670 0001 8429 6931

Chavez Rufina Etal
Rt 1 Box 159A
Hurley, NM 88043

for Instructions

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Hurley, NM 88043

Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Postmark Here
FEB 06 2026
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USPS

7022 1670 0001 8429 6900

Chavez Richard H Jr
14 Romero
Hurley, NM 88043

for Instructions

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Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Postmark Here
FEB 06 2026
02/06/2026
USPS

7022 1670 0001 8429 6870

Chavez Raymond & Chavez Christina
Po Box 111
Hurley, NM 88043

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Hurley, NM 88043

Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0723 5
Postmark Here
FEB 06 2026
02/06/2026
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7022 1670 0001 8429 6849

Chavez Mary Veronica
Po Box 259
Hurley, NM 88043

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Hurley, NM 88043

Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0723 5
Postmark Here
FEB 06 2026
02/06/2026
USPS

7022 1670 0001 8429 6924

Chavez Rufina A Chavez Larry A
Rr 1 Box 159-A
Hurley, NM 88043

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Silver City, NM 88061

Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0723 5
Postmark Here
FEB 06 2026
02/06/2026
USPS

7022 1670 0001 8429 6894

Chavez Richard B & Chavez Eloisa
2125 Pinon St
Silver City, NM 88061

for Instructions

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Bayard, NM 88023

Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0723 5
Postmark Here
FEB 06 2026
02/06/2026
USPS

7022 1670 0001 8429 6863

Chavez Rachel
Po Box 272
Bayard, NM 88023

for Instructions

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Hurley, NM 88043

Certified Mail Fee	$5.30
Extra Services & Fees *(check box, add fee as appropriate)*	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

0723 5
Postmark Here
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02/06/2026
USPS

7022 1670 0001 8429 6832

Chavez Manuel M
Po Box 624
Hurley, NM 88043

for Instructions

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Silver City, NM 88062

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Montenegro Sarah A & Quintana Sarah M
Po Box 546
Silver City, NM 88062

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

7022 1670 0001 8429 4036

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Bayard, NM 88023

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Montez Thomas & Montez Rosie Et Al
Po Box 834
Bayard, NM 88023

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

7022 1670 0001 8429 4081

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Hurley, NM 88043

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Montoya Luke P
212 Elguea Ave
Hurley, NM 88043

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

7022 1670 0001 8429 4104

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Gilbert, AZ 85296

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Chavira Lorraine & Martinez Peter
1519 Loren Ln
Gilbert, AZ 85296

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7022 1670 0001 8429 6779

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Hurley, NM 88043

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Montes Clyde & Montes Jennie
06 Hill St
Hurley, NM 88043

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Santa Clara, NM 88026

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Montoya Elias S & Montoya Andrea P
Po Box 389
Santa Clara, NM 88026

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

7022 1670 0001 8429 4074

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Santa Clara, NM 88026

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Montoya Patricia
Po Box 1046
Santa Clara, NM 88026

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

7022 1670 0001 8429 4111

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Santa Clara, NM 88026

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
02/06/2026

Chavira Joseph G & Sedillos Linda Q
Po Box 85
Santa Clara, NM 88026

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Silver City, NM 88061

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
02/06/2026

Montes Michelle R
435 Chukar Road
Silver City, NM 88061

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

7022 1670 0001 8429 4067

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Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Montoya Gilbert G & Montoya Ana B
Po Box 12
Hurley, NM 88043

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

7022 1670 0001 8429 4098

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Santa Clara, NM 88026

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Montoya Robert E & Montoya Lucy B
Po Box 756
Santa Clara, NM 88026

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

7022 1670 0001 8429 4128

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Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/06/2026

Chavira Edna Marie
Po Box 721
Bayard, NM 88023

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

7022 1670 0001 8429 6955

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Redding, CA 96003

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Mineral Remedial Recovery Company
Street and Apt. No., or PO Box No.
4780 Caterpillar Rd Unit C
City, State, ZIP+4®
Redding, CA 96003

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Postmark Here
FEB 06 2026
02/06/2026
USPS

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

7022 1670 0001 8429 3923

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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Misquez Ruby
Street and Apt. No., or PO Box No.
Po Box 962
City, State, ZIP+4®
Bayard, NM 88023

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USPS

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

7022 1670 0001 8429 3954

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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Molina Samuel M & Molina Mary K Et Al
Street and Apt. No., or PO Box No.
Po Box 419
City, State, ZIP+4®
Hurley, NM 88043

0723 5
Postmark Here
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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7022 1670 0001 8429 3985

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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Montez Daniel & Montez Dee Rae
Street and Apt. No., or PO Box No.
Po Box 158
City, State, ZIP+4®
Bayard, NM 88023

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Redding, CA 96003

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

To
Mining Remedial Recovery Company
Street and Apt. No., or PO Box No.
4780 Caterpillar Rd Suite C
City, State, ZIP+4®
Redding, CA 96003

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Los Angeles, CA 90018

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Molina Louis E Et Ux
Street and Apt. No., or PO Box No.
3909 Mont Clair
City, State, ZIP+4®
Los Angles, CA 90018

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Georgetown, TX 78633

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Momsen John David Special Needs Trust
Street and Apt. No., or PO Box No.
305 Palmetto Dr
City, State, ZIP+4®
Georgetown, TX 78633-5286

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Montemayor Richard
Street and Apt. No., or PO Box No.
10 Pattie Ave
City, State, ZIP+4®
Hurley, NM 88043

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

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Miranda Velia C Miranda Aurora C
Street and Apt. No., or PO Box No.
Box 506
City, State, ZIP+4®
Hurley, NM 88043

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

7022 1670 0001 8429 3947

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Fort Bayard, NM 88036

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Molano David J
Street and Apt. No., or PO Box No.
Po Box 36723
City, State, ZIP+4®
Ft Bayard, NM 88036

0723 5
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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Waipahu, HI 96797

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Montebon Hazel L & Afroilan Erwin
Street and Apt. No., or PO Box No.
94-312 Hanawai Circle
City, State, ZIP+4®
Waipahu, HI 96797

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

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Montenegro Flora A & Miranda Michele E
Street and Apt. No., or PO Box No.
Po Box 512
City, State, ZIP+4®
Hurley, NM 88043

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

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Mendoza Gabriel J
Po Box 550
Bayard, NM 88023

Street and
City, State

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

7022 1670 0001 8429 3794

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Mesa, AZ 85208

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To
Merrell Dorothy D
661 S Hawes Rd Lot #69
Mesa, AZ 85208

Street and Apt. No.
City, State

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

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Millersburg, OH 44654

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Miller Aaron Scott & Miller Angelina
46 W Jackson Street Apt B
Millersburg, OH 44654

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Miller Janice L
Box 495
Hurley, NM 88043

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Bayard, NM 88023

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Mersino Roman Christian
400 Peru St
Bayard, NM 88023

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Gilbert, AZ 85296

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To
Mesa Eloy M & Mesa Linda L
2065 E Smoke Tree Rd
Gilbert, AZ 85296

Street and Apt. No.
City, State

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Bayard, NM 88023

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Miles Maude A De La Torre Vicente Etux
Box 653
Bayard, NM 88023

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Hurley, NM 88043

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Miller Homer
211 Romero
Hurley, NM 88043

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Merino Priscilla M
642 Bard St
Bayard, NM 88023

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Novato, CA 94945

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Mikow Jolyn Irrevocable Trust
319 Holly Ave
Novato, CA 94945

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

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Miller Amanda R
Po Box 566
Bayard, NM ~~88025~~ 88023

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Nashville, TN 37221

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Miller Tami J Trust
6654 Hastings Lane
Nashville, TN 37221

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

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To Orosco Theresa Orosco Ruben B
508 N Railroad St
Bayard, NM 88023

Street and Apt. No.

City, State, ZIP+4®

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- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To Ortega Amanda & Serrano Norma
Po Box 971
Bayard, NM 88023

Street and Apt. No.

City, State, ZIP+4®

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Hurley, NM 88043

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Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To Medina Rosario T Medina Rosa T
Po Box 241
Hurley, NM 88043

Street and Apt. No.

City, State, ZIP+4®

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- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To Melendrez Elisha
Po Box 1236
Bayard, NM 88023

Street and Apt. No.

City, State, ZIP+4®

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $0.00

Postage $0.78

Total Postage and Fees $6.08

Sent To Orosco Valerie & Terrazas Maria L
Po Box 193
Hurley, NM 88043

Street and Apt. No.

City, State, ZIP+4®

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Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To Medina Eloy H
Po Box 688
Bayard, NM 88023

Street and Apt. No.

City, State, ZIP+4®

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Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To Medina Lillian Et Al
601 Orchard
Bayard, NM 88023

Street and Apt. No.

City, State, ZIP+4®

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Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To Merino Oscar R Merino Mary E
Po Box 365
Bayard, NM 88023

Street and Apt. No.

City, State, ZIP+4®

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

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Salem, CT 06420

OFFICIAL USE

Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $0.00

Postage $0.78

Total Postage and Fees $6.08

Sent To Orsini Denise G
25 Pheasant Hill Rd
Salem, CT 6420
06420

Street and Apt. No.

City, State, ZIP+4®

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

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7022 1670 0001 8429 3732

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Bayard, NM 88023

OFFICIAL USE

Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To Medina Frank G & Medina Charlotte T
602 Orchard St
Bayard, NM 88023

Street and Apt. No.

City, State, ZIP+4®

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7022 1670 0001 8429 3763

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Hurley, NM 88043

OFFICIAL USE

Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $0.00
- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $0.00

Postage $0.78

Total Postage and Fees $6.08

Sent To Medrano Mary S & Medrano Ricardo S
77A North Hurley Rd
Hurley, NM 88043

Street and Apt. No.

City, State, ZIP+4®

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- ☐ Return Receipt (electronic) $0.00
- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $0.00

Postage $0.78

Total Postage and Fees $6.08

Sent To Mendoza Esther
Box 243
Bayard, NM 88023

Street and Apt. No.

City, State, ZIP+4®

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

BAYARD NM 88023 0723 5 Postmark Here FEB 06 2026 02/06/2026 USPS

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Myers Vickie Lynne
Street: 304 Cortez Ave
City: Hurley, NM 88043

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

7022 1670 0001 8429 4456

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Waipahu, HI 96797

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Nathasingh Carol G Living Trust
Street: 94-218 Keaukaha Place
City: Waipahu, HI 96797

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

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Santa Clara, NM 88026

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Ordonez Epitacio R
Street: Po Box 41
City: Santa Clara, NM 88026

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

7022 1670 0001 8429 4678

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Silver City, NM 88061

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Ornelas Lupe C
Street: 615 Combs Circle
City: Silver City, NM 88061

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

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Namm Barry
Street: Po Box 306
City: Bayard, NM 88023-0306

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

7022 1670 0001 8429 4463

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Waipahu, HI 96797

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Nathasingh Glover
Street: 94218 Keaukaha Place
City: Waipaha, HI 96797

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

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Hurley, NM 88043

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Ordonez Aaron S And Ordonez Brandi N
Street: Po Box 899
City: Hurley, NM 88043

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

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Bayard, NM 88023

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Orosco Danny R
Street: 807 1/2 Empire Street
City: Bayard, NM 88023

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

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Natharius Jeffrey A
Street: 505 Central Ave
City: Bayard, NM 88023

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

7022 1670 0001 8429 4470

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Silver City, NM 88061

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Nations Rebecca Sue & Holland Cheryt
Street: 46 Bandoni Dr
City: Silver City, NM 88061

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

7022 1670 0001 8429 4500

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Las Cruces, NM 88001

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Moss Linda Mae Zapata Antonio
Street: 2108 S Solano Drive, Apt.26
City: Las Cruces, NM 88001

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

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Hurley, NM 88043

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To: Orosco Randy & Orosco Crysta
Street: 306 C St
City, State, ZIP+4®: Hurley, NM 88043

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

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Muniz Joe Muniz Consuelo A
Po Box 493
Hurley, NM 88043

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

7022 1670 0001 8429 4333

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Bayard, NM 88023

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Munoz David L Jr Etal
Po Box 427
Bayard, NM 88023

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

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Munoz Ramona P
Po Box 562
Bayard, NM 88023

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Murillo Lydia P
310 Vencill St
Bayard, NM 88023

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

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Muniz Robert P & Muniz Rosalinda H
Po Box 196
Bayard, NM 88023

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Munoz Donna Dolores
Po Box 837
Bayard, NM 88023

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Munoz Tina Marie Ann Campa
Po Box 1482
Bayard, NM 88023

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

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Silver City, NM 88061

Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Murillo Serena E
2317 Paul Place
Silver City, NM 88061

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

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Bayard, NM 88023

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Extra Services & Fees *(check box, add fee as appropriate)*
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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Munoz Betty
P O Box 292
Bayard, NM 88023

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

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Munoz Melissa Jean
Po Box 900
Bayard, NM 88023

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

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Hurley, NM 88043

Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Murillo Reina, Risa & Sedillo Melvin
Po Box 23
Hurley, NM 88043

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

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Hanover, NM 88041

Certified Mail Fee $5.30

Extra Services & Fees *(check box, add fee as appropriate)*
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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Murphy David & Murphy Linda U/C
15 Hermosa St
Hanover, NM 88041

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

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Hanover, NM 88041

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Moreno-Anderson Norberta & Teresa P
Street and Apt. No., or PO Box No. Po Box 67
City, State, ZIP+4® Hanover, NM 88041

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

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Morones Gilbert O Morones Julie M
Street and Apt. No., or PO Box No. 7 Mum Street
City, State, ZIP+4® Hurley, NM 88043

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

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Morris Luther D & Morris Flossie M
Street and Apt. No., or PO Box No. Po Box 770
City, State, ZIP+4® Bayard, NM 88023

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

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Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Muniz Daniel
Street and Apt. No., or PO Box No. 105 Pattie St
City, State, ZIP+4® Hurley, NM 88043

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

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Morones Carlos
Street and Apt. No., or PO Box No. 6 Santa Rita
City, State, ZIP+4® Hurley, NM 88043

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

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Morones Kathleen D
Street and Apt. No., or PO Box No. 204 B St
City, State, ZIP+4® Hurley, NM 88043-9753

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

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Arenas Valley, NM 88022

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Morrison Tyler J
Street and Apt. No., or PO Box No. 31 Race Track Rd
City, State, ZIP+4® Arenas Valley, NM 88022

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

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Dolan Springs, AZ 86441

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Mueller Anthony John
Street and Apt. No., or PO Box No. 14515 N Pierce Ferry Rd
City, State, ZIP+4® Dolan Springs, AZ 86441

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

7022 1670 0001 8429 4319

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Morones Gilbert & Morones Carlos O
Street and Apt. No., or PO Box No. 7 Mum St
City, State, ZIP+4® Hurley, NM 88043

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

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Morris Joseph W
Street and Apt. No., or PO Box No. Po Box 161
City, State, ZIP+4® Hurley, NM 88043

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

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Ruidoso Downs, NM 88346

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Morrow Michael Robert & Moreno Kathryn Marie Et Al
Street and Apt. No., or PO Box No. 113 Wright Ln Unit 4
City, State, ZIP+4® Ruidoso Downs, NM 88346

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7022 1670 0001 8429 4289

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Mesa, AZ 85215

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Sent To Mountain Gold Corporation
Street and Apt. No., or PO Box No. 3741 E Leonora St
City, State, ZIP+4® Mesa, AZ 85215

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

7022 1670 0001 8429 4302

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Las Cruces, NM 88012

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Sent To Morales Kathi Ann
Street 6827 Coyote Rd
City, St Las Cruces, NM 88012

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

BAYARD NM 88023 0723 5 FEB 06 2026 02/06/2026 USPS

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Sent To Olivarez Joseph & Olivarez Loralynn
Street 106 East Street
City, St Bayard, NM 88023

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

BAYARD NM 88023 0723 5 FEB 06 2026 02/06/2026 USPS

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Ochoa Lupe V & Villanueva Celeste N
Po Box 536
Hurley, NM 88043

for Instructions

BAYARD NM 88023 0723 5 FEB 06 2026 02/06/2026 USPS

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Sent To North Robert M North Patricia P
Street Po Box 1429
City, St Bayard, NM 88023

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

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7022 1670 0001 8429 4593

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Sierra Vista, AZ 85650

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total P $6.08

Sent To Moreno Antonio G & Moreno Lydia
Street 4332 S Santa Lucia Ave
City, St Sierra Vista, AZ 85650-9217

PS Form

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Pc
To
Morales Elizabeth E
Po Box 415
Bayard, NM 88023

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

BAYARD NM 88023 0723 5 FEB 06 2026 02/06/2026 USPS

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Sent To Ojinaga Irene
Po Box 792
Bayard, NM 88023

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

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Sent To Nunez David L Nunez Patricia T
Street Po Box 252
City, St Bayard, NM 88023

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

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Santa Teresa, NM 88008

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total P $6.08

Sent To Moreno Arthur G & Moreno Maria G
Street a 5826 Sandpiper Drive
City, Sta Santa Teresa, NM 88008

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Santa Clara, NM 88026

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Por
To
Morales Frankie J Jr Dominguez Teresita
Po Box 896
Santa Clara, NM 88026

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

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Total $6.08

Ojinaga Sylvia
Po Box 115
Bayard, NM 88023

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78

Nunez Helen Lechuga
Po Box 362
Hurley, NM 88043

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Faywood, NM 88034

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Nmvsc Fiduciary For Efrain Dominguez
Street: Hc 71 Box 1155
City, St: Faywood, NM 88034

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Polvadera, NM 87828

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08

Sent To: Nelson Trust
Street: Po Box 7
City, St: Palvadera, NM 87828

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Orlando, FL 32812

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Mcneill Paul Daniel
Street: 5283 Turnbridge Wells Ln Apt 6
City, St: Orlando, FL 32812

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

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Mcgee Michael & Mcgee Desire
Street: 103 Santa Rita Ave
City, St: Hurley, NM 88043

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

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Silver City, NM 88062

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Nolan Ashlee Danielle
Street: Po Box 3092
City, State, ZIP+4: Silver City, NM 88062

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

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Greenville, SC 29601

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: New Residential Mortgage Loan Trust
Street: 75 Beattie Place Suit Ll 202
City, State, ZIP+4: Greenville, SC 29601

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

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Medina Connie H & Medina Eloy H
Street: Box 607
City, State, ZIP+4: Bayard, NM 88023

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

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Silver City, NM 88062

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Mckee Troy D Et Al
Street: Po Box 2907
City, State, ZIP+4: Silver City, NM 88062

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

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Silver City, NM 88061

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Norero Alex J Norero Eva S
Street: 19 Welsh Street
City, State, ZIP+4: Silver City, NM 88061

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Newman Doug
Street: 401 Vencill
City, State, ZIP+4: Bayard, NM 88023

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Neal Joe
Street: Po Box 277
City, State, ZIP+4: Bayard, NM 88023

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Sent To: Mcneill Bryson
Street: 102 N Main St
City, State, ZIP+4: Bayard, NM 88023

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

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7022 1670 0001 8429 3695

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Bayard, NM 88023

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Castillo Isaac
Street 620 Taylor Street
City, State, ZIP+4® Bayard, NM 88023

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7022 1670 0001 8429 6504

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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Maynes Reynaldo R & Maynes Melissa C
Street Po Box 439
City, State, ZIP+4® Bayard, NM 88023

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

7022 1670 0001 8429 3589

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Maynes Samuel M Cabrera Jennifer A
Street 302 Nevada Ave
City, State, ZIP+4® Hurley, NM 88043

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

7022 1670 0001 8429 3602

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Hurley, NM 88043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Mccants Marvin
Street Po Box 435
City, State, ZIP+4® Hurley, NM 88043

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

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El Paso, TX 79936

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Naumann Karen A & Joyce Daniel S
Street 3184 Queens Gardens
City, State, ZIP+4® El Paso, TX 79936

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

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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Maynes Richard R Jr & Maynes Veronica P
Street Po Box 938
City, State, ZIP+4® Hurley, NM 88043

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

7022 1670 0001 8429 3596

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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Mcbride Darlene J Mcbride David J Jr
Street Po Box 1342
City, State, ZIP+4® Bayard, NM 88023

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- Adult Signature Restricted Delivery $

Postage $0.78

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Sent To Mcclain Jan
Street 4 Lea Drive
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Sent To Morales Cecilia T
Street Po Box 456
City, State, ZIP+4® Hurley, NM 88043

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Street 702 Fahey Street
City, State, ZIP+4® Bayard, NM 88023

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Street Po Box 94
City, State, ZIP+4® Hurley, NM 88043

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

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Sent To Mcdanal David F
Street 115 Santa Rita St
City, State, ZIP+4® Hurley, NM 88043

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7022 1670 0001 8429 7440

Freeman Daniel K
2291 Highway 61
San Lorenzo, NM 88061

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BAYARD NM 88023 FEB 09 2026 USPS

7022 1670 0001 8429 2247

Arnspiger Dola Jane
29 Hot Springs Canyon
San Lorenzo, NM 88041

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7021 0950 0000 7250 0956

Staats John
Po Box 2424
Silver City, NM 88062

City, State, ZIP+4®

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7021 0950 0000 7250 0994

Southwest Enterprises Vielma Nicanor Q
Po Box 5001
Silver City, NM 88062

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7022 1670 0001 8429 7563

Collie Stephen D & Moseley Susan Lee
20 Rainbow Rd
San Lorenzo, NM 88041

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7022 1670 0001 8429 5934

Tucson, AZ 85756

Brite Alton Howard Jr & Brite Deborah R
4920 E Massey Ridge Place
Tucson, AZ 85756

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9589 0710 5270 3778 9055 98

Dean James B Dean Tammy J
Po Box 1624
Silver City, NM 88062

City, State, ZIP+

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Godfrey Kim K
Po Box 2816
Silver City, NM 88062

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7021 0950 0000 7250 0925

Horvath Juliane & Castillo Pascual R
2213 Highway 61
San Lorenzo, NM 88041

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7022 1670 0001 8429 2261

Santa Clara, NM 88026

Marrufo Richard & Marrufo Melissa M
Po Box 906
Santa Clara, NM 88026

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BAYARD NM 88023 FEB 09 2026 USPS

9589 0710 5270 3778 9058 71

Dominguez Charles Daniel
Po Box 4039
Silver City, NM 88061

City, State, Z

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County Of Grant
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Silver City, NM 88062

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Cobre Property & Equity Llc
Po Box 1395
Silver City, NM 88062

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Vesely Vincent M
Po Box 869
Silver City, NM 88062

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Duran Jennifer Nicole
Po Box 2732
Silver City, NM 88061

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Haan Sarah Katherine
Po Box 2841
Silver City, NM 88062

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Foy James B & Foy Valvina A
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Silver City, NM 88062

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Silver City, NM 88062

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Terrazas Arturo
Po Box 3077
Silver City, NM 88062

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Po Box 1317
Silver City, NM 88062

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Trinkle Jeffrey & Trinkle Nancy Revocable
Po Box 798
Silver City, NM 88062

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Silver City, NM 88062

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Hawkins Beth Est
P.O. Box 2911
Silver City, NM 88061

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Britton Randal W & Britton Olivia C
Po Box 2531
Silver City, NM 88062

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Albers Christoper W
Po Box 2997
Silver City, NM 88062

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7022 1670 0001 8429 5408

Bachmaier William
Po Box 308
Silver City, NM 88062

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9589 0710 5270 1699 2739 63

Griego Ruben Lee Revocable Trust
Po Box 364
Santa Clara, NM 88026

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9589 0710 5270 1699 2698 74

Heredia John C & Heredia Carol
Po Box 68
Santa Clara, NM 88026

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7022 1670 0001 8429 5804

Blevins Rayca & Blevins Bradford Thor
Po Box 2825
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Valadez Martha Elena
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Romo Leslie
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Reyes Javier Jose
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Alvarado Eduardo Armijo
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Perez Richard I
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- ☐ Adult Signature Required $
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Street
City, State, ZIP+4®

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BAYARD NM 88023
USPS

7022 1670 0001 8428 8738

Saborio Natalia G
Po Box 216
Hurley, NM 88043

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BAYARD NM 88023
USPS

7022 1670 0001 8428 8714

Saborio Beda, Manuel P J, Louise S
Po Box 627
Hurley, NM 88043

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USPS

9589 0710 5270 1699 2744 03

Pena Rudy M
Po Box 273
Hurley, NM 88043

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USPS

7022 1670 0001 8429 1400

Abeyta Sarah S & Ray Jason Joseph
Sedillos
Po Box 468
Santa Clara, NM 88026

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BAYARD NM 88023
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9589 0710 5270 3728 9070 35

Salas Marcus A & Meraz Jacqueline
202 Romero Ave
Hurley, NM 88043

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City, State, ZIP+4®

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9589 0710 5270 1699 2744 96

Peru Manuel Peru Bertha
#4 Pop Morrison St
Hurley, NM 88043

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City, State, ZIP+4®

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BAYARD NM 88023
USPS

9589 0710 5270 1699 2743 97

Pena Miklos & Pena Betsi H
Po Box 846
Hurley, NM 88043

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- Adult Signature Required $
- Adult Signature Restricted Delivery $

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Sent To
Pena Matthew T
Street and Apt. No., or PO Box No.
204 Pattie Ave
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
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Total Postage and Fees
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Sent To
Pena Desideria, Wright Carol & Kime
Mary Ellen U/C
Street and Apt. No., or PO Box No.
170 N Hurley Rd
City, State, ZIP+4®
Hurley, NM 88043

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- Adult Signature Required $
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Postage
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Sent To
Pena Aaron & Pena Salina
Po Box 711
Street and Apt. No., or PO Box No.
Hurley, NM 88043
City, State, ZIP+4®

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- Return Receipt (electronic) $
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- Adult Signature Required $
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Postage
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Total Postage and Fees
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Sent To
Trujillo Sam & Ortiz Jessica
Po Box 233
Street and Apt. No., or PO Box No.
Hurley, NM 88043
City, State, ZIP+4®

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Postage
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Sent To
Pena Henry C
Po Box 385
Street and Apt. No., or PO Box No.
Hurley, NM 88043-0385
City, State, ZIP+4®

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Postage
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Sent To
Pena Cynthia
107 E Street
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Hurley, NM 88043
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Postage
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Total Postage and Fees
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Sent To
Pedraza Joe E Pedraza Ana L
Box 395
Street and Apt. No., or PO Box No.
Hurley, NM 88043
City, State, ZIP+4®

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Postage
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Total Postage and Fees
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Sent To
Torrez Demecio O Torrez Diane M
Po Box 4
Street and Apt. No., or PO Box No.
Hurley, NM 88043
City, State, ZIP+4®

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- Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Pena Elvira M & Pena Antonio M & Pena
Irma O
Street and Apt. No., or PO Box No.
Po Box 863
City, State, ZIP+4®
Hurley, NM 88043

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Postage
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Total Postage and Fees
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Sent To
Pena Arthur C & Pena Susie
10 Aztec Ave
Street and Apt. No., or PO Box No.
Hurley, NM 88043
City, State, ZIP+4®

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- Adult Signature Restricted Delivery $

Postage
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Sent To
Patterson Cynthia J
104 Pattie Ave
Street and Apt. No., or PO Box No.
Hurley, NM 88043
City, State, ZIP+4®

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- Adult Signature Restricted Delivery $

Postage
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Sent To
Triviso Jaime E Triviso Anna M
Po Box 681
Street and Apt. No., or PO Box No.
Hurley, NM 88043
City, State, ZIP+4®

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Trujillo Elsie
Po Box 212
Hurley, NM 88043

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- ☐ Certified Mail Restricted Delivery $
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Rodriguez Virginia V & Rodriguez Aurelio
Po Box 21
Hurley, NM 88043

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Rodriguez Susano, Ruth, John, Eugene AL
302 D St
Hurley, NM 88043

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Rodriguez Lilly P
Po Box 455
Hurley, NM 88043

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Hurley, NM 88043

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112 D Street
Hurley, NM 88043

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Rodriguez Raymond J
185 N Hurley Road
Hurley, NM 88043

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Street an
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Rodriguez Robert F Jr & Rodriguez
Christina P
3 Main St
Hurley, NM 88043

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Rodriguez Joseph Ruben
Po Box 405
Hurley, NM 88043

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City,

Rowland John J & Macintosh Isabella
Po Box 388
Hurley, NM 88043

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- ☐ Certified Mail Restricted Delivery $
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Rodriguez Raymond H & Sandra C
189 North Hurley Rd
Hurley, NM 88043

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- ☐ Certified Mail Restricted Delivery $
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Rodriguez Irene
Po Box 256
Hurley, NM 88043

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

Postage
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Total Postage and Fees
$
Sent To
Rodriguez Gina Annette Chacon
Street and Apt. No., or PO Box No.
190 North Hurley Road
City, State, ZIP+4®
Hurley, NM 88043

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
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Postage
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Total Postage and Fees
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Sent To
Rodriguez Freddie M & Rodriquez Tobias J
Street and Apt. No., or PO Box No.
207 A St
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
$
Total Postage and Fees
$
Sent To
Rodriguez Alejandro
Street and Apt. No., or PO Box No.
P.O. Box 232
City, State, ZIP+4®
Hurley, NM 88043

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

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Total Postage and Fees
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Sent To
Sedillos Danielle E
Street and Apt. No., or PO Box No.
Po Box 123
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
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Total Postage and Fees
$
Sent To
Rodriguez Gina A & Rodriguez Gary G
Street and Apt. No., or PO Box No.
190 N Hurley Rd
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
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Total Postage and Fees
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Sent To
Rodriguez Diego Chavez
Street and Apt. No., or PO Box No.
187 N Hurley Rd
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
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Total Postage and Fees
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Sent To
Roberts Phyllis
Street and Apt. No., or PO Box No.
13 Cottonwood
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
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Total Postage and Fees
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Sent To
Scruggs Carolyn D
Street and Apt. No., or PO Box No.
305 Pattie
City, State, ZIP+4®
Hurley, NM 88043

Postmark Here
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- ☐ Certified Mail Restricted Delivery $
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- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
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Sent To
Rodriguez Gilbert H & Rodriguez Irene P
Street and Apt. No., or PO Box No.
6 Pop Morrison
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
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Total Postage and Fees
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Sent To
Rodriguez Christina, Robert F Jr
Street and Apt. No., or PO Box No.
3 Main Street
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
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Total Postage and Fees
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Sent To
Roberts Janice
Street and Apt. No., or PO Box No.
303 Arizona St
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
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Total Postage and Fees
$
Sent To
Scott Kirk
Street and Apt. No., or PO Box No.
Po Box 895
City, State, ZIP+4®
Hurley, NM 88043

Postmark Here
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9589 0710 5270 3778 9053 69

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Sent To
Schryver Haley & Handley Davis
Street and
314 Pattie St
City, State, ZIP+4®
Hurley, NM 88043

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

Postage
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Sent To
Sanchez Marayna & Baca Gene Eric
Street and
213 Pattie Ave
City,
Hurley, NM 88043

BAYARD NM 88023
Postmark Here
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9589 0710 5270 3778 9070 66

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

Postage
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Total Postage
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Sent To
Salcido Christopher & Salcido Anisse
Street and
Po Box 492
City, St
Hurley, NM 88043

BAYARD NM 88023
Postmark Here
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7022 1670 0001 8429 2483

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

Postage
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Massey Jewel P Massey Bonnie B
522 C St
Hurley, NM 88043

BAYARD NM 88023
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9589 0710 5270 3778 9053 38

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

Postage
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Total
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Sent To
Schaffner Daniel N
Street and
312 Santa Rita St
City, S
Hurley, NM 88043

Postmark Here
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9589 0710 5270 3778 9071 34

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

Postage
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Total
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Sent To
Sanchez Cynthia (Cindy) M
Street and
Po Box 656
City,
Hurley, NM 88043

BAYARD NM 88023
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- Certified Mail Restricted Delivery $
- Adult Signature Required $
- Adult Signature Restricted Delivery $

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Se
54 Horseshoe Dr
Hurley, NM 88043

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

Postage
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Maynes Reynaldo C & Salas Amber J
Se
504 D Street
Hurley, NM 88043

BAYARD NM 88023
Postmark Here
FEB 09 2026
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9589 0710 5270 3778 9052 15

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $
- Return Receipt (electronic) $
- Certified Mail Restricted Delivery $
- Adult Signature Required $
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Street and
Po Box 945
City, State,
Hurley, NM 88043

BAYARD NM 88023
Postmark Here
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- Adult Signature Required $
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Salcido Raul
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Po Box 851
City, State, ZIP+4®
Hurley, NM 88043

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Mastin Sandra
Stree
Po Box 848
City,
Hurley, NM 88043

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- ☐ Adult Signature Restricted Delivery $

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Sent
Street
City,

Max Lizzy
Po Box 525
Hurley, NM 88043

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

Postage
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Sent
Street
City,

Martinez Peter G & Martinez Susie V
Po Box 164
Hurley, NM 88043

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

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Street
City, State, ZIP+4®

Tecca Zachary D & Joseph Scarlett
316 Elguea Ave
Hurley, NM 88043

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- ☐ Certified Mail Restricted Delivery $
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Sent
Street
City, State, ZIP+4®

Soliz Daniel & Angelica
Po Box 254
Hurley, NM 88043

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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
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Sent
Street
City,

Mathis Jason C
Po Box 374
Hurley, NM 88043

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Sent To
Street and
City, State,

Telles Anselmo B & Gonzales Alejandra
Po Box 224
Hurley, NM 88043

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- ☐ Certified Mail Restricted Delivery $
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Sent To
Street and
City, State, ZIP+4®

Tafoya Jose Elizalde-Tafoya Jennifer
310 D St
Hurley, NM 88043

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

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Sent To
Street and
City, State, ZIP+4®

Smith Shirley Ann
Box 235
Hurley, NM 88043

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7021 0950 0000 7250 1083

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

Postage
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Sent To
Street
City, State, ZIP+4®

Martinez-Molina Beatrice
68 A N Hurley Rd
Hurley, NM 88043

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
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Telles Elizabeth A Et Al
Po Box 81
Hurley, NM 88043

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Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
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Postage
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Total Postage and Fees
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Sent To
Street and
City, State, ZIP+4®

Stults Robert M
Po Box 234
Hurley, NM 88043

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

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Pizzuto Sal & Pizzuto Hope Mathison
Po Box 545
Hurley, NM 88043

9589 0710 5270 1699 2745 57

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Sent To
Phillips Clinton & Phillips Vallie
Po Box 604
Hurley, NM 88043

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Sent To
Silva Norma J
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Bayard, NM 88023

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Postage
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Sent To
Teague Randy
Po Box 14
Hanover, NM 88041

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City, State, ZIP+4®

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Sent To
Callaway Ralph Charles
Po Box 75
Hanover, NM 88041-0075

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Sent To
Steenport Frank Lopez & Julianne S
Po Box 482
Bayard, NM 88023

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Sent To
Sedillos Rosalina T
P O Box 112
Hanover, NM 88041

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Sent To
Huffman Rodger L & Huffman Michele K A
35 Lamp Bright Rd.
Hanover, NM 88041

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Sent To
Bagley Robert E Bagley Sandra K
Po Box 316
Hanover, NM 88041

Street and Apt. No., or PO Box No.

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- ☐ Adult Signature Restricted Delivery $

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Total Postage and Fees
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Sent To
Stailey Glen & Stailey Michelle
Po Box 885
Bayard, NM 88023

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Sent To
Sparks Twana Livette
24 T&M Dairy Rd
Hanover, NM 88041

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Sent To
Vargas Antonio
Po Box 35
Hanover, NM 88041

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Sent To
Arciero Marie E Arciero Michael B
Po Box 5
Hanover, NM 88041

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Apodaca Raquel M
Po Box 45
Hanover, NM 88041

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Borunda Albert Borunda Genvieve
Po Box 92
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Aguilera Thelma Trujillo
Po Box 15
Hanover, NM 88041

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Saxman Christopher & Macinnis Wanda L
Po Box 87
Hanover, NM 88041

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Amador Camille
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7022 1670 0001 8428 8684

Ruebush Donn Ruebush Joyce
15 Hermosa Street
Hanover, NM 88041

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9589 0710 5270 3778 9053 76

Scott Melissa Sias & Scott James Alan
Po Box 326
Hanover, NM 88041

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Breed Laura M
Po Box 54
Hanover, NM 88041

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Aguirre-Gonzales Alejandro
#15 T & M Dairy Rd
Hanover, NM 88041

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Sandoval Erminio R Sandoval Virginia
Box 123
Hanover, NM 88041

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9589 0710 5270 3778 9069 60

Rodriguez Ray & Rodriguez Sylvia M
Po Box 294
Hanover, NM 88041

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Pappas Mark S
5473 Hwy 152
Hanover, NM 88041

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Hanover Mutual Domestic Water
Association
Po Box 38
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Grijalva Rosemary
5791 Hwy 152
Hanover, NM 88041

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Grijalba William H
22 Kneeling Nun Rd
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Ramirez Lorenzo M
Po Box 1
Hanover, NM 88041

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9589 0710 5270 1699 2696 90

Gutierrez Marley
113 Fierro Rd
Hanover, NM 88041

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9589 0710 5270 1699 2728 50

Hinojosa Emilia Salaiz Kelly H
5477 Hwy 152
Hanover, NM 88041

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Finik John M
9 Cerro St
Hanover, NM 88041

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9589 0710 5270 1699 2749 77

Rascon Alfred & Rascon Betty
Po Box 51
Hanover, NM 88041

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Gulick Adam T
5805 Hwy 152
Hanover, NM 88041

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Grijalva Family Revocable Trust
5799 Hwy 152
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7022 1670 0001 8429 7129

Fierro Jamie
Po Box 373
Hanover, NM 88041

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Total Postage
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Degenevieve Karen
5407 Hwy 152
Hanover, NM 88041

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7022 1670 0001 8429 7358

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- ☐ Adult Signature Restricted Delivery $

Postage $0.78

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Martinez Paul M
Po Box 726
Hurley, NM 88043

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7022 1670 0001 8429 2438

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- ☐ Adult Signature Required $0.00
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Martinez Jerry P
306 Cortez Ave
Hurley, NM 88043

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- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

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Martinez Edward H Martinez Elisa
Po Box 904
Hurley, NM 88043

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Flores Roy C
Po Box 394
Hanover, NM 88041

7022 1670 0001 8429 7471

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Martinez Manuel V Martinez Margarita
407 D Street
Hurley, NM 88043

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Martinez Gerardo Jr Martinez Laverne R
Po Box 555
Hurley, NM 88043

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Martinez Bianca & Pena Jerry
411 Romero Ave
Hurley, NM 88043

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Driver Donald A & Driver Margaret Frances
5855 Hwy 152
Hanover, NM 88041

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Martinez Lugartha V
68A N Hurley Rd
Hurley, NM 88043

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Postage $0.78

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Martinez Fernando Martinez Mary Jane
102 E Street
Hurley, NM 88043

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Marshall James Everett Marshall Karen E
Box 542
Hurley, NM 88043

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Postage $0.78

Total $6.08

Padilla Ruth L
Po Box 425
Hurley, NM 88043

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Postage $0.78

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Padilla Espindion S & Padilla Billy A
15 Pop Morrison
Hurley, NM 88043

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- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Pack Betty L
203 Pattie Ave
Hurley, NM 88043

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7022 1670 0001 8429 4982

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- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Ortiz Cynthia
11 Elguea Ave
Hurley, NM 88043

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7022 1670 0001 8429 4814

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- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Padilla Michelle Deming
Po Box 714
Hurley, NM 88043

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- Adult Signature Restricted Delivery $

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Padilla Angelica R
P O Box 553
Hurley, NM 88043

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Postage $0.78

Total $6.08

Pack Betty L
203 Pattie Street
Hurley, NM 88043

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7022 1670 0001 8429 4975

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Martinez Jacob D
Po Box 247
Bayard, NM 88023

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Postage $0.78

Total $6.08

Padilla Jolene D
11 Romero Ave
Hurley, NM 88043

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7022 1670 0001 8429 5057

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- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Padilla Albert & Padilla Joseph
502 Linda Drive
Hurley, NM 88043

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Osvath Linda H
303 Carrasco Ave
Hurley, NM 88043

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7022 1670 0001 8429 4906

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Martinez Eric Martinez Rita
Po Box 772
Bayard, NM 88023-0772

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Marrufo Rudy P Marrufo Mary T
Street Box 147
City, Bayard, NM 88023

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

7022 1670 0001 8429 2278

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Ortiz Alfredo Jr Ortiz Rosalinda G
Street Box 603
City, Bayard, NM 88023

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7022 1670 0001 8429 4777

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Ortiz Robert Anthony
Street Po Box 723
City, Bayard, NM 88023

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7022 1670 0001 8429 4869

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Palomarez Olga
Street 39 Santa Rita Mine Rd
City, Vanadium, NM 88023

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

7022 1670 0001 8429 5170

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Pacheco Carlos & Bernice
Street Po Box 1028
City, Bayard, NM 88023

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7022 1670 0001 8429 4944

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Castillo Helen Rios
Street Po Box 506
City, Bayard, NM 88023

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

7022 1670 0001 8429 6498

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- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Martinez Anthony Dave Martinez Cynthia
Street 613 Taylor St
City, Bayard, NM 88023

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

7022 1670 0001 8429 2308

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Palomarez Manuel J & Magdalena J
Street 1009 Watson St
City, Bayard, NM 88023

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

7022 1670 0001 8429 5163

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Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Ortiz Christina & Ortiz Marguerite P
Street Po Box 822
City, Bayard, NM 88023

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

7022 1670 0001 8429 4807

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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Ad

Postage $0.78

Total $6.08

Sent To Ortega Brandon & Ortega Jessica Yvette
Street Po Box 764
City, State, ZIP+4® Bayard, NM 88023

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

7022 1670 0001 8429 4753

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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Martinez Ana Maria
Street 102 N Cactus St
City, Bayard, NM 88023

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

7022 1670 0001 8429 2292

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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Palomarez Magdalena T & Pedro T
Street 905 Waggoner St
City, Bayard, NM 88023

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

7022 1670 0001 8429 5156

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Palomarez Juan A
37 Santa Rita Mine Rd
Vanadium, NM 88023

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7022 1670 0001 8429 5132

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

Postmark Here
02/09/2026
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Padilla Mary Helen & Salas Martha Ann
Peru
716 Bard St
Bayard, NM 88023

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

7022 1670 0001 8429 5064

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Ortiz Christian D
714 Lusk Street
Bayard, NM 88023

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7022 1670 0001 8429 4791

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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Ortiz Adrian G
721 Bard Street
Bayard, NM 88023

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7022 1670 0001 8429 4760

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Palomarez Anita U Etal
37A Santa Rita Mine Rd
Vanadium, NM 88023

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7022 1670 0001 8429 5125

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Padilla David A Padilla Socorro F
421 1/2 Maple St
Bayard, NM 88023

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7022 1670 0001 8429 5019

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Ortiz Amando R & Ortiz Tanya Trujillo
620 Dayhill St
Bayard, NM 88023

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7022 1670 0001 8429 4784

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Silver City, NM 88061

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Martinez Manuel A Iii & Good Julie B
700 N Bullard St
Silver City, NM 88061

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

7022 1670 0001 8429 2414

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Bayard, NM 88023

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Paino Mary J
105 S Railroad St
Bayard, NM 88023-9676

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

7022 1670 0001 8429 5118

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Ortiz Gabriel T & Ortiz Michelle M
624 Lusk St
Bayard, NM 88023

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7022 1670 0001 8429 4821

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Bayard, NM 88023

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Ortiz Rebecca
903 Lusk St
Bayard, NM 88023

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7022 1670 0001 8429 4852

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Silver City, NM 88062

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Pander Nancy K
Po Box 486
Silver City, NM 88062

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7022 1670 0001 8429 5187

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Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Padilla Diane M
4117 W Silver St
Silver City, NM 88061
7022 1670 0001 8429 5026
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Ortiz Sandra V & Ortiz Louis C
Po Box 1595
Silver City, NM 88062
7022 1670 0001 8429 4876
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Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Palomarez Lazaro Jr
103 Azurite
Morenci, AZ 85540
7022 1670 0001 8429 5149
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Pettus, TX 78146
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Padilla Harvey L Padilla Martha
114 Fm 623 W
Pettus, TX 78146
7022 1670 0001 8429 5040
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Silver City, NM 88061
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Pacheco Raymond T Onda William A
3872 N Silver
Silver City, NM 88061
7022 1670 0001 8429 4951
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Albuquerque, NM 87109
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Martinez Joseph A
4309 San Pedro Dr. Ne Apt B-202
Albuquerque, NM 87109
7022 1670 0001 8429 2384
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Santa Ana, CA 92703
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Padilla Velma
1517 North Newhope St Space #51
Santa Ana, CA 92703
7022 1670 0001 8429 5101
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Espanola, NM 87532
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Pacheco-Lopez Michelle M
66 El Sitio Rd
Espanola, NM 87532
7022 1670 0001 8429 4968
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Silver City, NM 88061
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Ortiz James Jr Ortiz Maria D
1308 Virginia Street
Silver City, NM 88061
7022 1670 0001 8429 4838
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Medford, MA 02155
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Martinez Isaac P & Laverriere Benjamin M
962 Highland Avenue
Medford, MA 02155
7022 1670 0001 8429 2360
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Mesa, AZ 85205
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Padilla Refugia V
4812 E Hannibal Circle
Mesa, AZ 85205
7022 1670 0001 8429 5088
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Albuquerque, NM 87120
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
P&L Investments
8308 Casas Azul Ct Nw
Albuquerque, NM 87120
7022 1670 0001 8429 4937
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Las Cruces, NM 88005

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Our Lady Of Fatima Parish Inc
1280 Med Park Drive
Las Cruces, NM 88005

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7022 1670 0001 8429 4920

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Hanover, NM 88041

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Ortiz Victoria Lee
144 Galaz
San Lorenzo, NM 88041

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7022 1670 0001 8429 4890

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Tucson, AZ 85712

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Benavidez Cynthia J & Benavidez Marge
5541 East Copper Street
Tucson, AZ 85712

7022 1670 0001 8429 5675

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Duncan, AZ 85534

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Alcorta Reina & Romero Juan Jr
293 Eagle Drive
Duncan, AZ 85534

7022 1670 0001 8429 1592

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Las Cruces, NM 88005

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Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Ortiz John
3714 N Hwy 28 Trailer 4
Las Cruces, NM 88005

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7022 1670 0001 8429 4845

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Valley Center, CA 92082

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Bradbury Family Revocable Living Trust
31525 Larga Vista
Valley Center, CA 92082

7022 1670 0001 8429 5880

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Topeka, KS 66604

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Alvarado Benjamin Alvarado Teresa
1312 Sw Buchanan St
Topeka, KS 66604-2813

7022 1670 0001 8429 1714

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Santa Ana, CA 92701

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Alcarez Margaret Etal
803 Orange Street
Santa Ana, CA 92701

7022 1670 0001 8429 1585

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Orange, CA 92867

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$1.00
Postage	$0.78
Total	$6.08

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Oswalt Rick
692 N Adele St Spc 85
Orange, CA 92867-7470

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Albuquerque, NM 87107

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Blakes Lotaburger Llc
3205 Richmond Dr Ne
Albuquerque, NM 87107

7022 1670 0001 8429 5798

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Charlestown, MD 21914

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Allen William
Po Box 141
Charlestown, MD 21914

7022 1670 0001 8429 1646

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Silver City, NM 88061

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total	$6.08

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Ahlm Cody J
2104 N Juniper Ave
Silver City, NM 88061

7022 1670 0001 8429 1554

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Morenci, AZ 85540

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

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Aguirre Antonio
103 Willow St
Morenci, AZ 85540

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Litchfield Park, AZ 85340

Certified Mail Fee $5.30
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- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

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7022 1670 0001 8429 1370

1844 Cash Offer Llc
Po Box 2088
Litchfield Park, AZ 85340

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Mimbres, NM 88049

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- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

$6.08

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9589 0710 5270 1699 2696 21

Gurley Terrence & Gurley Nancy
Po Box 190
Mimbres, NM 88049

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7019 0140 0000 2667 2100

Sweeten Betty
1315 Georgia St
Silver City, NM 88061

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Phoenix, AZ 85033

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

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$6.08

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Aguilera Albert L
3646 N 69Th Ave #73
Phoenix, AZ 85033

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Greer, SC 29650

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

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7022 1670 0001 8429 1363

16 E Indian Trail Land Trust
2123 Old Spartanburg Rd, Ste 184
Greer, SC 29650

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7019 0140 0000 2667 2186

Tellez Juan G U/C
417 E 18Th Street
Silver City, NM 88061

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7021 0950 0000 7250 0918

Hould Preston & Kimberly Revocable
Trust
3600 Broken Arrow Dr
Silver City, NM 88061

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Las Cruces, NM 88012

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- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

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Abreu John G Abreu Yolanda C
3209 Neptune Dr
Las Cruces, NM 88012-7729

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Whittier, CA 90606

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

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7022 1670 0001 8429 1356

104 Cactus Llc
11725 Rincon Dr
Whittier, CA 90606

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Total P
Sent To
Street a
City, Sta

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7019 0140 0000 2667 2124

Tapscott Teddy W & Rhonda A Tapscott
Justin C & Waynette A
2361 Cottage San Road
Silver City, NM 88061

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Total Po
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9589 0710 5270 1699 2727 51

Shirey Rayburn D & Shirey Lana M
711 N Black St
Silver City, NM 88061

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- ☐ Adult Signature Restricted Delivery $

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9589 0710 5270 1699 2699 97

Sedillos Mike P Sr
503 E College Ave
Silver City, NM 88061

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9589 0710 5270 3778 9059 70

Epperson Jane H
19 Talissa Drive
Silver City, NM 88061

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Gardner Jeremy L
4510 N. Swan
Silver City, NM 88061

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Giusto Michael R
620 Apache Circle
Silver City, NM 88061

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Dominguez Albert
4828 Whispering Hills
Silver City, NM 88061

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- ☐ Adult Signature Restricted Delivery $

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9589 0710 5270 3778 9054 44

Galindo Armando & Maria Elena
340 Skyview Dr
Silver City, NM 88061

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Garcia Jeremy A
121 W Daniel Street
Silver City, NM 88061

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7022 1670 0001 8429 7754

Corliss Charlie R
9824 Hwy 180 West
Silver City, NM 88061

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9589 0710 5270 3778 9058 19

Duarte Robert & Duarte April
2401 Johnson Rd
Silver City, NM 88061

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- ☐ Adult Signature Restricted Delivery $

Postage
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9589 0710 5270 1699 2729 66

Galindo Vicki
2416 Village Drive
Silver City, NM 88061

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- ☐ Adult Signature Required $
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9589 0710 5270 1699 2732 77

Gilbert John R Jr Gilbert Kathie S
3451 Ursa Minor
Silver City, NM 88061

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7022 1670 0001 8429 7839

Cruz Alejandra
5 Realta Dr
Silver City, NM 88061

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7022 1670 0001 8429 7181

Fleming James U Jr Revocable Living
Trust
1800 Us Highway 180E
Silver City, NM 88061

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9589 0710 5270 3778 9067 62

Wilson James B Wilson Elaine J 2006 Livin
103A N Pinos Altos St
Silver City, NM 88061

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Gonzales Donald A
761 Spear Drive
Silver City, NM 88061

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Good Julie B
700 N Bullard
Silver City, NM 88061

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Flores Corrine & Flores Vivian R
1878 Hwy 180 E
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Young Cecilia (Sally) & Gonzales Annie
8 Loma Verde Dr
Silver City, NM 88061

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Hill Michael D
300 Chihuahua St
Silver City, NM 88061

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Grado Mickey F & Grado Christine
5114 Cottonwood Rd
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Welch James G U/C
4681 Ironwood Lane
Silver City, NM 88061

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7019 0140 0000 2667 2216

Teran Ray L Vigil Eva
1300 Swan
Silver City, NM 88061

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Gonzalez Martha Gonzalez Robert
Truck Bybass #56, Unit 3 #12
Silver City, NM 88061

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Grant County
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9589 0710 5270 1699 2738 95

Gray Barry G & Duran Marisela
2340 Hwy 180 E #275
Silver City, NM 88061

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Guadiana Ruben
2425 Little Walnut Rd
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9589 0710 5270 3778 9074 55

Rivera Stella & Rivera Tereso T
61 Peterson Drive
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9589 0710 5270 3778 9074 31

Rivera Emilio B Rivera Melinda
910 E 32Nd St
Silver City, NM 88061

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Gomez Elmo M
82 Shasta St
Silver City, NM 88061

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Guild Richard
2340 Highway 180 E, Pmb 234
Silver City, NM 88061

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Gutierrez Yolanda & Gutierrez Rose Ann
11674 Hwy 180 E
Silver City, NM 88061

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Rascon Toby
21 Peterson St
Silver City, NM 88061

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Holguin Raul & Holguin Lena
630 Country Club Drive
Silver City, NM 88061

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Gutierrez John L
2405 N Swathmore St
Silver City, NM 88061

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Rivera Nellie
2021 Silver St
Silver City, NM 88061

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Ramsland Edward D & Ramsland Terry A
2802 Chitalpa Ct
Silver City, NM 88061

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Pyron Brandi N & Julie A & Pyron David W
32 Cimarron Trail
Silver City, NM 88061

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Post Saundra
2340 Highway 180 East #187
Silver City, NM 88061

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Parra Bob P Garcia Jessica
4250 N Cardinal Lane
Silver City, NM 88061

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Rodriguez Ruben G
3100 Royal Drive
Silver City, NM 88061

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Placencio Rosalia L
912 Santa Rita
Silver City, NM 88061

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Trujillo Brooklyn
3736 N Fran Dr
Silver City, NM 88061

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Trujillo Terry R & Trujillo Misty A
25 Lassen St
Silver City, NM 88061

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Rodriguez Fernando & Rodriguez Miriam
8 Elder Ln
Silver City, NM 88061

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Polanco Jesus J Polanco Elva
500 Trailing Heart
Silver City, NM 88061

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Valencia Michele T
2403 Village Dr
Silver City, NM 88061

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Ruebush Arlin G Ruebush Dawn
2750 S. Tabor Dr
Silver City, NM 88061

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Mathieu Edward Raymond Mathieu
Naomi P
4005 Blackhawk Rd
Silver City, NM 88061

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7022 1670 0001 8429 2452

Martinez Rodolpho S & Martinez Carmen
2221 Ponderosa Street
Silver City, NM 88061

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Beers John Thomas
621 E Apache St
Silver City, NM 88061

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Andazola Jacob Ruben
10 Desert Rose Ln
Silver City, NM 88061

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16 Acorn Dr
Silver City, NM 88061

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7022 1670 0001 8429 5835

Bootzin James
316 Red Rock Road
Silver City, NM 88061

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

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7022 1670 0001 8429 5781

Blagg Douglas S & Blagg Karen R
78 Spring Creek Rd
Silver City, NM 88061

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7022 1670 0001 8429 2025

Anderson Ken C
812 E Pine St
Silver City, NM 88061

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- ☐ Adult Signature Restricted Delivery $

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BAYARD NM 88023 FEB 09 2026 USPS

7022 1670 0001 8429 6276

Cardoza Luis S
2101 Pinon St
Silver City, NM 88061

for Instructions

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- ☐ Adult Signature Restricted Delivery $

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7022 1670 0001 8429 1806

Alvarado Sandra A
2311 Ranch Club Rd Pmb 156
Silver City, NM 88061

for Instructions

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

Postage
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BAYARD NM 88023 FEB 09 2026 USPS

7022 1670 0001 8429 1905

Amador Jose
602 E 34Th Street
Silver City, NM 88061

for Instructions

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

Postage
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BAYARD NM 88023 FEB 09 2026 USPS

7022 1670 0001 8429 6078

Butterfield Shelly D
2004 Delk Dr
Silver City, NM 88061

for Instructions

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

Postage
$

Total Postage and Fees

Postmark Here

BAYARD NM 88023 FEB 09 2026 USPS

7022 1670 0001 8429 6283

Cardoza Luis S & Cardoza Rowena A
2101 Pinon Street
Silver City, NM 88061

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

BAYARD NM 88023
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Postmark Here
USPS

9589 0710 5270 3778 9054 37

Gahesada Llc
5 Yucca Valley
Arenas Valley, NM 88022

for Instructions

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

BAYARD NM 88023
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9589 0710 5270 1699 2738 19

Goodyear Charles & Goodyear Victoria
11837 Hwy 180 E
Areans Valley, NM 88022

for Instructions

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

BAYARD NM 88023
FEB 09 2026
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7022 1670 0001 8429 5774

Blackman Eric
11891 Hwy 180
Arenas Valley, NM 88022

for Instructions

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Espanola, NM 87532

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Certified Mail Fee $5.30
$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $ $0.00
☐ Return Receipt (electronic) $ $0.00
☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
$
Total Postage and $6.08
$
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Street and Apt. No.,
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0723
5
FEB 10 2026
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02/09/2026
USPS

9589 0710 5270 1699 2708 32

Marquez Ramon R Jr
Po Box 1612
Espanola, NM 87532

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

BAYARD NM 88023
FEB 09 2026
Postmark Here
USPS

9589 0710 5270 1699 2731 61

Garcia Trinidad P
240 Arenas Valley Road
Silver City, NM 88061

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Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
☐ Return Receipt (electronic) $
☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage
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Total Postage and Fees
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BAYARD NM 88023
FEB 09 2026
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9589 0710 5270 1699 2740 07

Grijalva Amber Lynn
161 Racetrack Rd
Arenas Valley, NM 88022

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Tucson, AZ 85739

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☐ Return Receipt (hardcopy) $ $0.00
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☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
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Total Postage and $6.08
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7022 1670 0001 8428 7373

Lucero Manuel Luis Telles Rita L
16682 N Vernon Drive
Tucson, AZ 85739

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Las Cruces, NM 88012

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Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $ $0.00
☐ Return Receipt (electronic) $ $0.00
☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
$
Total Postage and Fees
$6.08

0723
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FEB 10 2026
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02/09/2026
USPS

7021 0950 0000 7250 1441

Kirker Norma & Kirker John Joel
5608 Prairie Falcon St
Las Cruces, NM 88012

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

BAYARD NM 88023
FEB 09 2026
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7022 1670 0001 8429 1202

White Julie & Sias Alvin J
126 Arenas Valley Rd
Arenas Valley, NM 88022

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

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7022 1670 0001 8429 1837

Alvarez Dora & Alvarez Danny
10 Mira Loma Rd
Arenas Valley, NM 88022

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Cliff, NM 88028

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☐ Return Receipt (hardcopy) $ $0.00
☐ Return Receipt (electronic) $ $0.00
☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
$
Total Postag $6.08
$
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Street and A
City, State, Z

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9589 0710 5270 1699 2707 88

Manning Tracy E
Po Box 392
Cliff, NM 88028

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Phoenix, AZ 85044

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☐ Certified Mail Restricted Delivery $ $0.00
☐ Adult Signature Required $ $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
$
Total Postage and Fees
$6.08

0723
5
Postmark Here
02/09/2026

9589 0710 5270 1699 2695 15

Johnson Ray W Jr & Peggy
5007 East Shomi Street
Phoenix, AZ 85044

for Instructions

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Killeen, TX 76549

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Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
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02/09/2026
USPS

Sent To: Juarez Miguel A & Juarez Lorraine E
Street and Apt. No.: 5408 Bridgewood Dr
City, State, ZIP+4®: Killeen, TX 76549

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9589 0710 5270 0000 2667 2339

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Ravenden, AR 72459

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Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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02/09/2026
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Sent To: Lamond Alan & Lamond Alison M
Street and Apt. No.: 367 Lawrence Rd 128
City, State, ZIP+4®: Ravenden, AR 72459

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Las Cruces, NM 88005

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Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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02/09/2026

Sent To: Legarda Alfred B & Alfred C Legarda Ruth
Street and Apt. No.: 2000 Glass Rd
City, State, ZIP+4®: Las Cruces, NM 88005

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Las Vegas, NV 89110

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Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
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Sent To: Lopez Mary Michelle Jaquez
Street and Apt. No.: 6313 Judith Ann Ct
City, State, ZIP+4®: Las Vegas, NV 89110-5523

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Coppell, TX 75019

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Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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02/09/2026

Sent To: Lakeview Loan Servicing Llc
Street and Apt. No.: 8950 Cypress Waters Boulevard
City, State, ZIP+4®: Coppell, TX 75019

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Nixa, MO 66714

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Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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02/09/2026

Sent To: Boafman Diana P
Street and Apt. No.: 407 W Declan Crt
City, State, ZIP+4®: Nixa, MO 65714

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Broad Brook, CT 06016

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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02/09/2026

Sent To: Lees Glenn W
Street and Apt. No.: 58 Harrington Rd
City, State, ZIP+4®: Broad, CT 6016 06016

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

9589 0710 5270 1699 2702 52

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Mesa, AZ 85209

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
FEB 10 2026
02/09/2026

Sent To: Lopez Jose Reyes Jr Lopez Irma
Street and Apt. No.: 8440 E Meseto Circle
City, State, ZIP+4®: Mesa, AZ 85209-7312

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9589 0710 5270 0000 7250 1359

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Deridder, LA 70634

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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FEB 10 2026
02/09/2026

Sent To: Lalanne Richard E
Street and Apt. No.: 615 Bruce Stracener Rd
City, State, ZIP+4®: Deridder, LA 70634

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9589 0710 5270 0001 8428 7106

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Tucson, AZ 85719

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
FEB 10 2026
02/09/2026

Sent To: Liberty 1 Llc
Street and Apt. No.: Po Box 40130
City, State, ZIP+4®: Tucson, AZ 85719

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9589 0710 5270 1699 2703 37

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Arvada, CO 80004

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
FEB 10 2026
02/09/2026

Sent To: Terrazas Christina & Alexander Frances
Street and Apt. No.: 6300 Estes St
City, State, ZIP+4®: Arvada, CO 80004

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9589 0710 5270 1699 2705 11

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Tucson, AZ 85743

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
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02/09/2026
USPS

Sent To: Tin Cup Properties, Llc
Street and Apt. No.: 6262 N. Camino Verde
City, State, ZIP+4®: Tucson, AZ 85743

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Henderson, NV 89014

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Sent To Thompson Garry Lee Jr
Street 1350 Kelso Dunes Ave
City, State, ZIP+4® Henderson, NV 89014

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9589 0710 5270 1699 2704 43

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Tucson, AZ 85711

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Sent To Latham Lloyd G Sr Latham Pamela Rogers
Street 2117 S Irving Ave
City, State, ZIP+4® Tucson, AZ 85711

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7021 0950 0000 7250 1267

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Deming, NM 88031

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To Torres Frank
Street and Apt. No., or PO Box No. Po Box 2606
City, State, ZIP+4® Deming, NM 88031

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9589 0710 5270 1699 2705 73

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Thompsons Station, TN 37179

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To Holguin Raul F
Street and Apt. No., or PO Box No. 2643 Sporting Hill Bridge Rd
City, State, ZIP+4® Thompsons Station, TN 37179

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9589 0710 5270 3778 9063 11

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Reserve, NM 87830

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Sent To Thompson Eric
Street and Apt. No., or PO Box No. Po Box 606
City, State, ZIP+4® Reserve, NM 87830

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9589 0710 5270 1699 2704 36

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Tucson, AZ 85743

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Sent To Lashley John R & Lashley Dawn Lee
Street 6262 N Camino Verde
City, State, ZIP+4® Tucson, AZ 85743

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

7021 0950 0000 7250 1274

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Las Cruces, NM 88005

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Holguin Nora & Benavidez Belinda
1294 Oneda Dr
Las Cruces, NM 88005

9589 0710 5270

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Seward, AK 99664

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Burnard Russell J & Headtke Jennifer E Trust
Po Box 2746
Seward, AK 99664

7022 1670 0001 8429 6016

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Las Cruces, NM 88007

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Sent To Lawrence David
Street and Apt. No., or PO Box No. 2525 N Valley Dr
City, State, ZIP+4® Las Cruces, NM 88007

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

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Deming, NM 88030

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Sent To Lara Joe P
Street and Apt. No., or PO Box No. 319 S Mesa St
City, State, ZIP+4® Deming, NM 88030

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

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El Paso, TX 79936

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Holguin Carmen G Holguin Beatriz Adriana
11050 Montana Ave Apt 9101
El Paso, TX 79936

9589 0710 5270 1699 2729 11

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Dona Ana, NM 88032

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08

Cabreon-Altamirano Rosalinda & Raul Jr
Po Box 245
Dona Ana, NM 88032

7022 1670 0001 8429 6368

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Las Cruces, NM 88007

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Holguin Arcilia
122 Roe Deer Ct
Las Cruces, NM 88007

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Prescott, AZ 86301

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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7022 1670 0001 8429 5439

Baldwin Katherine Ann & Baldwin Jeffery John
4618 Praire Trail
Prescott, AZ 86301

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San Jose, CA 95120

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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7022 1670 0001 8429 5491

Barrall George & Barrall Pamela S
6952 Grandwood Way
San Jose, CA 95120

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Deming, NM 88030

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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7022 1670 0001 8429 6245

Carbajal Ernesto
8370 Needless Eye Rd Se
Deming, NM 88030

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Las Cruces, NM 88007

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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9589 0710 5270 1699 2734 44

Gomez Mauro A
2705 W Hadley Ave
Las Cruces, NM 88007

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Tucson, AZ 85751

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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7022 1670 0001 8429 5446

Barela Benjamin J & Barela Marta R
7921 N Patrick Henry Pl
Tucson, AZ 85751

85741

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Animas, NM 88020

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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USPS

7022 1670 0001 8429 5583

Baske Delbert M Baske Marlene G
34 Patagonia Ln
Animas, NM 88020

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Las Cruces, NM 88001

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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7022 1670 0001 8429 6252

Carbajal Frank Carbajal Alvino C/O
1304 Boston
Las Cruces, NM 88001

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Las Cruces, NM 88012

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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7022 1670 0001 8429 5354

Baca Eddie J Jr
4597 Rimrock Court
Las Cruces, NM 88012

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Rio Rancho, NM 87124

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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7022 1670 0001 8429 5453

Barela Stella M
992 Ivory Road Se
Rio Rancho, NM 87124

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Pinetop, AZ 85935

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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7022 1670 0001 8429 5552

Barrow Peggy Clydeon Etal
Po Box 501
Pinetop, AZ 85935

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Columbus, NM 88029

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$ $0.00
☐ Return Receipt (electronic)	$ $0.00
☐ Certified Mail Restricted Delivery	$ $0.00
☐ Adult Signature Required	$ $0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Carreon Graciela
Po Box 1334
Columbus, NM 88029

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Albuquerque, NM 87105

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Vargas Balbine P Estate
5710 Avalon Rd Nw, Bldg C, Apt. 301
Albuquerque, NM 87105

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Green Valley, AZ 85614

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Vance Enrique & Vance Hilda
1390 N La Canoa
Green Valley, AZ 85614

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Tonto Basin, AZ 85553

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Eby Larry & Eby Rose Ann
Po Box 305
Tonto Basin, AZ 85553

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Waipahu, HI 96797

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Luab Pia
94-312 Hanqwai Circ
Waipahu, HI 96797

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Santa Teresa, NM 88008

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Vela Yrau
120 Apache Brave St
Santa Teresa, NM 88008

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Surprise, AZ 85374

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Villegas Reynaldo Villegas Sylvia
13825 N Cottonwood St
Surprise, AZ 85374

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Las Cruces, NM 88012

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Marquez Erminia D
6875 Coyote Rd
Las Cruces, NM 88012

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Safford, AZ 85546

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Lozano Miguel, Hector C & Rachel O
8525 S Thunderbird
Safford, AZ 85546

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7022 1670 0001 8428 7335

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Phoenix, AZ 85051

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Vick Betty M & Jennings S Iii & Lanny J
3333 Orchid Lane
Phoenix, AZ 85051

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9589 0710 5270 3778 9076 53

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

Hana, HI 96713

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Hurtado Ramon A
Hc 136 Haha Hwy
Hana, HI 96713

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

9589 0710 5270 3778 9064 72

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Las Vegas, NM 87701

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Lopez Salvador Q
Hc 31 Box 4
Las Vegas, NM 87701

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7022 1670 0001 8428 7267

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Many, LA 71449

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

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Dusablon Paul R Jr & Dusablon Paul Ii
99 Mulbery Drive
Many, LA 71449

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9589 0710 5270 3778 9063 73

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Paramount, CA 90723

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Esparza Ernesto T Et Al
7130 Cortland Ave
Paramount, CA 90723

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Belen, NM 87002

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Silva Olga Lorraine Revocable Trust
431 Calle Del Sol
Rio Communities, NM 87002

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7021 0950 0000 7250 1151

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Las Cruces, NM 88012

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Sierra Dora C
7381 Villiage Dr
Las Cruces, NM 88012

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Placitas, NM 87043

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Shelton Nikolas Family Trust
13 D Placitas Trails Rd
Placitas, NM 87043

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Deming, NM 88031

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Taylor Katherine Corliss
Po Box 1308
Deming, NM 88031

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7019 0140 0000 2667 2131

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Tucson, AZ 85756

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Silva Jessie, Garcia Gloria, Silva Gilbert C
2 E Inez St
Tucson, AZ 85756

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7021 0950 0000 7250 1175

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Albuquerque, NM 87120

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Holland Cheryl L
3309 Corona Dr Nw
Albuquerque, NM 87120

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Mesilla Park, NM 88047

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Sepulveda Albert P & Sepulveda Salvador
Po Box 1915
Mesilla Park, NM 88047-1915

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Delray Beach, FL 33446

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Silver City Gas Llc
14709 Alabaster Avenue
Delray Beach, FL 33446

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San Manuel, AZ 85631

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Sierra Julian
609 4Th Ave
San Manuel, AZ 85631

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Levelland, TX 79336

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Sieferd Joanna
3520 Madison Rd
Levelland, TX 79336

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Morenci, AZ 85540

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4®

Seibert William W Iii
Po Box 970
Morenci, AZ 85540

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Truth Or Consequences, NM 87901

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage $6.08
Sent To
Debarr Antonia Rodriquez
Street and Apt. 1930 S Broadway St
City, State, ZIP T Or C, NM 87901-3112

0723 5
Postmark Here
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Las Cruces, NM 88011

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage $6.08
Sent To
Dodson Donald Dodson Wanda
Street and Apt 5038 Montezuma Ave
City, State, ZIP Las Cruces, NM 88011

0723 5
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Florence, AZ 85132

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage $6.08
Sent To
Diaz Patricia K Diaz Eddie J
Street and Apt 27505 N Felix Rd
City, State, ZIP Florence, AZ 85132

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El Paso, TX 79926

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage $6.08
Sent To
Ellis Tom
Street and Apt Po Box 27111
City, State, ZIP El Paso, TX 79926

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Vail, AZ 85641

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage $6.08
Sent To
Delgado Ralph P
Street and Apt. 51 W Eric Dorman St
City, State, ZIP Vail, AZ 85641

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Chino Hills, CA 91709

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage $6.08
Sent To
Dominguez Jerardo
Street and Apt 16610 Cobalt Court
City, State, ZIP Chino Hills, CA 91709

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02/10/2026

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Virginia Beach, VA 23456

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and $6.08
Sent To
Diaz Mary Lou Diaz Brian
Street and Apt. No 2201 Wild Oak Crescent
City, State, ZIP+4 Virginia Beach, VA 23456

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Anthony, NM 88021

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
$6.08
Gandara Mary Ann & Martinez Anthony
160 South St
La Union, NM 88021

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Lordsburg, NM 88045

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage $6.08
Sent To
Disclaimer Trust
Street and Apt Po Box 159
City, State, ZIP Lordsburg, NM 88045

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Las Cruces, NM 88007

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage ar $6.08
Sent To
Delgado Daniel G Delgado Socorro I
Street and Apt. N 4331 Desert Bloom Drive
City, State, ZIP+4 Las Cruces, NM 88007

0723 5
Postmark Here
02/10/2026

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9589 0710 5270 3778 9057 27

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Glendale, AZ 85301

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage $6.08
Sent To
Dominguez Susano S Dominguez Hector
Street and Apt. 6230 W Georgia Avenue
City, State, ZIP Glendale, AZ 85301

0723 5
Postmark Here
02/10/2026

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Las Cruces, NM 88011

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $0.00
Postage $0.78
$6.08
Garcia Angelina T Garcia Alonzo T & Rene
3035 Terrace Dr #301
Las Cruces, NM 88011

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9589 0710 5270 1699 2730 00

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Las Cruces, NM 88007

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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Postmark Here
FEB 10 2026
02/10/2026
USPS

9589 0710 5270 3778 9054 99

Garcia Abraham A
2809 San Miguel Ct.
Las Cruces, NM 88007

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

Las Cruces, NM 88004

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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Postmark Here
FEB 10 2026
02/10/2026

9589 0710 5270 1699 2730 62

Garcia Daniel G & Garcia Mona Trujillo
Po Box 2752
Las Cruces, NM 88004

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

Picacho, AZ 85141

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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Postmark Here
FEB 10
02/10/2026

9589 0710 5270 1699 2730 86

Garcia Greg & Amador Camille
1835 S Picacho Hwy
Picacho, AZ 85141

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

Victorville, CA 92394

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
	$6.08

0723 5
Postmark Here
FEB 10 2026
02/10/2026

9589 0710 5270 1699 2732 39

Gdl Family Irrevocable Trust Agreement
15058 Leaf Lane
Victorville, CA 92394

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

Phoenix, AZ 85042

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
	$6.08

0723 5
Postmark Here
FEB 10 2026
02/10/2026

9589 0710 5270 1699 2730 17

Garcia Bernie & Lilly
7614 S 13Th Place
Phoenix, AZ 85042

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

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

Downey, CA 90240

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
	$6.08

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Garcia Cynthia
7743 Bairnsdale St
Downey, CA 90240

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Los Lunas, NM 87031

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
	$6.08

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Gavaldon Jose & Apodaca Karen
880 Desert Senna Ave Sw
Los Lunas, NM 87031

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Mesa, AZ 85205

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
	$6.08

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Golden Valley Llc
4065 E University Dr., Lot 253
Mesa, AZ 85205

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Santa Clara, NM 88026

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
	$6.08

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9589 0710 5270 1699 2730 48

Garcia Christal Talamantes
603 Encino St
Santa Clara, NM 88026

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Bayard, NM 88023

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
	$6.08

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9589 0710 5270 1699 2730 79

Garcia Gloria G
Box 103
Vanadium, NM 88023

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Santa Clara, CA 95050

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
	$6.08

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9589 0710 5270 1699 2731 54

Garcia Steven
627 Fallon Ave
Santa Clara, CA 95050

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Albuquerque, NM 87111

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
	$6.08

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9589 0710 5270 1699 2733 69

Gomez Ashley P
3100 Tahiti St Ne
Albuquerque, NM 87111

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9589 0710 5270 1699 2733 76

Fontana, CA 92335

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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Sent To
Gomez Daniel P
17136 Athol St
Fontana, CA 92335

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City, State, ZIP+4®

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7022 1670 0001 8429 7716

Phoenix, AZ 85042

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To
Coria Belen T & Valadez Ana M
4328 East Nancy Ln
Phoenix, AZ 85042

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7022 1670 0001 8429 7037

Deming, NM 88030

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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Facio Martin Facio Bernardo
2214 S Slate St
Deming, NM 88030

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9589 0710 5270 1699 2697 99

Marana, AZ 85653

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Harris Milton Glenn & Harris Debra Ann
8736 W Hanbury Rd Hanbury
Marana, AZ 85653

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7022 1670 0001 8429 7617

Fort Collins, CO 80525

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To
Cowles Family Trust
4201 Corbett Dr, Apt 205
Fort Collins, CO 80525

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Sunnyvale, CA 94089

Certified Mail Fee	$5.30
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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Deanda Rodolfo
1320 Torrance Ave
Sunnyvale, CA 94089

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Dallas, TX 75254

Certified Mail Fee	$5.30
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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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Federal National Mortgage Association
14221 Dallas Parkway Suite 1000
Dallas, TX 75254-2916

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9589 0710 5270 1699 2698 36

Granby, CO 80446

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Hellyer Rojean
34 Cr 640 #12
Granby, CO 80446

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7022 1670 0001 8429 7655

Deming, NM 88031

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To
Cox H R Family Trust
Po Box 1916
Deming, NM 88031

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7022 1670 0001 8429 7389

Deming, NM 88030

Certified Mail Fee	$5.30
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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To
De Leon Lionel & De Leon Susan
4020 Josefita Rd Se
Deming, NM 88030

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Albuquerque, NM 87120

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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
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Fetty Tony J
5701 Jessica Ct Nw
Albuquerque, NM 87120

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Las Cruces, NM 88005

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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Hernandez Eugene F & Hernandez Kathy E Et Al
326 Palmer Rd
Las Cruces, NM 88005

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Las Cruces, NM 88007

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Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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Herrera Charles & Herrera Stacy
394 Marisa Ct
Las Cruces, NM 88007

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Deming, NM 88030

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Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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Grado Cynthia L & Grado Manuel C Et Al
119 E Buckey St
Deming, NM 88030

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Las Cruces, NM 88001

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Return Receipt (hardcopy)	$0.00
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Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
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Gomez Eva A
2382 Barclay Ct
Las Cruces, NM 88001

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Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
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7022 1670 0001 8429 2100

Arciero Maria Arciero Vanessa M
263 Thorn Ave Apt C
El Paso, TX 79932

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West Valley City, UT 84120

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Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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9589 0710 5270 1699 2728 29

Hiler Richard A Hiler Lillian M
4911 W Odell Drive
West Valley City, UT 84120

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Safford, AZ 85546

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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9589 0710 5270 1699 2738 64

Granados Diana O
1318 W 19Th Pl
Safford, AZ 85546

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Tucson, AZ 85756

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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9589 0710 5270 1699 2734 20

Gomez Jeffrey Stephen
6815 S 5Th Ave
Tucson, AZ 85756

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Saint Augustine, FL 32084

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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7022 1670 0001 8429 6054

Bustamante Michael , Sonia
4010 Grande Vista Blvd. Apt. 118
Saint Augustine, FL 32084

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Baldwin Park, CA 91706

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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9589 0710 5270 1699 2737 27

Gonzales Reina H
4243 Downing
Baldwin Park, CA 91706

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Alamogordo, NM 88310

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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02/10/2026

9589 0710 5270 1699 2739 32

Gray Joann
7 Calle De Suenos
Alamogordo, NM 88310

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

Las Cruces, NM 88012

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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7022 1670 0001 8429 6474

Castillo Ana L & Johnson Ana L
5798 Organ Peak
Las Cruces, NM 88012

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Kearny, AZ 85137

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
Return Receipt (hardcopy)	$0.00
Return Receipt (electronic)	$0.00
Certified Mail Restricted Delivery	$0.00
Adult Signature Required	$0.00
Adult Signature Restricted Delivery	$
Postage	$0.78
	$6.08

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7022 1670 0001 8429 2216

Armendariz Eddie J & Armendariz Mary
Po Box 1132
Kearney, AZ ~~85237~~
85137

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Lordsburg, NM 88045

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

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Arredondo Santiago & Arredondo Barbara
1416 Lead St.
Lordsburg, NM 88045

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Rio Rancho, NM 87124

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

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Holguin Reinaldo L Jr
259 Pearl Dr Ne
Rio Rancho, NM 87124

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Playa del Rey, CA 90293

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

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Guerra Jesse C
219 Culver Blvd
Playa Del Rey, CA 90293

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9589 0710 5270 1699 2695 22

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Laguna Niguel, CA 92677

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

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Wheeler Craig Mark
29625 Coral Cove Rd
Laguna Niguel, CA 92677

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7022 1670 0001 8429 1196

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Tucson, AZ 85739

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

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FEB 10 2026
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Arrey Albert N & Mary Ann
65280 East Rose Ridge Court
Tucson, AZ 85739

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

7022 1670 0001 8429 5200

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Sahuarita, AZ 85629

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

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02/10/2026

Grijalva Justin & Grijalva Rachel
1719 W. Placita Del Codillo
Sahuarita, AZ 85629

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9589 0710 5270 1699 2740 21

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Culver City, CA 90230

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Postmark Here
FEB 10 2026
02/10/2026

Guerra Jesse C Revocable Trust
6039 Linda Way
Culver City, CA 90230

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

9589 0710 5270 1699 2695 39

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Rio Rancho, NM 87124

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Postmark Here
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02/10/2026

Wilson Sylvia
3325 Marino Drive Se
Rio Rancho, NM 87124

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7022 1670 0001 8429 1233

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San Tan Valley, AZ 85142

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total Postage and Fees $6.08

Postmark Here
FEB 10 2026
02/10/2026

Avilucea Martina
4140 W Coneflower Ln
Santan Valley, AZ ~~85142~~ 85144

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

7022 1670 0001 8429 5323

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Omaha, NE 68105

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

Postmark Here
FEB 10 2026
02/10/2026
USPS

Grush Graydon & Candy Joint Living Trust
500 S 37Th Street Apt 503
Omaha, NE 68105

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

9589 0710 5270 1699 2740 52

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Stockton, CA 95209

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

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FEB 10 2026
02/10/2026
USPS

Wallington Lynn
9014 Thornton Rd #8
Stockton, CA 95209

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

9589 0710 5270 3778 9066 18

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Truth Or Consequences, NM 87901

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78
Total $6.08

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02/10/2026
USPS

Trujillo Audon Jr Wilkes-Trujillo Nancy L
506 W 3Rd Ave
T Or C, NM 87901

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

7022 1670 0001 8429 1318

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Tucson, AZ 85750

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Hurley Development Llc
Street and Apt. No., or PO Box No.
8939 S Eisenhower Rd
City, State, ZIP+4®
Tucson, AZ 85750 85756

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

9589 0710 5270 3778 9064 65

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El Paso, TX 79924

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Espinosa Margaret L & Espinosa Daniel
Street and Apt. No., or PO Box No.
5400 Plainviewdrive
City, State, ZIP+4®
El Paso, TX 79924

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

9589 0710 5270 3778 9061 82

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Meridian, ID 83646

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Stokes Colin & Stokes Carolyn
Street and Apt. No., or PO Box No.
993 W Cagney Dr
City, State, ZIP+4®
Meridian, ID 83646

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

7019 0140 0000 2667 2025

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Las Cruces, NM 88001

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Soto Sean & Rosales Elizabeth
Street and Apt. No., or PO Box No.
120 E Madrid Space 5
City, State, ZIP+4®
Las Cruces, NM 88001

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

7021 0950 0000 7250 1007

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Paramount, CA 90723

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Esparza Ernesto T
Street and Apt. No., or PO Box No.
7130 Cortland Avenue
City, State, ZIP+4®
Paramount, CA 90723

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

9589 0710 5270 3778 9064 27

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Tucson, AZ 85711

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Duran Gilbert & Duran Syliva A Et Al
Street and Apt. No., or PO Box No.
4518 E Cooper St
City, State, ZIP+4®
Tucson, AZ 85711

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

9589 0710 5270 3778 9062 05

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Matthews, NC 28105

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Spirit Of 76 Llc
Street and Apt. No., or PO Box No.
10401 Monroe Rd
City, State, ZIP+4®
Matthews, NC 28105

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

7021 0950 0000 7250 0963

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Las Vegas, NV 89121

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Sosaya Richard D
Street and Apt. No., or PO Box No.
2627 S Lamb Blvd, Trlr 167
City, State, ZIP+4®
Las Vegas, NV 89121

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

7021 0950 0000 7250 1038

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Tucson, AZ 85714

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Escobar Adam
Street and Apt. No., or PO Box No.
1339 W Calle Rio Rojo
City, State, ZIP+4®
Tucson, AZ 85714-1173

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9589 0710 5270 3778 9062 50

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Kihei, HI 96753

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Strain Mercedes Elaine
Street and Apt. No., or PO Box No.
2441 S. Kihei Rd Apt B-202
City, State, ZIP+4®
Kihei, HI 967537217

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7019 0140 0000 2667 2049

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Marana, AZ 85653

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Spann Donald K & Grimaldo Rhonda
Street and Apt. No., or PO Box No.
10348 N Crooked Peak Trl
City, State, ZIP+4®
Marana, AZ 85653

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

7021 0950 0000 7250 0987

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Green Valley, AZ 85614

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
☐ Return Receipt (hardcopy) $0.00
☐ Return Receipt (electronic) $0.00
☐ Certified Mail Restricted Delivery $0.00
☐ Adult Signature Required $0.00
☐ Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08

Sent To
Smorra Thomas R
Street and Apt. No., or PO Box No.
230 W Calle Montana Jack
City, State, ZIP+4®
Green Valley, AZ 85614

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

7021 0950 0000 7250 1076

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El Paso, TX 79915
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Sent To Solano Shirley
Street 7522 Monterrey Dr
City, State, ZIP+4® El Paso, TX 79915-2646
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions
0723 5
Postmark Here
FEB 10 2026
02/10/2026
USPS
OFFICIAL USE
7021 0950 0000 7250 1069

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For delivery information, visit our website at www.usps.com®.
San Manuel, AZ 85631
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total Postage and Fees $6.08
Sent To Guerrero Rosario
Street 1029 W Webb Dr
City, State, ZIP+4® San Manuel, AZ 85631
for Instructions
0723 5
Postmark Here
FEB 10 2026
02/10/2026
USPS
OFFICIAL USE
9589 0710 5270 1699 2695 53

U.S. Postal Service™
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For delivery information, visit our website at www.usps.com®.
Katy, TX 77494
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $0.00
Postage $0.78
Total $6.08
Sent To Riley Lorraine M Riley Norris O
Street 2115 Saddlehorn
City, State, ZIP+4® Katty, TX 77494
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions
0723 5
Postmark Here
FEB 10 2026
02/10/2026
USPS
OFFICIAL USE
9589 0710 5270 3778 9073 56

U.S. Postal Service™
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For delivery information, visit our website at www.usps.com®.
Silver City, NM 88062
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Sent To Rainbow Ridge Investments Llc
Street PO Box 1411
City, State, ZIP+4® Silver City, NM 88062
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions
0723 5
Postmark Here
FEB 10 2026
02/10/2026
USPS
OFFICIAL USE
9589 0710 5270 1699 2748 85

U.S. Postal Service™
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For delivery information, visit our website at www.usps.com®.
Colorado Springs, CO 80919
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $
Postage $0.78
Total $6.08
Sent To Skee James R & Skee R Gail
Street 1530 Northfield Rd
City, State, ZIP+4® Colorado Springs, CO 80919
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions
0723 5
Postmark Here
FEB 10 2026
02/10/2026
USPS
OFFICIAL USE
7021 0950 0000 7250 1090

U.S. Postal Service™
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For delivery information, visit our website at www.usps.com®.
Tucson, AZ 85746
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $0.00
Postage $0.78
Total $6.08
Sent To Hagaman Allen Hagaman Rose E
Street 2865 W Irvington Rd
City, State, ZIP+4® Tucson, AZ 85746
for Instructions
0723 5
Postmark Here
FEB 10 2026
02/10/2026
USPS
OFFICIAL USE
9589 0710 5270 1699 2697 68

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
Tucson, AZ 85706
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $0.00
Postage $0.78
Total $6.08
Sent To Recwest Incorporated
Street 5401 S Arcadia
City, State, ZIP+4® Tucson, AZ 85706
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions
0723 5
Postmark Here
FEB 10 2026
02/10/2026
USPS
OFFICIAL USE
9589 0710 5270 1699 2749 91

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Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
El Paso, TX 79912
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $0.00
Postage $0.78
Total $6.08
Sent To Quintero Ricardo V
Street 7093 Luz De Sol Dr
City, State, ZIP+4® El Paso, TX 79912
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions
0723 5
Postmark Here
FEB 10 2026
02/10/2026
USPS
OFFICIAL USE
9589 0710 5270 1699 2748 54

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CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
Minot, ND 58703
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $0.00
Postage $0.78
Total $6.08
Sent To Singer Mark A
Street 4 Shirley Ct
City, State, ZIP+4® Minot, ND 58703
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions
0723 5
Postmark Here
FEB 10 2026
02/10/2026
USPS
OFFICIAL USE
7021 0950 0000 7250 1113

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Tucson, AZ 85706
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $0.00
Postage $0.78
Total Postage and Fees $6.08
Sent To Rios Ina M
Street 1460 E. Milton Rd.
City, State, ZIP+4® Tucson, AZ 85706
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions
0723 5
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9589 0710 5270 3778 9073 94

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Farmington, NM 87401
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $0.00
Postage $0.78
Total $6.08
Sent To Ramos Manuela M Living Trust
Street 5Rd 5777
City, State, ZIP+4® Farmington, NM 87401
for Instructions
0723 5
Postmark Here
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Denver, CO 80202
Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate) $0.00
Return Receipt (hardcopy) $0.00
Return Receipt (electronic) $0.00
Certified Mail Restricted Delivery $0.00
Adult Signature Required $0.00
Adult Signature Restricted Delivery $0.00
Postage $0.78
Total $6.08
Sent To Qwest Corporation
Street 931 14Th St
City, State, ZIP+4® Denver, CO 80202
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions
0723 5
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Albuquerque, NM 87125

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Quintana Darius
Po Box 25996
Albuquerque, NM 87125

0723 5
Postmark Here
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02/10/2026 USPS

9589 0710 5270 1699 2748 16

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

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La Mesa, NM 88044

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Quevedo Pete C Et Al
6635 Rio Dorado Drive
La Mesa, NM 88044

0723 5
Postmark Here
FEB 10 2026
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9589 0710 5270 1699 2747 86

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

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Rio Rancho, NM 87144

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Pyaga Adonata
4405 Jager Dr Ne Ste C4-4040
Rio Rancho, NM 87144

0723 5
Postmark Here
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9589 0710 5270 1699 2747 48

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

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Silver City, NM 88061

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Portillo Jeramiah F
2704 Royal Dr
Silver City, NM 88061

0723 5
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9589 0710 5270 1699 2746 63

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

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Safford, AZ 85548

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Quinlan Richard Gordon Quinlan Sherry
Po Box 905
Safford, AZ 85548

0723 5
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02/10/2026 USPS

9589 0710 5270 1699 2741 06

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

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La Mesa, NM 88044

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Quevedo Larry C Et Al
6635 Rio Dorado Drive
La Mesa, NM 88044

0723 5
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9589 0710 5270 1699 2747 79

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

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Apache Junction, AZ 85119

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Provencio Samuel P Provencio Virginia
1564 S Royal Palm Rd
Apache Jct, AZ 85219-6566
85119

0723 5
Postmark Here
FEB 10 2026
02/10/2026 USPS

9589 0710 5270 1699 2747 24

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Las Cruces, NM 88012

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Polomski Boudica N
4595 Arabela Dr
Las Cruces, NM 88012

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02/10/2026 USPS

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Tucson, AZ 85747

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Quigley Ross A Jr
7568 S Pacific Willow Dr
Tucson, AZ 85747

0723 5
Postmark Here
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9589 0710 5270 1699 2740 90

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Deming, NM 88031

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total Postage and Fees $6.08
Sent To
Street and Apt. No.
City, State, ZIP+4

Quarrell Charles A Quarrell Dolores P
P.O. Box 1011
Deming, NM 88031

0723 5
Postmark Here
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Laguna Niguel, CA 92677

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Western Precious Metals Inc
30251 Suite 561
Laguna Niguel, CA 92677
Golden

0723 5
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9589 0710 5270 3778 9067 24

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Gila, NM 88038

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $0.78
Total $6.08
Sent To
Street
City, State, ZIP+4

Polanco Ronald P
Po Box 22
Gila, NM 88038

0723 5
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9589 0710 5270 1699 2746 18

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Deming, NM 88030

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Peterson Shandis
8955 Hwy 377
Deming, NM 88030

0723 5
BAYARD NM 88023
Postmark Here
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9589 0710 5270 1699 2745 26

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Lordsburg, NM 88045

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Perry Nita Mae Revocable Trust
212 Church St
Virden, NM 88045

0723 5
Postmark Here
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USPS

9589 0710 5270 1699 2744 65

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Lemont, IL 60439

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Uirc-Gsa Vii Bayard Nm Llc
15700 W 103Rd St
Lemont, IL 60439

0723 5
BAYARD NM 88023
Postmark Here
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USPS

9589 0710 5270 1699 2726 21

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Nuevo, CA 92567

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Romero Veronica, David & Juan J Jr
29125 Cobblestone Street
Nuevo, CA 92567

0723 5
Postmark Here
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7022 1670 0001 8428 8578

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Pearce, AZ 85625

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Perry William & Perry Kathryn
1010 E Mescal Dr
Pearce, AZ 85625

0723 5
BAYARD NM 88023
Postmark Here
FEB 10 2026
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USPS

9589 0710 5270 1699 2744 89

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

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Alamogordo, NM 88310

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Perez Steve
223 Eagle Dr
Alamogordo, NM 88310

0723 5
BAYARD NM 88023
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FEB 10 2026
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9589 0710 5270 1699 2744 58

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Las Cruces, NM 88007

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Valle Yolanda Chacon Lopez Michelle
1051 Hoskins Lane
Las Cruces, NM 88007

0723 5
BAYARD NM 88023
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USPS

9589 0710 5270 3728 9061 06

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Tucson, AZ 85745

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Rodriguez Benito,Jr & Virginia, Gabriel
2777 W Carnation Place
Tucson, AZ 85745

0723 5
BAYARD NM 88023
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USPS

9589 0710 5270 3778 9068 09

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Las Vegas, NV 89120

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Perry Thedra Michelle
5122 Woodruff Place
Las Vegas, NV 89120

0723 5
BAYARD NM 88023
Postmark Here
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USPS

9589 0710 5270 1699 2744 72

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El Paso, TX 79922

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Trominski Gretchen J & Trominski Ernest
4825 Costa De Oro
El Paso, TX 79922

0723 5
BAYARD NM 88023
Postmark Here
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02/10/2026
USPS

9589 0710 5270 1699 2725 77

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Phoenix, AZ 85008

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Rosales Timothy
2219 N 25Th Place
Phoenix, AZ 85008

0723 5
BAYARD NM 88023
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USPS

7022 1670 0001 8428 8639

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Albuquerque, NM 87112

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sauceda Fred Z & Ice Lydia
1205 Gretta Ne
Albuquerque, NM 87112

0723 5
BAYARD NM 88023
Postmark Here
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02/10/2026
USPS

9589 0710 5270 3778 9052 91

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

9589 0710 5270 3778 9052 46

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Los Lunas, NM 87031

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
FEB 10 2026
02/10/2026
USPS

Sent To: Sandoval Ruben Sandoval Flavia E
Street and Apt. No.: 1624 Cerro Vista Loop
City, State, ZIP+4: Los Lunas, NM 87031

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

9589 0710 5270 3778 9071 27

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Waddell, AZ 85355

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
FEB 10 2026
02/10/2026
USPS

Sent To: Sanchez Candelario & Rebecca D
Street and Apt. No.: 7650 N 181St Avenue
City, State, ZIP+4: Waddell, AZ 85355

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7022 1670 0001 8429 1103

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Deming, NM 88030

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
FEB 10 2026
02/10/2026
USPS

Sent To: Saenz Fidel T Saenz Ronnie S
Street and Apt. No.: 760 S Santa Fe
City, State, ZIP+4: Deming, NM 88030

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

7022 1670 0001 8429 2476

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San Francisco, CA 94118

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

Postmark Here
FEB 10 2026
02/10/2026
USPS

Sent To: Mascall Maci
Street and Apt. No.: 590 8Th Ave #7
City, State, ZIP+4: San Francisco, CA 94118

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9589 0710 5270 3778 9052 08

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☐ Return Receipt (hardcopy)	$0.00
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Sent To: Sanco Investments Llc
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☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To: Salem'S Llc
Street and Apt. No.: Po Box 356
City, State, ZIP+4: Socorro, NM 87801

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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To: Ruiz Robert G Ruiz Lynette G
Street and Apt. No.: 4244 Capistrano
City, State, ZIP+4: Las Cruces, NM 88011

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☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To: Criswell Dean
Street and Apt. No.: Po Box 617
City, State, ZIP+4: Tyrone, NM 88065

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Fort Bayard, NM 88036

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Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To: Sanchez Lee M Sanchez Kimberly D
Street and Apt. No.: Po Box 36037
City, State, ZIP+4: Ft Bayard, NM 88036

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Salt Lake City, UT 84123

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To: Salas Encarnacion Salas Rigoberto R C/C
Street and Apt. No.: 1150 Atherton Ct Apt 14
City, State, ZIP+4: Salt Lake City, UT 84123

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Thatcher, AZ 85552

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To: Rueda Sylvia
Street and Apt. No.: Po Box 2860
City, State, ZIP+4: Thatcher, AZ 85552

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Tyrone, NM 88065

Certified Mail Fee	$5.30
Extra Services & Fees (check box, add fee as appropriate)	
☐ Return Receipt (hardcopy)	$0.00
☐ Return Receipt (electronic)	$0.00
☐ Certified Mail Restricted Delivery	$0.00
☐ Adult Signature Required	$0.00
☐ Adult Signature Restricted Delivery	$0.00
Postage	$0.78
Total Postage and Fees	$6.08

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Sent To: Cordova Adam Gregory
Street and Apt. No.: Po Box 465
City, State, ZIP+4: Tyrone, NM 88065

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Mimbres, NM 88049

Certified Mail Fee $5.30
Extra Services & Fees (check box, add fee as appropriate)
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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage $6.08

Sent To Bruemmer Dean R & Bruemmer Isaac
Street and Apt 17 Jackass Ln
City, State, ZIP+4 Mimbres, NM 88049

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage $6.08

Sent To Pena Louis B Pena Evangeline
Street and Apt 6831 Brush Field Rd Nw
City, State, ZIP+4 Albuquerque, NM 87114

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Las Cruces, NM 88007

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- Return Receipt (hardcopy) $0.00
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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Pellerin Elizabeth B
Street and Apt 4909 Chagar Ct
City, State, ZIP+4 Las Cruces, NM 88007

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- Return Receipt (hardcopy) $0.00
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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To Pedraza Charles E Jr
Street and Apt 226 Paloma Blanca Dr
City, State, ZIP+4 Chaparral, NM 88081

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Mimbres, NM 88049

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage $6.08

Sent To Arrey-Lopez Frances & Arrey Guadalupe T
Street and Apt Po Box 36
City, State, ZIP+4 Mimbres, NM 88049

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage $6.08

Sent To Pena Geraldine L
Street and Apt 12018 Stoney Bridge
City, State, ZIP+4 San Antonio, TX 78247

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San Diego, CA 92126

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- Return Receipt (hardcopy) $0.00
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage $6.08

Sent To Pedraza Maria Aida & Pedraza Eddie Joe
Street and Apt 10928 Black Mountain Rd. #14
City, State, ZIP+4 San Diego, CA 92126

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Arenas Valley, NM 88022

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

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Sent To Pas James A & Barraza Gloria P
Street and Apt 137 Arenas Valley Rd
City, State, ZIP+4 Arenas Valley, NM 88022

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage $6.08

Sent To De La Torre Elicia
Street and Apt Po Box 187
City, State, ZIP+4 Mimbres, NM 88049

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Mesilla Park, NM 88047

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- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00

Postage $0.78

Total Postage $6.08

Sent To Pena Esther Leyba
Street and Apt Po Box 232
City, State, ZIP+4 Mesilla Park, NM 88047

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Las Cruces, NM 88001

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage $6.08

Sent To Pedraza Manuel C
Street and Apt 1308 Boston Dr.
City, State, ZIP+4 Las Cruces, NM 88001

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.78

Total Postage $6.08

Sent To Pedraza Antonio C
Street and Apt 4709 Sherry Ann Rd
City, State, ZIP+4 Albuquerque, NM 87114

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Eugene, OR 97405

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- ☐ Certified Mail Restricted Delivery $ $0.00
- ☐ Adult Signature Required $ $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Peat Raymond
Po Box 5764
Eugene, OR 97405

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City, State, ZIP+4

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Albuquerque, NM 87110

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- ☐ Return Receipt (electronic) $ $0.00
- ☐ Certified Mail Restricted Delivery $ $0.00
- ☐ Adult Signature Required $ $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total Postage and Fees $6.08

Sent To
Parks James
2714 Montclaire Dr Ne
Albuquerque, NM 87110

Street and Apt. No.

City, State, ZIP+4

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

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Sent To
Lucero Austin Dakota Jua
Po Box 1255
Bayard, NM 88023

Street and Apt. I

City, State, ZIP+

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

Postage

Total Posta

Sent To
Macias Patricia
Po Box 1354
Bayard, NM 88023

Street and A

City, State, Z

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Demins, NM 88030

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $ $0.00
- ☐ Return Receipt (electronic) $ $0.00
- ☐ Certified Mail Restricted Delivery $ $0.00
- ☐ Adult Signature Required $ $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Parra Frances C
1301 E Walnut St
Deming, NM 88030

Street and Apt. No.

City, State, ZIP+4

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

Postage

Total Pos

Sent To
Madrid Pablo Madrid Eloisa
722 Taylor
Bayard, NM 88023

Street ar

City, Sta

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

Postage

Total Postage a

Sent To
Maberry John H Maberry Juanita H
Po Box 1462
Bayard, NM 88023

Street and Apt.

City, State, ZIP

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

Postage

Total Postage an

Sent To
Madrid Frances & Madrid Nicholas
Anthony Et Al
Po Box 255
Bayard, NM 88023

Street and Apt. N

City, State, ZIP+4

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

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Claremont, CA 91711

Certified Mail Fee $5.30

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $ $0.00
- ☐ Return Receipt (electronic) $ $0.00
- ☐ Certified Mail Restricted Delivery $ $0.00
- ☐ Adult Signature Required $ $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.78

Total $6.08

Sent To
Parra Fernando M Sr Parra Erlinda R
830 Bonita
Clar Mont, CA 91711

Street and Apt. No.

City, State, ZIP+4

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

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Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $ FEB 10
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage

Total Postage a

Sent To
Madrid Ramona O Etal Madrid Pedro O
Box 363
Bayard, NM 88023

Street and Apt.

City, State, ZIP+

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

Postage

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Marquez Ralph D Marquez Nancy V
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Jauregui Rafael Iii
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Maldonado Eddie & Maldonado Felicia
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Jaurequi Magdalena Rodriguez
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Marquez Tanya & Marquez Reynaldo B
Po Box 279
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Jauriqui Adrian & Elisa R Revocable Trust
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Bayard, NM 88023

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Jauriqui Rosa R
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Jewell Cassandra Rj
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Kasten Brett Kasten Greta Jo
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Kellepourey Karla
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Kailing Ann Lynne
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Lucero Anthony Jr Lucero Denisha A
Po Box 1024
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Lopez Natasha Renee
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Maria Alejandra Santa & Lucinda
302 Chino St
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Lucero Ramon L Lucero Lucy
Po Box 449
Bayard, NM 88023

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Lozano Joey Mark
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Lopez Carmen T
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Terrazas Carlos M
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Lopez Kenneth J & Lopez Dee M
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Legarda Alfredo B Legarda Bertha C
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Terrazas Cruz C
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Thrasher Sarah A & Dominguez Billy J
715 Guinevan St
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Lopez Linda C Revocable Trust
Po Box 1479
Bayard, NM 88023

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Lopez Johnny J
429 Maple St
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Thomson Jamie K U/C
316 Diamond St
Bayard, NM 88023

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Terrazas Robert R
Po Box 1131
Bayard, NM 88023

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Lechuga Delia
Po Box 853
Bayard, NM 88023

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Vanadium, NM 88023

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City,

Torres Leonarda A Torres Gabriel
7 Park
Bayard, NM 88023

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Terrazas Robert & Terrazas Susie Et Al
507 Orchard St
Bayard, NM 88043

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Laws Richard Bodine & Laws Tanya A
Po Box 412
Bayard, NM 88023

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Bayard, NM 88023

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Torres Fortunato P
506 1/2 S Canyon St
Bayard, NM 88023

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Lechuga Louis A & Lechuga Vanessa L
Po Box 668
Bayard, NM 88023

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Street
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Lawrence Jacob P & Lawrence Janelle M
Po Box 508
Bayard, NM 88023

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Street
City,

Mayor John Ojinaga
City of Bayard
PO Box 728
Bayard, NM 88023

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Torres Alfonso F Diaz Erlinda T
Po Box 694
Bayard, NM 88023

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Lucero Robert R
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Jones Gregory Scot
6 Zinc Hill Rd
Hanover, NM 88041

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Total Lee James
Po Box 124
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Jauriqui Gilbert
Po Box 704
Bayard, NM 88023

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Luna Linda J
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Hanover, NM 88041

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Liebhart Steve A & Liebhart Sheryl L
Hc 71 Box 1249
Faywood, NM 88034

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Torres Antonio R Torres Lucinda J
Box 114
Hanover, NM 88041

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5845 Highway 152
Hanover, NM 88041

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Tilden Family Living Trust The
5344 Highway 152
Hanover, NM 88041

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Jimenez Timothy E & Jimenez Martha E
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Santa Clara, NM 88026

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Lopez Salvador & Lopez Kathleen
#4 Kohdy Lane
Arenas Valley, NM 88022

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Maldonado Velia,Diaz Raul Michelle A
800 E Lori Place
Silver City, NM 88061

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Jimenez Anthony G
3202 N Royall Dr
Silver City, NM 88061

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Lente Vernon
Po Box 611
Santa Clara, NM 88026

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Ibarra Crystal & Marin Debra O
05 Camino Verde
Arenas Valley, NM 88022

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Po Box 1584
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Kd Properties Llc
4101 N Swan Street
Silver City, NM 88061

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Mayor Arnold Lopez
Village of Santa Clara
PO Box 316
Santa Clara, NM 88026

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Lynn Eugene
4649 Highway 15
Silver City, NM 88061

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Kirker Andy Et Al
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Silver City, NM 88061

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7019 0140 0000 2667 2490

Kirker Mary Grace Et Al
2 Redwood Cir
Silver City, NM 88061

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Terrazas Inc
40 Flurry Ln
Silver City, NM 88061-8834

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Terrazas , Gila Lumber & True Value
3100 Highway 180 E #B
Silver City, NM 88061

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Lopez Margaret J
Po Box 2954
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County Manager Charlene Webb
County of Grant
PO Box 898
Silver City, NM 88062

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Lopez (Joey) Joseph J & Lopez Elaine M
102 East 18Th St
Silver City, NM 88061

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Tibayan Hilda Etal
808 E Lori Pl
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Lazzell Gabriel Michael
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Mayor Simon Wheaton-Smith
Town of Silver City
PO Box 1188
Silver City, NM 88062

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1 E Crescent St
Silver City, NM 88061

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Marin Grace P Et Al
Po Box 603
Hurley, NM 88043

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Lopez Santiago O Lopez Sylvia
Po Box 377
Hurley, NM 88043

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Lucero Carlos P Lucero Dolores A
Po Box 246
Hurley, NM 88043

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Marin Joe J Marin Bertha C
214 Pattie Ave
Hurley, NM 88043

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00 Pattie Ave
Hurley, NM 88043

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Lovato Gerald D Lovato Pam Y
13 Santa Rita Ave
Hurley, NM 88043

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Toney Elyse J
1 Yucca Valley Dr
Arenas Valley, NM 88022

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Lopez Paz C & Lopez Rosario M & Flores Carla
311 Nevada Ave
Hurley, NM 88043

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Lozano Michael Paul & Lozano Virginia
116 Pattie Ave
Hurley, NM 88043

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Maciver James S
316 Anza Street
Hurley, NM 88043

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Madrid Mateo V Jr
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Marquez Richard Edward & Marquez Katrina Antoinette
Po Box 358
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Irrevocable North Hurley Property Trust
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Maldonado Manuel J & Lucero Lucia L
Po Box 523
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112 B St
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Madrid Billy Joe & Montes Michelle A
Po Box 312
Hurley, NM 88043

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Marquez Lorenzo M Marquez Natalia S
206 Santa Rita Ave
Hurley, NM 88043

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Marrufo Melissa Marie Sandoval Et Al
Po Box 804
Hurley, NM 88043

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Jauregui David R Jauregui Alice V
Po Box 463
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20 Cottonwood
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7021 0950 0000 7250 1410

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Po Box 485
Hurley, NM 88043

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Jameson Charles W Jr
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Jaurequi Ermalinda B
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Lamoreaux Edwin
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Jaramillo David S Jr & Katherine B Et Al
Po Box 662
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Kirk Irma,Clark MichaelYvonne E
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Hurley, NM 88043

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Hurley, NM 88043

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Legarda Stephanie R
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Thompson Kevin M
Po Box 747
Hurley, NM 88043

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Terrazas Josie Jauregui & Cordova Lucille
211 A St
Hurley, NM 88043

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Lighthouse Baptist Church
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Hurley, NM 88043

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Thomas Vanessa
104 Elguea Ave
Hurley, NM 88043

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Torres John M Sr Torres Stephanie M
216 Elguea
Hurley, NM 88043

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Lewis Virginia L Lewis Rodger V
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Thompson Phyllis Tucker Helen
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Thatcher Eric & Thatcher Kathleen
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Hurley, NM 88043

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Mayor Reynaldo C. Maynes
Town of Hurley
PO Box 65
Hurley, NM 88043

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Sosaya Mariano G Sosaya Viola
Po Box 1195
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Stone Joseph Roy & Stone Patricia
Grijalva
717 Dayhill St
Bayard, NM 88023

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Alvarado Petra O
Po Box 225
Bayard, NM 88023

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Alvarado Jonathan R
115 S Yucca St
Bayard, NM 88023

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Sosaya Richard D
Po Box 1433
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7022 1670 0001 8429 5620

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Alvarado Norma Angelica
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Bayard, NM 88023

7021 0950 0000 7250 1014

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Alvarado Rosemary
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Alvarado Margaret
Po Box 794
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Alvarado Antonio S
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Alvarado Jonathan R
115 S Yucca St
Bayard, NM 88023

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Alvarado Angel B Alvarado Manuela A
Po Box 590
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Aguilar Ted R & Aguilar Rose M U/C
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Acosta Gustavo
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7019 0140 0000 2667 2209

Teran Manuel E Teran Monica A
Po Box 683
Bayard, NM 88023

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7019 0140 0000 2667 2094

Sublasky Maria Martina
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Esqueda Johnny A Esqueda Margarita
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Strong Peder Dawson
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Esparza Shawn & Francisco Nicole
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Simpson Albert Simpson Dora
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Clair Glenn Neil
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Godoy Irene F & Godoy Samuel Anthony
Street and Apt.
708 Rogers St
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Bayard, NM 88023

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Cobre Consolidated School Dist 2
Street and Apt.
Po Box 1000
City, State, ZIP+4®
Bayard, NM 88023

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Cordova Francisco A Cordova Lucille T
Street and Apt.
705 Taylor Street
City, State, ZIP+4®
Bayard, NM 88023

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Geary Sylvia M Et Al
Po Box 751
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9589 0710 5270 1699 2731 85

Garza Ricardo E Ii & Rodriguez Valerie L
710 Winifred St
Bayard, NM 88023

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9589 0710 5270 1699 2731 23

Garcia Manuel Jose
Po Box 340
Bayard, NM 88023

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Garcia Carmen M Etal
Po Box 95
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Gavaldon Ernesto Trust
703 N St
Bayard, NM 88023

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Garcia Ruth O
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Espinosa Daniel
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Esqueda George L Esqueda Aurelia B
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Escobar Alex L Escobar Dora G
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Trevizo Robert A
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Wilguess David A Wilguess Cheryl D
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Gonzales Selah Lee
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Gonzalez Guillermo "Willie" & Virginia
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Gonzales Mark Etal
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Granillo Robert Allen & Courtney Nichole
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Warhank Ty & Carbajal Andrea
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- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
$
Sent To
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

Postmark Here
FEB 026

Duarte Anabel Luab & Luab Pia
Po Box 645
Bayard, NM 88023

9589 0710 5270 3778 9059 01

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9589 0710 5270 3778 9058 95

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Dove Cody L
608 1/2 North Street
Bayard, NM 88023

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City, State, ZIP

Delgado Fabian & Delgado Mayra
Po Box 86
Bayard, NM 88023

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Street and Apt.
City, State, ZIP

Duarte George T
Po Box 509
Bayard, NM 88023

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Street and Apt.
City, State, ZIP

De La Torre Lorenza
Po Box 724
Bayard, NM 88023

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City, State, ZIP

Dominguez Mary Christina Rodriguez
1600 Winifred
Bayard, NM 88023

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Diaz Jose L Diaz Judith A
Po Box 829
Bayard, NM 88023-0829

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Bayard, NM 88023

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Damjo Llc U/C
Po Box 446
Bayard, NM 88023

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Denton Elizabeth Ann
Po Box 1312
Bayard, NM 88023

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Delgado Trust
Po Box 1179
Bayard, NM 88023

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Delgado Consuelo A
Po Box 464
Bayard, NM 88023

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Cruz Juan Martin Alvarado & Alvarado
Maria
Po Box 483
Bayard, NM 88023

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Holland Sally Ann
Po Box 743
Bayard, NM 88023

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7021 0950 0000 7250 0901

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Hubbard Charles E
Po Box 437
Bayard, NM 88023

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7022 1670 0001 8429 7884

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☐ Return Receipt (electronic) $0.00
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☐ Adult Signature Required $0.00
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02/17/2026
USPS

Luna County
Chris Brice, Luna County Manager
700 S. Silver Ave
Deming, NM 88030

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USPS

Holmgren Brad
723 Royal Street
Bayard, NM 88023-9773

or Instructions

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FEB 09 2026
USPS

Sepulveda Salvador P Jr Patricia J
315 Peru Street
Bayard, NM 88023

PS Form 3800, January 2023 or Instructions

9.2: List of Places Public Notice Has Been Posted

The public notice has been posted at the following locations:

- Chino Mine Facility Entrances
    - Mine Security Gate
    - Hurley Security Gate
    - SXEW Security Gate
- Bayard Post Office - 810 Central Ave, Bayard, NM 88023
- Fierro Post Office - 70 Fierro Rd, Hanover, NM 88041
- Hurley Post Office - 16 Cortez Ave, Hurley, NM 88043

9.3: Copy of Property Tax Record

Silk, Ellen

From: Jeremiah Paul <jpaul@grantcountynm.gov>
Sent: Thursday, February 5, 2026 10:29 AM
To: Silk, Ellen
Subject: Re: 1/2 mile radius
Attachments: Notification Boundary.pdf; Account_Extract_NotificationBoundary_remove_duplicate_addresses.xls; HalfMileboundary.pdf; Account_Extract_halfmile_only.xls

You don't often get email from jpaul@grantcountynm.gov. Learn why this is important

Good Morning

I have removed the duplicate addresses leaving about 1600 addresses. I am unsure where the 628 number came from, perhaps only the properties with residences. I never had a boundary map, usually I have a notification requesting property owners within half file or 1/3 mile from freeport property. I have attached two boundary maps, the first is the original notification boundary that I sent before with the spreadsheet with the addresses with duplicates removed. It's based on the black notification boundary on your map which was also based on sections. I just did a spatial join for the parcel map and the sections requested. The second map is based on the operation area (the blue line on your map), only the parcels within the blue area were selected and a half mile buffer was created. The Parcels within the half mile buffer were selected and the data was exported to the second excel file (Account Extract_halfmile_only) again I removed Freeport property leaving only about 1450 unique addresses. These are based on property ownership, not all properties are occupied.

On Thu, Feb 5, 2026 at 7:19 AM Silk, Ellen <esilk@fmi.com> wrote:

> Hi Jeremiah,
>
> Thanks for sending over this list yesterday. Do you have a list that does not include duplicate addresses? Also, the past lists we received for the ½ mile radius were about 628 neighbors and this list is showing ~3,000 residents. Can you please confirm that the list is showing everyone in the ½ mile radius?
>
> Thank you,
>
> **Ellen Silk**
>
> Environmental Scientist II

THE PC

Freeport-McMoRan, Environmental Central Services

Work*: 575-912-5180* **Cell:** *575-654-4528*

From: Jeremiah Paul <jpaul@grantcountynm.gov>
Sent: Wednesday, February 4, 2026 2:40 PM
To: Ortiz, Angela <aortiz6@fmi.com>
Cc: Silk, Ellen <esilk@fmi.com>
Subject: Re: 1/2 mile radius

You don't often get email from jpaul@grantcountynm.gov. Learn why this is important

Hello

Sorry this took so long, it got busy here. Attached is the list of accounts within the public notice boundary. Let me know if this list works. There are two spreadsheets, the first one is just the data cleaned up a little from the GIS data, excluding the Mine property and removing duplicate accounts. The second spreadsheet is the data from the GIS.

Best Regards

On Wed, Feb 4, 2026 at 1:09 PM Ortiz, Angela <aortiz6@fmi.com> wrote:

> Hello,
>
> Here you go! We appreciate your prompt response, have a great day!
>
> Thank you,

Angela Ortiz

Sr. Administrative Assistant
Environmental Services

Chino Mines Company

Freeport-McMoRan
Cell: (575) 313-3090
aortiz6@fmi.com

From: Jeremiah Paul <jpaul@grantcountynm.gov>
Sent: Wednesday, February 4, 2026 1:07 PM
To: Silk, Ellen <esilk@fmi.com>
Cc: Ortiz, Angela <aortiz6@fmi.com>
Subject: 1/2 mile radius

Good Afternoon Ellen

I have a request for a list of property ownership within a half mile of your facility boundary for an air permit application. It seems like the request bounced around the county some and the boundary map was lost somewhere. Could you provide the boundary map from the original email, or a shapefile with the boundary?

Thank you

--

Jeremiah Paul

jpaul@grantcountynm.gov

(575) 574-0025

--

Jeremiah Paul

jpaul@grantcountynm.gov

(575) 574-0025

--

Jeremiah Paul
jpaul@grantcountynm.gov
(575) 574-0025

Name	Address	City	State	Zip Code
104 CACTUS LLC	11725 RINCON DR	WHITTIER	CA	90606
16 E INDIAN TRAIL LAND TRUST	2123 OLD SPARTANBURG RD, STE 184	GREER	SC	29650
1844 CASH OFFER LLC	PO BOX 2088	LITCHFIELD PARK	AZ	85340
ABALOS RICHARD E	PO BOX 321	HURLEY	NM	88043
ABALOS ROBERT S	PO BOX 619	HURLEY	NM	88043
ABEYTA SARAH S & RAY JASON JOSEPH SEDILLOS	PO BOX 468	SANTA CLARA	NM	88026
ABREU JOHN G ABREU YOLANDA C	3209 NEPTUNE DR	LAS CRUCES	NM	88012-7729
ACOSTA ADRIAN & ACOSTA SONIA	138 GERONIMO ST	HURLEY	NM	88043
ACOSTA GUSTAVO	723 GUINEVAN ST	BAYARD	NM	88023
ACOSTA YOLANDA L	PO BOX 403	BAYARD	NM	88023
ADAMS DENISE	PO BOX 1337	BAYARD	NM	88023
AGUILAR APOLONIO AND AGUILAR ROSINA	PO BOX 257	HURLEY	NM	88043
AGUILAR TED R & AGUILAR ROSE M U/C	1201 CENTRAL AVE	BAYARD	NM	88023
AGUILERA ALBERT L	3646 N 69TH AVE #73	PHOENIX	AZ	85033
AGUILERA ARMANDO & AGUILERA MANDA	PO BOX 651	HURLEY	NM	88043
AGUILERA FRANCISCO AGUILERA PILAR D	PO BOX 615	HURLEY	NM	88043
AGUILERA LILLY ORTIZ & FIERRO DANIEL JOSEPH	PO BOX 133	HURLEY	NM	88043
AGUILERA THELMA TRUJILLO	PO BOX 15	HANOVER	NM	88041
AGUIRRE AERYK	210 E ST	HURLEY	NM	88043
AGUIRRE ANTONIO	103 WILLOW ST	MORENCI	AZ	85540
AGUIRRE-GONZALES ALEJANDRO	#15 T & M DAIRY RD	HANOVER	NM	88041
AHLM CODY J	2104 N JUNIPER AVE	SILVER CITY	NM	88061
ALBERS CHRISTOPER W	PO BOX 2997	SILVER CITY	NM	88062
ALCAREZ MARGARET ETAL	803 ORANGE STREET	SANTA ANA	CA	92701
ALCORTA REINA & ROMERO JUAN JR	293 EAGLE DRIVE	DUNCAN	AZ	85534
ALDAY ARTURO M & GUADALUPE B	PO BOX 838	BAYARD	NM	88023
ALEXANDER AMBER	219 A ST	HURLEY	NM	88043
ALEXANDER JOHN SHELTON PATRICIA ANN	9 A ELGUEA	HURLEY	NM	88043
ALEXANDER PATRICIA A	9 A ELGUEA AVE	HURLEY	NM	88043
ALLEN WILLIAM	PO BOX 141	CHARLESTOWN	MD	21914
ALMARAZ GABRIELLE & CUHEN AMANDA	406 D ST	HURLEY	NM	88043
ALTAMIRANO ADAM ALTAMIRANO CAMILLE	301 D STREET	HURLEY	NM	88043
ALTOSA JIM ALTOSA DEE	PO BOX 932	HURLEY	NM	88043-0932
ALVARADO AMELIA	PO BOX 720	BAYARD	NM	88023
ALVARADO ANGEL B ALVARADO MANUELA A	PO BOX 590	BAYARD	NM	88023
ALVARADO ANTONIO S	PO BOX 42	BAYARD	NM	88023
ALVARADO BENJAMIN ALVARADO TERESA	1312 SW BUCHANAN ST	TOPEKA	KS	66604-2813
ALVARADO DELIA P	PO BOX 132	BAYARD	NM	88023
ALVARADO EDUARDO ARMIJO	PO BOX 44	SANTA CLARA	NM	88026-0044
ALVARADO JONATHAN R	115 S YUCCA ST	BAYARD	NM	88023
ALVARADO JOSHUA O ALVARADO ROBIN C	301 ELGUEA AVE	HURLEY	NM	88043
ALVARADO MARGARET	PO BOX 794	BAYARD	NM	88023
ALVARADO NORMA ANGELICA	PO BOX 421	BAYARD	NM	88023
ALVARADO PETRA O	PO BOX 225	BAYARD	NM	88023
ALVARADO ROSEMARY	PO BOX 767	BAYARD	NM	88023
ALVARADO SANDRA A	2311 RANCH CLUB RD PMB 156	SILVER CITY	NM	88061
ALVAREZ BARBARA & ALVAREZ ANTHONY	44 NORTH HURLEY RD	HURLEY	NM	88043
ALVAREZ DORA & ALVAREZ DANNY	10 MIRA LOMA RD	ARENAS VALLEY	NM	88022
ALVAREZ LOUIS S & ALVAREZ LISA M	PO BOX 221	HURLEY	NM	88043
ALVILLAR JESUS JOSE	PO BOX 860	BAYARD	NM	88023
ALVO ARTURO	PO BOX 560	BAYARD	NM	88023
ALVO CARLOS F & MAGDALENA R ETAL	PO BOX 88	BAYARD	NM	88023
AMADOR AARON	PO BOX 754	BAYARD	NM	88023
AMADOR BARBARA & CASTILLO JASMINE M	PO BOX 192	BAYARD	NM	88023
AMADOR CAMILLE	PO BOX 363	HANOVER	NM	88041
AMADOR DAVID	PO BOX 991	HURLEY	NM	88043
AMADOR ELIAS S AMADOR NATALIA A	PO BOX 447	HURLEY	NM	88043
AMADOR JOSE	602 E 34TH STREET	SILVER CITY	NM	88061
AMADOR UN MI	PO BOX 623	HURLEY	NM	88043
AMBRIZ CARLOS T	PO BOX 598	BAYARD	NM	88023
AMERICAN ANDALUSIAN ASSOCIATION	PO BOX 1290	SILVER CITY	NM	88062
ANDAZOLA ANTONIO L & ANDAZOLA SUZANNE G ET AL	422 POPLAR ST	BAYARD	NM	88023
ANDAZOLA CECILIA M	PO BOX 755	BAYARD	NM	88023
ANDAZOLA GREGORIO E ANDAZOLA DENISE R	PO BOX 815	HURLEY	NM	88043
ANDAZOLA JACOB RUBEN	10 DESERT ROSE LN	SILVER CITY	NM	88061
ANDAZOLA JERRY G ANDAZOLA JOSIE	PO BOX 61	BAYARD	NM	88023
ANDAZOLA TONY G JR LOGAN SANDRA D	408 N RAILROAD	BAYARD	NM	88023
ANDERSON KEN C	812 E PINE ST	SILVER CITY	NM	88061
APODACA RAQUEL M	PO BOX 45	HANOVER	NM	88041
APODACA RITO	PO BOX 402	BAYARD	NM	88023
APOSTOLIC ASSEMBLY OF THE FAITH IN CHRIST JESUS	PO BOX 1364	BAYARD	NM	88023
APOSTOLIC CHURCH	PO BOX 677	SANTA CLARA	NM	88026
ARAIZA HELEN & PAUL CANO JOAN ARAIZA	20 LEA DR	HURLEY	NM	88043
ARAIZA JOCLYN N	208 B STREET	HURLEY	NM	88043
ARCIERO LEOPOLDO ETAL	PO BOX 563	BAYARD	NM	88023
ARCIERO MARIA ARCIERO VANESSA M	263 THORN AVE APT C	EL PASO	TX	79932
ARCIERO MARIE E ARCIERO MICHAEL B	PO BOX 5	HANOVER	NM	88041
ARCIERO ROSEMARY D	PO BOX 1022	BAYARD	NM	88023
ARELLANO GARY & ARELLANO LUCILLE	619 LUSK ST	BAYARD	NM	88023
ARELLANO GARY ARELLANO LUCILLE	PO BOX 487	BAYARD	NM	88023
ARIAS BEATRICE H	PO BOX 205	BAYARD	NM	88023
ARIAS CONSUELO G	PO BOX 1348	BAYARD	NM	88023
ARIAS DAVID & ARIAS EILEEN	PO BOX 1091	SANTA CLARA	NM	88026
ARIAS MARY LOU G	PO BOX 145	VANADIUM	NM	88023
ARIAZA ARTURO D	PO BOX 702	HURLEY	NM	88043
ARMENDARIZ DENELLE	PO BOX 669	BAYARD	NM	88023
ARMENDARIZ EDDIE J & ARMENDARIZ MARY	PO BOX 1132	KEARNEY	AZ	85237
ARMIJO DARLENE LANNETTE BARELA DENISE JEANETTE	PO BOX 670	BAYARD	NM	88023
ARMIJO ZACHARY	216 ROMERO AVE	SANTA CLARA	NM	88026
ARNSPIGER DOLA JANE	29 HOT SPRINGS CANYON	SAN LORENZO	NM	88041

Name	Address	City	State	Zip Code
ARREDONDO CRESENCIO & ARREDONDO VERONICA L	902 ROGERS STREET	BAYARD	NM	88023
ARREDONDO SANTIAGO & ARREDONDO BARBARA	1416 LEAD ST.	LORDSBURG	NM	88045
ARREY ALBERT N & MARY ANN	65280 EAST ROSE RIDGE COURT	TUCSON	AZ	85739
ARREY AMANDA L	203 N MAIN ST	BAYARD	NM	88023
ARREY EDDIE ARREY REINA	PO BOX 953	BAYARD	NM	88023
ARREY-LOPEZ FRANCES & ARREY GUADALUPE T	PO BOX 36	MIMBRES	NM	88049
ARTHUR LOREE ANN	115 ELGUEA AVE	HURLEY	NM	88023
ARZATE HECTOR O	610 GUIVEVAN ST	BAYARD	NM	88023
ARZOLA ANGEL C ARZOLA YVONNE P	210 N YUCCA STREET	BAYARD	NM	88023
ARZOLA MICHAEL E	PO BOX 708	BAYARD	NM	88023
ARZOLA REUBEN C JR	PO BOX 382	HURLEY	NM	88043
AUBRY LAURA & DEMARS-CONOLY CHARLES W	208 PINE ST	BAYARD	NM	88023
AVILA NARCISO L	PO BOX 618	BAYARD	NM	88023
AVILUCEA EMILIA A	PO BOX 1476	BAYARD	NM	88023
AVILUCEA MARTINA	4140 W CONEFLOWER LN	SANTAN VALLEY	AZ	85142
BABCOCK PETER JAYNES	900 WAGGONER ST	BAYARD	NM	88023-9802
BACA ANTONIA G & BACA RUDY P ET AL	PO BOX 578	HURLEY	NM	88043
BACA EDDIE J JR	4597 RIMROCK COURT	LAS CRUCES	NM	88012
BACA ELIJAH R	3 PATTIE AVE	HURLEY	NM	88043
BACA GUADALUPE	708 LUSK STREET	BAYARD	NM	88023
BACA JIMMY C BACA DELLA P	PO BOX 842	HURLEY	NM	88043
BACA ROBERT & WALTON BACA ELIZABETH	201 AZTEC	HURLEY	NM	88043
BACHMAIER WILLIAM	PO BOX 308	SILVER CITY	NM	88062
BADILLO JESUS & ARELLANO AIYANA	PO BOX 101	BAYARD	NM	88023
BAGLEY ROBERT E BAGLEY SANDRA K	PO BOX 316	HANOVER	NM	88041
BALDWIN KATHERINE ANN & BALDWIN JEFFERY JOHN	4618 PRAIRE TRAIL	PRESCOTT	AZ	86301
BARELA BENJAMIN J & BARELA MARTA R	7921 N PATRICK HENRY PL	TUCSON	AZ	85751
BARELA STELLA M	992 IVORY ROAD SE	RIO RANCHO	NM	87124
BARKER JOHN M	315 PATTIE AVE	HURLEY	NM	88043
BARNES RORY C & FISHER SHAR	106 PATTIE AVE.	HURLEY	NM	88043
BARRAGAN ARLENE	701 LUSK ST	BAYARD	NM	88023
BARRALL GEORGE & BARRALL PAMELA S	6952 GRANDWOOD WAY	SAN JOSE	CA	95120
BARRAZA BRANDI	PO BOX 538	SILVER CITY	NM	88062
BARRAZA LUPE & ESCARCEGA JOSE M	PO BOX 1151	BAYARD	NM	88023
BARRAZA MARTHA BARRAZA KANDICE	710 FAHEY ST	BAYARD	NM	88023-9737
BARRENO DANIEL BARRENO JENNY	PO BOX 429	SANTA CLARA	NM	88026
BARRERA JOSE BARRERA CARMEN	PO BOX 847	BAYARD	NM	88023
BARROW PEGGY CLYDEON ETAL	PO BOX 501	PINETOP	AZ	85935
BARTELS JANINE R	PO BOX 244	HURLEY	NM	88043-0526
BARTLETT BERNARD BARTLETT REBECCA H	PO BOX 733	HURLEY	NM	88043
BASKE DELBERT M BASKE MARLENE G	34 PATAGONIA LN	ANIMAS	NM	88020
BATES RICHARD O	PO BOX 32	HURLEY	NM	88043
BAXTER JASON	16 ACORN DR	SILVER CITY	NM	88061
BAYARD CHURCH BUILDING FUND	PO BOX 213	BAYARD	NM	88023
BAYARD LIONS CORPORATION	PO BOX 16	BAYARD	NM	88023
BEEMAN KAY L	PO BOX 121	HURLEY	NM	88043
BEERS JOHN THOMAS	621 E APACHE ST	SILVER CITY	NM	88061
BEGAY NELLIE & SAM JENNY A	PO BOX 1225	BAYARD	NM	88023
BEILUE SAM L & FLOYD, ELIZABETH	PO BOX 716	HURLEY	NM	88043
BENAVIDEZ CYNTHIA J & BENAVIDEZ MARGE	5541 EAST COPPER STREET	TUCSON	AZ	85712
BENAVIDEZ JAMES M & BENAVIDEZ STEPHANY N	37 LEA DRIVE	HURLEY	NM	88043
BENCOMO TERESA & BARELA RUTH	PO BOX 466	BAYARD	NM	88023
BERNAL ARARATH GAXIOLA	304 SANTA RITA AVE	HURLEY	NM	88043
BERNAL LOUIS M BERNAL MARY HELEN	719 WINIFRED STREET	BAYARD	NM	88023
BERNSTEIN STACEY	214 ROMERO AVE	HURLEY	NM	88043
BERRY JACQUE E	PO BOX 451	HURLEY	NM	88043
BERRY SONDRA LEE	PO BOX 552	HURLEY	NM	88043
BLACK LARRY DAVID	713 WINIFRED ST	BAYARD	NM	88023-9730
BLACKMAN DAWNA J		HANOVER	NM	88041
BLACKMAN ERIC	11891 HWY 180	ARENAS VALLEY	NM	88022
BLAGG DOUGLAS S & BLAGG KAREN R	78 SPRING CREEK RD	SILVER CITY	NM	88061
BLAKES LOTABURGER LLC	3205 RICHMOND DR NE	ALBUQUERQUE	NM	87107
BLEVINS RAYCA & BLEVINS BRADFORD THOR	PO BOX 2825	SILVER CITY	NM	88062
BLOUNT AMANDA LEA	PO BOX 131	BAYARD	NM	88023
BONNER ARLENE S	301 AZTEC	HURLEY	NM	88043
BOOTZIN JAMES	316 RED ROCK ROAD	SILVER CITY	NM	88061
BORUNDA ALBERT BORUNDA GENVIEVE	PO BOX 92	HANOVER	NM	88041
BORUNDA HENRY A & BORUNDA ELSA A	PO BOX 383	HURLEY	NM	88043
BOTHROYD STERLING & DRAKE RAVEN	PO BOX 25	BAYARD	NM	88023
BRADBERRY ROBERT K & BAUMBAUGH TAMI OLENE	PO BOX 881	HURLEY	NM	88043
BRADBURY FAMILY REVOCABLE LIVING TRUST	31525 LARGA VISTA	VALLEY CENTER	CA	92082
BREED LAURA M	PO BOX 54	HANOVER	NM	88041
BREWER JOHN R & BREWER LYNDA L	PO BOX 122	HURLEY	NM	88043
BREWER JOYCE V ET AL	302 ANZA ST	HURLEY	NM	88043
BRINDLEY RAYMOND D JR BRINDLEY DARLENE A	PO BOX 922	HURLEY	NM	88043
BRITE ALTON HOWARD JR & BRITE DEBORAH R	4920 E MASSEY RIDGE PLACE	TUCSON	AZ	85756
BRITTON RANDAL W & BRITTON OLIVIA C	PO BOX 2531	SILVER CITY	NM	88062
BROOKS JESSICA Y	202 PATTIE AVE	HURLEY	NM	88043-9715
BROWN ALEX BROWN REBECCA	PO BOX 398	HURLEY	NM	88043
BROWN ERROL T & CLINTON AMANDA	312 ANZA ST	HURLEY	NM	88043
BROWN MICHAEL J & BRADDOCK MARY B	PO BOX 194	BAYARD	NM	88023
BRUEMMER DEAN R & BRUEMMER ISAAC	17 JACKASS LN	MIMBRES	NM	88049
BUBNICH TERRY MICHAEL	12 PATTIE AVE	HURLEY	NM	88043
BURNARD RUSSELL J & HEADTKE JENNIFER E TRUST	PO BOX 2746	SEWARD	AK	99664
BURNETTE JR BURNETTE KAREN N	P.O. BOX 953	HURLEY	NM	88043
BUSHEY BRADFORD A & BUSHEY SHERI R	PO BOX 544	HURLEY	NM	88043
BUSTAMANTE JESSE & VENTURA	PO BOX 593	HURLEY	NM	88043
BUSTAMANTE MICHAEL , SONIA	4010 GRANDE VISTA BLVD. APT. 118	SAINT AUGUSTINE	FL	32084
BUTIKOFER GORDON	313 CHINO ST	BAYARD	NM	88023
BUTTERFIELD SHELLY D	2004 DELK DR	SILVER CITY	NM	88061

Name	Address	City	State	Zip Code
BYINGTON DAVID NELSON	PO BOX 854	HURLEY	NM	88043
CABRERA GABRIEL M & CABRERA ASHLEY B	PO BOX 416	BAYARD	NM	88023
CABRERA PAUL M CABRERA DELIA M	PO BOX 263	BAYARD	NM	88023
CABRERA SAMMY M CABRERA BARBARA G	203 NEVADA AVE	HURLEY	NM	88043
CAIN JAMES STEPHEN	405 E ST	HURLEY	NM	88043
CAINE KEN WINSTON	315 ELGUEA AVE	HURLEY	NM	88043
CALDERA ALBERTO CALDERA DEBRA A	PO BOX 691	BAYARD	NM	88023
CALL MARION L CALL LYNDA S	PO BOX 1014	HURLEY	NM	88043
CALLAWAY RALPH CHARLES	PO BOX 75	HANOVER	NM	88041-0075
CAMPOS RAMON P CAMPOS ROSE MARIE	209 A STREET	HURLEY	NM	88043
CANDELARIA ANTONIO H & CANDELARIA SYLVIA O	412 N RAILROAD STREET	BAYARD	NM	88023
CANDELARIA MICHELLE	508 C ST	HURLEY	NM	88043
CANO RITA	711 FAHEY	BAYARD	NM	88023
CANO ROGELIO Q	400 MAIN ST	BAYARD	NM	88023
CAPACH KENNETH NORMAN	PO BOX 84	BAYARD	NM	88023
CARABAJAL FLORA	PO BOX 276	BAYARD	NM	88023
CARBAJAL ERNESTO	8370 NEEDLESS EYE RD SE	DEMING	NM	88030
CARBAJAL FRANK CARBAJAL ALVINO C/O	1304 BOSTON	LAS CRUCES	NM	88001
CARBAJAL JEFF A CARBAJAL RACHEL H	PO BOX 1375	BAYARD	NM	88023
CARDOZA LUIS S	2101 PINON ST	SILVER CITY	NM	88061
CARDOZA LUIS S & CARDOZA ROWENA A	2101 PINON STREET	SILVER CITY	NM	88061
CARRASCO DANIEL H	PO BOX 215	HURLEY	NM	88043
CARRASCO DWAYNE	PO BOX 495	BAYARD	NM	88023
CARRASCO PATSY A CARRASCO SAMUEL C	603 1/2 TAYLOR ST	BAYARD	NM	88023
CARRASCO RUBEN C CARRASCO ERMA	PO BOX 1011	BAYARD	NM	88023
CARRASCO SAMMY C CARRASCO PATSY A	603 1/2 TAYLOR STREET	BAYARD	NM	88023
CARREON GRACIELA	PO BOX 1334	COLUMBUS	NM	88029
CARREON JUAN A & CARREON MARY A	PO BOX 597	BAYARD	NM	88023
CARREON-ALTAMIRANO ROSALINDA & RAUL JR	PO BOX 245	DONA ANA	NM	88032
CARRILLO ROBERT J CARRILLO YVONNE A	PO BOX 426	BAYARD	NM	88023
CARRILLO TOMAS U ETAL	PO BOX 354	BAYARD	NM	88023
CARTER RALPH JESUS & CARTER MARIE ETHEL	801 BENJAMIN STREET	BAYARD	NM	88023
CASAREZ FAMILY TRUST	706 BARD STREET	BAYARD	NM	88023
CASSEL BRETT WAYLAND	PO BOX 267	HURLEY	NM	88043
CASTANEDA BENJAMIN	1208 CENTRAL AVE	BAYARD	NM	88023
CASTANON DAVID A CASTANON ARLENE O	PO BOX 814	SANTA CLARA	NM	88026
CASTANON DAVID M CASTANON VIRGINIA R	PO BOX 1001	BAYARD	NM	88023
CASTANON PAUL	PO BOX 845	HURLEY	NM	88043-0845
CASTILLO ANA L & JOHNSON ANA L	5798 ORGAN PEAK	LAS CRUCES	NM	88012
CASTILLO ANGELA T CASTILLO ERIC	PO BOX 274	HURLEY	NM	88043
CASTILLO CORINA NICOLE	PO BOX 127	SANTA CLARA	NM	88026
CASTILLO HELEN RIOS	PO BOX 506	BAYARD	NM	88023
CASTILLO ISAAC	620 TAYLOR STREET	BAYARD	NM	88023
CASTILLO ISRAEL	PO BOX 980	BAYARD	NM	88023
CASTILLO ISRAEL C & CASTILLO ANNA LIZA	PO BOX 1296	SANTA CLARA	NM	88026
CASTILLO JOE R CASTILLO IRENE	PO BOX 235	BAYARD	NM	88023
CASTILLO MARTHA	27736 WEST FRONTAGE ROAD	SANTA FE	NM	87507
CASTILLO RODOLFO L & DOLORES, MONICA	704 FAHEY STREET	BAYARD	NM	88023
CASTILLO ROSEMARY G	PO BOX 315	BAYARD	NM	88023
CASTILLO RUDY C	173 RACETRACK ROAD	ARENAS VALLEY	NM	88022
CASTRO RUDY & EATON SUMMER	607 S STATE STREET	DEMING	NM	88030
CATES ASHLEY & CATES AMBER	4000 FLYNN ST. #83	BELLINGHAM	WA	98229
CATES SYDNEY CATES EDITH	PO BOX 644	MIMBRES	NM	88049
CATHOLIC DIOCESE OF LAS CRUCES	1280 MEDPARK DRIVE	LAS CRUCES	NM	88005
CHACON DAVID G & CHACON REGINA C	1024 CALLE DE SUENOS	SANTA FE	NM	87507
CHACON EVA S CHACON SERAPIO	PO BOX 104	TUCUMCARI	NM	88401
CHACON JOHN L & CHACON IRENE D	618 TAYLOR ST	BAYARD	NM	88023
CHACON LUPE M	PO BOX 821	BAYARD	NM	88023
CHANEZ CORNELIO T	PO BOX 893	HURLEY	NM	88043
CHANEZ REYNALDO T CHANEZ OLIVIA	PO BOX 803	HURLEY	NM	88043
CHAPPELL FRANCIS	PO BOX 457	HURLEY	NM	88043
CHAVEZ ALFRED C	PO BOX 13	BAYARD	NM	88023
CHAVEZ ALFRED L	PO BOX 248	BAYARD	NM	88023
CHAVEZ ANDY CHAVEZ EDELIA	PO BOX 355	HANOVER	NM	88041
CHAVEZ ARNOLD M CHAVEZ ALICE R	PO BOX 27	ELIZABETH	LA	70638
CHAVEZ ARTHUR ALTAMIRANO	199 N HURLEY RD	HURLEY	NM	88043
CHAVEZ CAROLINA HOLGUIN	PO BOX 1191	BAYARD	NM	88023
CHAVEZ ERICA R	PO BOX 414	BAYARD	NM	88023
CHAVEZ GLORIA	PO BOX 569	BAYARD	NM	88023
CHAVEZ ISAAC	PO BOX 664	HURLEY	NM	88043
CHAVEZ ISAAC & CHAVEZ TONI	104 RIDGEVIEW DR	HEPHZIBAH	GA	30815
CHAVEZ JESUS Z CHAVEZ MARIA ELENA C	105 MAIN ST	BAYARD	NM	88023
CHAVEZ JOSEPH	90 NORTH HURLEY RD	HURLEY	NM	88043
CHAVEZ JOSEPH & MARRUFO ANGELINA	90 NORTH HURLEY RD	HURLEY	NM	88043
CHAVEZ JULIE IRENE	715 TAYLOR ST	BAYARD	NM	88023
CHAVEZ MANUEL M	PO BOX 624	HURLEY	NM	88043
CHAVEZ MARY VERONICA	PO BOX 259	HURLEY	NM	88043
CHAVEZ OLGA V	PO BOX 709	BAYARD	NM	88023
CHAVEZ RACHEL	PO BOX 272	BAYARD	NM	88023
CHAVEZ RAYMOND & CHAVEZ CHRISTINA	PO BOX 111	HURLEY	NM	88043
CHAVEZ RAYMOND H CHAVEZ MARIE	PO BOX 239	HURLEY	NM	88043
CHAVEZ RICHARD B & CHAVEZ ELOISA	2125 PINON ST	SILVER CITY	NM	88061
CHAVEZ RICHARD H JR	14 ROMERO	HURLEY	NM	88043
CHAVEZ RONALD M & CHAVEZ CATALINA F	110 C STREET	HURLEY	NM	88043
CHAVEZ RUFINA A CHAVEZ LARRY A	RR 1 BOX 159-A	HURLEY	NM	88043
CHAVEZ RUFINA ETAL	RT 1 BOX 159A	HURLEY	NM	88043
CHAVEZ TED LOERA JULIE M	PO BOX 292	HANOVER	NM	88041
CHAVIRA EDNA MARIE	PO BOX 721	BAYARD	NM	88023
CHAVIRA JOSEPH G & SEDILLOS LINDA Q	PO BOX 85	SANTA CLARA	NM	88026
CHAVIRA LORRAINE & MARTINEZ PETER	1519 LOREN LN	GILBERT	AZ	85296

Name	Address	City	State	Zip Code
CHAVIRA LUCY	PO BOX 11	HURLEY	NM	88043
CHAVIRA WILFRED	PO BOX 266	HURLEY	NM	88043
CHILDS PERRY & ATWATER STEPHANIE	PO BOX 643	BAYARD	NM	88023
CHINO FEDERAL CREDIT UNION	9 HILL ST.	HURLEY	NM	88043
CHRISTOPHER COLEMAN & LYNETTE	PO BOX 907	HURLEY	NM	88043
CHURCH OF CHRIST	PO BOX 1393	BAYARD	NM	88023
CITY OF BAYARD	PO BOX 728	BAYARD	NM	88023
CLAIR GLENN NEIL	718 ROYAL ST	BAYARD	NM	88023-9773
CLANTON JIMMY W & CLANTON PATRICIA	105 NEVADA AVE	HURLEY	NM	88043
CLARK MICHAEL D CLARK YVONNE E	15 CARRASCO AVE.	HURLEY	NM	88043
COBRE CONSOLIDATED SCHOOL DIST 2	PO BOX 1000	BAYARD	NM	88023
COBRE PROPERTY & EQUITY LLC	PO BOX 1395	SILVER CITY	NM	88062
COLLIE STEPHEN D & MOSELEY SUSAN LEE	20 RAINBOW RD	SAN LORENZO	NM	88041
CONKLIN ARLENA A	PO BOX 625	HURLEY	NM	88043
CONTOR NICHOLAS C CONTOR VERGENA H	404 S RAILROAD ST	BAYARD	NM	88023
COOK GEORGE & COOK JUANITA	PO BOX 1215	BAYARD	NM	88023
COOK RICHARD E COOK EVA KAY	305 ELGUEA	HURLEY	NM	88043
CORDOVA ADAM GREGORY	PO BOX 465	TYRONE	NM	88065
CORDOVA FRANCISCO A CORDOVA LUCILLE T	705 TAYLOR STREET	BAYARD	NM	88023
CORIA BELEN T & VALADEZ ANA M	4328 EAST NANCY LN	PHOENIX	AZ	85042
CORLISS CHARLIE R	9824 HWY 180 WEST	SILVER CITY	NM	88061
CORREA EMMA C WILLIE JOHN C & LOPEZ MARY E	PO BOX 97	BAYARD	NM	88023
CORTEZ ANDRE SAIZ & MARTINEZ MARIA	305 FRAN DR	HURLEY	NM	88043
CORTEZ ROBERT M	102 C ST	HURLEY	NM	88043
COSTELLO MAUREEN	9 PATTIE AVE	HURLEY	NM	88043
COUNTY OF GRANT	PO BOX 898	SILVER CITY	NM	88062
COVERSTON DONALD JR	PO BOX 981	BAYARD	NM	88023
COWLES FAMILY TRUST	4201 CORBETT DR, APT 205	FORT COLLINS	CO	80525
COX H R FAMILY TRUST	PO BOX 1916	DEMING	NM	88031
CRAVENS ROMA JEAN	604 WINIFRED ST	BAYARD	NM	88023
CRAWFORD DEAN W CRAWFORD IRIS	313 ELGUEA ST	HURLEY	NM	88043
CRESPIN SELINA M	713 ROGERS ST	BAYARD	NM	88023
CRISWELL DEAN	PO BOX 617	TYRONE	NM	88065
CRISWELL PATRICK H & CRISWELL JANET M	PO BOX 73	HURLEY	NM	88043
CROW KEVIN D CROW CAROLYN GALE	211 NEVADA AVE	HURLEY	NM	88043-9718
CROW MARY BETH	306 PATTIE AVE	HURLEY	NM	88043
CRUZ ALEJANDRA	5 REALTA DR	SILVER CITY	NM	88061
CRUZ JENNY	102 NEVADA ST	HURLEY	NM	88043
CRUZ JUAN MARTIN ALVARADO & ALVARADO MARIA	PO BOX 483	BAYARD	NM	88023
CUEVAS VIRGINIA T	PO BOX 1161	BAYARD	NM	88023
DALTON ALFONSO JR DALTON RUTH P	PO BOX 1483	BAYARD	NM	88023
DAMJO LLC U/C	PO BOX 446	BAYARD	NM	88023
DAVIS JERRY & DAVIS KAYLEEN ET AL	PO BOX 631	HURLEY	NM	88043
DAWSON LONNIE L	PO BOX 727	HURLEY	NM	88043
DAY NANETTE	112 CARRASCO AVE	HURLEY	NM	88043
DE LA TORRE ELICIA	PO BOX 187	MIMBRES	NM	88049
DE LA TORRE GILBERT DE LA TORRE TERRI A	PO BOX 332	BAYARD	NM	88023
DE LA TORRE LORENZA	PO BOX 724	BAYARD	NM	88023
DE LA TORRE VICENTE T & DE LA TORRE SYLVIA S	PO BOX 653	BAYARD	NM	88023
DE LEON LIONEL & DE LEON SUSAN	4020 JOSEFITA RD SE	DEMING	NM	88030
DE LUNA GERALD D & FAUDOA GLORIA	PO BOX 783	SANTA CLARA	NM	88026
DEAN CLARA BACA	PO BOX 647	HURLEY	NM	88005
DEAN FREDDIE S & ESTELLA DEAN	PO BOX 558	BAYARD	NM	88023
DEAN JAMES B DEAN TAMMY J	PO BOX 1624	SILVER CITY	NM	88062
DEAN ROBERT DEAN ISABEL J	PO BOX 165	BAYARD	NM	88023
DEANDA RODOLFO	1320 TORRANCE AVE	SUNNYVALE	CA	94089
DEBARR ANTONIA RODRIQUEZ	1930 S BROADWAY ST	T OR C	NM	87901-3112
DEFAUSELL IRMA J	PO BOX 178	BAYARD	NM	88023
DEGENEVIEVE KAREN	5407 HWY 152	HANOVER	NM	88041
DELGADO ANGIE G	PO BOX 528	SANTA CLARA	NM	88026
DELGADO CONSUELO A	PO BOX 464	BAYARD	NM	88023
DELGADO DANIEL G DELGADO SOCORRO I	4331 DESERT BLOOM DRIVE	LAS CRUCES	NM	88007
DELGADO FABIAN & DELGADO MAYRA	PO BOX 86	BAYARD	NM	88023
DELGADO RALPH P	51 W ERIC DORMAN ST	VAIL	AZ	85651
DELGADO TRUST	PO BOX 1179	BAYARD	NM	88023
DENTON ELIZABETH ANN	PO BOX 1312	BAYARD	NM	88023
DIAZ JEROME & TORRES VALERIE LUCERO	507 C ST	HURLEY	NM	88043
DIAZ JOSE L DIAZ JUDITH A	PO BOX 829	BAYARD	NM	88023-0829
DIAZ MARY LOU DIAZ BRIAN	2201 WILD OAK CRESCENT	VIRGINIA BEACH	VA	23456
DIAZ MIGUEL	PO BOX 650	BAYARD	NM	88023
DIAZ PATRICIA K DIAZ EDDIE J	27505 N FELIX RD	FLORENCE	AZ	85132
DILLARD NINA & SILAGY KENNETH	213 CARRASCO AVE	HURLEY	NM	88043
DISCLAIMER TRUST	PO BOX 159	LORDSBURG	NM	88045
DIXON JOHN	PO BOX 531	SANTA CLARA	NM	88026
DOBSON BRIAN G ET AL	RRI BOX 70 14 GERONIMO ST	HURLEY	NM	88043
DODSON DONALD DODSON WANDA	5038 MONTEZUMA AVE	LAS CRUCES	NM	88011
DOMINGUEZ ALBERT	4828 WHISPERING HILLS	SILVER CITY	NM	88061
DOMINGUEZ CHARLES DANIEL	PO BOX 4039	SILVER CITY	NM	88061
DOMINGUEZ JERARDO	16610 COBALT COURT	CHINO HILLS	CA	91709
DOMINGUEZ JUAN SILVA	56 NORTH HURLEY ROAD	HURLEY	NM	88043
DOMINGUEZ MARY CHRISTINA RODRIGUEZ	1600 WINIFRED	BAYARD	NM	88023
DOMINGUEZ RANDALL J & PRISCILLA M	158 N HURLEY RD	HURLEY	NM	88043
DOMINGUEZ SUSANO S DOMINGUEZ HECTOR S	6230 W GEORGIA AVENUE	GLENDALE	AZ	85301
DOVE CODY L	608 1/2 NORTH STREET	BAYARD	NM	88023
DRAPER CHRIS & DRAPER AMANDA	PO BOX 337	HURLEY	NM	88043
DRIVER DONALD A & DRIVER MARGARET FRANCES	5855 HWY 152	HANOVER	NM	88041
DUARTE ANABEL LUAB & LUAB PIA	PO BOX 645	BAYARD	NM	88023
DUARTE GEORGE T	PO BOX 509	BAYARD	NM	88023
DUARTE ROBERT & DUARTE APRIL	2401 JOHNSON RD	SILVER CITY	NM	88061
DUNAGAN GLORIA V	PO BOX 833	BAYARD	NM	88023

Name	Address	City	State	Zip Code
DUNAWAY JACK H DUNAWAY STEPHANIE H	PO BOX 725	HURLEY	NM	88043
DURAN GILBERT & DURAN SYLIVA A ET AL	4518 E COOPER ST	TUCSON	AZ	85711
DURAN JENNIFER NICOLE	PO BOX 2732	SILVER CITY	NM	88061
DURAN ROGELIO AND DURAN GLORIA G	PO BOX 1153	BAYARD	NM	88023
DURHAM CLYDE S	PO BOX 153	BAYARD	NM	88023
DUSABLON PAUL R JR & DUSABLON PAUL II	99 MULBERY DRIVE	MANY	LA	71449
DUVALL ROY C & SALCIDO BENIGNA A	PO BOX 163	HURLEY	NM	88043
EBY COLTER & EBY ANISSIA MARIE GONZALES	503 C STREET	HURLEY	NM	88043
EBY LARRY & EBY ROSE ANN	PO BOX 305	TONTO BASIN	AZ	85553
EDWARDS SHERRY REVOCABLE TRUST	806 VIRGINIA ST	BAYARD	NM	88023
EKINS RICHARD P	206 AZTEC AVE	HURLEY	NM	88043
ELLIOTT AMANDA	PO BOX 774	HURLEY	NM	88043
ELLIS TOM	PO BOX 27111	EL PASO	TX	79926
ENCINAS EDWARD & ARENIBAS ROCKY ET AL	PO BOX 342	HURLEY	NM	88043
ENRIQUEZ CONSEPCION TREJO ETAL	904 ROGERS ST	BAYARD	NM	88023
EPPERSON JANE H	19 TALISSA DRIVE	SILVER CITY	NM	88061
ESCOBAR ADAM	1339 W CALLE RIO ROJO	TUCSON	AZ	85714-1173
ESCOBAR ALEX L ESCOBAR DORA G	PO BOX 1145	BAYARD	NM	88023
ESCOBAR EMITERIO A & PATRICIA & CUHEN ERNEST	108 S YUCCA	BAYARD	NM	88023
ESCUDERO LARRY L ESCUDERO BARBARA	PO BOX 589	BAYARD	NM	88023
ESPARZA ERNESTO T	7130 CORTLAND AVENUE	PARAMOUNT	CA	90723
ESPARZA ERNESTO T ET AL	7130 CORTLAND AVE	PARAMOUNT	CA	90723
ESPARZA SHAWN & FRANCISCO NICOLE	PO BOX 1118	BAYARD	NM	88023
ESPINOSA DANIEL	102 HURLEY AVE APT 2	BAYARD	NM	88023
ESPINOSA MARGARET L & ESPINOSA DANIEL	5400 PLAINVIEWDRIVE	EL PASO	TX	79924
ESQUEDA BALDOMERO S ESQUEDA VIRGINIA	PO BOX 903	BAYARD	NM	88023
ESQUEDA GEORGE L ESQUEDA AURELIA B	PO BOX 543	BAYARD	NM	88023
ESQUEDA JOHNNY A ESQUEDA MARGARITA	PO BOX 852	BAYARD	NM	88023
ESTRADA JUAN M ESTRADA ALICE T	PO BOX 974	BAYARD	NM	88023
ESTRADA OTILEA D	PO BOX 1237	BAYARD	NM	88023
ESTRADA STEPHEN & ESTRADA GENEVIEVE	600 N CANYON ST	BAYARD	NM	88023
EVANS DAVID L & NANCY LIVING TRUST	12449 HWY 180 EAST	HURLEY	NM	88043
FACIO MARTIN FACIO BERNARDO	2214 S SLATE ST	DEMING	NM	88030
FALLON DOROTHY P	PO BOX 1	SANTA CLARA	NM	88026
FARR ILA FAY & COOK EVA KAY ET AL	305 ELGUEA ST	HURLEY	NM	88043
FAUSTINO GABRIEL & LUIS & DIANA	112 CANYON	BAYARD	NM	88023
FEDERAL NATIONAL MORTGAGE ASSOCIATION	14221 DALLAS PARKWAY SUITE 1000	DALLAS	TX	75254-2916
FELIX ROBERT FELIX SAMUEL	PO BOX 473	HURLEY	NM	88043
FERREL ESTHER R	PO BOX 745	SANTA CLARA	NM	88026
FETTY TONY J	5701 JESSICA CT NW	ALBUQUERQUE	NM	87120
FIERRO CONCEPCION & FIERRO ELIZABETH ET AL	PO BOX 126	BAYARD	NM	88023
FIERRO JAMIE	PO BOX 373	HANOVER	NM	88041
FIGUEROA ROBERT A DOMINGUEZ DOMINIQUE V	PO BOX 831	BAYARD	NM	88023
FILKINS LAURA N FILKINS LARRY	PO BOX 186	HURLEY	NM	88043
FINIK JOHN M	9 CERRO ST	HANOVER	NM	88041
FIRST BAPTIST CHURCH OF BAYARD NEW MEXICO	PO BOX 99	BAYARD	NM	88023
FISHER TROY & SMITH ALLYSIA	PO BOX 278	HURLEY	NM	88043
FLEMING JAMES U JR REVOCABLE LIVING TRUST	1800 US HIGHWAY 180E	SILVER CITY	NM	88061
FLETCHER MICHAEL D	PO BOX 336	BAYARD	NM	88023
FLETCHER RICHARD A	PO BOX 182	SANTA CLARA	NM	88026
FLETCHER WILLIE J & cHARLENE & WILLIE JR	PO BOX 324	BAYARD	NM	88023
FLORES ADAM C & FLORES ALICE C	PO BOX 511	SANTA CLARA	NM	88026
FLORES CORRINE & FLORES VIVIAN R	1878 HWY 180 E	SILVER CITY	NM	88061
FLORES DAVID C & VEGA SOFIA	PO BOX 220	BAYARD	NM	88023
FLORES FELIX C	PO BOX 549	BAYARD	NM	88023
FLORES FRANCINE G & FLORES PAT G	PO BOX 376	BAYARD	NM	88023
FLORES FRANK C JR	PO BOX 636	BAYARD	NM	88023
FLORES MELANIE C FLORES JOSE	PO BOX 805	BAYARD	NM	88023
FLORES R AIDAN U/C	PO BOX 771	SANTA CLARA	NM	88026
FLORES RICHARD ROMERO ROSA	211 ELGUEA AVE	HURLEY	NM	88043
FLORES ROY C	PO BOX 394	HANOVER	NM	88041
FORD ELIZABETH A	4 ELGUEA AVE	HURLEY	NM	88043
FOY JAMES B & FOY VALVINA A	PO BOX 1341	SILVER CITY	NM	88062
FRANCISCO NELSON & JANNIE	PO BOX 943	BAYARD	NM	88023
FRANTOM ROBBIE & FRANTOM MARTHA	127 GERONIMO ST	HURLEY	NM	88043
FRASER RYAN ANDREW	16 ELGUEA AVE	HURLEY	NM	88043
FREEMAN DANIEL K	2291 HIGHWAY 61	SAN LORENZO	NM	88061
GABAREE LORENZA S GABAREE STEVEN M	BOX 1184	BAYARD	NM	88023
GABAREE STEVEN & GABAREE LORENZA	PO BOX 1184	BAYARD	NM	88023
GADE ALICE R	110 E ST	HURLEY	NM	88043
GAHESADA LLC	5 YUCCA VALLEY	ARENAS VALLEY	NM	88022
GALINDO ARMANDO & MARIA ELENA	340 SKYVIEW DR	SILVER CITY	NM	88061
GALINDO VICKI	2416 VILLAGE DRIVE	SILVER CITY	NM	88061
GALLAGHER TAUNA KAY	PO BOX 841	HURLEY	NM	88043
GALLARDO DEBRA I & ROBERT M GALLARDO ET AL	PO BOX 391	HURLEY	NM	88043
GALLARDO JOSIE G	PO BOX 489	BAYARD	NM	88023
GALLEGOS JOE S JR	BOX 87	VANADIUM	NM	88023
GALLEGOS SEVERO H & GALLEGOS MARTHA G	PO BOX 112	BAYARD	NM	88023
GANDARA MARY ANN MARTINEZ & MARTINEZ ANTHONY	160 SOUTH ST	LA UNION	NM	88021
GARAY GUADALUPE & GARAY SUSAN	104 MOMSEN ST	BAYARD	NM	88023
GARCIA ABRAHAM A	2809 SAN MIGUEL CT.	LAS CRUCES	NM	88007
GARCIA ANGELINA T GARCIA ALONZO T & RENE T	3035 TERRACE DR #301	LAS CRUCES	NM	88011
GARCIA BERNIE & LILLY	7614 S 13TH PLACE	PHOENIX	AZ	85042
GARCIA CARMEN M ETAL	PO BOX 95	BAYARD	NM	88023
GARCIA CELIA (SALLY) L VEGA DOLORES M	202 B ST	HURLEY	NM	88043
GARCIA CHRISTAL TALAMANTES	603 ENCINO ST	SANTA CLARA	NM	88026
GARCIA CYNTHIA	7743 BAIRNSDALE ST	DOWNEY	CA	90240
GARCIA DANIEL G & GARCIA MONA TRUJILLO	PO BOX 2752	LAS CRUCES	NM	88004
GARCIA GLORIA G	BOX 103	VANADIUM	NM	88023
GARCIA GREG & AMADOR CAMILLE	1835 S PICACHO HWY	PICACHO	AZ	85141

Name	Address	City	State	Zip Code
GARCIA IRENE L	PO BOX 568	BAYARD	NM	88023
GARCIA JEREMY A	121 W DANIEL STREET	SILVER CITY	NM	88061
GARCIA JUANITA F & MARTINEZ THOMAS GILBERT	505 EMPIRE ST	BAYARD	NM	88023
GARCIA MANUEL JOSE	PO BOX 340	BAYARD	NM	88023
GARCIA MARY ELLEN & GARCIA PATRICK V	PO BOX 470	BAYARD	NM	88023
GARCIA RUTH O	PO BOX 411	BAYARD	NM	88023
GARCIA STEVEN	627 FALLON AVE	SANTA CLARA	CA	95050
GARCIA TRINIDAD P	240 ARENAS VALLEY ROAD	SILVER CITY	NM	88061
GARDNER JEREMY L	4510 N. SWAN	SILVER CITY	NM	88061
GARZA RICARDO E II & RODRIGUEZ VALERIE L	710 WINIFRED ST	BAYARD	NM	88023
GAVALDON ERNESTO TRUST	703 N ST	BAYARD	NM	88023
GAVALDON JOSE & APODACA KAREN	880 DESERT SENNA AVE SW	LOS LUNAS	NM	87031
GAVALDON LYDIA ET AL	PO BOX 500	BAYARD	NM	88023
GAYDOS LINDA F	315 ANZA	HURLEY	NM	88043
GDL FAMILY IRREVOCABLE TRUST AGREEMENT	15058 LEAF LANE	VICTORVILLE	CA	92394
GEARY SYLVIA M ET AL	PO BOX 751	BAYARD	NM	88023
GIAMBERNARDI VIRGIL E FAMILY TRUST	PO BOX 866	BAYARD	NM	88023
GIGGER BEVERLY J	BOX 311	HURLEY	NM	88043
GILBERT JOHN R JR GILBERT KATHIE S	3451 URSA MINOR	SILVER CITY	NM	88061
GILSOUL LAURENCE P	25 LEA DRIVE	HURLEY	NM	88043
GIUSTO MICHAEL R	620 APACHE CIRCLE	SILVER CITY	NM	88061
GODBOUT BRYAN M	904 BLACKHAWK ST	BAYARD	NM	88023
GODFREY KIM K	PO BOX 2816	SILVER CITY	NM	88062
GODOY FRANK R GONZALES JOVITA G	PO BOX 356	BAYARD	NM	88023
GODOY IRENE F & GODOY SAMUEL ANTHONY ET AL	708 ROGERS ST	BAYARD	NM	88023
GOE GLORIA I	PO BOX 64	HURLEY	NM	88043
GOLDEN VALLEY LLC	4065 E UNIVERSITY DR., LOT 253	MESA	AZ	85205
GOMEZ ASHLEY P	3100 TAHITI ST NE	ALBUQUERQUE	NM	87111
GOMEZ DANIEL P	17136 ATHOL ST	FONTANA	CA	92335
GOMEZ DANIEL U/C	43 LEA DRIVE	HURLEY	NM	88043
GOMEZ ELMO M	82 SHASTA ST	SILVER CITY	NM	88061
GOMEZ EVA A	2382 BARCLAY CT	LAS CRUCES	NM	88001
GOMEZ FELIPE S ET AL	PO BOX 522	SANTA CLARA	NM	88026
GOMEZ JEFFREY STEPHEN	6815 S 5TH AVE	TUCSON	AZ	85756
GOMEZ JEFFREY U/C	PO BOX 231	BAYARD	NM	88023
GOMEZ MAURO A	2705 W HADLEY AVE	LAS CRUCES	NM	88007
GOMEZ MICHAEL R GOMEZ CARMEN	BOX 718	BAYARD	NM	88023
GOMEZ MICHAEL R GOMEZ CARMEN A	PO BOX 718	BAYARD	NM	88023
GOMEZ RUBEN & GOMEZ YVONNE	PO BOX 1285	BAYARD	NM	88023
GOMEZ RUBEN R & GOMEZ JOSE LUIS SR	PO BOX 630	BAYARD	NM	88023
GOMEZ SAM	62 N HURLEY RD	HURLEY	NM	88043
GOMEZ SAM & GOMEZ LISA	62 N HURLEY ROAD	HURLEY	NM	88043
GONZALES ALEJANDRO G ET AL	502 EMPIRE ST	BAYARD	NM	88023
GONZALES ALFONSO P JR GONZALES PATRICIA I	PO BOX 565	SANTA CLARA	NM	88026
GONZALES ALFREDO C GONZALES MARY ANN	PO BOX 823	BAYARD	NM	88023
GONZALES ANDREW DIAZ	620 GUINEVAN ST	BAYARD	NM	88023
GONZALES ANISSIA M	PO BOX 695	HURLEY	NM	88043
GONZALES ANTHONY P PENA ELAINE M	PO BOX 1263	SANTA CLARA	NM	88026
GONZALES DAVID C	PO BOX 697	HURLEY	NM	88043
GONZALES DONALD A	761 SPEAR DRIVE	SILVER CITY	NM	88061
GONZALES ELOY M & GONZALES ANNIE G	PO BOX 62	BAYARD	NM	88023
GONZALES ESTER & GONZALES SANDRA	PO BOX 43	HURLEY	NM	88043
GONZALES FRED J & GLORIA & YVETTE	806 EMPIRE STREET	BAYARD	NM	88023
GONZALES GILBERT H GONZALES ANTONIA	720 FAHEY ST	BAYARD	NM	88023
GONZALES JENARO & VALENTINA	PO BOX 1016	BAYARD	NM	88023
GONZALES JESUS A	105 A STREET	HURLEY	NM	88043
GONZALES JOSE GABRIEL & VALENTINA	118 S FRANEY STREET #1016	BAYARD	NM	88023
GONZALES JOVITA G	BOX 356	BAYARD	NM	88023
GONZALES MANUEL DAVID L	PO BOX 286	HURLEY	NM	88043
GONZALES MARIA INEZ	306 B ST	HURLEY	NM	88043
GONZALES MARK ETAL	616 BARD ST	BAYARD	NM	88023
GONZALES MELISSA KELLY	700 LUSK ST	BAYARD	NM	88023
GONZALES MIKE S & EBY ANISSIA M GONZALES	503 C STREET	HURLEY	NM	88043
GONZALES REINA H	4243 DOWNING	BALDWIN PARK	CA	91706
GONZALES SELAH LEE	208 N YUCCA ST	BAYARD	NM	88023
GONZALES VIOLET	PO BOX 203	HURLEY	NM	88043
GONZALEZ FRED A & GONZALEZ ADELINA D	PO BOX 579	BAYARD	NM	88023
GONZALEZ GUILLERMO "WILLIE" & VIRGINIA REVOCABLE TRUST	PO BOX 1363	BAYARD	NM	88023
GONZALEZ JORDAN SR	598 YUCCA	BAYARD	NM	88023
GONZALEZ LOREN P GONZALEZ TAMMY L	PO BOX 303	HURLEY	NM	88043
GONZALEZ MARTHA GONZALEZ ROBERT	TRUCK BYBASS #56, UNIT 3 #12	SILVER CITY	NM	88061
GOOD JULIE B	700 N BULLARD	SILVER CITY	NM	88061
GOODYEAR CHARLES & GOODYEAR VICTORIA	11837 HWY 180 E	AREANS VALLEY	NM	88022
GOODYEAR HAROLD L & GOODYEAR GERRI D	18 POP MORRISON ST	HURLEY	NM	88043
GRADO CYNTHIA L & GRADO MANUEL C ET AL	119 E BUCKEY ST	DEMING	NM	88030
GRADO MICKEY F & GRADO CHRISTINE	5114 COTTONWOOD RD	SILVER CITY	NM	88061
GRANADINO AMELIA P GRANADINO FRANK P JR	95 NORTH HURLEY ROAD	HURLEY	NM	88043
GRANADOS DIANA O	1318 W 19TH PL	SAFFORD	AZ	85546
GRANILLO ROBERT ALLEN & COURTNEY NICHOLE	PO BOX 323	BAYARD	NM	88023
GRANT COUNTY	1400 HIGHWAY 180 EAST	SILVER CITY	NM	88061
GRAY BARRY G & DURAN MARISELA	2340 HWY 180 E #275	SILVER CITY	NM	88061
GRAY BONNIE L	PO BOX 817	HURLEY	NM	88043
GRAY DUANE A GRAY DRURY E	PO BOX 785	HURLEY	NM	88043
GRAY ELIZABETH J U/C	PO BOX 977	BAYARD	NM	88023
GRAY JOANN	7 CALLE DE SUENOS	ALAMOGORDO	NM	88310
GRAZIANO PATRICIA O	PO BOX 349	HURLEY	NM	88043
GREENLEE VIRGINIA B	107 D ST	HURLEY	NM	88043
GRIEGO RUBEN LEE REVOCABLE TRUST	PO BOX 364	SANTA CLARA	NM	88026
GRIFFIN PAMA LA REE	113 PATTI ST	HURLEY	NM	88043
GRIGGS LEO C JR GRIGGS ROSEANNE E	104 CARRASCO STREET	HURLEY	NM	88043

Name	Address	City	State	Zip Code
GRIJALBA WILLIAM H	22 KNEELING NUN RD	HANOVER	NM	88041
GRIJALVA AMBER LYNN	161 RACETRACK RD	ARENAS VALLEY	NM	88022
GRIJALVA FAMILY REVOCABLE TRUST	5799 HWY 152	HANOVER	NM	88041
GRIJALVA JUSTIN & GRIJALVA RACHEL	1719 W. PLACITA DEL CODILLO	SAHUARITA	AZ	85629
GRIJALVA RAMONA M	PO BOX 207	HURLEY	NM	88043
GRIJALVA ROSEMARY	5791 HWY 152	HANOVER	NM	88041
GRUSH GRAYDON & GRUSH CANDY JOINT LIVING TRUST	500 S 37TH STREET APT 503	OMAHA	NE	68105
GUADIANA RUBEN	2425 LITTLE WALNUT RD	SILVER CITY	NM	88061
GUERRA JESSE C	219 CULVER BLVD	PLAYA DEL REY	CA	90293
GUERRA JESSE C REVOCABLE TRUST	6039 LINDA WAY	CULVER CITY	CA	90230
GUERRERO GILBERT C GUERRERO THEODORA	PO BOX 218	BAYARD	NM	88023
GUERRERO ROSARIO	1029 W WEBB DR	SAN MANUEL	AZ	85631
GUERRERO SAMANTHA RENEE	PO BOX 527	HURLEY	NM	88043
GUILD RICHARD	2340 HIGHWAY 180 E, PMB 234	SILVER CITY	NM	88061
GULICK ADAM T	5805 HWY 152	HANOVER	NM	88041
GULJAS ANDREW	317 PERU	BAYARD	NM	88023
GULJAS FREDERICK J	317 PERU ST	BAYARD	NM	88023
GUNTER ELVIRA	BOX 954	HURLEY	NM	88043
GURLEY TERRENCE & GURLEY NANCY	PO BOX 190	MIMBRES	NM	88049
GUTIERREZ ARLENE M SPURGEON CHETMAN	PO BOX 519	HURLEY	NM	88043
GUTIERREZ ARTHUR J SR GUTIERREZ ROSEMARY L	0 PATTIE ST	HURLEY	NM	88043
GUTIERREZ CARMEN R MISQUEZ- ET AL	PO BOX 175	BAYARD	NM	88023
GUTIERREZ GILBERT G & GUTIERREZ CATALINA M	407 E. ST.	HURLEY	NM	88043
GUTIERREZ JOE F	306 E STREET	HURLEY	NM	88043
GUTIERREZ JOHN L	2405 N SWATHMORE ST	SILVER CITY	NM	88061
GUTIERREZ MARLEY	113 FIERRO RD	HANOVER	NM	88041
GUTIERREZ MARY LOU	306 E ST	HURLEY	NM	88043
GUTIERREZ MERLINDA & PADILLLA BERNICE ET AL	PO BOX 318	HURLEY	NM	88043
GUTIERREZ ROSEMARY E & GUTIERREZ JANICE E	PO BOX 202	BAYRAD	NM	88023
GUTIERREZ YOLANDA & GUTIERREZ ROSE ANN	11674 HWY 180 E	SILVER CITY	NM	88061
GVOZDENOVIC JOVAN	314 CORTEZ AVE	HURLEY	NM	88043
HAAN SARAH KATHERINE	PO BOX 2841	SILVER CITY	NM	88062
HAGAMAN ALLEN HAGAMAN ROSE E	2865 W IRVINGTON RD	TUCSON	AZ	85746
HALES DOUGAN J U/C	800 WATSON ST	BAYARD	NM	88023
HANOVER MUTUAL DOMESTIC WATER ASSOCIATION	PO BOX 38	HANOVER	NM	88041
HARRIS MILTON GLENN & HARRIS DEBRA ANN	8736 W HANSURY RD	MARANA	AZ	85653
HAUSERMANN JOHN Y	PO BOX 1386	BAYARD	NM	88023
HAWKINS BETH EST	P.O. BOX 2911	SILVER CITY	NM	88061
HECKLER TREVOR J	12 CORTEZ AVE	HURLEY	NM	88043
HELLYER ROJEAN	34 CR 640 #12	GRANBY	CO	80446
HELTON RICHARD	PO BOX 864	HURLEY	NM	88043
HELTON RICHARD A HELTON NANCY L	PO BOX 298	HURLEY	NM	88043
HENDERSON KERRI	PO BOX 65	BAYARD	NM	88023
HEREDIA JOHN C & HEREDIA CAROL	PO BOX 68	SANTA CLARA	NM	88026
HERNANDEZ EUGENE F & HERNANDEZ KATHY E ET AL	326 PALMER RD	LAS CRUCES	NM	88005
HERNANDEZ JOE M HERNANDEZ DORA G	PO BOX 773	SANTA CLARA	NM	88026
HERNANDEZ MICHAEL A & HERNANDEZ YVONNE	PO BOX 761	BAYARD	NM	88023
HERNANDEZ MIGUEL B & HERNANDEZ LUCY O	PO BOX 548	BAYARD	NM	88023
HERNANDEZ MIGUEL P & VICENTA CONNIE & ELOY C/O	PO BOX 607	BAYARD	NM	88023
HERNANDEZ ROY J HERNANDEZ KIM A	102 N FRANEY	BAYARD	NM	88023
HERRERA CHARLES & HERRERA STACY	394 MARISA CT	LAS CRUCES	NM	88007
HERRERA CRYSTAL	PO BOX 2	BAYARD	NM	88023
HERRERA JENNY	18 LEA DR	HURLEY	NM	88043
HERRERA KATHLEEN E REVOCABLE TRUST U/C	PO BOX 322	BAYARD	NM	88023
HERRERA LOUIS J & TORRES MARIE ANTONETTE	PO BOX 840	BAYARD	NM	88023
HERRERA MARIA DEL CARMEN U/C	PO BOX 516	HURLEY	NM	88043-0516
HERRERA RAY C HERRERA BETTY C	PO BOX 1165	BAYARD	NM	88023
HILER RICHARD A HILER LILLIAN M	4911 W ODELL DRIVE	WEST VALLEY CITY	UT	84120
HILL MICHAEL D	300 CHIHUAHUA ST	SILVER CITY	NM	88061
HINES WILLIE S HINES K CHRISTINE	PO BOX 413	HURLEY	NM	88043
HINOJOSA EMILIA SALAIZ KELLY H	5477 HWY 152	HANOVER	NM	88041
HODINA JOHN	6 PATTIE AVE	HURLEY	NM	88043
HOLDERFIELD JAMES M HOLDERFILED ANTOINETTE N	PO BOX 223	HURLEY	NM	88043
HOLGOIN MANUEL M	411 MAPLE ST	BAYARD	NM	88023
HOLGUIN ALBERT S	PO BOX 238	HURLEY	NM	88043
HOLGUIN ARCILIA	122 ROE DEER CT	LAS CRUCES	NM	88007
HOLGUIN CARMEN G HOLGUIN BEATRIZ ADRIANA	11050 MONTANA AVE APT 9101	EL PASO	TX	79936
HOLGUIN JANET M & HOLGUIN JAVIER T JR	PO BOX 384	BAYARD	NM	88023
HOLGUIN JAVIER T JR & HOLGUIN JANET MARIE S	PO BOX 384	BAYARD	NM	88023
HOLGUIN MARGARET M	312 S ROMERO AVE	HURLEY	NM	88043
HOLGUIN MARIA E	PO BOX 185	BAYARD	NM	88023
HOLGUIN MELINDA MARIE	710 BARD ST	BAYARD	NM	88023
HOLGUIN NORA & BENAVIDEZ BELINDA	1294 ONEDA DR	LAS CRUCES	NM	88005
HOLGUIN RAUL & HOLGUIN LENA	630 COUNTRY CLUB DRIVE	SILVER CITY	NM	88061
HOLGUIN RAUL F	2643 SPORTING HILL BRIDGE RD	THOMPSONS STATION	TN	37179
HOLGUIN REINALDO L JR	259 PEARL DR NE	RIO RANCHO	NM	87124
HOLGUIN SENAIDA	PO BOX 1322	BAYARD	NM	88023
HOLGUIN VICTOR W HOLGUIN ESTHER F	214 ARIZONA STREET	HURLEY	NM	88043
HOLGUIN YVONNE F	904 1/2 WATSON STREET	BAYARD	NM	88023
HOLLAND CHERYL L	3309 CORONA DR NW	ALBUQUERQUE	NM	87120
HOLLAND ESPERANZA	PO BOX 513	BAYARD	NM	88023
HOLLAND SALLY ANN	PO BOX 743	BAYARD	NM	88023
HOLMGREN BRAD	723 ROYAL STREET	BAYARD	NM	88023-9773
HOOD CHARLES R & HOOD TERRY C	PO BOX 227	HURLEY	NM	88043
HORCASITAS YOLANDA F	PO BOX 1365	BAYARD	NM	88023
HORVATH JULIANE & CASTILLO PASCUAL R	2213 HIGHWAY 61	SAN LORENZO	NM	88041
HOULD PRESTON & KIMBERLY REVOCABLE TRUST	3600 BROKEN ARROW DR	SILVER CITY	NM	88061
HUBBARD CHARLES E	PO BOX 437	BAYARD	NM	88023
HUERTA ERNESTO HUERTA OLGA	109 C STREET	HURLEY	NM	88043
HUERTA RICHARD C HUERTA DELILAH G	111 A STREET	HURLEY	NM	88043

Name	Address	City	State	Zip Code
HUERTA TOMMY REVOCABLE TRUST	PO BOX 923	BAYARD	NM	88023
HUFFMAN RODGER L & HUFFMAN MICHELE K A	35 LAMP BRIGHT RD.	HANOVER	NM	88041
HUGHES EDGAR O JR	PO BOX 951	HURLEY	NM	88043
HUMBLE MARGARET L & TRUJILLO JOSEPH R	611 N CANYON RD	BAYARD	NM	88023
HUMBLE MARGARET L U/C	PO BOX 183	HURLEY	NM	88043
HUMBLE TERRENCE M & HUMBLE ARTEMISA B	PO BOX 879	BAYARD	NM	88023
HURLEY COMMUNITY CHURCH	PO BOX 875	HURLEY	NM	88043
HURLEY DEVELOPMENT LLC	8939 S EISENHOWER RD	TUCSON	AZ	85750
HURTADO RAMON A	HC 136 HAHA HWY	HANA	HI	96713
HYSO MARY PLACIDA	202 C STREET	HURLEY	NM	88043
IBARRA CRYSTAL & MARIN DEBRA O	05 CAMINO VERDE	ARENAS VALLEY	NM	88022
ICE LYDIA	PO BOX 699	BAYARD	NM	88023
INIGUEZ PEDRO & KATHLEEN ZAMORA DE	17 MESQUITE DRIVE	SILVER CITY	NM	88061
IRREVOCABLE NORTH HURLEY PROPERTY TRUST	10 GERONIMO	NORTH HURLEY	NM	88043
IVANIC NICHOLAS C & IVANIC-LOBATO TINA M	112 B ST	HURLEY	NM	88043
JACKSON HELEN F	4 PATTIE AVE	HURLEY	NM	88043-9713
JACQUEZ JULIAN J JACQUEZ RITA M	PO BOX 808	HURLEY	NM	88043
JAMESON CHARLES W JR	PO BOX 261	HURLEY	NM	88043-0261
JARAMILLO DAVID S JR & KATHERINE B ET AL	PO BOX 662	HURLEY	NM	88043
JARAMILLO SAMUEL	PO BOX 1584	SILVER CITY	NM	88061
JAURE JULIAN	PO BOX 1298	BAYARD	NM	88023
JAUREGUI DAVID R JAUREGUI ALICE V	PO BOX 463	HURLEY	NM	88043
JAUREGUI FELIPE JAUREGUI SUSIE	PO BOX 872	BAYARD	NM	88023
JAUREGUI RAFAEL III	PO BOX 801	BAYARD	NM	88023
JAUREQUI ERMALINDA B	PO BOX 707	HURLEY	NM	88043
JAUREQUI MAGDALENA RODRIGUEZ	PO BOX 843	BAYARD	NM	88023
JAURIQUI ADRIAN & ELISA R REVOCABLE TRUST	BOX 81	BAYARD	NM	88023
JAURIQUI GILBERT	PO BOX 704	BAYARD	NM	88023
JAURIQUI ROSA R	PO BOX 154	BAYARD	NM	88023
JEWELL CASSANDRA RJ	614 BARD ST	BAYARD	NM	88023
JIMENEZ ALBERT JIMENEZ MARTHA	BOX 791	BAYARD	NM	88023
JIMENEZ ALBERTO A JIMENEZ MARTHA C	PO BOX 791	BAYARD	NM	88023
JIMENEZ AMY J	PO BOX 144	BAYARD	NM	88023
JIMENEZ ANTHONY G	3202 N ROYALL DR	SILVER CITY	NM	88061
JIMENEZ FATIMA	PO BOX 572	BAYARD	NM	88023
JIMENEZ MANUEL & JIMENEZ ROSE & JIMENEZ LIZA	PO BOX 1135	BAYARD	NM	88023
JIMENEZ TIMOTHY E & JIMENEZ MARTHA E	PO BOX 34	SANTA CLARA	NM	88026
JOHNSON JENNIFER	618 LUSK ST	BAYARD	NM	88023
JOHNSON RAY W JR & PEGGY	5007 EAST SHOMI STREET	PHOENIX	AZ	85044
JONES CURTIS G	5845 HIGHWAY 152	HANOVER	NM	88041
JONES GREGORY SCOT	6 ZINC HILL RD	HANOVER	NM	88041
JONES JEFFERY N	101 B STREET	HURLEY	NM	88043
JUAREZ MARGARITA BEATRIZ	PO BOX 1202	BAYARD	NM	88023
JUAREZ MIGUEL A & JUAREZ LORRAINE E	5408 BRIDGEWOOD DR	KILLEEN	TX	76549
KAFCO U/C	PO BOX 1196	BAYARD	NM	88023
KAILING ANN LYNNE	PO BOX 602	BAYARD	NM	88023
KASTEN BRETT KASTEN GRETA JO	PO BOX 100	BAYARD	NM	88023
KD PROPERTIES LLC	4101 N SWAN STREET	SILVER CITY	NM	88061
KELLEPOUREY KARLA	415 POPLAR STREET	BAYARD	NM	88023
KELLEY KENT	101 N FRANEY	BAYARD	NM	88023
KELLY KATHERINE	706 LUSK ST	BAYARD	NM	88023
KENNETT FRANK D	422 MAPLE ST	BAYARD	NM	88023
KETUSKY EDWARD H KETUSKY TAMELA S	20 COTTONWOOD	HURLEY	NM	88043
KILGORE SAVANNE	PO BOX 125	HURLEY	NM	88043
KING CARLTON B	208 N MAIN STREET	BAYARD	NM	88023
KIRK IRMA D & CLARK MICHAEL D & CLARK YVONNE E	#15 CARRASCO AVE	HURLEY	NM	88043
KIRKER ANDY ET AL	BOX 10	SILVER CITY	NM	88061
KIRKER ARTHUR T & KIRKER MARY LOU V	PO BOX 581	SANTA CLARA	NM	88026
KIRKER JULIE	PO BOX 1233	BAYARD	NM	88023
KIRKER MARY GRACE ET AL	2 REDWOOD CIR	SILVER CITY	NM	88061
KIRKER NORMA & KIRKER JOHN JOEL	5608 PRAIRIE FALCON ST	LAS CRUCES	NM	88012
KISHBAUGH BETH	PO BOX 432	BAYARD	NM	88023
KNIGHT FAMILY TRUST	PO BOX 422	SILVER CITY	NM	88062
KNIGHT SANDRA J	PO BOX 485	HURLEY	NM	88043
KOKOPELLI ENTERPRISES INC U/C	PO BOX 1262	BAYARD	NM	88023
KRAUSE PATRICK ALAN	700 ROGERS STREET	BAYARD	NM	88023
KUHLENBECK KRISTINA M & RUSCOE CHRISTOPHER	404 N RAILROAD	BAYARD	NM	88023
LADY OF FATIMA PARISH INC	PO BOX 1425	BAYARD	NM	88023
LAKEVIEW LOAN SERVICING LLC	8950 CYPRESS WATERS BOULEVARD	COPPELL	TX	75019
LALANNE RICHARD E	615 BRUCE STRACENER RD	DERIDDER	LA	70634
LAMOND ALAN & LAMOND ALISON M	367 LAWRENCE RD 128	RAVENDEN	AR	72459
LAMOREAUX EDWIN	PO BOX 31	HURLEY	NM	88043
LANDERS CODY & LANDERS DAMARIS	PO BOX 72	HURLEY	NM	88043
LANEY PAUL JAMES & LANEY LAURA ANN	906 ROGERS ST	BAYARD	NM	88023
LANGLEY JAMES E	1 ELGUEA AVE	HURLEY	NM	88043
LANGLEY TIERRA KAY	PO BOX 374	BAYARD	NM	88023
LARA JOE P	319 S MESA ST	DEMING	NM	88030
LASHLEY JOHN R & LASHLEY DAWN LEE	6262 N CAMINO VERDE	TUCSON	AZ	85743
LATHAM LLOYD G SR LATHAM PAMELA ROGERS	2117 S IRVING AVE	TUCSON	AZ	85711
LATHROP JOHN	PO BOX 174	VANADIUM	NM	88023
LAWRENCE CECILIA	PO BOX 1222	BAYARD	NM	88023
LAWRENCE DAVID	2525 N VALLEY DR	LAS CRUCES	NM	88007
LAWRENCE JACOB P & LAWRENCE JANELLE M	PO BOX 508	BAYARD	NM	88023
LAWS RICHARD BODINE & LAWS TANYA A	PO BOX 412	BAYARD	NM	88023
LAWS TANYA	3625 LITTLE WALNUT RD	SILVER CITY	NM	88061
LAZZELL GABRIEL MICHAEL	PO BOX 2001	SILVER CITY	NM	88061
LE HONG THI TUYET	1310 N SWAN ST	SILVER CITY	NM	88061
LECHUGA DELIA	PO BOX 853	BAYARD	NM	88023
LECHUGA LOUIS A & LECHUGA VANESSA L	PO BOX 668	BAYARD	NM	88023
LEE JAMES	PO BOX 124	HANOVER	NM	88041

Name	Address	City	State	Zip Code
LEES GLENN W	58 HARRINGTON RD	BROAD	CT	6016
LEGARDA ALFRED B & ALFRED C LEGARDA RUTH C	2000 GLASS RD	LAS CRUCES	NM	88005
LEGARDA ALFREDO B LEGARDA BERTHA C	PO BOX 954	BAYARD	NM	88023
LEGARDA DANNY & LEGARDA CHERYL	PO BOX 964	BAYARD	NM	88023
LEGARDA ERNEST LEGARDA JOANN	PO BOX 967	BAYARD	NM	88023
LEGARDA RODOLFO T & LEGARDA TAMATHA G	PO BOX 1141	BAYARD	NM	88023
LEGARDA SALVADOR B	PO BOX 1211	BAYARD	NM	88023
LEGARDA STEPHANIE R	PO BOX 665	HURLEY	NM	88043
LENTE VERNON	PO BOX 611	SANTA CLARA	NM	88026
LEWIS DAVID L & ROBIN P NORERO LISA A C/O	PO BOX 820	BAYARD	NM	88023
LEWIS VIRGINIA L LEWIS RODGER V	411 SANTA RITA AVE	HURLEY	NM	88043
LEYBA DAVID L	PO BOX 732	BAYARD	NM	88023
LIBERTY 1 LLC	PO BOX 40130	TUCSON	AZ	85719
LICON RODRIGO	408 OAK	BAYARD	NM	88023
LIEBHART STEVE A & LIEBHART SHERYL L	HC 71 BOX 1249	FAYWOOD	NM	88034
LIGHTHOUSE BAPTIST CHURCH	PO BOX 924	HURLEY	NM	88043
LIZARRAGA ENRIQUE GARATE	PO BOX 696	BAYARD	NM	88023
LOAFMAN DIANA P	407 W DECLAN CRT	NIXA	MO	65714
LOPEZ (JOEY) JOSEPH J & LOPEZ ELAINE M	102 EAST 18TH ST	SILVER CITY	NM	88061
LOPEZ CARMEN T	PO BOX 648	BAYARD	NM	88023
LOPEZ DEANDRA S	418 MAPLE ST	BAYARD	NM	88023
LOPEZ JOE M	BOX 1035	BAYARD	NM	88023
LOPEZ JOHNNY J	429 MAPLE ST	BAYARD	NM	88023
LOPEZ JOSE REYES JR LOPEZ IRMA	8440 E MESETO CIRCLE	MESA	AZ	85209-7312
LOPEZ JUAN V LOPEZ DEBRA E	PO BOX 1485	BAYARD	NM	88023
LOPEZ KENNETH J & LOPEZ DEE M	PO BOX 1326	BAYARD	NM	88023
LOPEZ LINDA C REVOCABLE TRUST	PO BOX 1479	BAYARD	NM	88023
LOPEZ MARGARET J	PO BOX 2954	SILVER CITY	NM	88061
LOPEZ MARIA FELIX & SILVAS DIANA	#9 LEA DRIVE	HURLEY	NM	88043
LOPEZ MARY MICHELLE JAQUEZ	313 JUDITH ANN CT	LAS VEGAS	NV	89110-5523
LOPEZ NATASHA RENEE	PO BOX 74	BAYARD	NM	88023
LOPEZ PAZ C & LOPEZ ROSARIO M & FLORES CARLA	311 NEVADA AVE	HURLEY	NM	88043
LOPEZ ROBERTO R & ROSEMARY LOPEZ ROBERT M	PO BOX 184	BAYARD	NM	88023
LOPEZ SALVADOR & LOPEZ KATHLEEN	#4 KOHDY LANE	ARENAS VALLEY	NM	88022
LOPEZ SALVADOR Q	HC 31 BOX 4	LAS VEGAS	NM	87701
LOPEZ SANTIAGO O LOPEZ SYLVIA	PO BOX 377	HURLEY	NM	88043
LOVATO GERALD D LOVATO PAM Y	13 SANTA RITA AVE	HURLEY	NM	88043
LOZANO JOEY MARK	719 GUINEVAN ST	BAYARD	NM	88023
LOZANO MICHAEL PAUL & LOZANO VIRGINIA ANN ET AL	116 PATTIE AVE	HURLEY	NM	88043
LOZANO MIGUEL E LOZANO HECTOR C & RACHEL O	8525 S THUNDERBIRD	SAFFORD	AZ	85546
LUAB PIA	94-312 HANQWAI CIRC	WAIPAHU	HI	96797
LUCERO ANTHONY JR LUCERO DENISHA A	PO BOX 1024	BAYARD	NM	88023
LUCERO AUSTIN DAKOTA JUA	PO BOX 1255	BAYARD	NM	88023
LUCERO CARLOS P LUCERO DOLORES A	PO BOX 246	HURLEY	NM	88043
LUCERO JOSIE	PO BOX 673	BAYARD	NM	88023
LUCERO MANUEL LUIS TELLES RITA L	16682 N VERNON DRIVE	TUCSON	AZ	85739
LUCERO RAMEN	PO BOX 693	HURLEY	NM	88043
LUCERO RAMON L LUCERO LUCY	PO BOX 449	BAYARD	NM	88023
LUCERO ROBERT R	12 HERMOSA ST	SAN LORENZO	NM	88041
LUNA LINDA J	PO BOX 53	HANOVER	NM	88041
LUNA RICHARD G ET AL	PO BOX 114	HURLEY	NM	88043
LYNN EUGENE	4649 HIGHWAY 15	SILVER CITY	NM	88061
MABERRY JOHN H MABERRY JUANITA H	PO BOX 1462	BAYARD	NM	88023
MACIAS ISABEL A	PO BOX 672	BAYARD	NM	88023
MACIAS PATRICIA	PO BOX 1354	BAYARD	NM	88023
MACIVER JAMES S	316 ANZA STREET	HURLEY	NM	88043
MADRID ANTOINETTE	PO BOX 832	HURLEY	NM	88043
MADRID BILLY JOE & MONTES MICHELLE A	PO BOX 312	HURLEY	NM	88043
MADRID FRANCES & MADRID NICHOLAS ANTHONY ET AL	PO BOX 255	BAYARD	NM	88023
MADRID KODIAK	705 BARD ST	BAYARD	NM	88023
MADRID MATEO V JR	PO BOX 862	HURLEY	NM	88043
MADRID PABLO MADRID ELOISA	722 TAYLOR	BAYARD	NM	88023
MADRID RAMONA O ETAL MADRID PEDRO O	BOX 363	BAYARD	NM	88023
MADRID TERESA S	PO BOX 921	BAYARD	NM	88023
MALDONADO EDDIE & MALDONADO FELICIA	PO BOX 1204	BAYARD	NM	88023
MALDONADO MANUEL J & LUCERO LUCIA L	PO BOX 523	HURLEY	NM	88043
MALDONADO MARY & LUPE	PO BOX 1299	BAYARD	NM	88023
MALDONADO VELIA D & DIAZ RAUL V & DIAZ MICHELLE A	800 E LORI PLACE	SILVER CITY	NM	88061
MANNING TRACY E	PO BOX 392	CLIFF	NM	88028
MARES ROBERT L & MARES MARTHA	PO BOX 1203	BAYARD	NM	88023
MARIA ALEJANDRA SANTA & MARIA LUCINDA SANTA ET AL	302 CHINO ST	BAYARD	NM	88023
MARIN GABRIEL G MARIN VERONICA L	PO BOX 674	BAYARD	NM	88023
MARIN GENARO TOBIAS IV	00 PATTIE AVE	HURLEY	NM	88043
MARIN GRACE P ET AL	PO BOX 603	HURLEY	NM	88043
MARIN JOE J MARIN BERTHA C	214 PATTIE AVE	HURLEY	NM	88043
MARQUEZ CARMEN R MARQUEZ FERNANDO R	PO BOX 985	BAYARD	NM	88023
MARQUEZ DOLORES G	PO BOX 1125	BAYARD	NM	88023
MARQUEZ EMMA M	PO BOX 341	BAYARD	NM	88023
MARQUEZ ERMINIA D	6875 COYOTE RD	LAS CRUCES	NM	88012
MARQUEZ GILBERT F OR MARQUEZ ROBERT F JR	PO BOX 909	BAYARD	NM	88023
MARQUEZ LORENZO H MARQUEZ OFELIA O	PO BOX 632	BAYARD	NM	88023
MARQUEZ LORENZO M MARQUEZ NATALIA S	206 SANTA RITA AVE	HURLEY	NM	88043
MARQUEZ MARTHA V	PO BOX 242	BAYARD	NM	88023
MARQUEZ RALPH D MARQUEZ NANCY V	708 MCKEE ST	BAYARD	NM	88023
MARQUEZ RAMON R JR	PO BOX 1612	ESPANOLA	NM	87532
MARQUEZ RICHARD EDWARD & MARQUEZ KATRINA ANTOINETTE	PO BOX 358	HURLEY	NM	88043
MARQUEZ RUDY M	201 E STREET	HURLEY	NM	88043
MARQUEZ TANYA & MARQUEZ REYNALDO B ET AL	PO BOX 279	BAYARD	NM	88023
MARRUFO LORETTA LYNN T	PO BOX 147	BAYARD	NM	88023
MARRUFO MELISSA MARIE SANDOVAL ET AL	PO BOX 804	HURLEY	NM	88043

Name	Address	City	State	Zip Code
MARRUFO RICHARD & MARRUFO MELISSA M	PO BOX 906	SANTA CLARA	NM	88026
MARRUFO RUDY P MARRUFO MARY T	BOX 147	BAYARD	NM	88023
MARSHALL JAMES EVERETT MARSHALL KAREN E	BOX 542	HURLEY	NM	88043
MARTINEZ ANA MARIA	102 N CACTUS ST	BAYARD	NM	88023
MARTINEZ ANTHONY DAVE MARTINEZ CYNTHIA P	613 TAYLOR ST	BAYARD	NM	88023
MARTINEZ BIANCA & PENA JERRY	411 ROMERO AVE	HURLEY	NM	88043
MARTINEZ EDWARD H MARTINEZ ELISA	PO BOX 904	HURLEY	NM	88043
MARTINEZ ERIC MARTINEZ RITA	PO BOX 772	BAYARD	NM	88023-0772
MARTINEZ FERNANDO MARTINEZ MARY JANE	102 E STREET	HURLEY	NM	88043
MARTINEZ GERARDO JR MARTINEZ LAVERNE R	PO BOX 555	HURLEY	NM	88043
MARTINEZ ISAAC P & LAVERRIERE BENJAMIN M	962 HIGHLAND AVENUE	MEDFORD	MA	2155
MARTINEZ JACOB D	PO BOX 247	BAYARD	NM	88023
MARTINEZ JERRY P	306 CORTEZ AVE	HURLEY	NM	88043
MARTINEZ JOSEPH A	4309 SAN PEDRO DR. NE APT B-202	ALBUQUERQUE	NM	87109
MARTINEZ LUGARTHA V	68A N HURLEY RD	HURLEY	NM	88043
MARTINEZ MANUEL A III & GOOD JULIE B	700 N BULLARD ST	SILVER CITY	NM	88061
MARTINEZ MANUEL V MARTINEZ MARGARITA	407 D STREET	HURLEY	NM	88043
MARTINEZ PAUL M	PO BOX 726	HURLEY	NM	88043
MARTINEZ PETER G & MARTINEZ SUSIE V	PO BOX 164	HURLEY	NM	88043
MARTINEZ RODOLPHO S & MARTINEZ CARMEN S ET AL	2221 PONDEROSA STREET	SILVER CITY	NM	88061
MARTINEZ-MOLINA BEATRICE	68 A N HURLEY RD	HURLEY	NM	88043
MASCALL MACI	590 8TH AVE #7	SAN FRANCISCO	CA	94118
MASSEY JEWEL P MASSEY BONNIE B	522 C ST	HURLEY	NM	88043
MASTIN SANDRA	PO BOX 848	HURLEY	NM	88043
MATHIEU EDWARD RAYMOND MATHIEU NAOMI P	4005 BLACKHAWK RD	SILVER CITY	NM	88061
MATHIEU MICHAEL	54 HORSESHOE DR	HURLEY	NM	88043
MATHIS JASON C	PO BOX 374	HURLEY	NM	88043
MAX LIZZY	PO BOX 525	HURLEY	NM	88043
MAYNARD PAUL D & HENSLEY BARBARA L	1110 CANYON ST	BAYARD	NM	88023
MAYNES ANALYSA	703 LUSK ST	BAYARD	NM	88023
MAYNES MANUEL	100 W LINCOLN	SANTA CLARA	NM	88026
MAYNES REYNALDO C	506 D STREET	HURLEY	NM	88043
MAYNES REYNALDO C & SALAS AMBER J	504 D STREET	HURLEY	NM	88043
MAYNES REYNALDO R & MAYNES MELISSA C ET AL	PO BOX 439	BAYARD	NM	88023
MAYNES RICHARD R JR & MAYNES VERONICA P	PO BOX 938	HURLEY	NM	88043
MAYNES SAMUEL M CABRERA JENNIFER A	302 NEVADA AVE	HURLEY	NM	88043
MCATEE GEORGE MERLE	702 FAHEY STREET	BAYARD	NM	88023
MCBRIDE DARLENE J MCBRIDE DAVID J JR	PO BOX 1342	BAYARD	NM	88023
MCCANTS JOHN L MCCANTS PAMELA	PO BOX 94	HURLEY	NM	88043
MCCANTS MARVIN	PO BOX 435	HURLEY	NM	88043
MCCLAIN JAN	4 LEA DRIVE	HURLEY	NM	88043
MCDANAL DAVID F	115 SANTA RITA ST	HURLEY	NM	88043
MCGEE MICHAEL & MCGEE DESIRE	103 SANTA RITA AVE	HURLEY	NM	88043
MCKEE TROY D ET AL	PO BOX 2907	SILVER CITY	NM	88062
MCNEILL BRYSON	102 N MAIN ST	BAYARD	NM	88023
MCNEILL PAUL DANIEL	5283 TURNBRIDGE WELLS LN APT 6	ORLANDO	FL	32812
MEDINA CONNIE H & MEDINA ELOY H	BOX 607	BAYARD	NM	88023
MEDINA ELOY H	PO BOX 688	BAYARD	NM	88023
MEDINA FRANK G & MEDINA CHARLOTTE T	602 ORCHARD ST	BAYARD	NM	88023
MEDINA LILLIAN ET AL	601 ORCHARD	BAYARD	NM	88023
MEDINA ROSARIO T MEDINA ROSA T	PO BOX 241	HURLEY	NM	88043
MEDRANO MARY S & MEDRANO RICARDO S	77A NORTH HURLEY RD	HURLEY	NM	88043
MELENDREZ ELISHA	PO BOX 1236	BAYARD	NM	88023
MENDOZA ESTHER	BOX 243	BAYARD	NM	88023
MENDOZA GABRIEL J	PO BOX 550	BAYARD	NM	88023
MERINO OSCAR R MERINO MARY E	PO BOX 365	BAYARD	NM	88023
MERINO PRISCILLA M	642 BARD ST	BAYARD	NM	88023
MERRELL DOROTHY D	661 S HAWES RD LOT #69	MESA	AZ	85208
MERSINO ROMAN CHRISTIAN	400 PERU ST	BAYARD	NM	88023
MESA ELOY M & MESA LINDA L	2065 E SMOKE TREE RD	GILBERT	AZ	85296
MIKOW JOLYN IRREVOCABLE TRUST	319 HOLLY AVE	NOVATO	CA	94945
MILES MAUDE A DE LA TORRE VICENTE ETUX	BOX 653	BAYARD	NM	88023
MILLER AARON SCOTT & MILLER ANGELINA	46 W JACKSON STREET APT B	MILLERSBURG	OH	44654
MILLER AMANDA R	PO BOX 566	BAYARD	NM	88025
MILLER HOMER	211 ROMERO	HURLEY	NM	88043
MILLER JANICE L	BOX 495	HURLEY	NM	88043
MILLER TAMI J TRUST	6654 HASTINGS LANE	NASHVILLE	TN	37221
MINERAL REMEDIAL RECOVERY COMPANY	4780 CATERPILLAR RD UNIT C	REDDING	CA	96003
MINING REMEDIAL RECOVERY COMPANY	4780 CATERPILLAR RD SUITE C	REDDING	CA	96003
MIRANDA VELIA C MIRANDA AURORA C	BOX 506	HURLEY	NM	88043
MISQUEZ RUBY	PO BOX 962	BAYARD	NM	88023
MOLANO DAVID J	PO BOX 36723	FT BAYARD	NM	88036
MOLINA LOUIS E ET UX	3909 MONT CLAIR	LOS ANGLES	CA	90018
MOLINA SAMUEL M & MOLINA MARY K ET AL	PO BOX 419	HURLEY	NM	88043
MOMSEN JOHN DAVID SPECIAL NEEDS TRUST	305 PALMETTO DR	GEORGETOWN	TX	78633-5286
MONTEBON HAZEL L & AFROILAN ERWIN	94-312 HANAWAI CIRCLE	WAIPAHU	HI	96797
MONTEMAYOR RICHARD	10 PATTIE AVE	HURLEY	NM	88043
MONTENEGRO FLORA A & MIRANDA MICHELE E	PO BOX 512	HURLEY	NM	88043
MONTENEGRO SARAH A & QUINTANA SARAH M	PO BOX 546	SILVER CITY	NM	88062
MONTES CLYDE & MONTES JENNIE	06 HILL ST	HURLEY	NM	88043
MONTES MICHELLE R	435 CHUKAR ROAD	SILVER CITY	NM	88061
MONTEZ DANIEL & MONTEZ DEE RAE	PO BOX 158	BAYARD	NM	88023
MONTEZ THOMAS & MONTEZ ROSIE ET AL	PO BOX 834	BAYARD	NM	88023
MONTOYA ELIAS S & MONTOYA ANDREA P	PO BOX 389	SANTA CLARA	NM	88026
MONTOYA GILBERT G & MONTOYA ANA B	PO BOX 12	HURLEY	NM	88043
MONTOYA LUKE P	212 ELGUEA AVE	HURLEY	NM	88043
MONTOYA PATRICIA	PO BOX 1046	SANTA CLARA	NM	88026
MONTOYA ROBERT E & MONTOYA LUCY B	PO BOX 756	SANTA CLARA	NM	88026
MORA JESUS & GALINDO CRISTINA VIZCAINO	1480 W LAMA DR	TUCSON	AZ	85746
MORALES CECILIA T	PO BOX 456	HURLEY	NM	88043

Name	Address	City	State	Zip Code
MORALES ELIZABETH E	PO BOX 415	BAYARD	NM	88023
MORALES FRANKIE J JR DOMINGUEZ TERESITA	PO BOX 896	SANTA CLARA	NM	88026
MORALES KATHI ANN	6827 COYOTE RD	LAS CRUCES	NM	88012
MORENO ANTONIO G & MORENO LYDIA	4332 S SANTA LUCIA AVE	SIERRA VISTA	AZ	85650-9217
MORENO ARTHUR G & MORENO MARIA G	5826 SANDPIPER DRIVE	SANTA TERESA	NM	88008
MORENO-ANDERSON NORBERTA & MORENO TERESA P ET AL	PO BOX 67	HANOVER	NM	88041
MORONES CARLOS	6 SANTA RITA	HURLEY	NM	88043
MORONES GILBERT & MORONES CARLOS O	7 MUM ST	HURLEY	NM	88043
MORONES GILBERT O MORONES JULIE M	7 MUM STREET	HURLEY	NM	88043
MORONES KATHLEEN D	204 B ST	HURLEY	NM	88043-9753
MORRIS JOSEPH W	PO BOX 161	HURLEY	NM	88043
MORRIS LUTHER D & MORRIS FLOSSIE M	PO BOX 770	BAYARD	NM	88023
MORRISON TYLER J	31 RACE TRACK RD	ARENAS VALLEY	NM	88022
MORROW MICHAEL ROBERT & MORENO KATHRYN MARIE ET AL	113 WRIGHT LN UNIT 4	RUIDOSO DOWNS	NM	88346
MOSS LINDA MAE ZAPATA ANTONIO	2108 S SOLANO DRIVE, APT.26	LAS CRUCES	NM	88001
MOUNTAIN GOLD CORPORATION	3741 E LEONORA ST	MESA	AZ	85215
MUELLER ANTHONY JOHN	14515 N PIERCE FERRY RD	DOLAN SPRINGS	AZ	86441
MUNIZ DANIEL	105 PATTIE ST	HURLEY	NM	88043
MUNIZ JOE MUNIZ CONSUELO A	PO BOX 493	HURLEY	NM	88043
MUNIZ ROBERT P & MUNIZ ROSALINDA H	PO BOX 196	BAYARD	NM	88023
MUNOZ BETTY	P O BOX 292	BAYARD	NM	88023
MUNOZ DAVID L JR ETAL	PO BOX 427	BAYARD	NM	88023
MUNOZ DONNA DOLORES	PO BOX 837	BAYARD	NM	88023
MUNOZ MELISSA JEAN	PO BOX 900	BAYARD	NM	88023
MUNOZ RAMONA P	PO BOX 562	BAYARD	NM	88023
MUNOZ TINA MARIE ANN CAMPA	PO BOX 1482	BAYARD	NM	88023
MURILLO LYDIA P	310 VENCILL ST	BAYARD	NM	88023
MURILLO REINA M & SEDILLO RISA & SEDILLO MELVIN MICHAEL III	PO BOX 23	HURLEY	NM	88043
MURILLO SERENA E	2317 PAUL PLACE	SILVER CITY	NM	88061
MURPHY DAVID & MURPHY LINDA U/C	15 HERMOSA ST	HANOVER	NM	88041
MYERS VICKIE LYNNE	304 CORTEZ AVE	HURLEY	NM	88043
NAMM BARRY	PO BOX 306	BAYARD	NM	88023-0306
NATHARIUS JEFFREY A	505 CENTRAL AVE	BAYARD	NM	88023
NATHASINGH CAROL G LIVING TRUST	94-218 KEAUKAHA PLACE	WAIPAHU	HI	96797
NATHASINGH GLOVER	94218 KEAUKAHA PLACE	WAIPAHA	HI	96797
NATIONS REBECCA SUE HOLLAND & HOLLAND CHERYL LYNN	46 BANDONI DR	SILVER CITY	NM	88061
NAUMANN KAREN A & JOYCE DANIEL S	3184 QUEENS GARDENS	EL PASO	TX	79936
NEAL JOE	PO BOX 277	BAYARD	NM	88023
NELSON TRUST	PO BOX 7	PALVADERA	NM	87828
NEW RESIDENTIAL MORTGAGE LOAN TRUST	75 BEATTIE PLACE SUIT LL 202	GREENVILLE	SC	29601
NEWMAN DOUG	401 VENCILL	BAYARD	NM	88023
NMVSC FIDUCIARY FOR EFRAIN DOMINGUEZ	HC 71 BOX 1155	FAYWOOD	NM	88034
NOLAN ASHLEE DANIELLE	PO BOX 3092	SILVER CITY	NM	88062
NORERO ALEX J NORERO EVA S	19 WELSH STREET	SILVER CITY	NM	88061
NORTH ROBERT M NORTH PATRICIA P	PO BOX 1429	BAYARD	NM	88023
NUNEZ DAVID L NUNEZ PATRICIA T	PO BOX 252	BAYARD	NM	88023
NUNEZ HELEN LECHUGA	PO BOX 362	HURLEY	NM	88043
OCHOA LUPE V & VILLANUEVA CELESTE N	PO BOX 536	HURLEY	NM	88043
OJINAGA IRENE	PO BOX 792	BAYARD	NM	88023
OJINAGA SYLVIA	PO BOX 115	BAYARD	NM	88023
OLIVAREZ JOSEPH & OLIVAREZ LORALYNN	106 EAST STREET	BAYARD	NM	88023
ORDONEZ AARON S AND ORDONEZ BRANDI N	PO BOX 899	HURLEY	NM	88043
ORDONEZ EPITACIO R	PO BOX 41	SANTA CLARA	NM	88026
ORNELAS LUPE C	615 COMBS CIRCLE	SILVER CITY	NM	88061
OROSCO DANNY R	807 1/2 EMPIRE STREET	BAYARD	NM	88023
OROSCO RANDY & OROSCO CRYSTA	306 C ST	HURLEY	NM	88043
OROSCO THERESA OROSCO RUBEN B	508 N RAILROAD ST	BAYARD	NM	88023
OROSCO VALERIE & TERRAZAS MARIA T	PO BOX 193	HURLEY	NM	88043
ORSINI DENISE G	25 PHEASANT HILL RD	SALEM	CT	6420
ORTEGA AMANDA & SERRANO NORMA	PO BOX 971	BAYARD	NM	88023
ORTEGA BRANDON & ORTEGA JESSICA YVETTE	PO BOX 764	BAYARD	NM	88023
ORTIZ ADRIAN G	721 BARD STREET	BAYARD	NM	88023
ORTIZ ALFREDO JR ORTIZ ROSALINDA G	BOX 603	BAYARD	NM	88023
ORTIZ AMANDO R & ORTIZ TANYA TRUJILLO	620 DAYHILL ST	BAYARD	NM	88023
ORTIZ CHRISTIAN D	714 LUSK STREET	BAYARD	NM	88023
ORTIZ CHRISTINA & ORTIZ MARGUERITE P	PO BOX 822	BAYARD	NM	88023
ORTIZ CYNTHIA	11 ELGUEA AVE	HURLEY	NM	88043
ORTIZ GABRIEL T & ORTIZ MICHELLE M	624 LUSK ST	BAYARD	NM	88023
ORTIZ JAMES JR ORTIZ MARIA D	1308 VIRGINIA STREET	SILVER CITY	NM	88061
ORTIZ JOHN	3714 N HWY 28 TRAILER 4	LAS CRUCES	NM	88005
ORTIZ REBECCA	903 LUSK ST	BAYARD	NM	88023
ORTIZ ROBERT ANTHONY	PO BOX 723	BAYARD	NM	88023
ORTIZ SANDRA V & ORTIZ LOUIS C	PO BOX 1595	SILVER CITY	NM	88062
ORTIZ SHIRLEY D	ELGUEA AVE	HURLEY	NM	88043
ORTIZ VICTORIA LEE	144 GALAZ	SAN LORENZO	NM	88041
OSVATH LINDA H	303 CARRASCO AVE	HURLEY	NM	88043
OSWALT RICK	692 N ADELE ST SPC 85	ORANGE	CA	92867-7470
OUR LADY OF FATIMA PARISH INC	1280 MED PARK DRIVE	LAS CRUCES	NM	88005
P&L INVESTMENTS	8308 CASAS AZUL CT NW	ALBUQUERQUE	NM	87120
PACHECO CARLOS & BERNICE	PO BOX 1028	BAYARD	NM	88023
PACHECO RAYMOND T ONDA WILLIAM A	3872 N SILVER	SILVER CITY	NM	88061
PACHECO-LOPEZ MICHELLE M	66 EL SITIO RD	ESPANOLA	NM	87532
PACK BETTY L	203 PATTIE STREET	HURLEY	NM	88043
PACK BETTY L	203 PATTIE AVE	HURLEY	NM	88043
PADILLA ALBERT & PADILLA JOSEPH	502 LINDA DRIVE	HURLEY	NM	88043
PADILLA ANGELICA R	P O BOX 553	HURLEY	NM	88043
PADILLA DAVID A PADILLA SOCORRO F	421 1/2 MAPLE ST	BAYARD	NM	88023
PADILLA DIANE M	4117 W SILVER ST	SILVER CITY	NM	88061
PADILLA ESPERIDION S	15 POP MORRISON ST.	HURLEY	NM	88043
PADILLA ESPIRIDION S & PADILLA BILLY A	15 POP MORRISON	HURLEY	NM	88043

Name	Address	City	State	Zip Code
PADILLA HARVEY L PADILLA MARTHA	114 FM 623 W	PETTUS	TX	78146
PADILLA JOLENE D	11 ROMERO AVE	HURLEY	NM	88043
PADILLA MARY HELEN & SALAS MARTHA ANN PERU	716 BARD ST	BAYARD	NM	88023
PADILLA MICHELLE DEMING	PO BOX 714	HURLEY	NM	88043
PADILLA REFUGIA V	4812 E HANNIBAL CIRCLE	MESA	AZ	85205
PADILLA RUTH L	PO BOX 425	HURLEY	NM	88043
PADILLA VELMA	1517 NORTH NEWHOPE ST SPACE #51	SANTA ANA	CA	92703
PAINO MARY J	105 S RAILROAD ST	BAYARD	NM	88023-9676
PALOMAREZ ANITA U ETAL	37A SANTA RITA MINE RD	VANADIUM	NM	88023
PALOMAREZ JUAN A	37 SANTA RITA MINE RD	VANADIUM	NM	88023
PALOMAREZ LAZARO JR	103 AZURITE	MORENCI	AZ	85540
PALOMAREZ MAGDALENA T & PALOMAREZ PEDRO T	905 WAGGONER ST	BAYARD	NM	88023
PALOMAREZ MANUEL J & PALOMAREZ MAGDALENA J	1009 WATSON ST	BAYARD	NM	88023
PALOMAREZ OLGA	39 SANTA RITA MINE RD	VANADIUM	NM	88023
PANDER NANCY K	PO BOX 486	SILVER CITY	NM	88062
PANTASARI FOUNDATION	PO BOX 206	BAYARD	NM	88023
PAPPAS MARK S	5473 HWY 152	HANOVER	NM	88041
PARKS JAMES	2714 MONTCLAIRE DR NE	ALBUQUERQUE	NM	87110
PARRA BOB P GARCIA JESSICA	4250 N CARDINAL LANE	SILVER CITY	NM	88061
PARRA FERNANDO M SR PARRA ERLINDA R	830 BONITA	CLAR MONT	CA	91711
PARRA FRANCES C	1301 E WALNUT ST	DEMING	NM	88030
PAS JAMES A & BARRAZA GLORIA P	137 ARENAS VALLEY RD	ARENAS VALLEY	NM	88022
PATTERSON CYNTHIA J	104 PATTIE AVE	HURLEY	NM	88043
PEAT RAYMOND	PO BOX 5764	EUGENE	OR	97405
PEDRAZA ANTONIO C	4709 SHERRY ANN RD	ALBUQUERQUE	NM	87114
PEDRAZA CHARLES E JR	226 PALOMA BLANCA DR	CHAPARRAL	NM	88081
PEDRAZA JOE E PEDRAZA ANA L	BOX 395	HURLEY	NM	88043
PEDRAZA MANUEL C	1308 BOSTON DR.	LAS CRUCES	NM	88001
PEDRAZA MARIA AIDA & PEDRAZA EDDIE JOE	10928 BLACK MOUNTAIN RD. #14	SAN DIEGO	CA	92126
PEDRAZA ROSIE R	PO BOX 162	BAYARD	NM	88023
PELLERIN ELIZABETH B	4909 CHAGAR CT	LAS CRUCES	NM	88007
PENA AARON & PENA SALINA	PO BOX 711	HURLEY	NM	88043
PENA ANGELIC R	PO BOX 401	BAYARD	NM	88023
PENA ARTHUR C & PENA SUSIE	10 AZTEC AVE	HURLEY	NM	88043
PENA ARTHUR C PENA SUSIE S	150 N HURLEY RD	HURLEY	NM	88043
PENA CHRISTINA M & MARQUEZ BERNADETTE D	717 GUINEVAN ST	BAYARD	NM	88023
PENA CYNTHIA	107 E STREET	HURLEY	NM	88043
PENA DESIDERIA L & WRIGHT CAROL L & KIME MARY ELLEN U/C	170 N HURLEY RD	HURLEY	NM	88043
PENA ELVIRA M & PENA ANTONIO M & PENA IRMA O	PO BOX 863	HURLEY	NM	88043
PENA ESTHER LEYBA	PO BOX 232	MESILLA PARK	NM	88047
PENA GERALDINE L	12018 STONEY BRIDGE	SAN ANTONIO	TX	78247
PENA HENRY C	PO BOX 385	HURLEY	NM	88043-0385
PENA JOSE ELOY ET AL	PO BOX 592	BAYARD	NM	88023
PENA LOUIS B PENA EVANGELINE	6831 BRUSH FIELD RD NW	ALBUQUERQUE	NM	87114
PENA MATTHEW T	204 PATTIE AVE	HURLEY	NM	88043
PENA MIKLOS & PENA BETSI H	PO BOX 846	HURLEY	NM	88043
PENA RUDY M	PO BOX 273	HURLEY	NM	88043
PEREZ JESUS SILVA PEREZ JOAN MUNOZ	PO BOX 680	BAYARD	NM	88023
PEREZ JOHNNY PEREZ SYLVIA	112 S. YUCCA ST	BAYARD	NM	88023
PEREZ MARTINA S PEREZ SAMUEL S	PO BOX 614	BAYARD	NM	88023
PEREZ RICHARD I	P.O. BOX 884	HURLEY	NM	88043
PEREZ STEVE	223 EAGLE DR	ALAMOGORDO	NM	88310
PERRY NITA MAE REVOCABLE TRUST	212 CHURCH ST	VIRDEN	NM	88045
PERRY THEDRA MICHELLE	5122 WOODRUFF PLACE	LAS VEGAS	NV	89120
PERRY WILLIAM & PERRY KATHRYN	1010 E MESCAL DR	PEARCE	AZ	85625
PERU MANUEL PERU BERTHA	#4 POP MORRISON ST	HURLEY	NM	88043
PERU ROBERT O & JOSIE H	PO BOX 580	BAYARD	NM	88023
PETERSON MICHEAL	720 TAYLOR ST	BAYARD	NM	88023
PETERSON SHANDIS	8955 HWY 377	DEMING	NM	88030
PHILLIPS CLINTON & PHILLIPS VALLIE	PO BOX 604	HURLEY	NM	88043
PINTO PAIGE L	723 DAYHILL ST	BAYARD	NM	88023
PIZZUTO SAL & PIZZUTO HOPE MATHISON	PO BOX 545	HURLEY	NM	88043
PLACENCIO MARK	PO BOX 1323	BAYARD	NM	88023
PLACENCIO ROSALIA L	912 SANTA RITA	SILVER CITY	NM	88061
PLUMMER MARK ALAN	110 B STREET	HURLEY	NM	88043
POLANCO BRIAN & POLANCO JERRENE	0 AZTEC AVE	HURLEY	NM	88043
POLANCO JESUS J POLANCO ELVA	500 TRAILING HEART	SILVER CITY	NM	88061
POLANCO RONALD P	PO BOX 22	GILA	NM	88038
POLK GERALD	PO BOX 36067	FORT BAYARD	NM	88036
POLLEY ADAM CHRISTOPHER & POLLEY LOLA BROWN	PO BOX 942	HURLEY	NM	88043
POLOMSKI BOUDICA N	4595 ARABELA DR	LAS CRUCES	NM	88012
PONZIO JOEL P PONZIO DOLORES E	PO BOX 935	BAYARD	NM	88023
PORTILLO JERAMIAH F	2704 ROYAL DR	SILVER CITY	NM	88061
PORTILLO MARGARET M	PO BOX 827	BAYARD	NM	88023
POST SAUNDRA	2340 HIGHWAY 180 EAST #187	SILVER CITY	NM	88061
POWELL WILLIAM B	103 B STREET	HURLEY	NM	88043
PROUDFOOT NICOLETTE	120 N HURLEY RD	HURLEY	NM	88043
PROVENCIO LORI A	PO BOX 1455	BAYARD	NM	88023
PROVENCIO SAMUEL P PROVENCIO VIRGINIA	1564 S ROYAL PALM RD	APACHE JCT	AZ	85219-6566
PUENTES SALVADOR A & PUENTES SARA J REVOCABLE TRUST	512 N RAILROAD	BAYARD	NM	88023
PYAGA ADONATA	4405 JAGER DR NE STE C4-4040	RIO RANCHO	NM	87144
PYRON BRANDI N & PYRON JULIE A & PYRON DAVID W	32 CIMARRON TRAIL	SILVER CITY	NM	88061
QUARRELL CHARLES A QUARRELL DOLORES P	P.O. BOX 1011	DEMING	NM	88031
QUEVEDO LARRY C ET AL	6635 RIO DORADO DRIVE	LA MESA	NM	88044
QUEVEDO PETE C ET AL	6635 RIO DORADO DRIVE	LA MESA	NM	88044
QUEZADA DIANA Z & QUEZADA JUAN Z	PO BOX 1366	BAYARD	NM	88023
QUICK CATHY LYNNE	PO BOX 936	HURLEY	NM	88043
QUIGLEY ROSS A JR	7568 S PACIFIC WILLOW DR	TUCSON	AZ	85747
QUINLAN RICHARD GORDON QUINLAN SHERRY ANN	PO BOX 905	SAFFORD	AZ	85548
QUINTANA ARTHUR S & QUINTANA OLIVIA R ET AL	PO BOX 679	BAYARD	NM	88023

Name	Address	City	State	Zip Code
QUINTANA DARIUS	PO BOX 25996	ALBUQUERQUE	NM	87125
QUINTANA GABRIEL R QUINTANA ARTHUR S	PO BOX 813	BAYARD	NM	88023
QUINTANA LAURA	PO BOX 1384	BAYARD	NM	88023
QUINTANA ROBERT R & QUINTANA ROSELLA A	PO BOX 891	BAYARD	NM	88023
QUINTERO RICARDO V	7093 LUZ DE SOL DR	EL PASO	TX	79912
QWEST CORPORATION	931 14TH ST	DENVER	CO	80202
RACKEL MELISSA	PO BOX 1490	BAYARD	NM	88023
RAINBOW RIDGE INVESTMENTS LLC	PO BOX 1411	SILVER CITY	NM	88062
RAMIREZ LORENZO M	PO BOX 1	HANOVER	NM	88041
RAMIREZ MARIA LUISA & ORTEGA DIANE	PO BOX 474	HURLEY	NM	88043
RAMIREZ SERENA A	PO BOX 302	HURLEY	NM	88043
RAMIREZ TERESA	PO BOX 262	HURLEY	NM	88043
RAMOS ANGELICA	PO BOX 134	HURLEY	NM	88043
RAMOS DAVID J JR	PO BOX 397	HURLEY	NM	88043
RAMOS MANUELA M LIVING TRUST	5RD 5777	FARMINGTON	NM	87401
RAMSLAND EDWARD D & RAMSLAND TERRY A	2802 CHITALPA CT	SILVER CITY	NM	88061
RASCON ALFRED & RASCON BETTY	PO BOX 51	HANOVER	NM	88041
RASCON TOBY	21 PETERSON ST	SILVER CITY	NM	88061
RECWEST INCORPORATED	5401 S ARCADIA	TUCSON	AZ	85706
REECE RICHARD J REECE DIANNA L	PO BOX 722	BAYARD	NM	88023
REED DAVID & REED MICHELLE	15 CORTEZ AVE	HURLEY	NM	88043
REES VICTOR C & REES DELLA MIRANDA RODRIGUEZ	416 N RAILROAD ST	BAYARD	NM	88023
REESE BRANDON & GALLEGOS ALIYAH N	105 CACTUS ST	BAYARD	NM	88023
REESE SYLVIA M	P O BOX 454 216 CORTEZ	HURLEY	NM	88043
REFIOR FRED H REFIOR JOYCE E	PO BOX 293	SANTA CLARA	NM	88026
REILLY MICHAEL H & REILLY SALLY N	PO BOX 830	BAYARD	NM	88023
REVOCABLE LIVING TRUST OF SIVILLE SCOTT HUNTER	PO BOX 381	BAYARD	NM	88023
REYES JAVIER JOSE	PO BOX 317	SANTA CLARA	NM	88026
REYNOLDS JENNIFER REYNOLDS JENNIE	PO BOX 146	BAYARD	NM	88023
RICHARD MARK	PO BOX 1258	BAYARD	NM	88023
RILEY LORRAINE M RILEY NORRIS O	2115 SADDLEHORN	KATTY	TX	77494
RILEY MATTHEW	405 C ST	HURLEY	NM	88043
RIOS DAVID H ET AL	PO BOX 608	BAYARD	NM	88023
RIOS FAMILY TRUST THE	PO BOX 559	BAYARD	NM	88023
RIOS INA M	1460 E. MILTON RD.	TUCSON	AZ	85706
RIOS LISA JEAN	406 FRAN DR	HURLEY	NM	88043
RIOS ROBERT H	PO BOX 682	BAYARD	NM	88023
RIOS SAMMY H RIOS AIDA M	PO BOX 998	BAYARD	NM	88023
RIVERA EMILIO B RIVERA MELINDA	910 E 32ND ST	SILVER CITY	NM	88061
RIVERA NELLIE	2021 SILVER ST	SILVER CITY	NM	88061
RIVERA STELLA & RIVERA TERESO T	61 PETERSON DRIVE	SILVER CITY	NM	88061
ROACHO JOSE V	PO BOX 444	HURLEY	NM	88043
ROACHO JUAN	216 ARIZONA ST	HURLEY	NM	88043
ROBERT CHRISTOPHER SCOTT & BARKER JOHN MILTON III	315 PATTIE	HURLEY	NM	88043
ROBERTS EDDIE RAY II	PO BOX 1008	BAYARD	NM	88023
ROBERTS JANICE	303 ARIZONA ST	HURLEY	NM	88043
ROBERTS PHYLLIS	13 COTTONWOOD	HURLEY	NM	88043
RODRIGUEZ ALEJANDRO	P.O. BOX 232	HURLEY	NM	88043
RODRIGUEZ ANDREA	PO BOX 609	BAYARD	NM	88023
RODRIGUEZ BENITO R JR & RODRIGUEZ VIRGINIA AND RODRIGUEZ GABRIEL	2777 W CARNATION PLACE	TUCSON	AZ	85745
RODRIGUEZ CHRISTINA P RODRIGUEZ ROBERT F JR	3 MAIN STREET	HURLEY	NM	88043
RODRIGUEZ CHRISTOPHER	804 ROGERS ST	BAYARD	NM	88023
RODRIGUEZ DANIEL P & RODRIGUEZ YSELA M ETAL	704 DAYHILL ST	BAYARD	NM	88023
RODRIGUEZ DIEGO CHAVEZ	187 N HURLEY RD	HURLEY	NM	88043
RODRIGUEZ FERNANDO & RODRIGUEZ MIRIAM	8 ELDER LN	SILVER CITY	NM	88061
RODRIGUEZ FREDDIE M & RODRIQUEZ TOBIAS J	207 A ST	HURLEY	NM	88043
RODRIGUEZ GABRIEL E	719 FAHEY ST	BAYARD	NM	88023
RODRIGUEZ GILBERT H & RODRIGUEZ IRENE P	6 POP MORRISON	HURLEY	NM	88043
RODRIGUEZ GINA A & RODRIGUEZ GARY G	190 N HURLEY RD	HURLEY	NM	88043
RODRIGUEZ GINA ANNETTE CHACON	190 NORTH HURLEY ROAD	HURLEY	NM	88043
RODRIGUEZ IRENE	PO BOX 256	HURLEY	NM	88043
RODRIGUEZ JOE M & RODRIGUEZ BEATRICE G	PO BOX 371	BAYARD	NM	88023
RODRIGUEZ JOSEPH RUBEN	PO BOX 405	HURLEY	NM	88043
RODRIGUEZ LATICIA EDWINA MAYNES	PO BOX 744	SANTA CLARA	NM	88026
RODRIGUEZ LILLY P	PO BOX 455	HURLEY	NM	88043
RODRIGUEZ RAY & RODRIGUEZ SYLVIA M	PO BOX 294	HANOVER	NM	88041
RODRIGUEZ RAYMOND H & RODRIGUEZ SANDRA C	189 NORTH HURLEY RD	HURLEY	NM	88043
RODRIGUEZ RAYMOND J	185 N HURLEY ROAD	HURLEY	NM	88043
RODRIGUEZ RICHARD M & BARRIOS ARGELLA EVONNE ET AL	PO BOX 1301	BAYARD	NM	88023
RODRIGUEZ ROBERT F JR & RODRIGUEZ CHRISTINA P	3 MAIN ST	HURLEY	NM	88043
RODRIGUEZ RUBEN G	3100 ROYAL DRIVE	SILVER CITY	NM	88061
RODRIGUEZ SUSANO L JR & RODRIGUEZ RUTH P RODRIGUEZ JOHN ANTHONY RODRIGUEZ EUGENE DAMIEN	302 D ST	HURLEY	NM	88043
RODRIGUEZ TOMASITA	112 D STREET	HURLEY	NM	88043
RODRIGUEZ VIRGINIA V & RODRIGUEZ AURELIO	PO BOX 21	HURLEY	NM	88043
RODRIQUEZ STACY GORE DOYLE L & GORE TEDDY H	PO BOX 703	BAYARD	NM	88023
ROGERS LESTER REVOCABLE TRUST	PO BOX 335	BAYARD	NM	88023
ROMERO VERONICA L & ROMERO DAVID & ROMERO JUAN J JR	29125 COBBLESTONE STREET	NUEVO	CA	92567
ROMO EULALIA & SALAS JAVIER & SALAS ESTELLA	711 BARD ST	BAYARD	NM	88023
ROMO LESLIE	PO BOX 874	SANTA CLARA	NM	88026
ROSA JAMES C JR ROSA MELINDA R	616 FAHEY ST	BAYARD	NM	88023
ROSALES CECILIA R ET AL	PO BOX 46	BAYARD	NM	88023
ROSALES LUIS H ROSALES SYLVIA	PO BOX 1006	BAYARD	NM	88023
ROSALES TIMOTHY	2219 N 25TH PLACE	PHOENIX	AZ	85008
ROWLAND JOHN J & MACINTOSH ISABELLA	PO BOX 388	HURLEY	NM	88043
ROYBAL RICKY & ROYBAL BRANDI	717 FAHEY ST	BAYARD	NM	88023
RUBIO JOSE S & PADILLA BERNICE C	PO BOX 314	BAYARD	NM	88023
RUEBUSH ARLIN G RUEBUSH DAWN	2750 S. TABOR DR	SILVER CITY	NM	88061
RUEBUSH DONN RUEBUSH JOYCE	15 HERMOSA STREET	HANOVER	NM	88041

Name	Address	City	State	Zip Code
RUEDA SYLVIA	PO BOX 2860	THATCHER	AZ	85552
RUIZ ROBERT G RUIZ LYNETTE G	4244 CAPISTRANO	LAS CRUCES	NM	88011
SABORIO BEDA P & SABORIO MANUEL P JR & SANCHEZ LOUISE S	PO BOX 627	HURLEY	NM	88043
SABORIO BEDA P SABORIO MANUEL P JR	PO BOX 504	HURLEY	NM	88043
SABORIO NATALIA G	PO BOX 216	HURLEY	NM	88043
SAENZ FIDEL T SAENZ RONNIE S	760 S SANTA FE	DEMING	NM	88030
SAENZ JOHN	PO BOX 157	BAYARD	NM	88023
SALAIZ JOSE J RODRIGUEZ JOSE B C/O	PO BOX 1271	BAYARD	NM	88023
SALAS ENCARNACION SALAS RIGOBERTO R C/O	1150 ATHERTON CT APT 14	SALT LAKE CITY	UT	84123
SALAS JERRY V & SALAS GUADALUPE ROXANE	PO BOX 1346	BAYARD	NM	88023
SALAS JOSE M SALAS CONSUELO	PO BOX 142	BAYARD	NM	88023
SALAS LAURA O	714 BARD STREET	BAYARD	NM	88023
SALAS LAWRENCE V	PO BOX 1152	BAYARD	NM	88023
SALAS LUCILLE D	311 CHINO ST	BAYARD	NM	88023
SALAS MARCUS A & MERAZ JACQUELINE	202 ROMERO AVE	HURLEY	NM	88043
SALAS MARTHA A & SALAS CRUZ J	720 BARD ST	BAYARD	NM	88023
SALAS RAMONA	PO BOX 926	BAYARD	NM	88023
SALCIDO CHRISTOPHER & SALCIDO ANISSE	PO BOX 492	HURLEY	NM	88043
SALCIDO RAUL	PO BOX 851	HURLEY	NM	88043
SALCIDO VICTOR MANUEL SALCIDO SHERRY L	PO BOX 1336	BAYARD	NM	88023
SALEM'S LLC	PO BOX 356	SOCORRO	NM	87801
SALGADO BAUDELIA	PO BOX 351	SANTA CLARA	NM	88026
SANCHEZ AVELINO L	PO BOX 941	BAYARD	NM	88023
SANCHEZ CANDELARIO M & SANCHEZ REBECCA D	7650 N 181ST AVENUE	WADDELL	AZ	85355
SANCHEZ CYNTHIA (CINDY) M	PO BOX 656	HURLEY	NM	88043
SANCHEZ LEE M SANCHEZ KIMBERLY D	PO BOX 36037	FT BAYARD	NM	88036
SANCHEZ MARAYNA MENDOZA & BACA GENE ERIC	213 PATTIE AVE	HURLEY	NM	88043
SANCHEZ MARCUS	PO BOX 1332	BAYARD	NM	88023
SANCHEZ MARK A & ROSEMARY L	PO BOX 1032	BAYARD	NM	88023
SANCHEZ PATRICIA S SANCHEZ HENRY M	PO BOX 1136	BAYARD	NM	88023
SANCO INVESTMENTS LLC	PO BOX 1020	DEMING	NM	88031
SANDOVAL ADAM	PO BOX 945	HURLEY	NM	88043
SANDOVAL DONNA O	PO BOX 520	SANTA CLARA	NM	88026
SANDOVAL ERMINIO R SANDOVAL VIRGINIA	BOX 123	HANOVER	NM	88041
SANDOVAL RUBEN SANDOVAL FLAVIA E	1624 CERRO VISTA LOOP	LOS LUNAS	NM	87031
SANTA MARIA EDWARD P SANTA MARIA LUCINDA	506 EMPIRE ST	BAYARD	NM	88023
SANTA MARIA LYDIA P ET AL	622 MCKEE STREET	BAYARD	NM	88023
SANTA MARIA SOCORRO B & SANTA MARIA JOEL BUSTILLOS & SANTA MARIA STEVEN R	PO BOX 717	BAYARD	NM	88023
SANTA RITA SHRINE LLC	PO BOX 197	SANTA CLARA	NM	88026
SAUCEDA FRED Z & ICE LYDIA	1205 GRETTA NE	ALBUQUERQUE	NM	87112
SAVORILLO YNOCENCIA H & BORUNDA GENEVIEVE R	PO BOX 907	BAYARD	NM	88023
SAWYER LESLEY G	701 BARD ST	BAYARD	NM	88023
SAXMAN CHRISTOPHER & MACINNIS WANDA L	PO BOX 87	HANOVER	NM	88041
SCHAFFNER DANIEL N	312 SANTA RITA ST	HURLEY	NM	88043
SCHENK JOHN A	PO BOX 281	BAYARD	NM	88023
SCHRYVER HALEY & HANDLEY DAVIS	314 PATTIE ST	HURLEY	NM	88043
SCOTT KIRK	PO BOX 895	HURLEY	NM	88043
SCOTT MELISSA SIAS & SCOTT JAMES ALAN	PO BOX 326	HANOVER	NM	88041
SCRUGGS CAROLYN D	305 PATTIE	HURLEY	NM	88043
SEDILLOS CAROL	PO BOX 911	BAYARD	NM	88023
SEDILLOS DANIELLE E	PO BOX 123	HURLEY	NM	88043
SEDILLOS EDWARD S & SEDILLOS KATHRYN Y ET AL	PO BOX 933	BAYARD	NM	88023
SEDILLOS JAMES R	137 GERONIMO ST	HURLEY	NM	88043
SEDILLOS MANUEL A & SEDILLOS JUANITA C ET AL	PO BOX 226	HURLEY	NM	88043
SEDILLOS MIKE P SR	503 E COLLEGE AVE	SILVER CITY	NM	88061
SEDILLOS ROSALINA T	P O BOX 112	HANOVER	NM	88041
SEIBERT WILLIAM W III	PO BOX 970	MORENCI	AZ	85540
SEPULVEDA ALBERT P & SEPULVEDA SALVADOR P	PO BOX 1915	MESILLA PARK	NM	88047-1915
SEPULVEDA ANA T	PO BOX 103	HURLEY	NM	88043
SEPULVEDA NORMA J & SEPULVEDA SONIA Y & SEPULVEDA ANA T	P O BOX 547	HURLEY	NM	88043
SEPULVEDA SALVADOR P JR SEPULVEDA PATRICIA J	315 PERU STREET	BAYARD	NM	88023
SERNA JOSEPH G FAMILY TRUST	6 ELGUA ST	HURLEY	NM	88043
SHELTON NIKOLAS FAMILY TRUST	13 D PLACITAS TRAILS RD	PLACITAS	NM	87043
SHINKLE THEODORE E JR	304 NEVADA AVE	HURLEY	NM	88043
SHIREY RAYBURN D & SHIREY LANA M	711 N BLACK ST	SILVER CITY	NM	88061
SHORT MATTYSEN & DEANGELO NICHOLAS	312 ARIZONA ST	HURLEY	NM	88043
SIEFERD JOANNA	3520 MADISON RD	LEVELLAND	TX	79336
SIERRA DORA C	7381 VILLIAGE DR	LAS CRUCES	NM	88012
SIERRA JOSE M SIERRA RHONDA R	PO BOX 887	BAYARD	NM	88023
SIERRA JULIAN	609 4TH AVE	SAN MANUEL	AZ	85631
SIERRA WILLIAM T SIERRA ERLINDA R	903 ROGERS STREET	BAYARD	NM	88023
SILVA GLORIA B & HOLGUIN LYNETTE	306 FRAN DR	HURLEY	NM	88043
SILVA HENRY M	PO BOX 661	HURLEY	NM	88043
SILVA JESSIE C & GARCIA GLORIA C SILVA GILBERT C	2 E INEZ ST	TUCSON	AZ	85756
SILVA NORMA J	PO BOX 591	BAYARD	NM	88023
SILVA OLGA LORRAINE REVOCABLE TRUST	431 CALLE DEL SOL	RIO COMMUNITIES	NM	87002
SILVA ROGER JR	PO BOX 222	SANTA CLARA	NM	88026
SILVER CITY GAS LLC	14709 ALABASTER AVENUE	DELRAY BEACH	FL	33446
SIMPSON ALBERT SIMPSON DORA	201 MAIN STREET	BAYARD	NM	88023
SINGER MARK A	4 SHIRLEY CT	MINOT	ND	58703
SINGLETON JON DEAN	304 FRANEY ST	BAYARD	NM	88023
SKEE JAMES R & SKEE R GAIL	1530 NORTHFIELD RD	COLORADO SPRINGS	CO	80919
SMITH SHIRLEY ANN	BOX 235	HURLEY	NM	88043
SMORRA THOMAS R	230 W CALLE MONTANA JACK	GREEN VALLEY	AZ	85614
SOLANO SHIRLEY	7522 MONTERREY DR	EL PASO	TX	79915-2646
SOLIZ DANIEL & ANGELICA	PO BOX 254	HURLEY	NM	88043
SOSAYA MARIANO G SOSAYA VIOLA	PO BOX 1195	BAYARD	NM	88023
SOSAYA RICHARD D	2627 S LAMB BLVD, TRLR 167	LAS VEGAS	NV	89121

Name	Address	City	State	Zip Code
SOSAYA RICHARD D	PO BOX 1433	BAYARD	NM	88023
SOTELO SERGIO OCHOA	717 BARD ST	BAYARD	NM	88023
SOTO SEAN & ROSALES ELIZABETH	120 E MADRID SPACE 5	LAS CRUCES	NM	88001
SOUTHWEST ENTERPRISES VIELMA NICANOR Q C/O	PO BOX 5001	SILVER CITY	NM	88062
SPANN DONALD K & GRIMALDO RHONDA	10348 N CROOKED PEAK TRL	MARANA	AZ	85653
SPARKS TWANA LIVETTE	24 T&M DAIRY RD	HANOVER	NM	88041
SPIRIT OF 76 LLC	10401 MONROE RD	MATTHEWS	NC	28105
STAATS JOHN	PO BOX 2424	SILVER CITY	NM	88062
STAILEY GLEN & STAILEY MICHELLE	PO BOX 885	BAYARD	NM	88023
STEENPORT FRANK LOPEZ & STEENPORT JULIANNE S	PO BOX 482	BAYARD	NM	88023
STEPHENSON MARK & STEPHENSON MYFAWNWY	101 C ST	HURLEY	NM	88043
STEVENS CURTIS JR & STEVENS KRISTIA	302 C ST	HURLEY	NM	88043
STEVENS CURTIS K JR & KIRK KRISTA R	302 C ST	HURLEY	NM	88043
STEVENS JOSEPH E & STEVENS NANCY JAY U/C	100 CORTEZ	HURLEY	NM	88043
STOKES COLIN & STOKES CAROLYN	993 W CAGNEY DR	MERIDIAN	ID	83646
STONE JOSEPH ROY & STONE PATRICIA GRIJALVA	717 DAYHILL ST	BAYARD	NM	88023
STRAIN MERCEDES ELAINE	2441 S. KIHEI RD APT B-202	KIHEI	HI	967537217
STRATTON MICHAEL KEVIN & MCFARLANE BRENDA LEIGH	5 NEVADA AVE	HURLEY	NM	88043
STRONG PEDER DAWSON	PO BOX 148	BAYARD	NM	88023
STULTS ROBERT M	PO BOX 234	HURLEY	NM	88043
STURDEVANT APRIL	113 AZTEC	HURLEY	NM	88043
SUBLASKY MARIA MARTINA	PO BOX 1464	BAYARD	NM	88023
SWEETEN BETTY	1315 GEORGIA ST	SILVER CITY	NM	88061
TAFOYA JOSE ELIZALDE-TAFOYA JENNIFER	310 D ST	HURLEY	NM	88043
TAPSCOTT TEDDY W & RHONDA A TAPSCOTT JUSTIN C & WAYNETTE A	2361 COTTAGE SAN ROAD	SILVER CITY	NM	88061
TAYLOR KATHERINE CORLISS	PO BOX 1308	DEMING	NM	88031
TEAGUE RANDY	PO BOX 14	HANOVER	NM	88041
TECCA ZACHARY D & JOSEPH SCARLETT	316 ELGUEA AVE	HURLEY	NM	88043
TELLES ANSELMO B & GONZALES ALEJANDRA	PO BOX 224	HURLEY	NM	88043
TELLES ELIZABETH A ET AL	PO BOX 81	HURLEY	NM	88043
TELLEZ JUAN G U/C	417 E 18TH STREET	SILVER CITY	NM	88061
TERAN AMANDA	PO BOX 387	BAYARD	NM	88023
TERAN MANUEL E TERAN MONICA A	PO BOX 683	BAYARD	NM	88023
TERAN RAY L VIGIL EVA	1300 SWAN	SILVER CITY	NM	88061
TERRAZAS ARTURO	PO BOX 3077	SILVER CITY	NM	88062
TERRAZAS CARLOS M	PO BOX 649	BAYARD	NM	88023
TERRAZAS CHRISTINA CORRAL & ALEXANDER FRANCES ALMA	6300 ESTES ST	ARVADA	CO	80004
TERRAZAS CRUZ C	PO BOX 1307	BAYARD	NM	88023
TERRAZAS DAVID R & TERRAZAS DORIS S	PO BOX 567	BAYARD	NM	88023
TERRAZAS INC	40 FLURRY LN	SILVER CITY	NM	88061-8834
TERRAZAS INC DBA GILA LUMBER & TRUE VALUE	3100 HIGHWAY 180 E #B	SILVER CITY	NM	88061
TERRAZAS JOSIE JAUREGUI & CORDOVA LUCILLE T	211 A ST	HURLEY	NM	88043
TERRAZAS ROBERT & TERRAZAS SUSIE ET AL	507 ORCHARD ST	BAYARD	NM	88043
TERRAZAS ROBERT R	PO BOX 1131	BAYARD	NM	88023
THATCHER ERIC & THATCHER KATHLEEN	102 B STREET	HURLEY	NM	88043
THOMAS VANESSA	104 ELGUEA AVE	HURLEY	NM	88043
THOMPSON ERIC	PO BOX 606	RESERVE	NM	87830
THOMPSON GARRY LEE JR	1350 KELSO DUNES AVE	HENDERSON	NV	89014
THOMPSON KEVIN M	PO BOX 747	HURLEY	NM	88043
THOMPSON PHYLLIS TUCKER HELEN	14 PATTIE AVE	HURLEY	NM	88043
THOMSON JAMIE K U/C	316 DIAMOND ST	BAYARD	NM	88023
THRASHER SARAH A & DOMINGUEZ BILLY J	715 GUINEVAN ST	BAYARD	NM	88023
TIBAYAN HILDA ETAL	808 E LORI PL	SILVER CITY	NM	88061
TILDEN FAMILY LIVING TRUST THE	5344 HIGHWAY 152	HANOVER	NM	88041
TIN CUP PROPERTIES, LLC	6262 N. CAMINO VERDE	TUCSON	AZ	85743
TOMS YOLANDA G	PO BOX 533	BAYARD	NM	88023
TONEY ELYSE J	1 YUCCA VALLEY DR	ARENAS VALLEY	NM	88022
TORRES ALFONSO F DIAZ ERLINDA T	PO BOX 694	BAYARD	NM	88023
TORRES ANTONIO R TORRES LUCINDA J	BOX 114	HANOVER	NM	88041
TORRES FORTUNATO P	506 1/2 S CANYON ST	BAYARD	NM	88023
TORRES FRANK	PO BOX 2606	DEMING	NM	88031
TORRES FRANKIE U/C	1 E CRESCENT ST	SILVER CITY	NM	88061
TORRES JOHN M SR TORRES STEPHANIE M	216 ELGUEA	HURLEY	NM	88043
TORRES LEONARDA A TORRES GABRIEL	7 PARK	BAYARD	NM	88023
TORRES MANUEL C & SIERRA MARIA T & DUARTE MARIO ANTHONY	PO BOX 518	BAYARD	NM	88023
TORRES SONIA C	PO BOX 1313	BAYARD	NM	88023
TORREZ DEMECIO O TORREZ DIANE M	PO BOX 4	HURLEY	NM	88043
TORREZ GABRIEL	7 PARK STREET	BAYARD	NM	88023
TOVAR ALEJANDRO C TOVAR BERNADETTE	306 CHINO STREET	BAYARD	NM	88023
TOVAR DORA D	504 VENCILL ST	BAYARD	NM	88023
TREVIZO ROBERT A	PO BOX 477	BAYARD	NM	88023
TRINKLE JEFFREY & TRINKLE NANCY REVOCABLE TRUST	PO BOX 798	SILVER CITY	NM	88062
TRIVISO JAIME E TRIVISO ANNA M	PO BOX 681	HURLEY	NM	88043
TRIVISO JAIME EMILIANO JR	302 1/2 B STREET	HURLEY	NM	88043
TROMINSKI GRETCHEN J & TROMINSKI ERNEST M	4825 COSTA DE ORO	EL PASO	TX	79922
TRUJILLO ANGELA J HUMBLE MARGARET L	611 N CANYON STREET	BAYARD	NM	88023
TRUJILLO AUDON JR WILKES-TRUJILLO NANCY L	506 W 3RD AVE	T OR C	NM	87901
TRUJILLO BROOKLYN	3736 N FRAN DR	SILVER CITY	NM	88061
TRUJILLO ELSIE	PO BOX 212	HURLEY	NM	88043
TRUJILLO ISAAC S	PO BOX 284	BAYARD	NM	88023
TRUJILLO LUIS T	PO BOX 63	BAYARD	NM	88023
TRUJILLO LUPE	PO BOX 692	HURLEY	NM	88043
TRUJILLO PETE C ET AL	PO BOX 666	HURLEY	NM	88043
TRUJILLO SAM & ORTIZ JESSICA	PO BOX 233	HURLEY	NM	88043
TRUJILLO TERRY R & TRUJILLO MISTY A	25 LASSEN ST	SILVER CITY	NM	88061
TRUMP RANDOLF L	510 D STREET	HURLEY	NM	88043
TURNER ALTON F ESTATE	PO BOX 1317	SILVER CITY	NM	88062
UDERO RUBEN M UDERO ELLEN L	PO BOX 588	BAYARD	NM	88023

Name	Address	City	State	Zip Code
UELAND EDDEANA	PO BOX 93	BAYARD	NM	88023
UIRC-GSA VII BAYARD NM LLC	15700 W 103RD ST	LEMONT	IL	60439
VALADEZ MARTHA ELENA	PO BOX 882	SANTA CLARA	NM	88026
VALENCIA ALEXIS O	PO BOX 1204	SANTA CLARA	NM	88026
VALENCIA MICHELE T	2403 VILLAGE DR	SILVER CITY	NM	88061
VALLE YOLANDA CHACON LOPEZ MICHELLE	1051 HOSKINS LANE	LAS CRUCES	NM	88007
VAN PATTEN SCOTT D VAN PATTEN VERONICA	PO BOX 689	BAYARD	NM	88023
VANCE ENRIQUE & VANCE HILDA	1390 N LA CANOA	GREEN VALLEY	AZ	85614
VANNATTER GREG	512 D ST	HURLEY	NM	88043
VARELA JOSE MAURICIO	PO BOX 1318	BAYARD	NM	88023
VARGAS AMELIA H	PO BOX 763	BAYARD	NM	88023
VARGAS ANTONIO	PO BOX 35	HANOVER	NM	88041
VARGAS BALBINE P ESTATE	5710 AVALON RD NW, BLDG C, APT. 301	ALBUQUERQUE	NM	87105
VEGA GENEVIEVE	PO BOX 181	BAYARD	NM	88023
VEGA VANESSA & FERGUSON JACOB	714 DAYHILL ST	BAYARD	NM	88023
VELA YRAU	120 APACHE BRAVE ST	SANTA TERESA	NM	88008
VENEGAS ERNEST L ET AL	PO BOX 715	BAYARD	NM	88023
VENEGAS RANDOLPH E VENEGAS LETICIA M	PO BOX 52	HURLEY	NM	88043
VESELY VINCENT M	PO BOX 869	SILVER CITY	NM	88062
VICK BETTY M & VICK JENNINGS S III & VICK LANNY J	3333 ORCHID LANE	PHOENIX	AZ	85051
VIGIL CLARA S ETAL	PO BOX 1112	BAYARD	NM	88023
VIGIL EVA & SANTAMARIA ALFONSO R	PO BOX 1171	BAYARD	NM	88023
VIGIL JESUS M	PO BOX 214	BAYARD	NM	88023
VIGIL SAUL & GALLEGOS JANELLE EDEN	311 PATTIE AVE	HURLEY	NM	88043
VILLAGE OF BAYARD	PO DRAWER T	BAYARD	NM	88023
VILLALOBOS TOMMY T & FLORES GLORIA V	PO BOX 886	SANTA CLARA	NM	88026
VILLANUEVA STACEY G VILLANUEVA RAUL D	706 TAYLOR STREET	BAYARD	NM	88023
VILLEGAS MARGARITA H	701 ERIE MCKEE ST	BAYARD	NM	88023
VILLEGAS REYNALDO VILLEGAS SYLVIA	13825 N COTTONWOOD ST	SURPRISE	AZ	85374
VILLINES WILLIAM PATRICK VILLINES DESIREE N	PO BOX 809	BAYARD	NM	88023
VIZCARRA RAY VIZCARRA JANE A	BOX 111	BAYARD	NM	88023
WALKER MARY C	1005 BLACKHAWK ST	BAYARD	NM	88023-9785
WALLINGTON LYNN	9014 THORNTON RD #8	STOCKTON	CA	95209
WALTERS FAMILY REVOCABLE TRUST	PO BOX 5012	SILVER CITY	NM	88062
WARHANK TY & CARBAJAL ANDREA	708 GUINEVAN ST	BAYARD	NM	88023
WELCH JAMES G U/C	4681 IRONWOOD LANE	SILVER CITY	NM	88061
WESTERN NEW MEXICO TELEPHONE COMPANY INC	PO BOX 3079	SILVER CITY	NM	88062
WESTERN PRECIOUS METALS INC	30251 SUITE 561	LAGUNA NIGUEL	CA	92677
WHEELER CRAIG MARK	29625 CORAL COVE RD	LAGUNA NIGUEL	CA	92677
WHITE COREY & WHITE CRYSTAL	PO BOX 1347	BAYARD	NM	88023
WHITE DON W JR & AGUIRRE MARY JANE	10 ROMERO AVE	HURLEY	NM	88043
WHITE JULIE & SIAS ALVIN J	126 ARENAS VALLEY RD	ARENAS VALLEY	NM	88022
WHITES STEVEN O	710 DAYHILL	BAYARD	NM	88023
WILGUESS DAVID A WILGUESS CHERYL D	PO BOX 577	BAYARD	NM	88023
WILKEY LISA A	PO BOX 496	BAYARD	NM	88023
WILLET MICHAEL B	810 WAGGONER	BAYARD	NM	88023
WILLIAMS ROBERT & CURTIS PAULA J LONGHURST	#6 MUM STREET	HURLEY	NM	88043
WILLIAMSON GRANT & WILLIAMSON JULIE U/C	712 LUSK ST	BAYARD	NM	88023
WILSON ANTHONY & WILSON KENNETH	PO BOX 1167	BAYARD	NM	88023
WILSON JAMES B WILSON ELAINE J 2006 LIVING TRUST	103A N PINOS ALTOS ST	SILVER CITY	NM	88061
WILSON SYLVIA	3325 MARINO DRIVE SE	RIO RANCHO	NM	87124
WOODS RAMON S	PO BOX 236	HURLEY	NM	88043
WRIGHT FRANK C SR & ARCIERO LEO	BOX 563	BAYARD	NM	88023
WRIGHT SANDRA K	PO BOX 1378	BAYARD	NM	88023
YODER W	309 DAVIS ST	BAYARD	NM	88023
YOUNG CECILIA (SALLY) & GONZALES ANNIE	8 LOMA VERDE DR	SILVER CITY	NM	88061
YOUNG MANUEL L YOUNG MANUEL A & DURAN SALLY Y	PO BOX 983	SANTA CLARA	NM	88026
YOUNG MARTIN K YOUNG GAIL C	112 AZTEC	HURLEY	NM	88043
YOUNG PATRICIA V	PO BOX 1437	BAYARD	NM	88023
ZAPATA ANTONIO	PO BOX 105	BAYARD	NM	88023
ZUNIGA KELLY R ZUNIGA JAVIER	112 ROMERO AVE	HURLEY	NM	88043

9.4: Sample of Letters sent to the Owners of Record

February 6, 2026

Dear Neighbor,

Freeport-McMoRan Chino Mines Company (Freeport) announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **mining operations**. The expected date of application submittal to the Air Quality Bureau is **February 13, 2026.**

The exact location for the proposed facility known as, **Chino Mine**, is at latitude **32.783594** dec deg North and longitude **-108.069194** dec deg West**.** The approximate location of this facility is **4.1** miles **east-northeast** of **Bayard, NM** in **Grant** county.

The proposed **modification** consists of the construction of two evaporative sprayers, as well as the modification of blasting operations, haul road use, and other activities. Freeport also proposes to remove various emission units and activities at the Chino Mine that are no longer in use.

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)	2,006	14,376
PM_{10}	586	3,923
$PM_{2.5}$	81	465
Sulfur Dioxide (SO_2)	2	4
Nitrogen Oxides (NO_x)	51	300
Carbon Monoxide (CO)	27	1,936
Volatile Organic Compounds (VOC)	9	35
Total sum of all Hazardous Air Pollutants (HAPs)	10	12
Total sum of Toxic Air Pollutant (TAPs)	4	14
Copper (TAP)	1	2
Sulfuric Acid (TAP)	3	12
Green House Gas Emissions as Total CO_2e	N/A	416,291

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

Owners and operators of the facility include:
Freeport-McMoRan Chino Mines Company
P.O Box 10
Bayard, NM 88023

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. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

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.

Attención
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 505-629-7748.

Sincerely,
Freeport-McMoRan Chino Mines Company
P.O Box 10, Bayard, NM 88023

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: Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@env.nm.gov. 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.

9.5: Sample of Letters sent to Counties, Municipalities, and Indian Tribes

February 6, 2026

Dear Neighbor,

Freeport-McMoRan Chino Mines Company (Freeport) announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **mining operations**. The expected date of application submittal to the Air Quality Bureau is **February 13, 2026.**

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The proposed **modification** consists of the construction of two evaporative sprayers, as well as the modification of blasting operations, haul road use, and other activities. Freeport also proposes to remove various emission units and activities at the Chino Mine that are no longer in use.

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$PM_{2.5}$	81	465
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Carbon Monoxide (CO)	27	1,936
Volatile Organic Compounds (VOC)	9	35
Total sum of all Hazardous Air Pollutants (HAPs)	10	12
Total sum of Toxic Air Pollutant (TAPs)	4	14
Copper (TAP)	1	2
Sulfuric Acid (TAP)	3	12
Green House Gas Emissions as Total CO_2e	N/A	416,291

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Owners and operators of the facility include:
Freeport-McMoRan Chino Mines Company
P.O Box 10
Bayard, NM 88023

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. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

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.

Attención
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Sincerely,
Freeport-McMoRan Chino Mines Company
P.O Box 10, Bayard, NM 88023

Notice of Non-Discrimination
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9.6: Posted Public Notice and Verification of Local Postings

NOTICE

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The exact location for the proposed facility known as, **Chino Mine**, is at latitude **32.783594** dec deg North and longitude **-108.069194** dec deg West**.** The approximate location of this facility is **4.1** miles **east-northeast** of **Bayard, NM** in **Grant** county.

The proposed **modification** consists of the construction of two evaporative sprayers, as well as the modification of blasting operations, haul road use, and other activities. Freeport also proposes to remove various emission units and activities at the Chino Mine that are no longer in use.

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Pollutant:	Pounds per hour	Tons per year
Particulate Matter (PM)	2,006	14,376
PM_{10}	586	3,923
$PM_{2.5}$	81	465
Sulfur Dioxide (SO_2)	2	4
Nitrogen Oxides (NO_x)	51	300
Carbon Monoxide (CO)	27	1,936
Volatile Organic Compounds (VOC)	9	35
Total sum of all Hazardous Air Pollutants (HAPs)	10	12
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Copper (TAP)	1	2
Sulfuric Acid (TAP)	3	12
Green House Gas Emissions as Total CO_2e	N/A	416,291

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

The owner and/or operator of the Facility is:

Freeport-McMoRan Chino Mines Company
P.O Box 10
Bayard, NM 88023

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. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

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 505-629-7748.

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General Posting of Notices – Certification

I, Steven M. Garcia, the undersigned, certify that on **2/5/2026,** posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in the **cities of Bayard, Hurley, and Hanover** of **Grant** County, State of New Mexico on the following dates:

1. Facility Entrances – Chino Main Gate, Chino North Gate (Hurley), Chino SXEW Gate – February 5,2026
2. Bayard Post Office – February 5, 2026
3. Hurley Post Office – February 5, 2026
4. Fierro Post Office – February 5, 2026

Signed this 5th day of February, 2026.

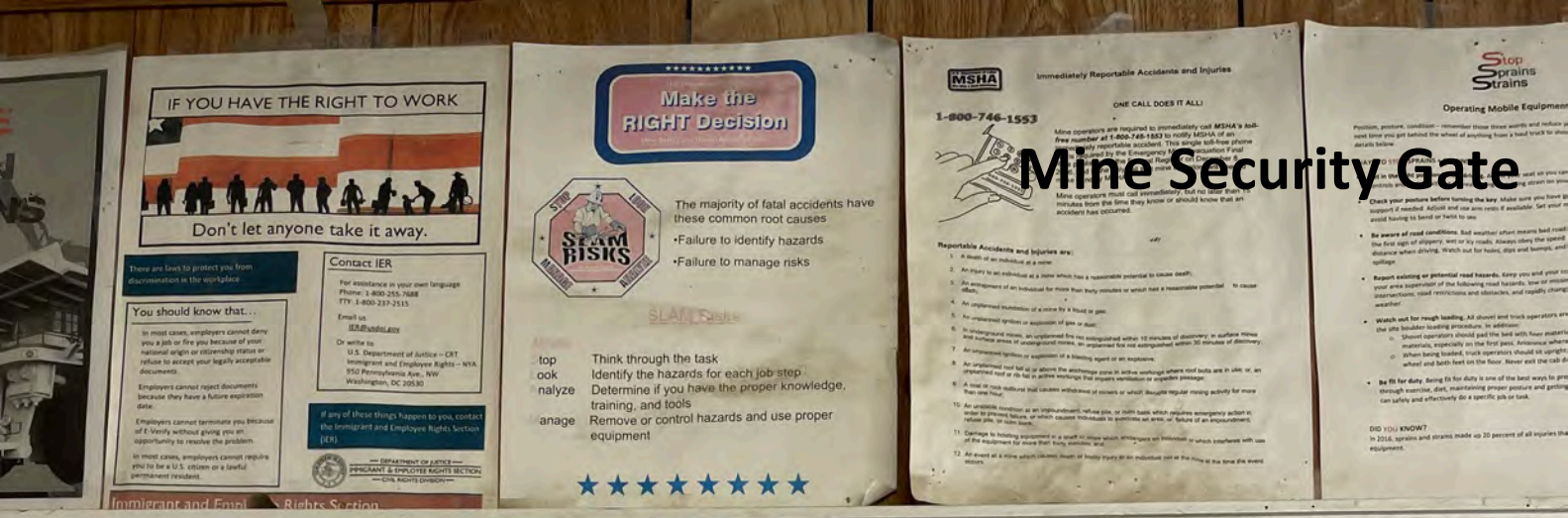
Signature

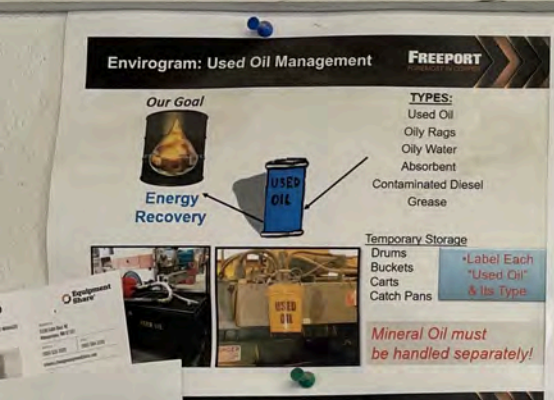
2/5/2026
Date

Steven M. Garcia
Printed Name

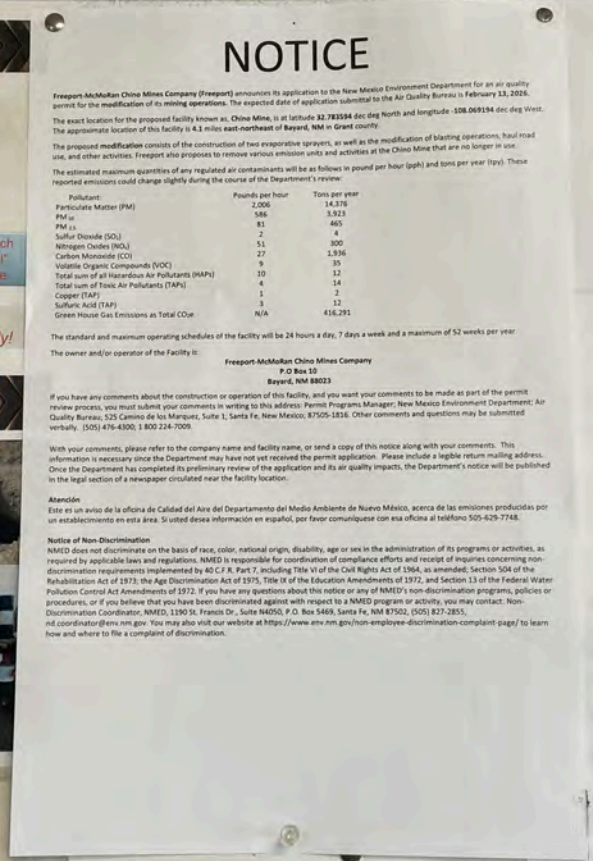
Chino Mines Co. Environmental St. Technician
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

Mine Security Gate









NOTICE

Freeport-McMoRan Chino Mines Company (Freeport) announces its application to the New Mexico Environment Department for an air quality permit for the **modification** of its **mining operations.** The expected date of application submittal to the Air Quality Bureau is **February 13, 2026.**

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PM 10	586	3,923
PM 2.5	81	465
Sulfur Dioxide (SO_2)	2	4
Nitrogen Oxides (NO_x)	51	300
Carbon Monoxide (CO)	27	1,936
Volatile Organic Compounds (VOC)	9	35
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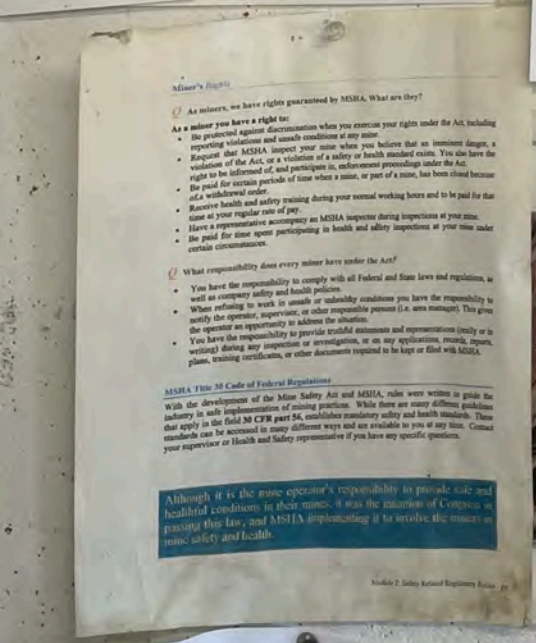
Freeport-McMoRan Chino Mines Company
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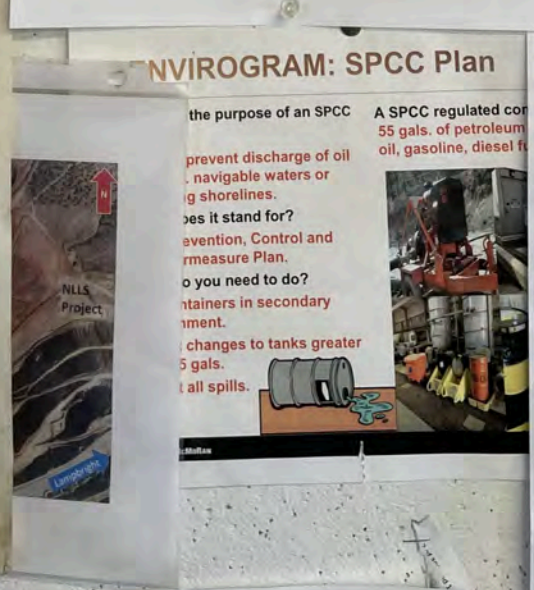
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FREEPORT-McMoRAN

New Me

2026

Grir
Relea

January

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 New Year's Observed	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

April

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3 Easter Observed	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3 Independence Day Observed	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

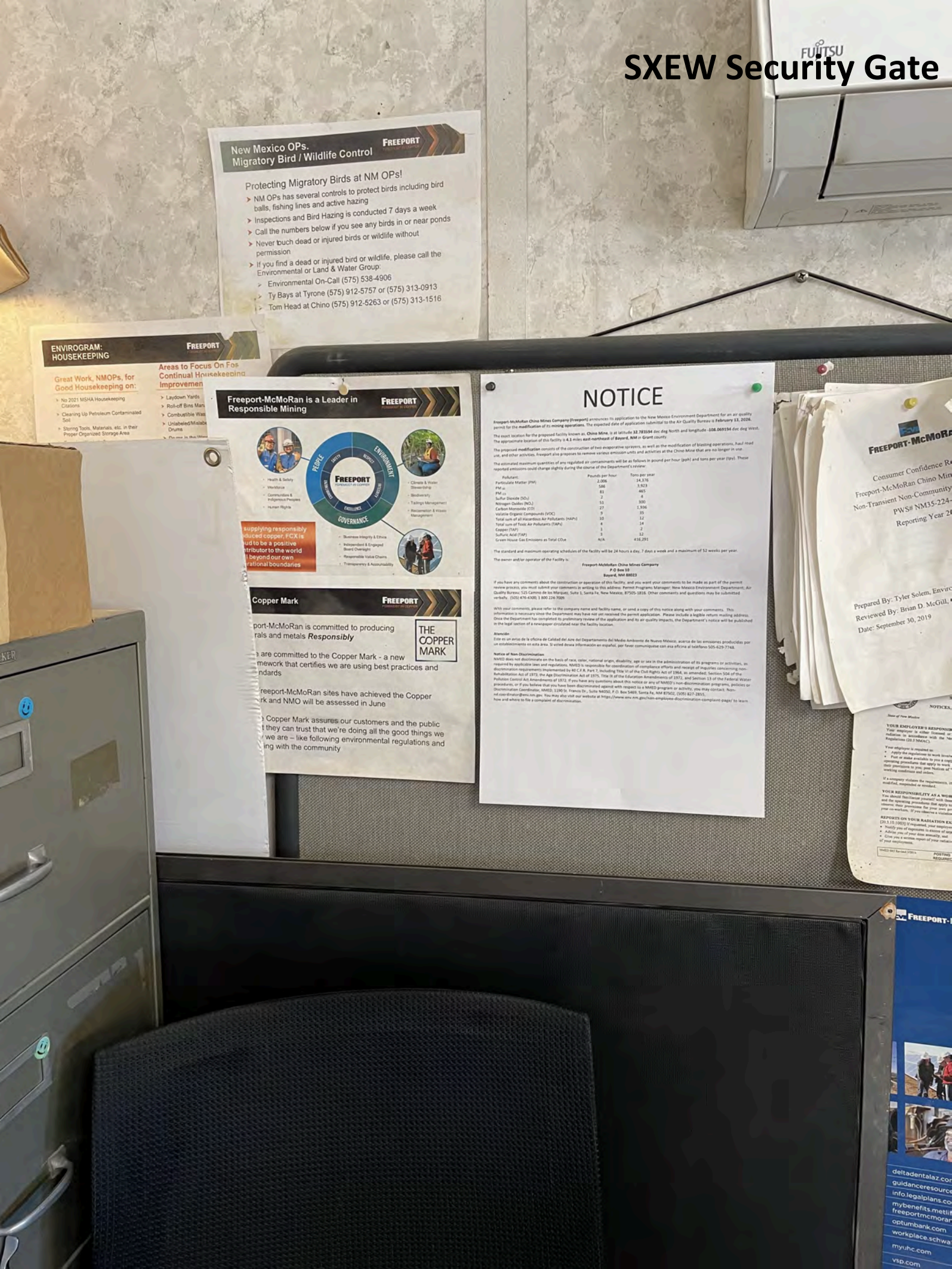
October

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3

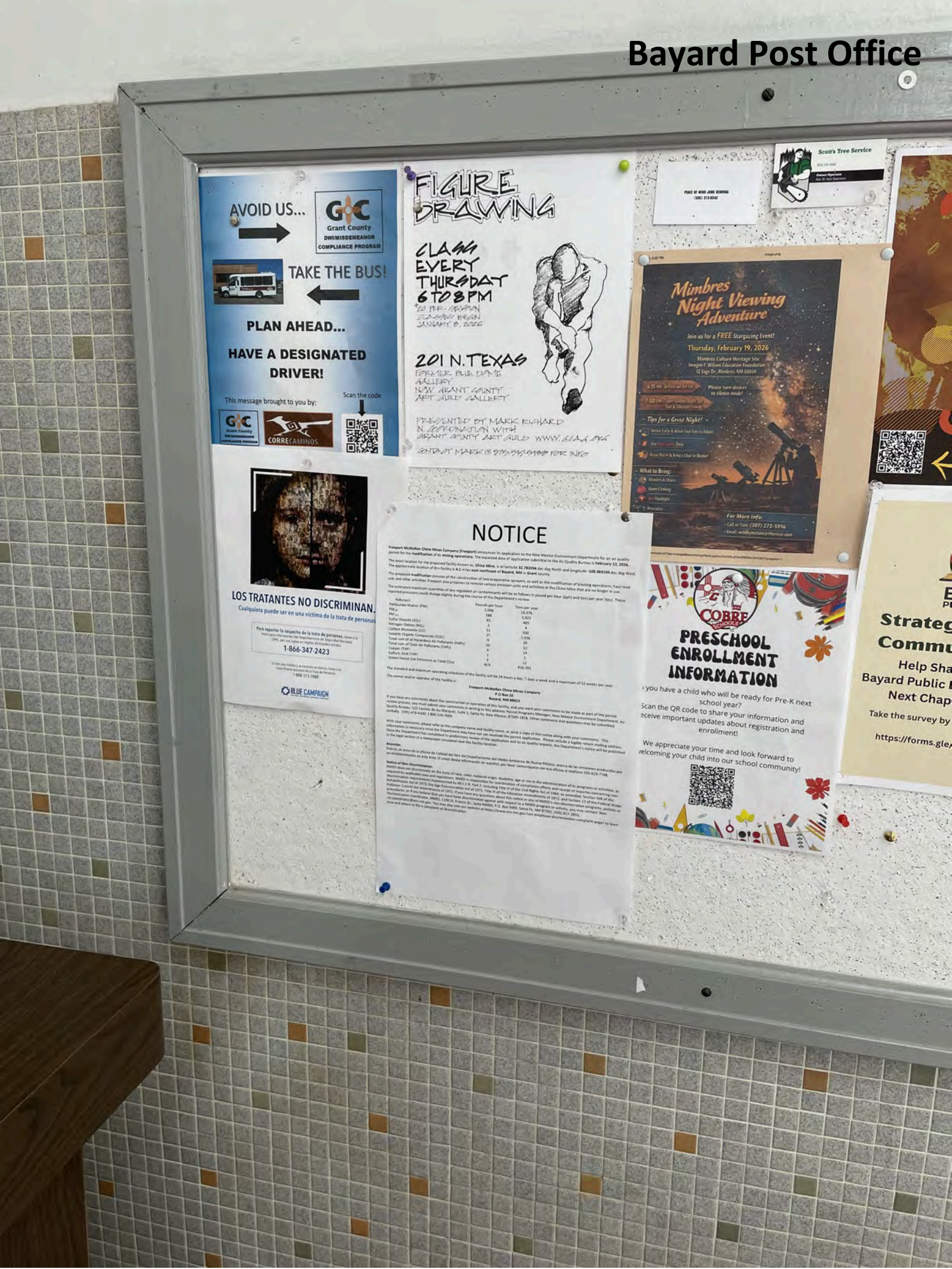
Hurley Security Gate



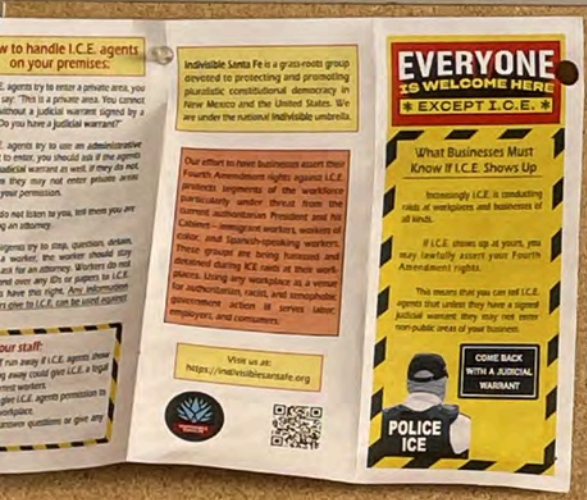
SXEW Security Gate



Bayard Post Office



Hurley Post Office



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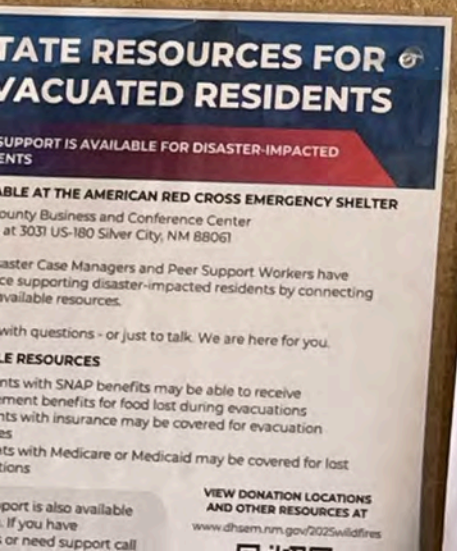
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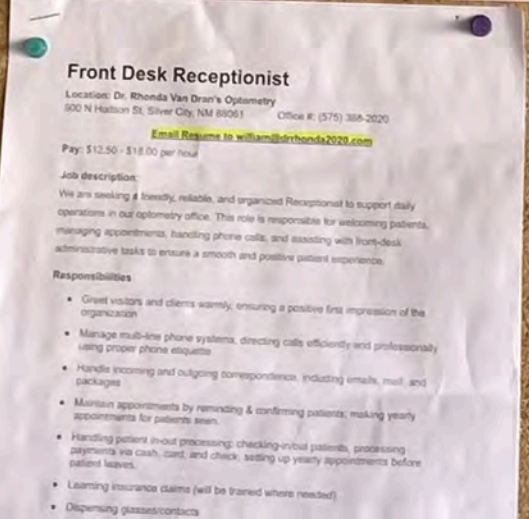
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Front Desk Receptionist

Location: Dr. Rhonda Van Dran's Optometry
900 N Hudson St, Silver City, NM 88061 Office #: (575) 388-2020

Email Resume to william@drrhonda2020.com

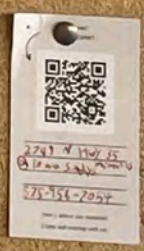
Pay: $12.50 - $18.00 per hour

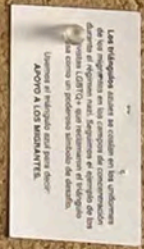
Job description:

We are seeking a friendly, reliable, and organized Receptionist to support daily operations in our optometry office. This role is responsible for welcoming patients, managing appointments, handling phone calls, and assisting with front-desk administrative tasks to ensure a smooth and positive patient experience.

Responsibilities

- Greet visitors and clients warmly, ensuring a positive first impression of the organization
- Manage multi-line phone systems, directing calls efficiently and professionally using proper phone etiquette
- Handle incoming and outgoing correspondence, including emails, mail, and packages
- Maintain appointments by reminding & confirming patients, making yearly appointments for patients seen.
- Handling patient in-out processing; checking-in/out patients, processing payments via cash, card, and check, setting up yearly appointments before patient leaves.
- Learning insurance claims (will be trained where needed)
- Dispensing glasses/contacts





Fierro Post Office



9.7: Table of Noticed Citizens, Counties, Municipalities, and Tribes

Table of Noticed Municipalities

Name	Address	City	State	Zip Code
Silver City - Mayor Ken Lander	PO Box 118	Silver City	NM	88062
Village of Santa Clara - Mayor Arnold Lopez	PO Box 316	Santa Clara	NM	88026
Town of Hurley - Mayor Reynaldo C. Maynes	PO Box 65	Hurley	NM	88043
City of Bayard - Mayor John Ojinaga	PO Box 728	Bayard	NM	88023

Table of Noticed Counties

Name	Address	City	State	Zip Code
Grant County - County Manager Charlene Webb	PO Box 898	Silver City	NM	88062
Luna County - County Manager Chris Brice	700 S. Silver Ave.	Deming	NM	88030

Table of Noticed Tribes

Name	Address	City	State	Zip Code
There are no Indian Tribes located within 10 miles of the Chino Mine.				

Table of Noticed Citizens

Name	Address	City	State	Zip Code
104 Cactus Llc	11725 Rincon Dr	Whittier	CA	90606
16 E Indian Trail Land Trust	2123 Old Spartanburg Rd, Ste 184	Greer	SC	29650
1844 Cash Offer Llc	Po Box 2088	Litchfield Park	AZ	85340
Abalos Richard E	Po Box 321	Hurley	NM	88043
Abalos Robert S	Po Box 619	Hurley	NM	88043
Abeyta Sarah S & Ray Jason Joseph Sedillos	Po Box 468	Santa Clara	NM	88026
Abreu John G Abreu Yolanda C	3209 Neptune Dr	Las Cruces	NM	88012-7729
Acosta Adrian & Acosta Sonia	138 Geronimo St	Hurley	NM	88043
Acosta Gustavo	723 Guinevan St	Bayard	NM	88023
Acosta Yolanda L	Po Box 403	Bayard	NM	88023
Adams Denise	Po Box 1337	Bayard	NM	88023
Aguilar Apolonio And Aguilar Rosina	Po Box 257	Hurley	NM	88043
Aguilar Ted R & Aguilar Rose M U/C	1201 Central Ave	Bayard	NM	88023
Aguilera Albert L	3646 N 69Th Ave #73	Phoenix	AZ	85033
Aguilera Armando & Aguilera Manda	Po Box 651	Hurley	NM	88043
Aguilera Francisco Aguilera Pilar D	Po Box 615	Hurley	NM	88043
Aguilera Lilly Ortiz & Fierro Daniel Joseph	Po Box 133	Hurley	NM	88043
Aguilera Thelma Trujillo	Po Box 15	Hanover	NM	88041
Aguirre Aeryk	210 E St	Hurley	NM	88043
Aguirre Antonio	103 Willow St	Morenci	AZ	85540
Aguirre-Gonzales Alejandro	#15 T & M Dairy Rd	Hanover	NM	88041
Ahlm Cody J	2104 N Juniper Ave	Silver City	NM	88061
Albers Christoper W	Po Box 2997	Silver City	NM	88062
Alcarez Margaret Etal	803 Orange Street	Santa Ana	CA	92701
Alcorta Reina & Romero Juan Jr	293 Eagle Drive	Duncan	AZ	85534
Alday Arturo M & Guadalupe B	Po Box 838	Bayard	NM	88023
Alexander Amber	219 A St	Hurley	NM	88043
Alexander John Shelton Patricia Ann	9 A Elguea	Hurley	NM	88043
Alexander Patricia A	9 A Elguea Ave	Hurley	NM	88043
Allen William	Po Box 141	Charlestown	MD	21914
Almaraz Gabrielle & Cuhen Amanda	406 D St	Hurley	NM	88043
Altamirano Adam Altamirano Camille	301 D Street	Hurley	NM	88043
Altosa Jim Altosa Dee	Po Box 932	Hurley	NM	88043-0932
Alvarado Amelia	Po Box 720	Bayard	NM	88023
Alvarado Angel B Alvarado Manuela A	Po Box 590	Bayard	NM	88023
Alvarado Antonio S	Po Box 42	Bayard	NM	88023
Alvarado Benjamin Alvarado Teresa	1312 Sw Buchanan St	Topeka	KS	66604-2813
Alvarado Delia P	Po Box 132	Bayard	NM	88023
Alvarado Eduardo Armijo	Po Box 44	Santa Clara	NM	88026-0044
Alvarado Jonathan R	115 S Yucca St	Bayard	NM	88023
Alvarado Joshua O Alvarado Robin C	301 Elguea Ave	Hurley	NM	88043
Alvarado Margaret	Po Box 794	Bayard	NM	88023
Alvarado Norma Angelica	Po Box 421	Bayard	NM	88023
Alvarado Petra O	Po Box 225	Bayard	NM	88023
Alvarado Rosemary	Po Box 767	Bayard	NM	88023
Alvarado Sandra A	2311 Ranch Club Rd Pmb 156	Silver City	NM	88061
Alvarez Barbara & Alvarez Anthony	44 North Hurley Rd	Hurley	NM	88043
Alvarez Dora & Alvarez Danny	10 Mira Loma Rd	Arenas Valley	NM	88022
Alvarez Louis S & Alvarez Lisa M	Po Box 221	Hurley	NM	88043
Alvillar Jesus Jose	Po Box 860	Bayard	NM	88023
Alvo Arturo	Po Box 560	Bayard	NM	88023
Alvo Carlos F & Magdalena R Etal	Po Box 88	Bayard	NM	88023
Amador Aaron	Po Box 754	Bayard	NM	88023
Amador Barbara & Castillo Jasmine M	Po Box 192	Bayard	NM	88023
Amador Camille	Po Box 363	Hanover	NM	88041
Amador David	Po Box 991	Hurley	NM	88043
Amador Elias S Amador Natalia A	Po Box 447	Hurley	NM	88043
Amador Jose	602 E 34Th Street	Silver City	NM	88061
Amador Un Mi	Po Box 623	Hurley	NM	88043
Ambriz Carlos T	Po Box 598	Bayard	NM	88023
American Andalusian Association	Po Box 1290	Silver City	NM	88062
Andazola Antonio L & Andazola Suzanne G Et Al	422 Poplar St	Bayard	NM	88023
Andazola Cecilia M	Po Box 755	Bayard	NM	88023
Andazola Gregorio E Andazola Denise R	Po Box 815	Hurley	NM	88043
Andazola Jacob Ruben	10 Desert Rose Ln	Silver City	NM	88061
Andazola Jerry G Andazola Josie	Po Box 61	Bayard	NM	88023
Andazola Tony G Jr Logan Sandra D	408 N Railroad	Bayard	NM	88023
Anderson Ken C	812 E Pine St	Silver City	NM	88061
Apodaca Raquel M	Po Box 45	Hanover	NM	88041

Table of Noticed Citizens

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Apostolic Assembly Of The Faith In Christ Jesus	Po Box 1364	Bayard	NM	88023
Apostolic Church	Po Box 677	Santa Clara	NM	88026
Araiza Helen & Paul Cano Joan Araiza	20 Lea Dr	Hurley	NM	88043
Araiza Joclyn N	208 B Street	Hurley	NM	88043
Arciero Leopoldo Etal	Po Box 563	Bayard	NM	88023
Arciero Maria Arciero Vanessa M	263 Thorn Ave Apt C	El Paso	TX	79932
Arciero Marie E Arciero Michael B	Po Box 5	Hanover	NM	88041
Arciero Rosemary D	Po Box 1022	Bayard	NM	88023
Arellano Gary & Arellano Lucille	619 Lusk St	Bayard	NM	88023
Arellano Gary Arellano Lucille	Po Box 487	Bayard	NM	88023
Arias Beatrice H	Po Box 205	Bayard	NM	88023
Arias Consuelo G	Po Box 1348	Bayard	NM	88023
Arias David & Arias Eileen	Po Box 1091	Santa Clara	NM	88026
Arias Mary Lou G	Po Box 145	Vanadium	NM	88023
Ariaza Arturo D	Po Box 702	Hurley	NM	88043
Armendariz Denelle	Po Box 669	Bayard	NM	88023
Armendariz Eddie J & Armendariz Mary	Po Box 1132	Kearney	AZ	85237
Armijo Darlene Lannette Barela Denise Jeanette	Po Box 670	Bayard	NM	88023
Armijo Zachary	216 Romero Ave	Santa Clara	NM	88026
Arnspiger Dola Jane	29 Hot Springs Canyon	San Lorenzo	NM	88041
Arredondo Cresencio & Arredondo Veronica L	902 Rogers Street	Bayard	NM	88023
Arredondo Santiago & Arredondo Barbara	1416 Lead St.	Lordsburg	NM	88045
Arrey Albert N & Mary Ann	65280 East Rose Ridge Court	Tucson	AZ	85739
Arrey Amanda L	203 N Main St	Bayard	NM	88023
Arrey Eddie Arrey Reina	Po Box 953	Bayard	NM	88023
Arrey-Lopez Frances & Arrey Guadalupe T	Po Box 36	Mimbres	NM	88049
Arthur Loree Ann	115 Elguea Ave	Hurley	NM	88023
Arzate Hector O	610 Guivevan St	Bayard	NM	88023
Arzola Angel C Arzola Yvonne P	210 N Yucca Street	Bayard	NM	88023
Arzola Michael E	Po Box 708	Bayard	NM	88023
Arzola Reuben C Jr	Po Box 382	Hurley	NM	88043
Aubry Laura & Demars-Conoly Charles W	208 Pine St	Bayard	NM	88023
Avila Narciso L	Po Box 618	Bayard	NM	88023
Avilucea Emilia A	Po Box 1476	Bayard	NM	88023
Avilucea Martina	4140 W Coneflower Ln	Santan Valley	AZ	85142
Babcock Peter Jaynes	900 Waggoner St	Bayard	NM	88023-9802
Baca Antonia G & Baca Rudy P Et Al	Po Box 578	Hurley	NM	88043
Baca Eddie J Jr	4597 Rimrock Court	Las Cruces	NM	88012
Baca Elijah R	3 Pattie Ave	Hurley	NM	88043
Baca Guadalupe	708 Lusk Street	Bayard	NM	88023
Baca Jimmy C Baca Della P	Po Box 842	Hurley	NM	88043
Baca Robert & Walton Baca Elizabeth	201 Aztec	Hurley	NM	88043
Bachmaier William	Po Box 308	Silver City	NM	88062
Badillo Jesus & Arellano Aiyana	Po Box 101	Bayard	NM	88023
Bagley Robert E Bagley Sandra K	Po Box 316	Hanover	NM	88041
Baldwin Katherine Ann & Baldwin Jeffery John	4618 Praire Trail	Prescott	AZ	86301
Barela Benjamin J & Barela Marta R	7921 N Patrick Henry Pl	Tucson	AZ	85751
Barela Stella M	992 Ivory Road Se	Rio Rancho	NM	87124
Barker John M	315 Pattie Ave	Hurley	NM	88043
Barnes Rory C & Fisher Shar	106 Pattie Ave.	Hurley	NM	88043
Barragan Arlene	701 Lusk St	Bayard	NM	88023
Barrall George & Barrall Pamela S	6952 Grandwood Way	San Jose	CA	95120
Barraza Brandi	Po Box 538	Silver City	NM	88062
Barraza Lupe & Escarcega Jose M	Po Box 1151	Bayard	NM	88023
Barraza Martha Barraza Kandice	710 Fahey St	Bayard	NM	88023-9737
Barreno Daniel Barreno Jenny	Po Box 429	Santa Clara	NM	88026
Barrera Jose Barrera Carmen	Po Box 847	Bayard	NM	88023
Barrow Peggy Clydeon Etal	Po Box 501	Pinetop	AZ	85935
Bartels Janine R	Po Box 244	Hurley	NM	88043-0526
Bartlett Bernard Bartlett Rebecca H	Po Box 733	Hurley	NM	88043
Baske Delbert M Baske Marlene G	34 Patagonia Ln	Animas	NM	88020
Bates Richard O	Po Box 32	Hurley	NM	88043
Baxter Jason	16 Acorn Dr	Silver City	NM	88061
Bayard Church Building Fund	Po Box 213	Bayard	NM	88023
Bayard Lions Corporation	Po Box 16	Bayard	NM	88023
Beeman Kay L	Po Box 121	Hurley	NM	88043
Beers John Thomas	621 E Apache St	Silver City	NM	88061
Begay Nellie & Sam Jenny A	Po Box 1225	Bayard	NM	88023
Beilue Sam L & Floyd, Elizabeth	Po Box 716	Hurley	NM	88043
Benavidez Cynthia J & Benavidez Marge	5541 East Copper Street	Tucson	AZ	85712
Benavidez James M & Benavidez Stephany N	37 Lea Drive	Hurley	NM	88043
Bencomo Teresa & Barela Ruth	Po Box 466	Bayard	NM	88023
Bernal Ararath Gaxiola	304 Santa Rita Ave	Hurley	NM	88043
Bernal Louis M Bernal Mary Helen	719 Winifred Street	Bayard	NM	88023
Bernstein Stacey	214 Romero Ave	Hurley	NM	88043
Berry Jacque E	Po Box 451	Hurley	NM	88043
Berry Sondra Lee	Po Box 552	Hurley	NM	88043
Black Larry David	713 Winifred St	Bayard	NM	88023-9730
Blackman Dawna J		Hanover	NM	88041
Blackman Eric	11891 Hwy 180	Arenas Valley	NM	88022
Blagg Douglas S & Blagg Karen R	78 Spring Creek Rd	Silver City	NM	88061
Blakes Lotaburger Llc	3205 Richmond Dr Ne	Albuquerque	NM	87107
Blevins Rayca & Blevins Bradford Thor	Po Box 2825	Silver City	NM	88062
Blount Amanda Lea	Po Box 131	Bayard	NM	88023
Bonner Arlene S	301 Aztec	Hurley	NM	88043
Bootzin James	316 Red Rock Road	Silver City	NM	88061
Borunda Albert Borunda Genvieve	Po Box 92	Hanover	NM	88041
Borunda Henry A & Borunda Elsa A	Po Box 383	Hurley	NM	88043

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Name	Address	City	State	Zip Code
Bothroyd Sterling & Drake Raven	Po Box 25	Bayard	NM	88023
Bradberry Robert K & Baumbaugh Tami Olene	Po Box 881	Hurley	NM	88043
Bradbury Family Revocable Living Trust	31525 Larga Vista	Valley Center	CA	92082
Breed Laura M	Po Box 54	Hanover	NM	88041
Brewer John R & Brewer Lynda L	Po Box 122	Hurley	NM	88043
Brewer Joyce V Et Al	302 Anza St	Hurley	NM	88043
Brindley Raymond D Jr Brindley Darlene A	Po Box 922	Hurley	NM	88043
Brite Alton Howard Jr & Brite Deborah R	4920 E Massey Ridge Place	Tucson	AZ	85756
Britton Randal W & Britton Olivia C	Po Box 2531	Silver City	NM	88062
Brooks Jessica Y	202 Pattie Ave	Hurley	NM	88043-9715
Brown Alex Brown Rebecca	Po Box 398	Hurley	NM	88043
Brown Errol T & Clinton Amanda	312 Anza St	Hurley	NM	88043
Brown Michael J & Braddock Mary B	Po Box 194	Bayard	NM	88023
Bruemmer Dean R & Bruemmer Isaac	17 Jackass Ln	Mimbres	NM	88049
Bubnich Terry Michael	12 Pattie Ave	Hurley	NM	88043
Burnard Russell J & Headtke Jennifer E Trust	Po Box 2746	Seward	AK	99664
Burnette Jr Burnette Karen N	P.O. Box 953	Hurley	NM	88043
Bushey Bradford A & Bushey Sheri R	Po Box 544	Hurley	NM	88043
Bustamante Jesse & Ventura	Po Box 593	Hurley	NM	88043
Bustamante Michael , Sonia	4010 Grande Vista Blvd. Apt. 118	Saint Augustine	FL	32084
Butikofer Gordon	313 Chino St	Bayard	NM	88023
Butterfield Shelly D	2004 Delk Dr	Silver City	NM	88061
Byington David Nelson	Po Box 854	Hurley	NM	88043
Cabrera Gabriel M & Cabrera Ashley B	Po Box 416	Bayard	NM	88023
Cabrera Paul M Cabrera Delia M	Po Box 263	Bayard	NM	88023
Cabrera Sammy M Cabrera Barbara G	203 Nevada Ave	Hurley	NM	88043
Cain James Stephen	405 E St	Hurley	NM	88043
Caine Ken Winston	315 Elguea Ave	Hurley	NM	88043
Caldera Alberto Caldera Debra A	Po Box 691	Bayard	NM	88023
Call Marion L Call Lynda S	Po Box 1014	Hurley	NM	88043
Callaway Ralph Charles	Po Box 75	Hanover	NM	88041-0075
Campos Ramon P Campos Rose Marie	209 A Street	Hurley	NM	88043
Candelaria Antonio H & Candelaria Sylvia O	412 N Railroad Street	Bayard	NM	88023
Candelaria Michelle	508 C St	Hurley	NM	88043
Cano Rita	711 Fahey	Bayard	NM	88023
Cano Rogelio Q	400 Main St	Bayard	NM	88023
Capach Kenneth Norman	Po Box 84	Bayard	NM	88023
Carabajal Flora	Po Box 276	Bayard	NM	88023
Carbajal Ernesto	8370 Needless Eye Rd Se	Deming	NM	88030
Carbajal Frank Carbajal Alvino C/O	1304 Boston	Las Cruces	NM	88001
Carbajal Jeff A Carbajal Rachel H	Po Box 1375	Bayard	NM	88023
Cardoza Luis S	2101 Pinon St	Silver City	NM	88061
Cardoza Luis S & Cardoza Rowena A	2101 Pinon Street	Silver City	NM	88061
Carrasco Daniel H	Po Box 215	Hurley	NM	88043
Carrasco Dwayne	Po Box 495	Bayard	NM	88023
Carrasco Patsy A Carrasco Samuel C	603 1/2 Taylor St	Bayard	NM	88023
Carrasco Ruben C Carrasco Erma	Po Box 1011	Bayard	NM	88023
Carrasco Sammy C Carrasco Patsy A	603 1/2 Taylor Street	Bayard	NM	88023
Carreon Graciela	Po Box 1334	Columbus	NM	88029
Carreon Juan A & Carreon Mary A	Po Box 597	Bayard	NM	88023
Carreon-Altamirano Rosalinda & Raul Jr	Po Box 245	Dona Ana	NM	88032
Carrillo Robert J Carrillo Yvonne A	Po Box 426	Bayard	NM	88023
Carrillo Tomas U Etal	Po Box 354	Bayard	NM	88023
Carter Ralph Jesus & Carter Marie Ethel	801 Benjamin Street	Bayard	NM	88023
Casarez Family Trust	706 Bard Street	Bayard	NM	88023
Cassel Brett Wayland	Po Box 267	Hurley	NM	88043
Castaneda Benjamin	1208 Central Ave	Bayard	NM	88023
Castanon David A Castanon Arlene O	Po Box 814	Santa Clara	NM	88026
Castanon David M Castanon Virginia R	Po Box 1001	Bayard	NM	88023
Castanon Paul	Po Box 845	Hurley	NM	88043-0845
Castillo Ana L & Johnson Ana L	5798 Organ Peak	Las Cruces	NM	88012
Castillo Angela T Castillo Eric	Po Box 274	Hurley	NM	88043
Castillo Corina Nicole	Po Box 127	Santa Clara	NM	88026
Castillo Helen Rios	Po Box 506	Bayard	NM	88023
Castillo Isaac	620 Taylor Street	Bayard	NM	88023
Castillo Israel	Po Box 980	Bayard	NM	88023
Castillo Israel C & Castillo Anna Liza	Po Box 1296	Santa Clara	NM	88026
Castillo Joe R Castillo Irene	Po Box 235	Bayard	NM	88023
Castillo Martha	27736 West Frontage Road	Santa Fe	NM	87507
Castillo Rodolfo L & Dolores, Monica	704 Fahey Street	Bayard	NM	88023
Castillo Rosemary G	Po Box 315	Bayard	NM	88023
Castillo Rudy C	173 Racetrack Road	Arenas Valley	NM	88022
Castro Rudy & Eaton Summer	607 S State Street	Deming	NM	88030
Cates Ashley & Cates Amber	4000 Flynn St. #83	Bellingham	WA	98229
Cates Sydney Cates Edith	Po Box 644	Mimbres	NM	88049
Catholic Diocese Of Las Cruces	1280 Medpark Drive	Las Cruces	NM	88005
Chacon David G & Chacon Regina C	1024 Calle De Suenos	Santa Fe	NM	87507
Chacon Eva S Chacon Serapio	Po Box 104	Tucumcari	NM	88401
Chacon John L & Chacon Irene D	618 Taylor St	Bayard	NM	88023
Chacon Lupe M	Po Box 821	Bayard	NM	88023
Chanez Cornelio T	Po Box 893	Hurley	NM	88043
Chanez Reynaldo T Chanez Olivia	Po Box 803	Hurley	NM	88043
Chappell Francis	Po Box 457	Hurley	NM	88043
Chavez Alfred C	Po Box 13	Bayard	NM	88023
Chavez Alfred L	Po Box 248	Bayard	NM	88023
Chavez Andy Chavez Edelia	Po Box 355	Hanover	NM	88041
Chavez Arnold M Chavez Alice R	Po Box 27	Elizabeth	LA	70638
Chavez Arthur Altamirano	199 N Hurley Rd	Hurley	NM	88043
Chavez Carolina Holguin	Po Box 1191	Bayard	NM	88023

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Name	Address	City	State	Zip Code
Chavez Erica R	Po Box 414	Bayard	NM	88023
Chavez Gloria	Po Box 569	Bayard	NM	88023
Chavez Isaac	Po Box 664	Hurley	NM	88043
Chavez Isaac & Chavez Toni	104 Ridgeview Dr	Hephzibah	GA	30815
Chavez Jesus Z Chavez Maria Elena C	105 Main St	Bayard	NM	88023
Chavez Joseph	90 North Hurley Rd	Hurley	NM	88043
Chavez Joseph & Marrufo Angelina	90 North Hurley Rd	Hurley	NM	88043
Chavez Julie Irene	715 Taylor St	Bayard	NM	88023
Chavez Manuel M	Po Box 624	Hurley	NM	88043
Chavez Mary Veronica	Po Box 259	Hurley	NM	88043
Chavez Olga V	Po Box 709	Bayard	NM	88023
Chavez Rachel	Po Box 272	Bayard	NM	88023
Chavez Raymond & Chavez Christina	Po Box 111	Hurley	NM	88043
Chavez Raymond H Chavez Marie	Po Box 239	Hurley	NM	88043
Chavez Richard B & Chavez Eloisa	2125 Pinon St	Silver City	NM	88061
Chavez Richard H Jr	14 Romero	Hurley	NM	88043
Chavez Ronald M & Chavez Catalina F	110 C Street	Hurley	NM	88043
Chavez Rufina A Chavez Larry A	Rr 1 Box 159-A	Hurley	NM	88043
Chavez Rufina Etal	Rt 1 Box 159A	Hurley	NM	88043
Chavez Ted Loera Julie M	Po Box 292	Hanover	NM	88041
Chavira Edna Marie	Po Box 721	Bayard	NM	88023
Chavira Joseph G & Sedillos Linda Q	Po Box 85	Santa Clara	NM	88026
Chavira Lorraine & Martinez Peter	1519 Loren Ln	Gilbert	AZ	85296
Chavira Lucy	Po Box 11	Hurley	NM	88043
Chavira Wilfred	Po Box 266	Hurley	NM	88043
Childs Perry & Atwater Stephanie	Po Box 643	Bayard	NM	88023
Chino Federal Credit Union	9 Hill St.	Hurley	NM	88043
Christopher Coleman & Lynette	Po Box 907	Hurley	NM	88043
Church Of Christ	Po Box 1393	Bayard	NM	88023
City Of Bayard	Po Box 728	Bayard	NM	88023
Clair Glenn Neil	718 Royal St	Bayard	NM	88023-9773
Clanton Jimmy W & Clanton Patricia	105 Nevada Ave	Hurley	NM	88043
Clark Michael D Clark Yvonne E	15 Carrasco Ave.	Hurley	NM	88043
Cobre Consolidated School Dist 2	Po Box 1000	Bayard	NM	88023
Cobre Property & Equity Llc	Po Box 1395	Silver City	NM	88062
Collie Stephen D & Moseley Susan Lee	20 Rainbow Rd	San Lorenzo	NM	88041
Conklin Arlena A	Po Box 625	Hurley	NM	88043
Contor Nicholas C Contor Vergena H	404 S Railroad St	Bayard	NM	88023
Cook George & Cook Juanita	Po Box 1215	Bayard	NM	88023
Cook Richard E Cook Eva Kay	305 Elguea	Hurley	NM	88043
Cordova Adam Gregory	Po Box 465	Tyrone	NM	88065
Cordova Francisco A Cordova Lucille T	705 Taylor Street	Bayard	NM	88023
Coria Belen T & Valadez Ana M	4328 East Nancy Ln	Phoenix	AZ	85042
Corliss Charlie R	9824 Hwy 180 West	Silver City	NM	88061
Correa Emma C Willie John C & Lopez Mary E	Po Box 97	Bayard	NM	88023
Cortez Andre Saiz & Martinez Maria	305 Fran Dr	Hurley	NM	88043
Cortez Robert M	102 C St	Hurley	NM	88043
Costello Maureen	9 Pattie Ave	Hurley	NM	88043
County Of Grant	Po Box 898	Silver City	NM	88062
Coverston Donald Jr	Po Box 981	Bayard	NM	88023
Cowles Family Trust	4201 Corbett Dr, Apt 205	Fort Collins	CO	80525
Cox H R Family Trust	Po Box 1916	Deming	NM	88031
Cravens Roma Jean	604 Winifred St	Bayard	NM	88023
Crawford Dean W Crawford Iris	313 Elguea St	Hurley	NM	88043
Crespin Selina M	713 Rogers St	Bayard	NM	88023
Criswell Dean	Po Box 617	Tyrone	NM	88065
Criswell Patrick H & Criswell Janet M	Po Box 73	Hurley	NM	88043
Crow Kevin D Crow Carolyn Gale	211 Nevada Ave	Hurley	NM	88043-9718
Crow Mary Beth	306 Pattie Ave	Hurley	NM	88043
Cruz Alejandra	5 Realta Dr	Silver City	NM	88061
Cruz Jenny	102 Nevada St	Hurley	NM	88043
Cruz Juan Martin Alvarado & Alvarado Maria	Po Box 483	Bayard	NM	88023
Cuevas Virginia T	Po Box 1161	Bayard	NM	88023
Dalton Alfonso Jr Dalton Ruth P	Po Box 1483	Bayard	NM	88023
Damjo Llc U/C	Po Box 446	Bayard	NM	88023
Davis Jerry & Davis Kayleen Et Al	Po Box 631	Hurley	NM	88043
Dawson Lonnie L	Po Box 727	Hurley	NM	88043
Day Nanette	112 Carrasco Ave	Hurley	NM	88043
De La Torre Elicia	Po Box 187	Mimbres	NM	88049
De La Torre Gilbert De La Torre Terri A	Po Box 332	Bayard	NM	88023
De La Torre Lorenza	Po Box 724	Bayard	NM	88023
De La Torre Vicente T & De La Torre Sylvia S	Po Box 653	Bayard	NM	88023
De Leon Lionel & De Leon Susan	4020 Josefita Rd Se	Deming	NM	88030
De Luna Gerald D & Faudoa Gloria	Po Box 783	Santa Clara	NM	88026
Dean Clara Baca	Po Box 647	Hurley	NM	88005
Dean Freddie S & Estella Dean	Po Box 558	Bayard	NM	88023
Dean James B Dean Tammy J	Po Box 1624	Silver City	NM	88062
Dean Robert Dean Isabel J	Po Box 165	Bayard	NM	88023
Deanda Rodolfo	1320 Torrance Ave	Sunnyvale	CA	94089
Debarr Antonia Rodriquez	1930 S Broadway St	T Or C	NM	87901-3112
Defausell Irma J	Po Box 178	Bayard	NM	88023
Degenevieve Karen	5407 Hwy 152	Hanover	NM	88041
Delgado Angie G	Po Box 528	Santa Clara	NM	88026
Delgado Consuelo A	Po Box 464	Bayard	NM	88023
Delgado Daniel G Delgado Socorro I	4331 Desert Bloom Drive	Las Cruces	NM	88007
Delgado Fabian & Delgado Mayra	Po Box 86	Bayard	NM	88023
Delgado Ralph P	51 W Eric Dorman St	Vail	AZ	85651
Delgado Trust	Po Box 1179	Bayard	NM	88023
Denton Elizabeth Ann	Po Box 1312	Bayard	NM	88023

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Name	Address	City	State	Zip Code
Diaz Jerome & Torres Valerie Lucero	507 C St	Hurley	NM	88043
Diaz Jose L Diaz Judith A	Po Box 829	Bayard	NM	88023-0829
Diaz Mary Lou Diaz Brian	2201 Wild Oak Crescent	Virginia Beach	VA	23456
Diaz Miguel	Po Box 650	Bayard	NM	88023
Diaz Patricia K Diaz Eddie J	27505 N Felix Rd	Florence	AZ	85132
Dillard Nina & Silagy Kenneth	213 Carrasco Ave	Hurley	NM	88043
Disclaimer Trust	Po Box 159	Lordsburg	NM	88045
Dixon John	Po Box 531	Santa Clara	NM	88026
Dobson Brian G Et Al	Rri Box 70 14 Geronimo St	Hurley	NM	88043
Dodson Donald Dodson Wanda	5038 Montezuma Ave	Las Cruces	NM	88011
Dominguez Albert	4828 Whispering Hills	Silver City	NM	88061
Dominguez Charles Daniel	Po Box 4039	Silver City	NM	88061
Dominguez Jerardo	16610 Cobalt Court	Chino Hills	CA	91709
Dominguez Juan Silva	56 North Hurley Road	Hurley	NM	88043
Dominguez Mary Christina Rodriguez	1600 Winifred	Bayard	NM	88023
Dominguez Randall J & Priscilla M	158 N Hurley Rd	Hurley	NM	88043
Dominguez Susano S Dominguez Hector S	6230 W Georgia Avenue	Glendale	AZ	85301
Dove Cody L	608 1/2 North Street	Bayard	NM	88023
Draper Chris & Draper Amanda	Po Box 337	Hurley	NM	88043
Driver Donald A & Driver Margaret Frances	5855 Hwy 152	Hanover	NM	88041
Duarte Anabel Luab & Luab Pia	Po Box 645	Bayard	NM	88023
Duarte George T	Po Box 509	Bayard	NM	88023
Duarte Robert & Duarte April	2401 Johnson Rd	Silver City	NM	88061
Dunagan Gloria V	Po Box 833	Bayard	NM	88023
Dunaway Jack H Dunaway Stephanie H	Po Box 725	Hurley	NM	88043
Duran Gilbert & Duran Syliva A Et Al	4518 E Cooper St	Tucson	AZ	85711
Duran Jennifer Nicole	Po Box 2732	Silver City	NM	88061
Duran Rogelio And Duran Gloria G	Po Box 1153	Bayard	NM	88023
Durham Clyde S	Po Box 153	Bayard	NM	88023
Dusablon Paul R Jr & Dusablon Paul Ii	99 Mulbery Drive	Many	LA	71449
Duvall Roy C & Salcido Benigna A	Po Box 163	Hurley	NM	88043
Eby Colter & Eby Anissia Marie Gonzales	503 C Street	Hurley	NM	88043
Eby Larry & Eby Rose Ann	Po Box 305	Tonto Basin	AZ	85553
Edwards Sherry Revocable Trust	806 Virginia St	Bayard	NM	88023
Ekins Richard P	206 Aztec Ave	Hurley	NM	88043
Elliott Amanda	Po Box 774	Hurley	NM	88043
Ellis Tom	Po Box 27111	El Paso	TX	79926
Encinas Edward & Arenibas Rocky Et Al	Po Box 342	Hurley	NM	88043
Enriquez Consepcion Trejo Etal	904 Rogers St	Bayard	NM	88023
Epperson Jane H	19 Talissa Drive	Silver City	NM	88061
Escobar Adam	1339 W Calle Rio Rojo	Tucson	AZ	85714-1173
Escobar Alex L Escobar Dora G	Po Box 1145	Bayard	NM	88023
Escobar Emiterio A & Patricia & Cuhen Ernest	108 S Yucca	Bayard	NM	88023
Escudero Larry L Escudero Barbara	Po Box 589	Bayard	NM	88023
Esparza Ernesto T	7130 Cortland Avenue	Paramount	CA	90723
Esparza Ernesto T Et Al	7130 Cortland Ave	Paramount	CA	90723
Esparza Shawn & Francisco Nicole	Po Box 1118	Bayard	NM	88023
Espinosa Daniel	102 Hurley Ave Apt 2	Bayard	NM	88023
Espinosa Margaret L & Espinosa Daniel	5400 Plainviewdrive	El Paso	TX	79924
Esqueda Baldomero S Esqueda Virginia	Po Box 903	Bayard	NM	88023
Esqueda George L Esqueda Aurelia B	Po Box 543	Bayard	NM	88023
Esqueda Johnny A Esqueda Margarita	Po Box 852	Bayard	NM	88023
Estrada Juan M Estrada Alice T	Po Box 974	Bayard	NM	88023
Estrada Otilea D	Po Box 1237	Bayard	NM	88023
Estrada Stephen & Estrada Genevieve	600 N Canyon St	Bayard	NM	88023
Evans David L & Nancy Living Trust	12449 Hwy 180 East	Hurley	NM	88043
Facio Martin Facio Bernardo	2214 S Slate St	Deming	NM	88030
Fallon Dorothy P	Po Box 1	Santa Clara	NM	88026
Farr Ila Fay & Cook Eva Kay Et Al	305 Elguea St	Hurley	NM	88043
Faustino Gabriel & Luis & Diana	112 Canyon	Bayard	NM	88023
Federal National Mortgage Association	14221 Dallas Parkway Suite 1000	Dallas	TX	75254-2916
Felix Robert Felix Samuel	Po Box 473	Hurley	NM	88043
Ferrel Esther R	Po Box 745	Santa Clara	NM	88026
Fetty Tony J	5701 Jessica Ct Nw	Albuquerque	NM	87120
Fierro Concepcion & Fierro Elizabeth Et Al	Po Box 126	Bayard	NM	88023
Fierro Jamie	Po Box 373	Hanover	NM	88041
Figueroa Robert A Dominguez Dominique V	Po Box 831	Bayard	NM	88023
Filkins Laura N Filkins Larry	Po Box 186	Hurley	NM	88043
Finik John M	9 Cerro St	Hanover	NM	88041
First Baptist Church Of Bayard New Mexico	Po Box 99	Bayard	NM	88023
Fisher Troy & Smith Allysia	Po Box 278	Hurley	NM	88043
Fleming James U Jr Revocable Living Trust	1800 Us Highway 180E	Silver City	NM	88061
Fletcher Michael D	Po Box 336	Bayard	NM	88023
Fletcher Richard A	Po Box 182	Santa Clara	NM	88026
Fletcher Willie J & Charlene & Willie Jr	Po Box 324	Bayard	NM	88023
Flores Adam C & Flores Alice C	Po Box 511	Santa Clara	NM	88026
Flores Corrine & Flores Vivian R	1878 Hwy 180 E	Silver City	NM	88061
Flores David C & Vega Sofia	Po Box 220	Bayard	NM	88023
Flores Felix C	Po Box 549	Bayard	NM	88023
Flores Francine G & Flores Pat G	Po Box 376	Bayard	NM	88023
Flores Frank C Jr	Po Box 636	Bayard	NM	88023
Flores Melanie C Flores Jose	Po Box 805	Bayard	NM	88023
Flores R Aidan U/C	Po Box 771	Santa Clara	NM	88026
Flores Richard Romero Rosa	211 Elguea Ave	Hurley	NM	88043
Flores Roy C	Po Box 394	Hanover	NM	88041
Ford Elizabeth A	4 Elguea Ave	Hurley	NM	88043
Foy James B & Foy Valvina A	Po Box 1341	Silver City	NM	88062
Francisco Nelson & Jannie	Po Box 943	Bayard	NM	88023
Frantom Robbie & Frantom Martha	127 Geronimo St	Hurley	NM	88043

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Name	Address	City	State	Zip Code
Fraser Ryan Andrew	16 Elguea Ave	Hurley	NM	88043
Freeman Daniel K	2291 Highway 61	San Lorenzo	NM	88061
Gabaree Lorenza S Gabaree Steven M	Box 1184	Bayard	NM	88023
Gabaree Steven & Gabaree Lorenza	Po Box 1184	Bayard	NM	88023
Gade Alice R	110 E St	Hurley	NM	88043
Gahesada Llc	5 Yucca Valley	Arenas Valley	NM	88022
Galindo Armando & Maria Elena	340 Skyview Dr	Silver City	NM	88061
Galindo Vicki	2416 Village Drive	Silver City	NM	88061
Gallagher Tauna Kay	Po Box 841	Hurley	NM	88043
Gallardo Debra I & Robert M Gallardo Et Al	Po Box 391	Hurley	NM	88043
Gallardo Josie G	Po Box 489	Bayard	NM	88023
Gallegos Joe S Jr	Box 87	Vanadium	NM	88023
Gallegos Severo H & Gallegos Martha G	Po Box 112	Bayard	NM	88023
Gandara Mary Ann Martinez & Martinez Anthony	160 South St	La Union	NM	88021
Garay Guadalupe & Garay Susan	104 Momsen St	Bayard	NM	88023
Garcia Abraham A	2809 San Miguel Ct.	Las Cruces	NM	88007
Garcia Angelina T Garcia Alonzo T & Rene T	3035 Terrace Dr #301	Las Cruces	NM	88011
Garcia Bernie & Lilly	7614 S 13Th Place	Phoenix	AZ	85042
Garcia Carmen M Etal	Po Box 95	Bayard	NM	88023
Garcia Celia (Sally) L Vega Dolores M	202 B St	Hurley	NM	88043
Garcia Christal Talamantes	603 Encino St	Santa Clara	NM	88026
Garcia Cynthia	7743 Bairnsdale St	Downey	CA	90240
Garcia Daniel G & Garcia Mona Trujillo	Po Box 2752	Las Cruces	NM	88004
Garcia Gloria G	Box 103	Vanadium	NM	88023
Garcia Greg & Amador Camille	1835 S Picacho Hwy	Picacho	AZ	85141
Garcia Irene L	Po Box 568	Bayard	NM	88023
Garcia Jeremy A	121 W Daniel Street	Silver City	NM	88061
Garcia Juanita F & Martinez Thomas Gilbert	505 Empire St	Bayard	NM	88023
Garcia Manuel Jose	Po Box 340	Bayard	NM	88023
Garcia Mary Ellen & Garcia Patrick V	Po Box 470	Bayard	NM	88023
Garcia Ruth O	Po Box 411	Bayard	NM	88023
Garcia Steven	627 Fallon Ave	Santa Clara	CA	95050
Garcia Trinidad P	240 Arenas Valley Road	Silver City	NM	88061
Gardner Jeremy L	4510 N. Swan	Silver City	NM	88061
Garza Ricardo E Ii & Rodriguez Valerie L	710 Winifred St	Bayard	NM	88023
Gavaldon Ernesto Trust	703 N St	Bayard	NM	88023
Gavaldon Jose & Apodaca Karen	880 Desert Senna Ave Sw	Los Lunas	NM	87031
Gavaldon Lydia Et Al	Po Box 500	Bayard	NM	88023
Gaydos Linda F	315 Anza	Hurley	NM	88043
Gdl Family Irrevocable Trust Agreement	15058 Leaf Lane	Victorville	CA	92394
Geary Sylvia M Et Al	Po Box 751	Bayard	NM	88023
Giambernardi Virgil E Family Trust	Po Box 866	Bayard	NM	88023
Gigger Beverly J	Box 311	Hurley	NM	88043
Gilbert John R Jr Gilbert Kathie S	3451 Ursa Minor	Silver City	NM	88061
Gilsoul Laurence P	25 Lea Drive	Hurley	NM	88043
Giusto Michael R	620 Apache Circle	Silver City	NM	88061
Godbout Bryan M	904 Blackhawk St	Bayard	NM	88023
Godfrey Kim K	Po Box 2816	Silver City	NM	88062
Godoy Frank R Gonzales Jovita G	Po Box 356	Bayard	NM	88023
Godoy Irene F & Godoy Samuel Anthony Et Al	708 Rogers St	Bayard	NM	88023
Goe Gloria I	Po Box 64	Hurley	NM	88043
Golden Valley Llc	4065 E University Dr., Lot 253	Mesa	AZ	85205
Gomez Ashley P	3100 Tahiti St Ne	Albuquerque	NM	87111
Gomez Daniel P	17136 Athol St	Fontana	CA	92335
Gomez Daniel U/C	43 Lea Drive	Hurley	NM	88043
Gomez Elmo M	82 Shasta St	Silver City	NM	88061
Gomez Eva A	2382 Barclay Ct	Las Cruces	NM	88001
Gomez Felipe S Et Al	Po Box 522	Santa Clara	NM	88026
Gomez Jeffrey Stephen	6815 S 5Th Ave	Tucson	AZ	85756
Gomez Jeffrey U/C	Po Box 231	Bayard	NM	88023
Gomez Mauro A	2705 W Hadley Ave	Las Cruces	NM	88007
Gomez Michael R Gomez Carmen	Box 718	Bayard	NM	88023
Gomez Michael R Gomez Carmen A	Po Box 718	Bayard	NM	88023
Gomez Ruben & Gomez Yvonne	Po Box 1285	Bayard	NM	88023
Gomez Ruben R & Gomez Jose Luis Sr	Po Box 630	Bayard	NM	88023
Gomez Sam	62 N Hurley Rd	Hurley	NM	88043
Gomez Sam & Gomez Lisa	62 N Hurley Road	Hurley	NM	88043
Gonzales Alejandro G Et Al	502 Empire St	Bayard	NM	88023
Gonzales Alfonso P Jr Gonzales Patricia I	Po Box 565	Santa Clara	NM	88026
Gonzales Alfredo C Gonzales Mary Ann	Po Box 823	Bayard	NM	88023
Gonzales Andrew Diaz	620 Guinevan St	Bayard	NM	88023
Gonzales Anissia M	Po Box 695	Hurley	NM	88043
Gonzales Anthony P Pena Elaine M	Po Box 1263	Santa Clara	NM	88026
Gonzales David C	Po Box 697	Hurley	NM	88043
Gonzales Donald A	761 Spear Drive	Silver City	NM	88061
Gonzales Eloy M & Gonzales Annie G	Po Box 62	Bayard	NM	88023
Gonzales Ester & Gonzales Sandra	Po Box 43	Hurley	NM	88043
Gonzales Fred J & Gloria & Yvette	806 Empire Street	Bayard	NM	88023
Gonzales Gilbert H Gonzales Antonia	720 Fahey St	Bayard	NM	88023
Gonzales Jenaro & Valentina	Po Box 1016	Bayard	NM	88023
Gonzales Jesus A	105 A Street	Hurley	NM	88043
Gonzales Jose Gabriel & Valentina	118 S Franey Street #1016	Bayard	NM	88023
Gonzales Jovita G	Box 356	Bayard	NM	88023
Gonzales Manuel David L	Po Box 286	Hurley	NM	88043
Gonzales Maria Inez	306 B St	Hurley	NM	88043
Gonzales Mark Etal	616 Bard St	Bayard	NM	88023
Gonzales Melissa Kelly	700 Lusk St	Bayard	NM	88023
Gonzales Mike S & Eby Anissia M Gonzales	503 C Street	Hurley	NM	88043
Gonzales Reina H	4243 Downing	Baldwin Park	CA	91706

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Name	Address	City	State	Zip Code
Gonzales Selah Lee	208 N Yucca St	Bayard	NM	88023
Gonzales Violet	Po Box 203	Hurley	NM	88043
Gonzalez Fred A & Gonzalez Adelina D	Po Box 579	Bayard	NM	88023
Gonzalez Guillermo "Willie" & Virginia Revocable Trust	Po Box 1363	Bayard	NM	88023
Gonzalez Jordan Sr	598 Yucca	Bayard	NM	88023
Gonzalez Loren P Gonzalez Tammy L	Po Box 303	Hurley	NM	88043
Gonzalez Martha Gonzalez Robert	Truck Bybass #56, Unit 3 #12	Silver City	NM	88061
Good Julie B	700 N Bullard	Silver City	NM	88061
Goodyear Charles & Goodyear Victoria	11837 Hwy 180 E	Areans Valley	NM	88022
Goodyear Harold L & Goodyear Gerri D	18 Pop Morrison St	Hurley	NM	88043
Grado Cynthia L & Grado Manuel C Et Al	119 E Buckey St	Deming	NM	88030
Grado Mickey F & Grado Christine	5114 Cottonwood Rd	Silver City	NM	88061
Granadino Amelia P Granadino Frank P Jr	95 North Hurley Road	Hurley	NM	88043
Granados Diana O	1318 W 19Th Pl	Safford	AZ	85546
Granillo Robert Allen & Courtney Nichole	Po Box 323	Bayard	NM	88023
Grant County	1400 Highway 180 East	Silver City	NM	88061
Gray Barry G & Duran Marisela	2340 Hwy 180 E #275	Silver City	NM	88061
Gray Bonnie L	Po Box 817	Hurley	NM	88043
Gray Duane A Gray Drury E	Po Box 785	Hurley	NM	88043
Gray Elizabeth J U/C	Po Box 977	Bayard	NM	88023
Gray Joann	7 Calle De Suenos	Alamogordo	NM	88310
Graziano Patricia O	Po Box 349	Hurley	NM	88043
Greenlee Virginia B	107 D St	Hurley	NM	88043
Griego Ruben Lee Revocable Trust	Po Box 364	Santa Clara	NM	88026
Griffin Pama La Ree	113 Patti St	Hurley	NM	88043
Griggs Leo C Jr Griggs Roseanne E	104 Carrasco Street	Hurley	NM	88043
Grijalba William H	22 Kneeling Nun Rd	Hanover	NM	88041
Grijalva Amber Lynn	161 Racetrack Rd	Arenas Valley	NM	88022
Grijalva Family Revocable Trust	5799 Hwy 152	Hanover	NM	88041
Grijalva Justin & Grijalva Rachel	1719 W. Placita Del Codillo	Sahuarita	AZ	85629
Grijalva Ramona M	Po Box 207	Hurley	NM	88043
Grijalva Rosemary	5791 Hwy 152	Hanover	NM	88041
Grush Graydon & Grush Candy Joint Living Trust	500 S 37Th Street Apt 503	Omaha	NE	68105
Guadiana Ruben	2425 Little Walnut Rd	Silver City	NM	88061
Guerra Jesse C	219 Culver Blvd	Playa Del Rey	CA	90293
Guerra Jesse C Revocable Trust	6039 Linda Way	Culver City	CA	90230
Guerrero Gilbert C Guerrero Theodora	Po Box 218	Bayard	NM	88023
Guerrero Rosario	1029 W Webb Dr	San Manuel	AZ	85631
Guerrero Samantha Renee	Po Box 527	Hurley	NM	88043
Guild Richard	2340 Highway 180 E, Pmb 234	Silver City	NM	88061
Gulick Adam T	5805 Hwy 152	Hanover	NM	88041
Guljas Andrew	317 Peru	Bayard	NM	88023
Guljas Frederick J	317 Peru St	Bayard	NM	88023
Gunter Elvira	Box 954	Hurley	NM	88043
Gurley Terrence & Gurley Nancy	Po Box 190	Mimbres	NM	88049
Gutierrez Arlene M Spurgeon Chetman	Po Box 519	Hurley	NM	88043
Gutierrez Arthur J Sr Gutierrez Rosemary L	0 Pattie St	Hurley	NM	88043
Gutierrez Carmen R Misquez- Et Al	Po Box 175	Bayard	NM	88023
Gutierrez Gilbert G & Gutierrez Catalina M	407 E. St.	Hurley	NM	88043
Gutierrez Joe F	306 E Street	Hurley	NM	88043
Gutierrez John L	2405 N Swathmore St	Silver City	NM	88061
Gutierrez Marley	113 Fierro Rd	Hanover	NM	88041
Gutierrez Mary Lou	306 E St	Hurley	NM	88043
Gutierrez Merlinda & Padillla Bernice Et Al	Po Box 318	Hurley	NM	88043
Gutierrez Rosemary E & Gutierrez Janice E	Po Box 202	Bayrad	NM	88023
Gutierrez Yolanda & Gutierrez Rose Ann	11674 Hwy 180 E	Silver City	NM	88061
Gvozdenovic Jovan	314 Cortez Ave	Hurley	NM	88043
Haan Sarah Katherine	Po Box 2841	Silver City	NM	88062
Hagaman Allen Hagaman Rose E	2865 W Irvington Rd	Tucson	AZ	85746
Hales Dougan J U/C	800 Watson St	Bayard	NM	88023
Hanover Mutual Domestic Water Association	Po Box 38	Hanover	NM	88041
Harris Milton Glenn & Harris Debra Ann	8736 W Hansury Rd	Marana	AZ	85653
Hausermann John Y	Po Box 1386	Bayard	NM	88023
Hawkins Beth Est	P.O. Box 2911	Silver City	NM	88061
Heckler Trevor J	12 Cortez Ave	Hurley	NM	88043
Hellyer Rojean	34 Cr 640 #12	Granby	CO	80446
Helton Richard	Po Box 864	Hurley	NM	88043
Helton Richard A Helton Nancy L	Po Box 298	Hurley	NM	88043
Henderson Kerri	Po Box 65	Bayard	NM	88023
Heredia John C & Heredia Carol	Po Box 68	Santa Clara	NM	88026
Hernandez Eugene F & Hernandez Kathy E Et Al	326 Palmer Rd	Las Cruces	NM	88005
Hernandez Joe M Hernandez Dora G	Po Box 773	Santa Clara	NM	88026
Hernandez Michael A & Hernandez Yvonne	Po Box 761	Bayard	NM	88023
Hernandez Miguel B & Hernandez Lucy O	Po Box 548	Bayard	NM	88023
Hernandez Miguel P & Vicenta Connie & Eloy C/O	Po Box 607	Bayard	NM	88023
Hernandez Roy J Hernandez Kim A	102 N Franey	Bayard	NM	88023
Herrera Charles & Herrera Stacy	394 Marisa Ct	Las Cruces	NM	88007
Herrera Crystal	Po Box 2	Bayard	NM	88023
Herrera Jenny	18 Lea Dr	Hurley	NM	88043
Herrera Kathleen E Revocable Trust U/C	Po Box 322	Bayard	NM	88023
Herrera Louis J & Torres Marie Antonette	Po Box 840	Bayard	NM	88023
Herrera Maria Del Carmen U/C	Po Box 516	Hurley	NM	88043-0516
Herrera Ray C Herrera Betty C	Po Box 1165	Bayard	NM	88023
Hiler Richard A Hiler Lillian M	4911 W Odell Drive	West Valley City	UT	84120
Hill Michael D	300 Chihuahua St	Silver City	NM	88061
Hines Willie S Hines K Christine	Po Box 413	Hurley	NM	88043
Hinojosa Emilia Salaiz Kelly H	5477 Hwy 152	Hanover	NM	88041
Hodina John	6 Pattie Ave	Hurley	NM	88043
Holderfield James M Holderfiled Antoinette N	Po Box 223	Hurley	NM	88043

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Name	Address	City	State	Zip Code
Holgoin Manuel M	411 Maple St	Bayard	NM	88023
Holguin Albert S	Po Box 238	Hurley	NM	88043
Holguin Arcilia	122 Roe Deer Ct	Las Cruces	NM	88007
Holguin Carmen G Holguin Beatriz Adriana	11050 Montana Ave Apt 9101	El Paso	TX	79936
Holguin Janet M & Holguin Javier T Jr	Po Box 384	Bayard	NM	88023
Holguin Javier T Jr & Holguin Janet Marie S	Po Box 384	Bayard	NM	88023
Holguin Margaret M	312 S Romero Ave	Hurley	NM	88043
Holguin Maria E	Po Box 185	Bayard	NM	88023
Holguin Melinda Marie	710 Bard St	Bayard	NM	88023
Holguin Nora & Benavidez Belinda	1294 Oneda Dr	Las Cruces	NM	88005
Holguin Raul & Holguin Lena	630 Country Club Drive	Silver City	NM	88061
Holguin Raul F	2643 Sporting Hill Bridge Rd	Thompsons Station	TN	37179
Holguin Reinaldo L Jr	259 Pearl Dr Ne	Rio Rancho	NM	87124
Holguin Senaida	Po Box 1322	Bayard	NM	88023
Holguin Victor W Holguin Esther F	214 Arizona Street	Hurley	NM	88043
Holguin Yvonne F	904 1/2 Watson Street	Bayard	NM	88023
Holland Cheryl L	3309 Corona Dr Nw	Albuquerque	NM	87120
Holland Esperanza	Po Box 513	Bayard	NM	88023
Holland Sally Ann	Po Box 743	Bayard	NM	88023
Holmgren Brad	723 Royal Street	Bayard	NM	88023-9773
Hood Charles R & Hood Terry C	Po Box 227	Hurley	NM	88043
Horcasitas Yolanda F	Po Box 1365	Bayard	NM	88023
Horvath Juliane & Castillo Pascual R	2213 Highway 61	San Lorenzo	NM	88041
Hould Preston & Kimberly Revocable Trust	3600 Broken Arrow Dr	Silver City	NM	88061
Hubbard Charles E	Po Box 437	Bayard	NM	88023
Huerta Ernesto Huerta Olga	109 C Street	Hurley	NM	88043
Huerta Richard C Huerta Delilah G	111 A Street	Hurley	NM	88043
Huerta Tommy Revocable Trust	Po Box 923	Bayard	NM	88023
Huffman Rodger L & Huffman Michele K A	35 Lamp Bright Rd.	Hanover	NM	88041
Hughes Edgar O Jr	Po Box 951	Hurley	NM	88043
Humble Margaret L & Trujillo Joseph R	611 N Canyon Rd	Bayard	NM	88023
Humble Margaret L U/C	Po Box 183	Hurley	NM	88043
Humble Terrence M & Humble Artemisa B	Po Box 879	Bayard	NM	88023
Hurley Community Church	Po Box 875	Hurley	NM	88043
Hurley Development Llc	8939 S Eisenhower Rd	Tucson	AZ	85750
Hurtado Ramon A	Hc 136 Haha Hwy	Hana	HI	96713
Hyso Mary Placida	202 C Street	Hurley	NM	88043
Ibarra Crystal & Marin Debra O	05 Camino Verde	Arenas Valley	NM	88022
Ice Lydia	Po Box 699	Bayard	NM	88023
Iniguez Pedro & Kathleen Zamora De	17 Mesquite Drive	Silver City	NM	88061
Irrevocable North Hurley Property Trust	10 Geronimo	North Hurley	NM	88043
Ivanic Nicholas C & Ivanic-Lobato Tina M	112 B St	Hurley	NM	88043
Jackson Helen F	4 Pattie Ave	Hurley	NM	88043-9713
Jacquez Julian J Jacquez Rita M	Po Box 808	Hurley	NM	88043
Jameson Charles W Jr	Po Box 261	Hurley	NM	88043-0261
Jaramillo David S Jr & Katherine B Et Al	Po Box 662	Hurley	NM	88043
Jaramillo Samuel	Po Box 1584	Silver City	NM	88061
Jaure Julian	Po Box 1298	Bayard	NM	88023
Jauregui David R Jauregui Alice V	Po Box 463	Hurley	NM	88043
Jauregui Felipe Jauregui Susie	Po Box 872	Bayard	NM	88023
Jauregui Rafael Iii	Po Box 801	Bayard	NM	88023
Jaurequi Ermalinda B	Po Box 707	Hurley	NM	88043
Jaurequi Magdalena Rodriguez	Po Box 843	Bayard	NM	88023
Jauriqui Adrian & Elisa R Revocable Trust	Box 81	Bayard	NM	88023
Jauriqui Gilbert	Po Box 704	Bayard	NM	88023
Jauriqui Rosa R	Po Box 154	Bayard	NM	88023
Jewell Cassandra Rj	614 Bard St	Bayard	NM	88023
Jimenez Albert Jimenez Martha	Box 791	Bayard	NM	88023
Jimenez Alberto A Jimenez Martha C	Po Box 791	Bayard	NM	88023
Jimenez Amy J	Po Box 144	Bayard	NM	88023
Jimenez Anthony G	3202 N Royall Dr	Silver City	NM	88061
Jimenez Fatima	Po Box 572	Bayard	NM	88023
Jimenez Manuel & Jimenez Rose & Jimenez Liza	Po Box 1135	Bayard	NM	88023
Jimenez Timothy E & Jimenez Martha E	Po Box 34	Santa Clara	NM	88026
Johnson Jennifer	618 Lusk St	Bayard	NM	88023
Johnson Ray W Jr & Peggy	5007 East Shomi Street	Phoenix	AZ	85044
Jones Curtis G	5845 Highway 152	Hanover	NM	88041
Jones Gregory Scot	6 Zinc Hill Rd	Hanover	NM	88041
Jones Jeffery N	101 B Street	Hurley	NM	88043
Juarez Margarita Beatriz	Po Box 1202	Bayard	NM	88023
Juarez Miguel A & Juarez Lorraine E	5408 Bridgewood Dr	Killeen	TX	76549
Kafco U/C	Po Box 1196	Bayard	NM	88023
Kailing Ann Lynne	Po Box 602	Bayard	NM	88023
Kasten Brett Kasten Greta Jo	Po Box 100	Bayard	NM	88023
Kd Properties Llc	4101 N Swan Street	Silver City	NM	88061
Kellepourey Karla	415 Poplar Street	Bayard	NM	88023
Kelley Kent	101 N Franey	Bayard	NM	88023
Kelly Katherine	706 Lusk St	Bayard	NM	88023
Kennett Frank D	422 Maple St	Bayard	NM	88023
Ketusky Edward H Ketusky Tamela S	20 Cottonwood	Hurley	NM	88043
Kilgore Savanne	Po Box 125	Hurley	NM	88043
King Carlton B	208 N Main Street	Bayard	NM	88023
Kirk Irma D & Clark Michael D & Clark Yvonne E	#15 Carrasco Ave	Hurley	NM	88043
Kirker Andy Et Al	Box 10	Silver City	NM	88061
Kirker Arthur T & Kirker Mary Lou V	Po Box 581	Santa Clara	NM	88026
Kirker Julie	Po Box 1233	Bayard	NM	88023
Kirker Mary Grace Et Al	2 Redwood Cir	Silver City	NM	88061
Kirker Norma & Kirker John Joel	5608 Prairie Falcon St	Las Cruces	NM	88012
Kishbaugh Beth	Po Box 432	Bayard	NM	88023

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Name	Address	City	State	Zip Code
Knight Family Trust	Po Box 422	Silver City	NM	88062
Knight Sandra J	Po Box 485	Hurley	NM	88043
Kokopelli Enterprises Inc U/C	Po Box 1262	Bayard	NM	88023
Krause Patrick Alan	700 Rogers Street	Bayard	NM	88023
Kuhlenbeck Kristina M & Ruscoe Christopher	404 N Railroad	Bayard	NM	88023
Lady Of Fatima Parish Inc	Po Box 1425	Bayard	NM	88023
Lakeview Loan Servicing Llc	8950 Cypress Waters Boulevard	Coppell	TX	75019
Lalanne Richard E	615 Bruce Stracener Rd	Deridder	LA	70634
Lamond Alan & Lamond Alison M	367 Lawrence Rd 128	Ravenden	AR	72459
Lamoreaux Edwin	Po Box 31	Hurley	NM	88043
Landers Cody & Landers Damaris	Po Box 72	Hurley	NM	88043
Laney Paul James & Laney Laura Ann	906 Rogers St	Bayard	NM	88023
Langley James E	1 Elguea Ave	Hurley	NM	88043
Langley Tierra Kay	Po Box 374	Bayard	NM	88023
Lara Joe P	319 S Mesa St	Deming	NM	88030
Lashley John R & Lashley Dawn Lee	6262 N Camino Verde	Tucson	AZ	85743
Latham Lloyd G Sr Latham Pamela Rogers	2117 S Irving Ave	Tucson	AZ	85711
Lathrop John	Po Box 174	Vanadium	NM	88023
Lawrence Cecilia	Po Box 1222	Bayard	NM	88023
Lawrence David	2525 N Valley Dr	Las Cruces	NM	88007
Lawrence Jacob P & Lawrence Janelle M	Po Box 508	Bayard	NM	88023
Laws Richard Bodine & Laws Tanya A	Po Box 412	Bayard	NM	88023
Laws Tanya	3625 Little Walnut Rd	Silver City	NM	88061
Lazzell Gabriel Michael	Po Box 2001	Silver City	NM	88061
Le Hong Thi Tuyet	1310 N Swan St	Silver City	NM	88061
Lechuga Delia	Po Box 853	Bayard	NM	88023
Lechuga Louis A & Lechuga Vanessa L	Po Box 668	Bayard	NM	88023
Lee James	Po Box 124	Hanover	NM	88041
Lees Glenn W	58 Harrington Rd	Broad	CT	6016
Legarda Alfred B & Alfred C Legarda Ruth C	2000 Glass Rd	Las Cruces	NM	88005
Legarda Alfredo B Legarda Bertha C	Po Box 954	Bayard	NM	88023
Legarda Danny & Legarda Cheryl	Po Box 964	Bayard	NM	88023
Legarda Ernest Legarda Joann	Po Box 967	Bayard	NM	88023
Legarda Rodolfo T & Legarda Tamatha G	Po Box 1141	Bayard	NM	88023
Legarda Salvador B	Po Box 1211	Bayard	NM	88023
Legarda Stephanie R	Po Box 665	Hurley	NM	88043
Lente Vernon	Po Box 611	Santa Clara	NM	88026
Lewis David L & Robin P Norero Lisa A C/O	Po Box 820	Bayard	NM	88023
Lewis Virginia L Lewis Rodger V	411 Santa Rita Ave	Hurley	NM	88043
Leyba David L	Po Box 732	Bayard	NM	88023
Liberty 1 Llc	Po Box 40130	Tucson	AZ	85719
Licon Rodrigo	408 Oak	Bayard	NM	88023
Liebhart Steve A & Liebhart Sheryl L	Hc 71 Box 1249	Faywood	NM	88034
Lighthouse Baptist Church	Po Box 924	Hurley	NM	88043
Lizarraga Enrique Garate	Po Box 696	Bayard	NM	88023
Loafman Diana P	407 W Declan Crt	Nixa	MO	65714
Lopez (Joey) Joseph J & Lopez Elaine M	102 East 18Th St	Silver City	NM	88061
Lopez Carmen T	Po Box 648	Bayard	NM	88023
Lopez Deandra S	418 Maple St	Bayard	NM	88023
Lopez Joe M	Box 1035	Bayard	NM	88023
Lopez Johnny J	429 Maple St	Bayard	NM	88023
Lopez Jose Reyes Jr Lopez Irma	8440 E Meseto Circle	Mesa	AZ	85209-7312
Lopez Juan V Lopez Debra E	Po Box 1485	Bayard	NM	88023
Lopez Kenneth J & Lopez Dee M	Po Box 1326	Bayard	NM	88023
Lopez Linda C Revocable Trust	Po Box 1479	Bayard	NM	88023
Lopez Margaret J	Po Box 2954	Silver City	NM	88061
Lopez Maria Felix & Silvas Diana	#9 Lea Drive	Hurley	NM	88043
Lopez Mary Michelle Jaquez	313 Judith Ann Ct	Las Vegas	NV	89110-5523
Lopez Natasha Renee	Po Box 74	Bayard	NM	88023
Lopez Paz C & Lopez Rosario M & Flores Carla	311 Nevada Ave	Hurley	NM	88043
Lopez Roberto R & Rosemary Lopez Robert M	Po Box 184	Bayard	NM	88023
Lopez Salvador & Lopez Kathleen	#4 Kohdy Lane	Arenas Valley	NM	88022
Lopez Salvador Q	Hc 31 Box 4	Las Vegas	NM	87701
Lopez Santiago O Lopez Sylvia	Po Box 377	Hurley	NM	88043
Lovato Gerald D Lovato Pam Y	13 Santa Rita Ave	Hurley	NM	88043
Lozano Joey Mark	719 Guinevan St	Bayard	NM	88023
Lozano Michael Paul & Lozano Virginia Ann Et Al	116 Pattie Ave	Hurley	NM	88043
Lozano Miguel E Lozano Hector C & Rachel O	8525 S Thunderbird	Safford	AZ	85546
Luab Pia	94-312 Hanqwai Circ	Waipahu	HI	96797
Lucero Anthony Jr Lucero Denisha A	Po Box 1024	Bayard	NM	88023
Lucero Austin Dakota Jua	Po Box 1255	Bayard	NM	88023
Lucero Carlos P Lucero Dolores A	Po Box 246	Hurley	NM	88043
Lucero Josie	Po Box 673	Bayard	NM	88023
Lucero Manuel Luis Telles Rita L	16682 N Vernon Drive	Tucson	AZ	85739
Lucero Ramen	Po Box 693	Hurley	NM	88043
Lucero Ramon L Lucero Lucy	Po Box 449	Bayard	NM	88023
Lucero Robert R	12 Hermosa St	San Lorenzo	NM	88041
Luna Linda J	Po Box 53	Hanover	NM	88041
Luna Richard G Et Al	Po Box 114	Hurley	NM	88043
Lynn Eugene	4649 Highway 15	Silver City	NM	88061
Maberry John H Maberry Juanita H	Po Box 1462	Bayard	NM	88023
Macias Isabel A	Po Box 672	Bayard	NM	88023
Macias Patricia	Po Box 1354	Bayard	NM	88023
Maciver James S	316 Anza Street	Hurley	NM	88043
Madrid Antoinette	Po Box 832	Hurley	NM	88043
Madrid Billy Joe & Montes Michelle A	Po Box 312	Hurley	NM	88043
Madrid Frances & Madrid Nicholas Anthony Et Al	Po Box 255	Bayard	NM	88023
Madrid Kodiak	705 Bard St	Bayard	NM	88023
Madrid Mateo V Jr	Po Box 862	Hurley	NM	88043

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Name	Address	City	State	Zip Code
Madrid Pablo Madrid Eloisa	722 Taylor	Bayard	NM	88023
Madrid Ramona O Etal Madrid Pedro O	Box 363	Bayard	NM	88023
Madrid Teresa S	Po Box 921	Bayard	NM	88023
Maldonado Eddie & Maldonado Felicia	Po Box 1204	Bayard	NM	88023
Maldonado Manuel J & Lucero Lucia L	Po Box 523	Hurley	NM	88043
Maldonado Mary & Lupe	Po Box 1299	Bayard	NM	88023
Maldonado Velia D & Diaz Raul V & Diaz Michelle A	800 E Lori Place	Silver City	NM	88061
Manning Tracy E	Po Box 392	Cliff	NM	88028
Mares Robert L & Mares Martha	Po Box 1203	Bayard	NM	88023
Maria Alejandra Santa & Maria Lucinda Santa Et Al	302 Chino St	Bayard	NM	88023
Marin Gabriel G Marin Veronica L	Po Box 674	Bayard	NM	88023
Marin Genaro Tobias Iv	00 Pattie Ave	Hurley	NM	88043
Marin Grace P Et Al	Po Box 603	Hurley	NM	88043
Marin Joe J Marin Bertha C	214 Pattie Ave	Hurley	NM	88043
Marquez Carmen R Marquez Fernando R	Po Box 985	Bayard	NM	88023
Marquez Dolores G	Po Box 1125	Bayard	NM	88023
Marquez Emma M	Po Box 341	Bayard	NM	88023
Marquez Erminia D	6875 Coyote Rd	Las Cruces	NM	88012
Marquez Gilbert F Or Marquez Robert F Jr	Po Box 909	Bayard	NM	88023
Marquez Lorenzo H Marquez Ofelia O	Po Box 632	Bayard	NM	88023
Marquez Lorenzo M Marquez Natalia S	206 Santa Rita Ave	Hurley	NM	88043
Marquez Martha V	Po Box 242	Bayard	NM	88023
Marquez Ralph D Marquez Nancy V	708 Mckee St	Bayard	NM	88023
Marquez Ramon R Jr	Po Box 1612	Espanola	NM	87532
Marquez Richard Edward & Marquez Katrina Antoinette	Po Box 358	Hurley	NM	88043
Marquez Rudy M	201 E Street	Hurley	NM	88043
Marquez Tanya & Marquez Reynaldo B Et Al	Po Box 279	Bayard	NM	88023
Marrufo Loretta Lynn T	Po Box 147	Bayard	NM	88023
Marrufo Melissa Marie Sandoval Et Al	Po Box 804	Hurley	NM	88043
Marrufo Richard & Marrufo Melissa M	Po Box 906	Santa Clara	NM	88026
Marrufo Rudy P Marrufo Mary T	Box 147	Bayard	NM	88023
Marshall James Everett Marshall Karen E	Box 542	Hurley	NM	88043
Martinez Ana Maria	102 N Cactus St	Bayard	NM	88023
Martinez Anthony Dave Martinez Cynthia P	613 Taylor St	Bayard	NM	88023
Martinez Bianca & Pena Jerry	411 Romero Ave	Hurley	NM	88043
Martinez Edward H Martinez Elisa	Po Box 904	Hurley	NM	88043
Martinez Eric Martinez Rita	Po Box 772	Bayard	NM	88023-0772
Martinez Fernando Martinez Mary Jane	102 E Street	Hurley	NM	88043
Martinez Gerardo Jr Martinez Laverne R	Po Box 555	Hurley	NM	88043
Martinez Isaac P & Laverriere Benjamin M	962 Highland Avenue	Medford	MA	2155
Martinez Jacob D	Po Box 247	Bayard	NM	88023
Martinez Jerry P	306 Cortez Ave	Hurley	NM	88043
Martinez Joseph A	4309 San Pedro Dr. Ne Apt B-202	Albuquerque	NM	87109
Martinez Lugartha V	68A N Hurley Rd	Hurley	NM	88043
Martinez Manuel A Iii & Good Julie B	700 N Bullard St	Silver City	NM	88061
Martinez Manuel V Martinez Margarita	407 D Street	Hurley	NM	88043
Martinez Paul M	Po Box 726	Hurley	NM	88043
Martinez Peter G & Martinez Susie V	Po Box 164	Hurley	NM	88043
Martinez Rodolpho S & Martinez Carmen S Et Al	2221 Ponderosa Street	Silver City	NM	88061
Martinez-Molina Beatrice	68 A N Hurley Rd	Hurley	NM	88043
Mascall Maci	590 8Th Ave #7	San Francisco	CA	94118
Massey Jewel P Massey Bonnie B	522 C St	Hurley	NM	88043
Mastin Sandra	Po Box 848	Hurley	NM	88043
Mathieu Edward Raymond Mathieu Naomi P	4005 Blackhawk Rd	Silver City	NM	88061
Mathieu Michael	54 Horseshoe Dr	Hurley	NM	88043
Mathis Jason C	Po Box 374	Hurley	NM	88043
Max Lizzy	Po Box 525	Hurley	NM	88043
Maynard Paul D & Hensley Barbara L	1110 Canyon St	Bayard	NM	88023
Maynes Analysa	703 Lusk St	Bayard	NM	88023
Maynes Manuel	100 W Lincoln	Santa Clara	NM	88026
Maynes Reynaldo C	506 D Street	Hurley	NM	88043
Maynes Reynaldo C & Salas Amber J	504 D Street	Hurley	NM	88043
Maynes Reynaldo R & Maynes Melissa C Et Al	Po Box 439	Bayard	NM	88023
Maynes Richard R Jr & Maynes Veronica P	Po Box 938	Hurley	NM	88043
Maynes Samuel M Cabrera Jennifer A	302 Nevada Ave	Hurley	NM	88043
Mcatee George Merle	702 Fahey Street	Bayard	NM	88023
Mcbride Darlene J Mcbride David J Jr	Po Box 1342	Bayard	NM	88023
Mccants John L Mccants Pamela	Po Box 94	Hurley	NM	88043
Mccants Marvin	Po Box 435	Hurley	NM	88043
Mcclain Jan	4 Lea Drive	Hurley	NM	88043
Mcdanal David F	115 Santa Rita St	Hurley	NM	88043
Mcgee Michael & Mcgee Desire	103 Santa Rita Ave	Hurley	NM	88043
Mckee Troy D Et Al	Po Box 2907	Silver City	NM	88062
Mcneill Bryson	102 N Main St	Bayard	NM	88023
Mcneill Paul Daniel	5283 Turnbridge Wells Ln Apt 6	Orlando	FL	32812
Medina Connie H & Medina Eloy H	Box 607	Bayard	NM	88023
Medina Eloy H	Po Box 688	Bayard	NM	88023
Medina Frank G & Medina Charlotte T	602 Orchard St	Bayard	NM	88023
Medina Lillian Et Al	601 Orchard	Bayard	NM	88023
Medina Rosario T Medina Rosa T	Po Box 241	Hurley	NM	88043
Medrano Mary S & Medrano Ricardo S	77A North Hurley Rd	Hurley	NM	88043
Melendrez Elisha	Po Box 1236	Bayard	NM	88023
Mendoza Esther	Box 243	Bayard	NM	88023
Mendoza Gabriel J	Po Box 550	Bayard	NM	88023
Merino Oscar R Merino Mary E	Po Box 365	Bayard	NM	88023
Merino Priscilla M	642 Bard St	Bayard	NM	88023
Merrell Dorothy D	661 S Hawes Rd Lot #69	Mesa	AZ	85208
Mersino Roman Christian	400 Peru St	Bayard	NM	88023
Mesa Eloy M & Mesa Linda L	2065 E Smoke Tree Rd	Gilbert	AZ	85296

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Name	Address	City	State	Zip Code
Mikow Jolyn Irrevocable Trust	319 Holly Ave	Novato	CA	94945
Miles Maude A De La Torre Vicente Etux	Box 653	Bayard	NM	88023
Miller Aaron Scott & Miller Angelina	46 W Jackson Street Apt B	Millersburg	OH	44654
Miller Amanda R	Po Box 566	Bayard	NM	88025
Miller Homer	211 Romero	Hurley	NM	88043
Miller Janice L	Box 495	Hurley	NM	88043
Miller Tami J Trust	6654 Hastings Lane	Nashville	TN	37221
Mineral Remedial Recovery Company	4780 Caterpillar Rd Unit C	Redding	CA	96003
Mining Remedial Recovery Company	4780 Caterpillar Rd Suite C	Redding	CA	96003
Miranda Velia C Miranda Aurora C	Box 506	Hurley	NM	88043
Misquez Ruby	Po Box 962	Bayard	NM	88023
Molano David J	Po Box 36723	Ft Bayard	NM	88036
Molina Louis E Et Ux	3909 Mont Clair	Los Angles	CA	90018
Molina Samuel M & Molina Mary K Et Al	Po Box 419	Hurley	NM	88043
Momsen John David Special Needs Trust	305 Palmetto Dr	Georgetown	TX	78633-5286
Montebon Hazel L & Afroilan Erwin	94-312 Hanawai Circle	Waipahu	HI	96797
Montemayor Richard	10 Pattie Ave	Hurley	NM	88043
Montenegro Flora A & Miranda Michele E	Po Box 512	Hurley	NM	88043
Montenegro Sarah A & Quintana Sarah M	Po Box 546	Silver City	NM	88062
Montes Clyde & Montes Jennie	06 Hill St	Hurley	NM	88043
Montes Michelle R	435 Chukar Road	Silver City	NM	88061
Montez Daniel & Montez Dee Rae	Po Box 158	Bayard	NM	88023
Montez Thomas & Montez Rosie Et Al	Po Box 834	Bayard	NM	88023
Montoya Elias S & Montoya Andrea P	Po Box 389	Santa Clara	NM	88026
Montoya Gilbert G & Montoya Ana B	Po Box 12	Hurley	NM	88043
Montoya Luke P	212 Elguea Ave	Hurley	NM	88043
Montoya Patricia	Po Box 1046	Santa Clara	NM	88026
Montoya Robert E & Montoya Lucy B	Po Box 756	Santa Clara	NM	88026
Mora Jesus & Galindo Cristina Vizcaino	1480 W Lama Dr	Tucson	AZ	85746
Morales Cecilia T	Po Box 456	Hurley	NM	88043
Morales Elizabeth E	Po Box 415	Bayard	NM	88023
Morales Frankie J Jr Dominguez Teresita	Po Box 896	Santa Clara	NM	88026
Morales Kathi Ann	6827 Coyote Rd	Las Cruces	NM	88012
Moreno Antonio G & Moreno Lydia	4332 S Santa Lucia Ave	Sierra Vista	AZ	85650-9217
Moreno Arthur G & Moreno Maria G	5826 Sandpiper Drive	Santa Teresa	NM	88008
Moreno-Anderson Norberta & Moreno Teresa P Et Al	Po Box 67	Hanover	NM	88041
Morones Carlos	6 Santa Rita	Hurley	NM	88043
Morones Gilbert & Morones Carlos O	7 Mum St	Hurley	NM	88043
Morones Gilbert O Morones Julie M	7 Mum Street	Hurley	NM	88043
Morones Kathleen D	204 B St	Hurley	NM	88043-9753
Morris Joseph W	Po Box 161	Hurley	NM	88043
Morris Luther D & Morris Flossie M	Po Box 770	Bayard	NM	88023
Morrison Tyler J	31 Race Track Rd	Arenas Valley	NM	88022
Morrow Michael Robert & Moreno Kathryn Marie Et Al	113 Wright Ln Unit 4	Ruidoso Downs	NM	88346
Moss Linda Mae Zapata Antonio	2108 S Solano Drive, Apt.26	Las Cruces	NM	88001
Mountain Gold Corporation	3741 E Leonora St	Mesa	AZ	85215
Mueller Anthony John	14515 N Pierce Ferry Rd	Dolan Springs	AZ	86441
Muniz Daniel	105 Pattie St	Hurley	NM	88043
Muniz Joe Muniz Consuelo A	Po Box 493	Hurley	NM	88043
Muniz Robert P & Muniz Rosalinda H	Po Box 196	Bayard	NM	88023
Munoz Betty	P O Box 292	Bayard	NM	88023
Munoz David L Jr Etal	Po Box 427	Bayard	NM	88023
Munoz Donna Dolores	Po Box 837	Bayard	NM	88023
Munoz Melissa Jean	Po Box 900	Bayard	NM	88023
Munoz Ramona P	Po Box 562	Bayard	NM	88023
Munoz Tina Marie Ann Campa	Po Box 1482	Bayard	NM	88023
Murillo Lydia P	310 Vencill St	Bayard	NM	88023
Murillo Reina M & Sedillo Risa & Sedillo Melvin Michael Iii	Po Box 23	Hurley	NM	88043
Murillo Serena E	2317 Paul Place	Silver City	NM	88061
Murphy David & Murphy Linda U/C	15 Hermosa St	Hanover	NM	88041
Myers Vickie Lynne	304 Cortez Ave	Hurley	NM	88043
Namm Barry	Po Box 306	Bayard	NM	88023-0306
Natharius Jeffrey A	505 Central Ave	Bayard	NM	88023
Nathasingh Carol G Living Trust	94-218 Keaukaha Place	Waipahu	HI	96797
Nathasingh Glover	94218 Keaukaha Place	Waipaha	HI	96797
Nations Rebecca Sue Holland & Holland Cheryl Lynn	46 Bandoni Dr	Silver City	NM	88061
Naumann Karen A & Joyce Daniel S	3184 Queens Gardens	El Paso	TX	79936
Neal Joe	Po Box 277	Bayard	NM	88023
Nelson Trust	Po Box 7	Palvadera	NM	87828
New Residential Mortgage Loan Trust	75 Beattie Place Suit Ll 202	Greenville	SC	29601
Newman Doug	401 Vencill	Bayard	NM	88023
Nmvsc Fiduciary For Efrain Dominguez	Hc 71 Box 1155	Faywood	NM	88034
Nolan Ashlee Danielle	Po Box 3092	Silver City	NM	88062
Norero Alex J Norero Eva S	19 Welsh Street	Silver City	NM	88061
North Robert M North Patricia P	Po Box 1429	Bayard	NM	88023
Nunez David L Nunez Patricia T	Po Box 252	Bayard	NM	88023
Nunez Helen Lechuga	Po Box 362	Hurley	NM	88043
Ochoa Lupe V & Villanueva Celeste N	Po Box 536	Hurley	NM	88043
Ojinaga Irene	Po Box 792	Bayard	NM	88023
Ojinaga Sylvia	Po Box 115	Bayard	NM	88023
Olivarez Joseph & Olivarez Loralynn	106 East Street	Bayard	NM	88023
Ordonez Aaron S And Ordonez Brandi N	Po Box 899	Hurley	NM	88043
Ordonez Epitacio R	Po Box 41	Santa Clara	NM	88026
Ornelas Lupe C	615 Combs Circle	Silver City	NM	88061
Orosco Danny R	807 1/2 Empire Street	Bayard	NM	88023
Orosco Randy & Orosco Crysta	306 C St	Hurley	NM	88043
Orosco Theresa Orosco Ruben B	508 N Railroad St	Bayard	NM	88023
Orosco Valerie & Terrazas Maria T	Po Box 193	Hurley	NM	88043
Orsini Denise G	25 Pheasant Hill Rd	Salem	CT	6420

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Name	Address	City	State	Zip Code
Ortega Amanda & Serrano Norma	Po Box 971	Bayard	NM	88023
Ortega Brandon & Ortega Jessica Yvette	Po Box 764	Bayard	NM	88023
Ortiz Adrian G	721 Bard Street	Bayard	NM	88023
Ortiz Alfredo Jr Ortiz Rosalinda G	Box 603	Bayard	NM	88023
Ortiz Amando R & Ortiz Tanya Trujillo	620 Dayhill St	Bayard	NM	88023
Ortiz Christian D	714 Lusk Street	Bayard	NM	88023
Ortiz Christina & Ortiz Marguerite P	Po Box 822	Bayard	NM	88023
Ortiz Cynthia	11 Elguea Ave	Hurley	NM	88043
Ortiz Gabriel T & Ortiz Michelle M	624 Lusk St	Bayard	NM	88023
Ortiz James Jr Ortiz Maria D	1308 Virginia Street	Silver City	NM	88061
Ortiz John	3714 N Hwy 28 Trailer 4	Las Cruces	NM	88005
Ortiz Rebecca	903 Lusk St	Bayard	NM	88023
Ortiz Robert Anthony	Po Box 723	Bayard	NM	88023
Ortiz Sandra V & Ortiz Louis C	Po Box 1595	Silver City	NM	88062
Ortiz Shirley D	Elguea Ave	Hurley	NM	88043
Ortiz Victoria Lee	144 Galaz	San Lorenzo	NM	88041
Osvath Linda H	303 Carrasco Ave	Hurley	NM	88043
Oswalt Rick	692 N Adele St Spc 85	Orange	CA	92867-7470
Our Lady Of Fatima Parish Inc	1280 Med Park Drive	Las Cruces	NM	88005
P&L Investments	8308 Casas Azul Ct Nw	Albuquerque	NM	87120
Pacheco Carlos & Bernice	Po Box 1028	Bayard	NM	88023
Pacheco Raymond T Onda William A	3872 N Silver	Silver City	NM	88061
Pacheco-Lopez Michelle M	66 El Sitio Rd	Espanola	NM	87532
Pack Betty L	203 Pattie Street	Hurley	NM	88043
Pack Betty L	203 Pattie Ave	Hurley	NM	88043
Padilla Albert & Padilla Joseph	502 Linda Drive	Hurley	NM	88043
Padilla Angelica R	P O Box 553	Hurley	NM	88043
Padilla David A Padilla Socorro F	421 1/2 Maple St	Bayard	NM	88023
Padilla Diane M	4117 W Silver St	Silver City	NM	88061
Padilla Esperidion S	15 Pop Morrison St.	Hurley	NM	88043
Padilla Espiridion S & Padilla Billy A	15 Pop Morrison	Hurley	NM	88043
Padilla Harvey L Padilla Martha	114 Fm 623 W	Pettus	TX	78146
Padilla Jolene D	11 Romero Ave	Hurley	NM	88043
Padilla Mary Helen & Salas Martha Ann Peru	716 Bard St	Bayard	NM	88023
Padilla Michelle Deming	Po Box 714	Hurley	NM	88043
Padilla Refugia V	4812 E Hannibal Circle	Mesa	AZ	85205
Padilla Ruth L	Po Box 425	Hurley	NM	88043
Padilla Velma	1517 North Newhope St Space #51	Santa Ana	CA	92703
Paino Mary J	105 S Railroad St	Bayard	NM	88023-9676
Palomarez Anita U Etal	37A Santa Rita Mine Rd	Vanadium	NM	88023
Palomarez Juan A	37 Santa Rita Mine Rd	Vanadium	NM	88023
Palomarez Lazaro Jr	103 Azurite	Morenci	AZ	85540
Palomarez Magdalena T & Palomarez Pedro T	905 Waggoner St	Bayard	NM	88023
Palomarez Manuel J & Palomarez Magdalena J	1009 Watson St	Bayard	NM	88023
Palomarez Olga	39 Santa Rita Mine Rd	Vanadium	NM	88023
Pander Nancy K	Po Box 486	Silver City	NM	88062
Pantasari Foundation	Po Box 206	Bayard	NM	88023
Pappas Mark S	5473 Hwy 152	Hanover	NM	88041
Parks James	2714 Montclaire Dr Ne	Albuquerque	NM	87110
Parra Bob P Garcia Jessica	4250 N Cardinal Lane	Silver City	NM	88061
Parra Fernando M Sr Parra Erlinda R	830 Bonita	Clar Mont	CA	91711
Parra Frances C	1301 E Walnut St	Deming	NM	88030
Pas James A & Barraza Gloria P	137 Arenas Valley Rd	Arenas Valley	NM	88022
Patterson Cynthia J	104 Pattie Ave	Hurley	NM	88043
Peat Raymond	Po Box 5764	Eugene	OR	97405
Pedraza Antonio C	4709 Sherry Ann Rd	Albuquerque	NM	87114
Pedraza Charles E Jr	226 Paloma Blanca Dr	Chaparral	NM	88081
Pedraza Joe E Pedraza Ana L	Box 395	Hurley	NM	88043
Pedraza Manuel C	1308 Boston Dr.	Las Cruces	NM	88001
Pedraza Maria Aida & Pedraza Eddie Joe	10928 Black Mountain Rd. #14	San Diego	CA	92126
Pedraza Rosie R	Po Box 162	Bayard	NM	88023
Pellerin Elizabeth B	4909 Chagar Ct	Las Cruces	NM	88007
Pena Aaron & Pena Salina	Po Box 711	Hurley	NM	88043
Pena Angelic R	Po Box 401	Bayard	NM	88023
Pena Arthur C & Pena Susie	10 Aztec Ave	Hurley	NM	88043
Pena Arthur C Pena Susie S	150 N Hurley Rd	Hurley	NM	88043
Pena Christina M & Marquez Bernadette D	717 Guinevan St	Bayard	NM	88023
Pena Cynthia	107 E Street	Hurley	NM	88043
Pena Desideria L & Wright Carol L & Kime Mary Ellen U/C	170 N Hurley Rd	Hurley	NM	88043
Pena Elvira M & Pena Antonio M & Pena Irma O	Po Box 863	Hurley	NM	88043
Pena Esther Leyba	Po Box 232	Mesilla Park	NM	88047
Pena Geraldine L	12018 Stoney Bridge	San Antonio	TX	78247
Pena Henry C	Po Box 385	Hurley	NM	88043-0385
Pena Jose Eloy Et Al	Po Box 592	Bayard	NM	88023
Pena Louis B Pena Evangeline	6831 Brush Field Rd Nw	Albuquerque	NM	87114
Pena Matthew T	204 Pattie Ave	Hurley	NM	88043
Pena Miklos & Pena Betsi H	Po Box 846	Hurley	NM	88043
Pena Rudy M	Po Box 273	Hurley	NM	88043
Perez Jesus Silva Perez Joan Munoz	Po Box 680	Bayard	NM	88023
Perez Johnny Perez Sylvia	112 S. Yucca St	Bayard	NM	88023
Perez Martina S Perez Samuel S	Po Box 614	Bayard	NM	88023
Perez Richard I	P.O. Box 884	Hurley	NM	88043
Perez Steve	223 Eagle Dr	Alamogordo	NM	88310
Perry Nita Mae Revocable Trust	212 Church St	Virden	NM	88045
Perry Thedra Michelle	5122 Woodruff Place	Las Vegas	NV	89120
Perry William & Perry Kathryn	1010 E Mescal Dr	Pearce	AZ	85625
Peru Manuel Peru Bertha	#4 Pop Morrison St	Hurley	NM	88043
Peru Robert O & Josie H	Po Box 580	Bayard	NM	88023
Peterson Micheal	720 Taylor St	Bayard	NM	88023

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Name	Address	City	State	Zip Code
Peterson Shandis	8955 Hwy 377	Deming	NM	88030
Phillips Clinton & Phillips Vallie	Po Box 604	Hurley	NM	88043
Pinto Paige L	723 Dayhill St	Bayard	NM	88023
Pizzuto Sal & Pizzuto Hope Mathison	Po Box 545	Hurley	NM	88043
Placencio Mark	Po Box 1323	Bayard	NM	88023
Placencio Rosalia L	912 Santa Rita	Silver City	NM	88061
Plummer Mark Alan	110 B Street	Hurley	NM	88043
Polanco Brian & Polanco Jerrene	0 Aztec Ave	Hurley	NM	88043
Polanco Jesus J Polanco Elva	500 Trailing Heart	Silver City	NM	88061
Polanco Ronald P	Po Box 22	Gila	NM	88038
Polk Gerald	Po Box 36067	Fort Bayard	NM	88036
Polley Adam Christopher & Polley Lola Brown	Po Box 942	Hurley	NM	88043
Polomski Boudica N	4595 Arabela Dr	Las Cruces	NM	88012
Ponzio Joel P Ponzio Dolores E	Po Box 935	Bayard	NM	88023
Portillo Jeramiah F	2704 Royal Dr	Silver City	NM	88061
Portillo Margaret M	Po Box 827	Bayard	NM	88023
Post Saundra	2340 Highway 180 East #187	Silver City	NM	88061
Powell William B	103 B Street	Hurley	NM	88043
Proudfoot Nicolette	120 N Hurley Rd	Hurley	NM	88043
Provencio Lori A	Po Box 1455	Bayard	NM	88023
Provencio Samuel P Provencio Virginia	1564 S Royal Palm Rd	Apache Jct	AZ	85219-6566
Puentes Salvador A & Puentes Sara J Revocable Trust	512 N Railroad	Bayard	NM	88023
Pyaga Adonata	4405 Jager Dr Ne Ste C4-4040	Rio Rancho	NM	87144
Pyron Brandi N & Pyron Julie A & Pyron David W	32 Cimarron Trail	Silver City	NM	88061
Quarrell Charles A Quarrell Dolores P	P.O. Box 1011	Deming	NM	88031
Quevedo Larry C Et Al	6635 Rio Dorado Drive	La Mesa	NM	88044
Quevedo Pete C Et Al	6635 Rio Dorado Drive	La Mesa	NM	88044
Quezada Diana Z & Quezada Juan Z	Po Box 1366	Bayard	NM	88023
Quick Cathy Lynne	Po Box 936	Hurley	NM	88043
Quigley Ross A Jr	7568 S Pacific Willow Dr	Tucson	AZ	85747
Quinlan Richard Gordon Quinlan Sherry Ann	Po Box 905	Safford	AZ	85548
Quintana Arthur S & Quintana Olivia R Et Al	Po Box 679	Bayard	NM	88023
Quintana Darius	Po Box 25996	Albuquerque	NM	87125
Quintana Gabriel R Quintana Arthur S	Po Box 813	Bayard	NM	88023
Quintana Laura	Po Box 1384	Bayard	NM	88023
Quintana Robert R & Quintana Rosella A	Po Box 891	Bayard	NM	88023
Quintero Ricardo V	7093 Luz De Sol Dr	El Paso	TX	79912
Qwest Corporation	931 14Th St	Denver	CO	80202
Rackel Melissa	Po Box 1490	Bayard	NM	88023
Rainbow Ridge Investments Llc	Po Box 1411	Silver City	NM	88062
Ramirez Lorenzo M	Po Box 1	Hanover	NM	88041
Ramirez Maria Luisa & Ortega Diane	Po Box 474	Hurley	NM	88043
Ramirez Serena A	Po Box 302	Hurley	NM	88043
Ramirez Teresa	Po Box 262	Hurley	NM	88043
Ramos Angelica	Po Box 134	Hurley	NM	88043
Ramos David J Jr	Po Box 397	Hurley	NM	88043
Ramos Manuela M Living Trust	5Rd 5777	Farmington	NM	87401
Ramsland Edward D & Ramsland Terry A	2802 Chitalpa Ct	Silver City	NM	88061
Rascon Alfred & Rascon Betty	Po Box 51	Hanover	NM	88041
Rascon Toby	21 Peterson St	Silver City	NM	88061
Recwest Incorporated	5401 S Arcadia	Tucson	AZ	85706
Reece Richard J Reece Dianna L	Po Box 722	Bayard	NM	88023
Reed David & Reed Michelle	15 Cortez Ave	Hurley	NM	88043
Rees Victor C & Rees Della Miranda Rodriguez	416 N Railroad St	Bayard	NM	88023
Reese Brandon & Gallegos Aliyah N	105 Cactus St	Bayard	NM	88023
Reese Sylvia M	P O Box 454 216 Cortez	Hurley	NM	88043
Refior Fred H Refior Joyce E	Po Box 293	Santa Clara	NM	88026
Reilly Michael H & Reilly Sally N	Po Box 830	Bayard	NM	88023
Revocable Living Trust Of Siville Scott Hunter	Po Box 381	Bayard	NM	88023
Reyes Javier Jose	Po Box 317	Santa Clara	NM	88026
Reynolds Jennifer Reynolds Jennie	Po Box 146	Bayard	NM	88023
Richard Mark	Po Box 1258	Bayard	NM	88023
Riley Lorraine M Riley Norris O	2115 Saddlehorn	Katty	TX	77494
Riley Matthew	405 C St	Hurley	NM	88043
Rios David H Et Al	Po Box 608	Bayard	NM	88023
Rios Family Trust The	Po Box 559	Bayard	NM	88023
Rios Ina M	1460 E. Milton Rd.	Tucson	AZ	85706
Rios Lisa Jean	406 Fran Dr	Hurley	NM	88043
Rios Robert H	Po Box 682	Bayard	NM	88023
Rios Sammy H Rios Aida M	Po Box 998	Bayard	NM	88023
Rivera Emilio B Rivera Melinda	910 E 32Nd St	Silver City	NM	88061
Rivera Nellie	2021 Silver St	Silver City	NM	88061
Rivera Stella & Rivera Tereso T	61 Peterson Drive	Silver City	NM	88061
Roacho Jose V	Po Box 444	Hurley	NM	88043
Roacho Juan	216 Arizona St	Hurley	NM	88043
Robert Christopher Scott & Barker John Milton Iii	315 Pattie	Hurley	NM	88043
Roberts Eddie Ray Ii	Po Box 1008	Bayard	NM	88023
Roberts Janice	303 Arizona St	Hurley	NM	88043
Roberts Phyllis	13 Cottonwood	Hurley	NM	88043
Rodriguez Alejandro	P.O. Box 232	Hurley	NM	88043
Rodriguez Andrea	Po Box 609	Bayard	NM	88023
Rodriguez Benito R Jr & Rodriguez Virginia And Rodriguez Gabriel	2777 W Carnation Place	Tucson	AZ	85745
Rodriguez Christina P Rodriguez Robert F Jr	3 Main Street	Hurley	NM	88043
Rodriguez Christopher	804 Rogers St	Bayard	NM	88023
Rodriguez Daniel P & Rodriguez Ysela M Etal	704 Dayhill St	Bayard	NM	88023
Rodriguez Diego Chavez	187 N Hurley Rd	Hurley	NM	88043
Rodriguez Fernando & Rodriguez Miriam	8 Elder Ln	Silver City	NM	88061
Rodriguez Freddie M & Rodriquez Tobias J	207 A St	Hurley	NM	88043

Table of Noticed Citizens

Name	Address	City	State	Zip Code
Rodriguez Gabriel E	719 Fahey St	Bayard	NM	88023
Rodriguez Gilbert H & Rodriguez Irene P	6 Pop Morrison	Hurley	NM	88043
Rodriguez Gina A & Rodriguez Gary G	190 N Hurley Rd	Hurley	NM	88043
Rodriguez Gina Annette Chacon	190 North Hurley Road	Hurley	NM	88043
Rodriguez Irene	Po Box 256	Hurley	NM	88043
Rodriguez Joe M & Rodriguez Beatrice G	Po Box 371	Bayard	NM	88023
Rodriguez Joseph Ruben	Po Box 405	Hurley	NM	88043
Rodriguez Laticia Edwina Maynes	Po Box 744	Santa Clara	NM	88026
Rodriguez Lilly P	Po Box 455	Hurley	NM	88043
Rodriguez Ray & Rodriguez Sylvia M	Po Box 294	Hanover	NM	88041
Rodriguez Raymond H & Rodriguez Sandra C	189 North Hurley Rd	Hurley	NM	88043
Rodriguez Raymond J	185 N Hurley Road	Hurley	NM	88043
Rodriguez Richard M & Barrios Argella Evonne Et Al	Po Box 1301	Bayard	NM	88023
Rodriguez Robert F Jr & Rodriguez Christina P	3 Main St	Hurley	NM	88043
Rodriguez Ruben G	3100 Royal Drive	Silver City	NM	88061
Rodriguez Susano L Jr & Rodriguez Ruth P Rodriguez John Anthony Rodriguez Eugene Damien	302 D St	Hurley	NM	88043
Rodriguez Tomasita	112 D Street	Hurley	NM	88043
Rodriguez Virginia V & Rodriguez Aurelio	Po Box 21	Hurley	NM	88043
Rodriquez Stacy Gore Doyle L & Gore Teddy H	Po Box 703	Bayard	NM	88023
Rogers Lester Revocable Trust	Po Box 335	Bayard	NM	88023
Romero Veronica L & Romero David & Romero Juan J Jr	29125 Cobblestone Street	Nuevo	CA	92567
Romo Eulalia & Salas Javier & Salas Estella	711 Bard St	Bayard	NM	88023
Romo Leslie	Po Box 874	Santa Clara	NM	88026
Rosa James C Jr Rosa Melinda R	616 Fahey St	Bayard	NM	88023
Rosales Cecilia R Et Al	Po Box 46	Bayard	NM	88023
Rosales Luis H Rosales Sylvia	Po Box 1006	Bayard	NM	88023
Rosales Timothy	2219 N 25Th Place	Phoenix	AZ	85008
Rowland John J & Macintosh Isabella	Po Box 388	Hurley	NM	88043
Roybal Ricky & Roybal Brandi	717 Fahey St	Bayard	NM	88023
Rubio Jose S & Padilla Bernice C	Po Box 314	Bayard	NM	88023
Ruebush Arlin G Ruebush Dawn	2750 S. Tabor Dr	Silver City	NM	88061
Ruebush Donn Ruebush Joyce	15 Hermosa Street	Hanover	NM	88041
Rueda Sylvia	Po Box 2860	Thatcher	AZ	85552
Ruiz Robert G Ruiz Lynette G	4244 Capistrano	Las Cruces	NM	88011
Saborio Beda P & Saborio Manuel P Jr & Sanchez Louise S	Po Box 627	Hurley	NM	88043
Saborio Beda P Saborio Manuel P Jr	Po Box 504	Hurley	NM	88043
Saborio Natalia G	Po Box 216	Hurley	NM	88043
Saenz Fidel T Saenz Ronnie S	760 S Santa Fe	Deming	NM	88030
Saenz John	Po Box 157	Bayard	NM	88023
Salaiz Jose J Rodriguez Jose B C/O	Po Box 1271	Bayard	NM	88023
Salas Encarnacion Salas Rigoberto R C/O	1150 Atherton Ct Apt 14	Salt Lake City	UT	84123
Salas Jerry V & Salas Guadalupe Roxane	Po Box 1346	Bayard	NM	88023
Salas Jose M Salas Consuelo	Po Box 142	Bayard	NM	88023
Salas Laura O	714 Bard Street	Bayard	NM	88023
Salas Lawrence V	Po Box 1152	Bayard	NM	88023
Salas Lucille D	311 Chino St	Bayard	NM	88023
Salas Marcus A & Meraz Jacqueline	202 Romero Ave	Hurley	NM	88043
Salas Martha A & Salas Cruz J	720 Bard St	Bayard	NM	88023
Salas Ramona	Po Box 926	Bayard	NM	88023
Salcido Christopher & Salcido Anisse	Po Box 492	Hurley	NM	88043
Salcido Raul	Po Box 851	Hurley	NM	88043
Salcido Victor Manuel Salcido Sherry L	Po Box 1336	Bayard	NM	88023
Salem'S Llc	Po Box 356	Socorro	NM	87801
Salgado Baudelia	Po Box 351	Santa Clara	NM	88026
Sanchez Avelino L	Po Box 941	Bayard	NM	88023
Sanchez Candelario M & Sanchez Rebecca D	7650 N 181St Avenue	Waddell	AZ	85355
Sanchez Cynthia (Cindy) M	Po Box 656	Hurley	NM	88043
Sanchez Lee M Sanchez Kimberly D	Po Box 36037	Ft Bayard	NM	88036
Sanchez Marayna Mendoza & Baca Gene Eric	213 Pattie Ave	Hurley	NM	88043
Sanchez Marcus	Po Box 1332	Bayard	NM	88023
Sanchez Mark A & Rosemary L	Po Box 1032	Bayard	NM	88023
Sanchez Patricia S Sanchez Henry M	Po Box 1136	Bayard	NM	88023
Sanco Investments Llc	Po Box 1020	Deming	NM	88031
Sandoval Adam	Po Box 945	Hurley	NM	88043
Sandoval Donna O	Po Box 520	Santa Clara	NM	88026
Sandoval Erminio R Sandoval Virginia	Box 123	Hanover	NM	88041
Sandoval Ruben Sandoval Flavia E	1624 Cerro Vista Loop	Los Lunas	NM	87031
Santa Maria Edward P Santa Maria Lucinda	506 Empire St	Bayard	NM	88023
Santa Maria Lydia P Et Al	622 Mckee Street	Bayard	NM	88023
Santa Maria Socorro B & Santa Maria Joel Bustillos & Santa Maria Steven R	Po Box 717	Bayard	NM	88023
Santa Rita Shrine Llc	Po Box 197	Santa Clara	NM	88026
Sauceda Fred Z & Ice Lydia	1205 Gretta Ne	Albuquerque	NM	87112
Savorillo Ynocencia H & Borunda Genevieve R	Po Box 907	Bayard	NM	88023
Sawyer Lesley G	701 Bard St	Bayard	NM	88023
Saxman Christopher & Macinnis Wanda L	Po Box 87	Hanover	NM	88041
Schaffner Daniel N	312 Santa Rita St	Hurley	NM	88043
Schenk John A	Po Box 281	Bayard	NM	88023
Schryver Haley & Handley Davis	314 Pattie St	Hurley	NM	88043
Scott Kirk	Po Box 895	Hurley	NM	88043
Scott Melissa Sias & Scott James Alan	Po Box 326	Hanover	NM	88041
Scruggs Carolyn D	305 Pattie	Hurley	NM	88043
Sedillos Carol	Po Box 911	Bayard	NM	88023
Sedillos Danielle E	Po Box 123	Hurley	NM	88043
Sedillos Edward S & Sedillos Kathryn Y Et Al	Po Box 933	Bayard	NM	88023
Sedillos James R	137 Geronimo St	Hurley	NM	88043
Sedillos Manuel A & Sedillos Juanita C Et Al	Po Box 226	Hurley	NM	88043
Sedillos Mike P Sr	503 E College Ave	Silver City	NM	88061

Table of Noticed Citizens

Name	Address	City	State	Zip Code
Sedillos Rosalina T	P O Box 112	Hanover	NM	88041
Seibert William W Iii	Po Box 970	Morenci	AZ	85540
Sepulveda Albert P & Sepulveda Salvador P	Po Box 1915	Mesilla Park	NM	88047-1915
Sepulveda Ana T	Po Box 103	Hurley	NM	88043
Sepulveda Norma J & Sepulveda Sonia Y & Sepulveda Ana T	P O Box 547	Hurley	NM	88043
Sepulveda Salvador P Jr Sepulveda Patricia J	315 Peru Street	Bayard	NM	88023
Serna Joseph G Family Trust	6 Elgua St	Hurley	NM	88043
Shelton Nikolas Family Trust	13 D Placitas Trails Rd	Placitas	NM	87043
Shinkle Theodore E Jr	304 Nevada Ave	Hurley	NM	88043
Shirey Rayburn D & Shirey Lana M	711 N Black St	Silver City	NM	88061
Short Mattysen & Deangelo Nicholas	312 Arizona St	Hurley	NM	88043
Sieferd Joanna	3520 Madison Rd	Levelland	TX	79336
Sierra Dora C	7381 Villiage Dr	Las Cruces	NM	88012
Sierra Jose M Sierra Rhonda R	Po Box 887	Bayard	NM	88023
Sierra Julian	609 4Th Ave	San Manuel	AZ	85631
Sierra William T Sierra Erlinda R	903 Rogers Street	Bayard	NM	88023
Silva Gloria B & Holguin Lynette	306 Fran Dr	Hurley	NM	88043
Silva Henry M	Po Box 661	Hurley	NM	88043
Silva Jessie C & Garcia Gloria C Silva Gilbert C	2 E Inez St	Tucson	AZ	85756
Silva Norma J	Po Box 591	Bayard	NM	88023
Silva Olga Lorraine Revocable Trust	431 Calle Del Sol	Rio Communities	NM	87002
Silva Roger Jr	Po Box 222	Santa Clara	NM	88026
Silver City Gas Llc	14709 Alabaster Avenue	Delray Beach	FL	33446
Simpson Albert Simpson Dora	201 Main Street	Bayard	NM	88023
Singer Mark A	4 Shirley Ct	Minot	ND	58703
Singleton Jon Dean	304 Franey St	Bayard	NM	88023
Skee James R & Skee R Gail	1530 Northfield Rd	Colorado Springs	CO	80919
Smith Shirley Ann	Box 235	Hurley	NM	88043
Smorra Thomas R	230 W Calle Montana Jack	Green Valley	AZ	85614
Solano Shirley	7522 Monterrey Dr	El Paso	TX	79915-2646
Soliz Daniel & Angelica	Po Box 254	Hurley	NM	88043
Sosaya Mariano G Sosaya Viola	Po Box 1195	Bayard	NM	88023
Sosaya Richard D	2627 S Lamb Blvd, Trlr 167	Las Vegas	NV	89121
Sosaya Richard D	Po Box 1433	Bayard	NM	88023
Sotelo Sergio Ochoa	717 Bard St	Bayard	NM	88023
Soto Sean & Rosales Elizabeth	120 E Madrid Space 5	Las Cruces	NM	88001
Southwest Enterprises Vielma Nicanor Q C/O	Po Box 5001	Silver City	NM	88062
Spann Donald K & Grimaldo Rhonda	10348 N Crooked Peak Trl	Marana	AZ	85653
Sparks Twana Livette	24 T&M Dairy Rd	Hanover	NM	88041
Spirit Of 76 Llc	10401 Monroe Rd	Matthews	NC	28105
Staats John	Po Box 2424	Silver City	NM	88062
Stailey Glen & Stailey Michelle	Po Box 885	Bayard	NM	88023
Steenport Frank Lopez & Steenport Julianne S	Po Box 482	Bayard	NM	88023
Stephenson Mark & Stephenson Myfawnwy	101 C St	Hurley	NM	88043
Stevens Curtis Jr & Stevens Kristia	302 C St	Hurley	NM	88043
Stevens Curtis K Jr & Kirk Krista R	302 C St	Hurley	NM	88043
Stevens Joseph E & Stevens Nancy Jay U/C	100 Cortez	Hurley	NM	88043
Stokes Colin & Stokes Carolyn	993 W Cagney Dr	Meridian	ID	83646
Stone Joseph Roy & Stone Patricia Grijalva	717 Dayhill St	Bayard	NM	88023
Strain Mercedes Elaine	2441 S. Kihei Rd Apt B-202	Kihei	HI	967537217
Stratton Michael Kevin & Mcfarlane Brenda Leigh	5 Nevada Ave	Hurley	NM	88043
Strong Peder Dawson	Po Box 148	Bayard	NM	88023
Stults Robert M	Po Box 234	Hurley	NM	88043
Sturdevant April	113 Aztec	Hurley	NM	88043
Sublasky Maria Martina	Po Box 1464	Bayard	NM	88023
Sweeten Betty	1315 Georgia St	Silver City	NM	88061
Tafoya Jose Elizalde-Tafoya Jennifer	310 D St	Hurley	NM	88043
Tapscott Teddy W & Rhonda A Tapscott Justin C & Waynette A	2361 Cottage San Road	Silver City	NM	88061
Taylor Katherine Corliss	Po Box 1308	Deming	NM	88031
Teague Randy	Po Box 14	Hanover	NM	88041
Tecca Zachary D & Joseph Scarlett	316 Elguea Ave	Hurley	NM	88043
Telles Anselmo B & Gonzales Alejandra	Po Box 224	Hurley	NM	88043
Telles Elizabeth A Et Al	Po Box 81	Hurley	NM	88043
Tellez Juan G U/C	417 E 18Th Street	Silver City	NM	88061
Teran Amanda	Po Box 387	Bayard	NM	88023
Teran Manuel E Teran Monica A	Po Box 683	Bayard	NM	88023
Teran Ray L Vigil Eva	1300 Swan	Silver City	NM	88061
Terrazas Arturo	Po Box 3077	Silver City	NM	88062
Terrazas Carlos M	Po Box 649	Bayard	NM	88023
Terrazas Christina Corral & Alexander Frances Alma	6300 Estes St	Arvada	CO	80004
Terrazas Cruz C	Po Box 1307	Bayard	NM	88023
Terrazas David R & Terrazas Doris S	Po Box 567	Bayard	NM	88023
Terrazas Inc	40 Flurry Ln	Silver City	NM	88061-8834
Terrazas Inc Dba Gila Lumber & True Value	3100 Highway 180 E #B	Silver City	NM	88061
Terrazas Josie Jauregui & Cordova Lucille T	211 A St	Hurley	NM	88043
Terrazas Robert & Terrazas Susie Et Al	507 Orchard St	Bayard	NM	88043
Terrazas Robert R	Po Box 1131	Bayard	NM	88023
Thatcher Eric & Thatcher Kathleen	102 B Street	Hurley	NM	88043
Thomas Vanessa	104 Elguea Ave	Hurley	NM	88043
Thompson Eric	Po Box 606	Reserve	NM	87830
Thompson Garry Lee Jr	1350 Kelso Dunes Ave	Henderson	NV	89014
Thompson Kevin M	Po Box 747	Hurley	NM	88043
Thompson Phyllis Tucker Helen	14 Pattie Ave	Hurley	NM	88043
Thomson Jamie K U/C	316 Diamond St	Bayard	NM	88023
Thrasher Sarah A & Dominguez Billy J	715 Guinevan St	Bayard	NM	88023
Tibayan Hilda Etal	808 E Lori Pl	Silver City	NM	88061
Tilden Family Living Trust The	5344 Highway 152	Hanover	NM	88041

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Name	Address	City	State	Zip Code
Tin Cup Properties, Llc	6262 N. Camino Verde	Tucson	AZ	85743
Toms Yolanda G	Po Box 533	Bayard	NM	88023
Toney Elyse J	1 Yucca Valley Dr	Arenas Valley	NM	88022
Torres Alfonso F Diaz Erlinda T	Po Box 694	Bayard	NM	88023
Torres Antonio R Torres Lucinda J	Box 114	Hanover	NM	88041
Torres Fortunato P	506 1/2 S Canyon St	Bayard	NM	88023
Torres Frank	Po Box 2606	Deming	NM	88031
Torres Frankie U/C	1 E Crescent St	Silver City	NM	88061
Torres John M Sr Torres Stephanie M	216 Elguea	Hurley	NM	88043
Torres Leonarda A Torres Gabriel	7 Park	Bayard	NM	88023
Torres Manuel C & Sierra Maria T & Duarte Mario Anthony	Po Box 518	Bayard	NM	88023
Torres Sonia C	Po Box 1313	Bayard	NM	88023
Torrez Demecio O Torrez Diane M	Po Box 4	Hurley	NM	88043
Torrez Gabriel	7 Park Street	Bayard	NM	88023
Tovar Alejandro C Tovar Bernadette	306 Chino Street	Bayard	NM	88023
Tovar Dora D	504 Vencill St	Bayard	NM	88023
Trevizo Robert A	Po Box 477	Bayard	NM	88023
Trinkle Jeffrey & Trinkle Nancy Revocable Trust	Po Box 798	Silver City	NM	88062
Triviso Jaime E Triviso Anna M	Po Box 681	Hurley	NM	88043
Triviso Jaime Emiliano Jr	302 1/2 B Street	Hurley	NM	88043
Trominski Gretchen J & Trominski Ernest M	4825 Costa De Oro	El Paso	TX	79922
Trujillo Angela J Humble Margaret L	611 N Canyon Street	Bayard	NM	88023
Trujillo Audon Jr Wilkes-Trujillo Nancy L	506 W 3Rd Ave	T Or C	NM	87901
Trujillo Brooklyn	3736 N Fran Dr	Silver City	NM	88061
Trujillo Elsie	Po Box 212	Hurley	NM	88043
Trujillo Isaac S	Po Box 284	Bayard	NM	88023
Trujillo Luis T	Po Box 63	Bayard	NM	88023
Trujillo Lupe	Po Box 692	Hurley	NM	88043
Trujillo Pete C Et Al	Po Box 666	Hurley	NM	88043
Trujillo Sam & Ortiz Jessica	Po Box 233	Hurley	NM	88043
Trujillo Terry R & Trujillo Misty A	25 Lassen St	Silver City	NM	88061
Trump Randolf L	510 D Street	Hurley	NM	88043
Turner Alton F Estate	Po Box 1317	Silver City	NM	88062
Udero Ruben M Udero Ellen L	Po Box 588	Bayard	NM	88023
Ueland Eddeana	Po Box 93	Bayard	NM	88023
Uirc-Gsa Vii Bayard Nm Llc	15700 W 103Rd St	Lemont	IL	60439
Valadez Martha Elena	Po Box 882	Santa Clara	NM	88026
Valencia Alexis O	Po Box 1204	Santa Clara	NM	88026
Valencia Michele T	2403 Village Dr	Silver City	NM	88061
Valle Yolanda Chacon Lopez Michelle	1051 Hoskins Lane	Las Cruces	NM	88007
Van Patten Scott D Van Patten Veronica	Po Box 689	Bayard	NM	88023
Vance Enrique & Vance Hilda	1390 N La Canoa	Green Valley	AZ	85614
Vannatter Greg	512 D St	Hurley	NM	88043
Varela Jose Mauricio	Po Box 1318	Bayard	NM	88023
Vargas Amelia H	Po Box 763	Bayard	NM	88023
Vargas Antonio	Po Box 35	Hanover	NM	88041
Vargas Balbine P Estate	5710 Avalon Rd Nw, Bldg C, Apt. 301	Albuquerque	NM	87105
Vega Genevieve	Po Box 181	Bayard	NM	88023
Vega Vanessa & Ferguson Jacob	714 Dayhill St	Bayard	NM	88023
Vela Yrau	120 Apache Brave St	Santa Teresa	NM	88008
Venegas Ernest L Et Al	Po Box 715	Bayard	NM	88023
Venegas Randolph E Venegas Leticia M	Po Box 52	Hurley	NM	88043
Vesely Vincent M	Po Box 869	Silver City	NM	88062
Vick Betty M & Vick Jennings S Iii & Vick Lanny J	3333 Orchid Lane	Phoenix	AZ	85051
Vigil Clara S Etal	Po Box 1112	Bayard	NM	88023
Vigil Eva & Santamaria Alfonso R	Po Box 1171	Bayard	NM	88023
Vigil Jesus M	Po Box 214	Bayard	NM	88023
Vigil Saul & Gallegos Janelle Eden	311 Pattie Ave	Hurley	NM	88043
Village Of Bayard	Po Drawer T	Bayard	NM	88023
Villalobos Tommy T & Flores Gloria V	Po Box 886	Santa Clara	NM	88026
Villanueva Stacey G Villanueva Raul D	706 Taylor Street	Bayard	NM	88023
Villegas Margarita H	701 Erie Mckee St	Bayard	NM	88023
Villegas Reynaldo Villegas Sylvia	13825 N Cottonwood St	Surprise	AZ	85374
Villines William Patrick Villines Desiree N	Po Box 809	Bayard	NM	88023
Vizcarra Ray Vizcarra Jane A	Box 111	Bayard	NM	88023
Walker Mary C	1005 Blackhawk St	Bayard	NM	88023-9785
Wallington Lynn	9014 Thornton Rd #8	Stockton	CA	95209
Walters Family Revocable Trust	Po Box 5012	Silver City	NM	88062
Warhank Ty & Carbajal Andrea	708 Guinevan St	Bayard	NM	88023
Welch James G U/C	4681 Ironwood Lane	Silver City	NM	88061
Western New Mexico Telephone Company Inc	Po Box 3079	Silver City	NM	88062
Western Precious Metals Inc	30251 Suite 561	Laguna Niguel	CA	92677
Wheeler Craig Mark	29625 Coral Cove Rd	Laguna Niguel	CA	92677
White Corey & White Crystal	Po Box 1347	Bayard	NM	88023
White Don W Jr & Aguirre Mary Jane	10 Romero Ave	Hurley	NM	88043
White Julie & Sias Alvin J	126 Arenas Valley Rd	Arenas Valley	NM	88022
Whites Steven O	710 Dayhill	Bayard	NM	88023
Wilguess David A Wilguess Cheryl D	Po Box 577	Bayard	NM	88023
Wilkey Lisa A	Po Box 496	Bayard	NM	88023
Willet Michael B	810 Waggoner	Bayard	NM	88023
Williams Robert & Curtis Paula J Longhurst	#6 Mum Street	Hurley	NM	88043
Williamson Grant & Williamson Julie U/C	712 Lusk St	Bayard	NM	88023
Wilson Anthony & Wilson Kenneth	Po Box 1167	Bayard	NM	88023
Wilson James B Wilson Elaine J 2006 Living Trust	103A N Pinos Altos St	Silver City	NM	88061
Wilson Sylvia	3325 Marino Drive Se	Rio Rancho	NM	87124
Woods Ramon S	Po Box 236	Hurley	NM	88043
Wright Frank C Sr & Arciero Leo	Box 563	Bayard	NM	88023
Wright Sandra K	Po Box 1378	Bayard	NM	88023

Table of Noticed Citizens

Name	Address	City	State	Zip Code
Yoder W	309 Davis St	Bayard	NM	88023
Young Cecilia (Sally) & Gonzales Annie	8 Loma Verde Dr	Silver City	NM	88061
Young Manuel L Young Manuel A & Duran Sally Y	Po Box 983	Santa Clara	NM	88026
Young Martin K Young Gail C	112 Aztec	Hurley	NM	88043
Young Patricia V	Po Box 1437	Bayard	NM	88023
Zapata Antonio	Po Box 105	Bayard	NM	88023
Zuniga Kelly R Zuniga Javier	112 Romero Ave	Hurley	NM	88043

9.8: Radio Public Service Announcement and Proof of Submittal

Submittal of Public Service Announcement – Certification

I, Kaelin Gagnon, the undersigned, certify that on **February 11, 2026**, submitted a public service announcement to **KNFT-FM** that serves **Grant** County, New Mexico, in which the source is or is proposed to be located and that **KNFT-FM RESPONDED THAT IT WOULD AIR THE ANNOUNCEMENT.**

Signed this 12 day of February, 2026,

Kaelin Gagnon
Signature

February 12, 2026
Date

Kaelin Gagnon
Printed Name

Associate consultant
Title {APPLICANT OR RELATIONSHIP TO APPLICANT}

STATION DOCUMENTATION APPROVED BY
THE ASSOCIATION OF NATIONAL ADVERTISERS
Form at bottom of script indicates how many times script ran, at what cost

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Station call letters: KNFT-FM
Client: Freeport-McMoRan Copper and Go **for:**
Begin: 2/13/2026 **End: 2/13/2026** **Date: 2/15/2026**

This is a public notice regarding the Chino Mine. Freeport-McMoRan Chino Mines Company, principal owner and operator of the Chino Mine, will be submitting to the New Mexico Environment Department Air Quality Bureau for a New Source Review Significant Revision permit. Chino Mine is a copper mining operation located at 99 Santa Rita Mine Road, Vanadium, NM 88023 in Grant County. The application seeks approval to construct two evaporative sprayers, modify blasting operations and haul road use, adjust certain mining activities, and remove emission units that are no longer in service. Public notice has been posted at the following locations in Grant County: the Chino Main Gate, Chino North Gate in Hurley, the Chino SXEW Gate, the Bayard Post Office, the Fierro Post Office, and the Hurley Post Office. Written comments may be directed to the Permit Programs Manager at the New Mexico Environment Department Air Quality Bureau via mail at 525 Camino de los Marquez, Suite 1, Santa Fe, New Mexico, 87505 or via telephone 505-476-4300 or toll free at 1-800-224-7009.

This announcement was broadcast a total of 1 times at the dates and times coded Chino Mines Announcement on our attached invoice number 26020019 dated 2/15/2026, as entered in the station's program log. This announcement was billed to this client at a total cost of $200.00

Salia Humphrey for KNFT-FM
(Signature of Station Official)

SABRINA L PACK
Notary Public
State of New Mexico
Comm. # 1126569
My Comm. Exp. Sep 15, 2027

STATE OF NEW MEXICO
COUNTY OF GRANT
Subscribed and sworn before me this 17 day of Feb 2026

Sabrina Pack, Sabrina Pack NOTARY PUBLIC
Commission expires 9-15-2027

9.9: Newspaper Legal Ad and Display Ad Affidavits

Obituaries

From Page 9

be remembered as a devoted husband, a proud airman, and a man of integrity whose life touched many. He is survived by his loving wife, Bärbel Irons, of the family home. He was preceded in death by his parents and by his brother, Tim Irons. A graveside service will be held Friday, Feb. 6, at 2 p.m. at Fort Bayard National Cemetery with full military honors. Cremation will take place at Terrazas Crematory. Arrangements are with **Terrazas Funeral Chapels and Crematory**. "Trusted care for the ones you love." Phone 575-537-0777. To send condolences, visit www.terrazasfuneralchapel.com.

MIRANDA: Armando Hernandez Miranda Jr., 77, of Silver City, passed away at home Thursday, Jan. 29, 2026. Cremation has been entrusted to the care of Baca's Funeral Chapels. A recitation of the Holy Rosary will be held at 9 in the morning Saturday, Feb. 7, at St. Vincent de Paul Catholic Church in Silver City. The Memorial Mass will begin at 10. A private committal service will be held at a later time. Father Oliver Obele will officiate. Honorary pallbearers are all of his grandchildren. Armando was born Dec. 28, 1948, in Silver City to Armando Sr. and Alice Miranda. After high school, Armando trained as an electrician and made a career in the mining industry. He married Diana Marquez and together they raised eight children. Armando will be remembered as a loving and loyal provider to many family members, loved ones and friends. He was a trustworthy and generous man who would do anything for those he loved. Armando was a devoted member of the Catholic Church and loved the Lord dearly. He is survived by his loving wife of 58 years, Diana Miranda; children, Abie, Daniel, Fabian, Steven, Armanda and April Miranda, Veressa Chavez, and Matthew Sierra; and grandchildren, Isaiah Miranda, Zechariah Miranda, Ryan Miranda, Danyka Lewis, Brady Miranda, Baylor Miranda, William Mi-

OBITUARIES Page 11

Legal

STATE OF NEW MEXICO
COUNTY OF GRANT
SIXTH JUDICIAL DISTRICT

No. D-608-CV-2025-00017

WELLS FARGO BANK, N.A.,

Plaintiff,

vs.

KEVIN JOSEPH BARTOLUCCI; CATHLEEN MARY CARLSON; and ELAINE ELIZABETH PRESLEY,

Defendants.

NOTICE OF SALE

NOTICE IS HEREBY GIVEN that on March 6, 2026, at the hour of 12:15 p.m., the undersigned Special Master will, at the outside the main entrance of the Grant County District Courthouse, 201 N. Cooper, Silver City, New Mexico, sell all the right, title and interest of the above-named Defendants in and to the hereinafter described real estate to the highest bidder for cash. The property to be sold is located at 2981 Highway 35, Mimbres, and is situate in Grant County, New Mexico, and is particularly described as follows:

Lot 3, Block 2, Mimbres Paradise Acres No. 2, a rural subdivision in the SE1/4 Section 10, Township 17 South, Range 11 West, N.M.P.M., Grant County, New Mexico, according to the survey and plat thereof by John L. Gray, Surveyor, filed in the office of the County Clerk of Grant County, New Mexico, August 10, 1970 and recorded in Book 4, Page 39, Plat Records,

including, but not limited to, the manufactured home permanently attached thereto, a 1994 FLWD/HIGH, VIN No. AZFLP21AB00949HP, title to which has been deactivated in the records of the Motor Vehicle Department of the State of New Mexico.

THE FOREGOING SALE will be made to satisfy a judgment rendered by the above Court in the above entitled and numbered cause on January 15, 2026, being an action to foreclose a mortgage on the above described property. The Plaintiff's Judgment, which includes interest and costs, is $134,590.94 and the same bears interest at 3.375% *per annum* from December 20, 2025, to the date of sale. The Plaintiff and/or its assignees has the right to bid at such sale and submit its bid verbally or in writing. The Plaintiff may apply all or any part of its judgment to the purchase price in lieu of cash. The sale may be postponed and rescheduled at the discretion of the Special Master.

NOTICE IS FURTHER GIVEN that the real property and improvements concerned with herein will be sold subject to any and all patent reservations, easements, all recorded and unrecorded liens not foreclosed herein, and all recorded and unrecorded special assessments and taxes that may be due. Plaintiff and its attorneys disclaim all responsibility for, and the purchaser at the sale takes the property subject to, the valuation of the property by the County Assessor as real or personal property, affixture of any mobile or manufactured home to the land, deactivation of title to a mobile or manufactured home on the property, if any, environmental contamination on the property, if any, and zoning violations concerning the property, if any.

NOTICE IS FURTHER GIVEN that the purchaser at such sale shall take title to the above described real property subject to a one month right of redemption.

Electronically filed /s/ Robert Doyle
Robert Doyle, Special Master
c/o Legal Process Network
PO Box 279
Sandia Park, NM 87047
505-417-4113

J29,F5,12,19

Legal

STATE ENGINEER OFFICE

NOTICE is hereby given that on December 22, 2025, Steeple Rock Ranch Limited Partnership c/o E. James Lunt, 2537 E. Edgewood Ave., Mesa, AZ, 85204, filed with the **STATE ENGINEER** Application No. GSF-02401-1 for Permit to Change Point of Diversion of Groundwater within the Gila-San Francisco Water Basin of the State of New Mexico.

Grant is the County affected by the diversion and in which the water has been or will be put to beneficial use. This notice is ordered to be published in the Silver City Daily Press.

The applicant is requesting to discontinue the use of existing well GSF-02401, in the SW¼SW¼NE¼ of Section 29, Township 17 South, Range 20 West N.M.P.M., and commence the use of proposed well GSF-02401-POD2 to be located in the SW¼NE¼ of Section 29, Township 17 South, Range 20 West N.M.P.M. at approximate latitude 32° 48' 03.46" N, longitude -108° 55' 48.53" W, to be drilled to a depth of 250 feet and constructed with 6.0 inch diameter casing, for an amount of water not to exceed 3.0 acre-feet per annum measured at the well for livestock purposes on land owned by the applicant located in the SW¼SW¼NE¼ of Section 29, Township 17 South, Range 20 West N.M.P.M.

The point of diversion described in this application is located approximately 9 miles northeast of Virden, New Mexico in Grant County.

To view the application and supporting documentation please visit the Office of the State Engineer's website, www.ose.nm.gov, select the "Notices for Publication" link at the top of the homepage, click on the county in which the application was filed, and select the relevant notice for publication.

Any person, firm or corporation or other entity asserting standing to file objections or protests shall do so in writing (objection must be legible, signed, and include the writer's complete name, phone number, email address, and mailing address). If the protest does not include the complete name, phone number, email address, and mailing address, it may be deemed invalid and not accepted for filing unless Protestant provides with the protest an affidavit stating that it does not have one of the above-listed elements/requirements (phone number, mailing address, email address, etc.). The objection to the approval of the application must be based on: (1) Impairment; if impairment, you must specifically identify your water rights; and/or (2) Public Welfare/Conservation of Water; if public welfare or conservation of water within the state of New Mexico, you shall be required to provide evidence showing how you will be substantially and specifically affected. The written protest must be filed, in triplicate, with the State Engineer, 321 W. Spruce St., Deming, NM 88030, on or before April 3, 2026. Facsimiles (faxes) will be accepted as a valid protest if the hard copy is hand-delivered or mailed and postmarked within 24-hours of the facsimile. Mailing postmark will be used to validate the 24-hour period. Protests can be faxed to the Office of the State Engineer, 575-546-2290. A copy of the written protest filed with the State Engineer must also be sent to the applicant by certified mail. If no valid protest or objection is filed, the State Engineer will evaluate the application in accordance with the provisions of Chapter 72 NMSA 1978.

J29,F5,12

Legal

NOTICE OF AIR QUALITY PERMIT APPLICATION

Freeport-McMoRan Chino Mines Company (Freeport) announces its application submittal to the New Mexico Environment Department for an air quality permit for the **modification** of its **mining operations.** The expected date of application submittal to the Air Quality Bureau is **February 13, 2026.**

The exact location for the proposed facility known as, **Chino Mine**, is at latitude **32.783594** dec deg North and longitude **-108.069194** dec deg West**.** The approximate location of this facility is **4.1** miles **east-northeast** of **Bayard, NM** in **Grant** County.

The proposed **modification** consists of the construction of two evaporative sprayers, as well as the modification of blasting operations, haul road use, and other activities. Freeport also proposes to remove various emission units and activities at the Chino Mine that are no longer in use.

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)	2,006	14,376
PM_{10}	586	3,923
$PM_{2.5}$	81	465
Sulfur Dioxide (SO_2)	2	4
Nitrogen Oxides (NO_x)	51	300
Carbon Monoxide (CO)	27	1,936
Volatile Organic Compounds (VOC)	9	35
Total sum of all Hazardous Air Pollutants (HAPs)	10	12
Total sum of Toxic Air Pollutant (TAPs)	4	14
Copper (TAP)	1	2
Sulfuric Acid (TAP)	3	12
Green House Gas Emissions as Total CO_2e	N/A	416,291

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

The owner and/or operator of the Facility is: **Freeport-McMoRan Chino Mines Company; P.O Box 10, Bayard, NM 88023**

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. Other comments and questions may be submitted verbally. (505) 476-4300; 1 800 224-7009.

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, and links to the regulations can be found at the Air Quality Bureau's website: www.env.nm.gov/air-quality/permitting-section-homepage/. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC.

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 505-629-7748.

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: Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@env.nm.gov. 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.

F5

Legal

Public Notice –
Silver City, NM

Atlas Tower 1, LLC proposes the construction of a 100 ft. monopole communications tower (104 ft with appurtenances) located at 3705 PINOS ALTOS Rd, Silver City, New Mexico 88061, in Grant County, at latitude 32°47'41.3880"N (NAD83) and longitude -108°15'35.2080"W (NAD83). The proposed tower will not require lighting for FAA aviation safety. The proposed tower can be identified by FCC Form 854 File Number A1358449. Interested persons may review the application by going to www.fcc.gov/asr/applications and entering the FCC Form 854 File Number A1358449. Interested persons may raise environmental concerns about the proposed structure by filing a Request for Environmental Review with the Federal Communications Commission. The Federal Communications Commission strongly encourages interested parties to file Requests for Environmental Review online; instructions for making such filings can be found at www.fcc.gov/asr/environmentalrequest. The mailing address for interested parties that would prefer to file a Request for Environmental Review by paper copy: FCC Requests for Environmental Review, Attn: Ramon Williams, 445 12th Street SW, Washington, DC 20554.

Feb 5

F5

Scam alert: NM has no toll roads

New Mexico has no toll roads. Any message claiming you owe toll fees in the state is 100 percent fraudulent.

New Mexico Department of Transportation officials emphasize that New Mexico does not operate any toll roads within state boundaries and will never request toll payments from residents or visitors, according to a news release.

Current scam details

Scammers are sending urgent messages claiming that "enforcement action" will begin after Feb. 4. These sophisticated scams attempt to steal personal and financial information by:

- Sending text messages or emails demanding immediate toll payment
- Making phone calls claiming toll violations with threats of penalties
- Creating convincing fake websites that mimic official government pages

How to protect yourself:

- Ignore all unexpected messages about unpaid New Mexico toll roads; New Mexico has no toll roads.
- Do not click links in suspicious texts or emails about toll violations.
- Never scan QR codes from unexpected messages about toll payments.

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(Photo Courtesy of Carol Sarath)

The Gallup Independent printed its final edition Jan. 31 after 62 years as the area's only newspaper publishing multiple times a week.

NM news desert grows with closure of Gallup newspaper

By PATRICK LOHMANN
Source New Mexico

The Gallup Independent, the longtime newspaper serving a town of 20,000 on the border of the Navajo Nation, published its final issue Saturday due in part to what publisher Bob Zollinger described as an economic "collapse" in the area.

Zollinger and his father, John, ran the paper for the last 62 years. The print-only publication peaked at a circulation of 18,000 issues in 2006. Its last run Saturday was a little under 5,000, according to an article in its final issue.

According to the article, factors that contributed to the paper's closure include the rise of social media, the COVID-19 pandemic, tariff impacts on newsprint and a sharp decrease in advertising.

Zollinger added another possible reason in a phone interview Sunday with Source New Mexico: The rising cost of silver, a key commodity in a town that runs on Native American jewelry, has stalled the local economy. But he said the sudden downturn still remains a mystery.

"Price of silver, price of cars. You can speculate all you want," Zollinger said. "The bottom line is, something happened and the bottom fell out."

The paper published four times a week and had an op-ed page, plus coverage of local government, schools, health care and high school sports. Its departure leaves the area with only a weekly newspaper, the Gallup Sun, and a monthly human interest magazine, along with local radio stations.

Zollinger said one story he feels proud of after decades at the Independent came in 2010, when an old booking record for then-mayor Harry Mendoza resurfaced showing his alleged involvement in a sexual assault as a teenager. The paper published the story.

Shortly afterward, Zollinger and the mayor encountered each other at a bank parking lot and got into a fistfight. A subsequent issue featured a front-page photo of Zollinger showing his bloodied bottom lip. Mendoza denied the sexual assault allegations and sued the paper for libel, though the paper later won.

"That was a big win for us. We just said we're not gonna bend over or apologize. We're just gonna go to the mat," Zollinger said.

The Independent's closure comes amid a worsening news landscape in New Mexico, particularly in rural areas and among Indigenous communities. A recent report from the New Mexico Local News Fund found that nearly half of the state's local news outlets are concentrated in four metropolitan areas. Outside Albuquerque/Rio Rancho, Santa Fe, Las Cruces and Farmington, news outlets are "overwhelmingly small and under-resourced," according to the report.

Zollinger said he has discussed the paper's closure with Navajo Nation President Buu Nygren, who floated the possibility of the tribe buying the newspaper. Zollinger said he urged Nygren to ensure the paper maintains its editorial independence if such a sale occurs.

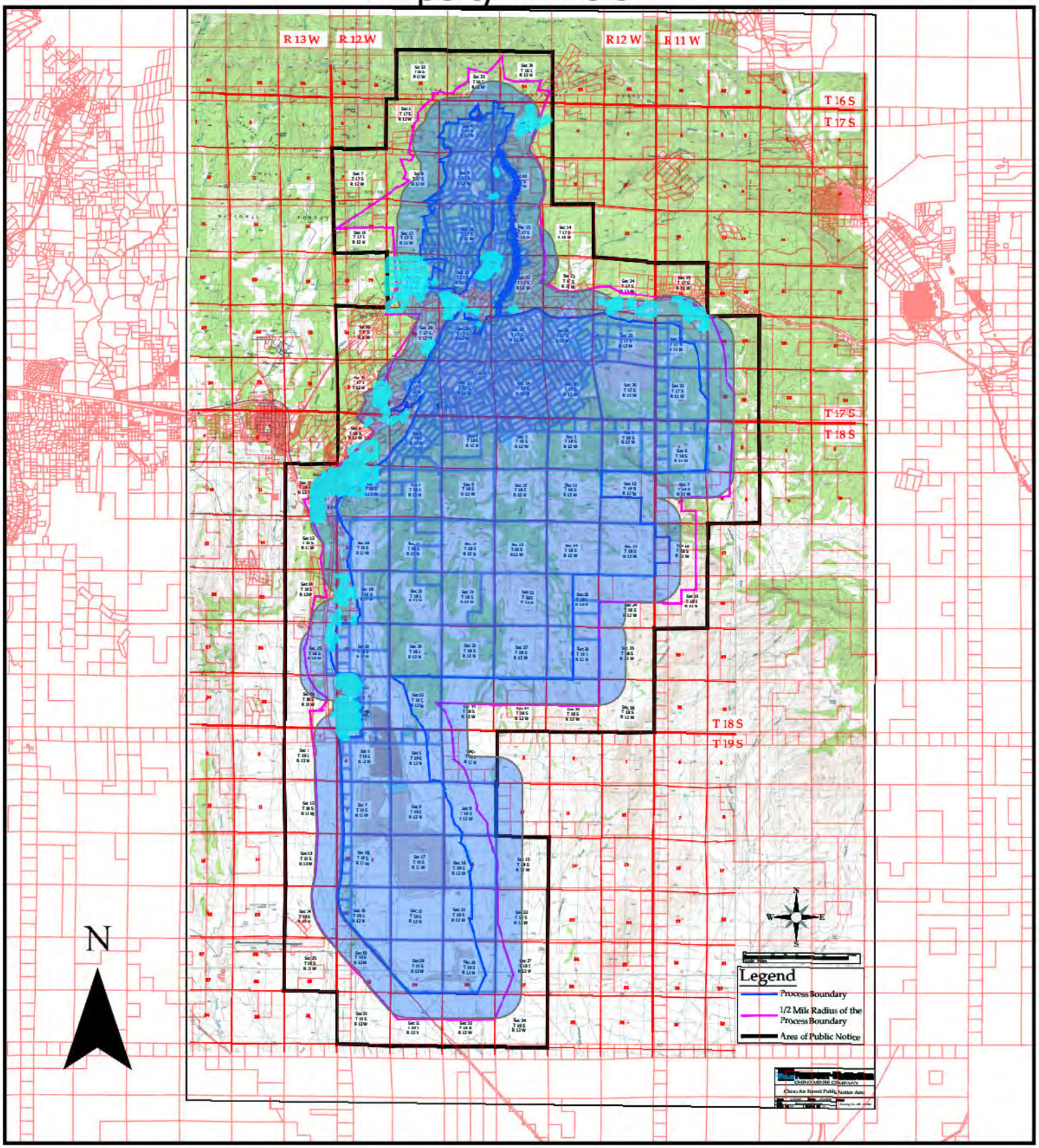
In the meantime, Zollinger fears upcoming meetings of the school board, city council, hospital board of directors or county commission won't have a single reporter in attendance.

"I have deep fears about what's going to go on now," he said, "with the Independent not looking over things."

This article was originally published at sourcenm.com.

9.11: Map of Facility and Notified Parcel Owners

2026 Freeport Notification Half Mile Property Owners



Legend

Grant County Interactive Parcel Map

Selection

FreeportOperation

Freeport Half Mile Buffer

0 1.25 2.5 5 7.5 10

Miles

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.

Freeport McMoRan Chino Mines Company (Freeport) owns and operates the Chino Mine (Chino), an open-pit copper mining operation located approximately 15 miles east of Silver City in Grant County, New Mexico (UTM Zone 12; Air Quality Control Region 012). The primary purpose of the facility is to produce copper cathode using the Solvent Extraction/Electrowinning (SXEW) process and copper concentrate using a wet flotation process. Chino is a minor source under the Prevention of Significant Deterioration (PSD) rules and a major source for operating permit purposes under Title V (20.2.70 NMAC) and will remain so as part of this significant permit revision application.

Chino includes two open pits, the Santa Rita open pit and the Continental open pit (formally known as the Cobre Mine or herein as “Cobre”) located approximately 3 miles north of the Santa Rita open pit. Cobre also contains Hanover Mountain which has actively been mined down to base and will continue to be mined down to another open pit. The facility includes extensive unpaved haul roads, ore and waste rock stockpiles, and associated support infrastructure. Ore mined from Cobre is transported via the Cobre Haul Road for future processing. Additional operations include a mill, which includes a primary crusher, conveyor belts and concentrator, two screening plants, loading of magnetite into over-the road trucks, a power plant, and a solution extraction and electrowinning plant.

Ore extracted from the pits is transported via dedicated haul roads, including the Cobre Haul Road, to processing areas within the Chino Mine. The facility’s primary operations include:

- Crushing and Milling: Ore is processed through a primary crusher and conveyed to a concentrator for further size reduction and mineral separation.
- Flotation and Concentrate Production: The concentrator utilizes wet flotation to produce copper concentrate.
- SX/EW Processing: Copper is recovered through a SXEW process to produce copper cathode.
- Material Handling and Screening: Includes two screening plants and the loading of magnetite into over-the-road trucks.
- Power Generation: On-site power generation supports mining and processing operations.

These processes are supported by ancillary activities such as drilling, blasting, grading, dozing, and material handling, which contribute to the facility’s overall emissions profile.

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)**: Refer to Table 2-A**

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** ÿ **No**

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

☑ **Yes** ÿ **No**

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

☑ **Yes** ÿ **No**

C. Make a determination:

☑ 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.

ÿ The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

Section 12

Section 12.A

PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

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

A. This facility is:

- ☑ **a 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.**

This facility will remain PSD Minor source after this permit modification.

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/

Table for State Regulations:

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
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	20.2.3 NMAC is a SIP-approved regulation that limits the maximum allowable concentration of Sulfur Compounds, Carbon Monoxide, and Nitrogen Dioxide in the ambient air. 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	Because the facility and individual pieces of equipment are subject to emissions limits in a permit, this regulation applies to the entire facility.
20.2.23 NMAC	Fugitive Dust Control	No	N/A	Because the facility's operations are authorized under a construction permit pursuant to the New Mexico Air Quality Control Act, the facility is exempt from this regulation pursuant to 20.2.23.108.B.3 NMAC.
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	Because the facility does not have gas burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per as described in 20.2.33.108 NMAC, this regulation does not apply.
20.2.34 NMAC	Oil Burning Equipment: NO_2	No	N/A	Because the facility does not have oil burning equipment having a heat input of greater than 1,000,000 million British Thermal Units per year per as described in 20.2.34.108 NMAC, this regulation does not apply.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No	N/A	The purpose of this regulation is to establish sulfur emission standards for natural gas processing plants. Because the facility does not meet the definition of an existing natural gas processing plant (20.2.35.7.A NMAC) or new natural gas processing plant (20.2.35.7.B NMAC), this regulation does not apply.
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	No	N/A	Because the facility does not have a natural gas processing plant as defined under 20.2.35.7 NMAC, this regulation does not apply.
20.2.38 NMAC	Hydrocarbon Storage Facility	No	N/A	Because the facility does not have a petroleum production facility or a petroleum processing facility as described in 20.2.38.109 through 20.2.38.113 NMAC, this regulation does not apply.
20.2.39 NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	Because the facility does not have a sulfur recovery plant as described in 20.2.39.110 through 20.2.39.114 NMAC, this regulation does not apply.
20.2.50 NMAC	Oil and Gas Sector – Ozone Precursor Pollutants	No	N/A	Because the facility does not have any crude oil and natural gas production and processing equipment as described in 20.2.50.111.A NMAC, this regulation does not apply.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	F-2-1-1.4, F-2-1-1.5, SX/EW Boilers Nos. 1-3	This regulation applies to the listed stationary combustion equipment pursuant to 20.2.61.109 NMAC and therefore this equipment is subject to a 20% opacity standard. Because Unit CB SCRN ENG is regulated by a Part of Chapter 2 (NSPS 40 CFR 60, Subpart IIII under 20.2.77 NMAC), which specifically limits particulate emissions, it is exempt pursuant to 20.2.61.109 NMAC. The facility does not have a diesel-powered vehicle as described in 20.2.61.110 NMAC or a diesel-powered locomotive as described in 20.2.61.112 NMAC and therefore those regulations do not apply.
20.2.70 NMAC	Operating Permits	Yes	Facility	Because the facility's potential to emit NO_X, CO, PM, and PM is greater than 100 tpy, it is considered a "major source" as defined under 20.2.70.7.R(2) NMAC and therefore this regulation applies pursuant to 20.2.70.200.A NMAC. The facility currently operates under Title V Operating Permit P066-R3M1.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	Because the facility is required to have an operating permit under 20.2.70 NMAC, this regulation applies pursuant to 20.2.71.109 NMAC.

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
20.2.72 NMAC	Construction Permits	Yes	Facility	The facility currently has a construction permit (New Source Review Permit No. 0298-M11-R11) pursuant to 20.2.72 NMAC. Because this application seeks authorization for a modification, the facility has a potential emission rate (PER) greater than 10 pounds per hour or 25 tons per year of regulated air contaminants for which there is a National or New Mexico Air Quality Standard, and such regulated air contaminants will be emitted as a result of the modification, this regulation applies pursuant to 20.2.72.A(2) NMAC.
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	Pursuant to 20.2.72.200.A(2), notice of intent (NOI) requirements could apply if the facility intends to modify the stationary source which either prior to or following the modification will have a potential emission rate (PER) greater than 10 tons per year of any regulated air contaminant or 1 ton per year of lead. Because the facility has been issued a permit under 20.2.72 NMAC (Construction Permits), the emissions inventory requirements of 20.2.73.300 NMAC apply pursuant to 20.2.73.300.A(1) NMAC.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	N/A	Because the facility does not have the potential to emit 250 tons per year or more of any regulated new source review pollutant (facility-wide non-fugitive emissions), it is not considered a major stationary source as defined under 20.2.74.7.AG NMAC for purposes of the PSD regulations and therefore this regulation does not apply.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	Because the facility is submitting this application in accordance with 20.2.72 NMAC, this regulation applies pursuant to 20.2.75.2 NMAC.
20.2.77 NMAC	New Source Performance	Yes	Diesel Emergency Generators, Natural Gas Emergency Generator, LPG Emergency Generators, F-2-1-1.5, F-2-1-1.4, PC-01, PC DUMP, CTS-01, CV-01C, SAG-F1, SAG, RC-01, CB SCRN ENG, WH Crush	This regulation establishes state authority to implement NSPS for stationary sources subject to 40 CFR 60 and incorporates them by reference, as amended through June 28, 2023. This regulation applies as the following NSPS Subparts apply [as detailed in the Applicable Federal Requirements below]: - Subpart Dc – Unit F-2-1-1.5 - Subpart GG – Unit F-2-1-1.4 - Subpart LL – Units PC-01, PC DUMP, CTS-01, CV-01C, SAG-F1, SAG, and RC-01 - Subpart OOO – Unit WH Crush - Subpart IIII –12 diesel emergency generators - Subpart JJJJ – 1 natural gas emergency generator and 6 LPG emergency generators
20.2.78 NMAC	Emission Standards for HAPS	Yes	Facility	This regulation establishes state authority to implement national emission standards for hazardous air pollutants (NESHAP) subject to 40 CFR 61, as amended through December 31, 2010. This facility is subject to 40 CFR 61, Subpart M for asbestos demolition and renovation activities that meet the applicability criteria of 40 CFR 61.145. Therefore, this regulation applies.
20.2.79 NMAC	Permits – Nonattainment Areas	No	N/A	Because the facility is not located in a nonattainment area and would not cause or contribute to a violation of any national ambient air quality standard, it is not subject to this regulation pursuant to 20.2.79.109.A.
20.2.80 NMAC	Stack Heights	No	N/A	This regulation establishes requirements for the evaluation of stack heights and other dispersion techniques. This regulation does not apply as all stacks at the facility follow good engineering practice.

State Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
20.2.82 NMAC	MACT Standards for Source Categories of HAPS	Yes	Diesel Emergency Generators, Natural Gas Emergency Generator, LPG Emergency Generators, CB SCRN ENG, GDF-1, GDF2=, GDF-3, GDF-4, GDF-5	This regulation established state authority to implement MACT Standards for source categories at 40 CFR 63 and incorporates them by reference as amended through June 28, 2023. This regulation applies as the following MACT Subparts apply [as detailed in the Applicable Federal Requirements below]: - Subpart ZZZZ – Diesel Emergency Generators, Natural Gas emergency Generator, LPG Emergency Generators, and CB SCRN ENG. - Subpart CCCCCC – Units GDF-1, GDF-2, GDF-3, GDF-4, and GDF-5

Table for Applicable Federal Regulations:

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
40 CFR 50	National Primary and Secondary Ambient Air Quality Standards	Yes	Facility	This regulation sets forth the national ambient air quality standards. The facility has demonstrated that it will not interfere with attainment or maintenance of the national ambient air quality standards under this regulation.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	Diesel Emergency Generators, Natural Gas Emergency Generator, LPG Emergency Generators, F-2-1-1.5, F-2-1-1.4, PC-01, PC DUMP, CTS-01, CV-01C, SAG-F1, SAG, RC-01, CB SCRN ENG, WH Crush	This regulation provides General Provisions for relevant standards that have been established as Subparts under 40 CFR Part 60 [40 CFR 60.1(a)]. This regulation applies as the following NSPS Subparts apply [as detailed below]: - Subpart Dc – Unit F-2-1-1.5 - Subpart GG – Unit F-2-1-1.4 - Subpart LL – Units PC-01, PC DUMP, CTS-01, CV-01C, SAG-F1, SAG, and RC-01 - Subpart OOO – Unit WH Crush. - Subpart IIII – 11 diesel emergency generators and 1 diesel engine - Subpart JJJJ – 1 natural gas emergency generator and 10 LPG emergency generators
NSPS 40 CFR 60, Subpart Da	Standards of Performance for **Electric Utility Steam Generating Units**	No	N/A	This regulation establishes standards of performance for electric utility steam generating units. This regulation does not apply because the facility does not include any electric utility steam-generating units as defined under 40 CFR 60.41Da.

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
NSPS 40 CFR 60, Subpart Db	Standards of Performance for **Industrial-Commercial-Institutional Steam Generating Units**	No	N/A	This regulation establishes standards of performance for industrial-commercial-institutional steam generating units. This regulation does not apply because the facility's steam generating units do not have heat input capacities that exceed the 100 MMBtu/hr applicability threshold in 40 CFR 60.40b(a).
40 CFR 60, Subpart Dc	Standards of Performance for **Small Industrial-Commercial-Institutional Steam Generating Units**	Yes	F-2-1-1.5	This regulation establishes standards of performance for small industrial-commercial-institutional steam generating units. This regulation applies to Unit F-2-1-1.5 because construction commenced in 2000 after June 9, 1989, and its heat input capacity (48.8 MMBtu/hr) exceeds the 10 MMBtu/hr applicability threshold in 40 CFR 60.40c(a). The SX/EW Boilers No. 1, 2, 3, 4, and 5 are below the 10 MMBtu/hr applicability threshold and therefore are not subject to this regulation. Because Unit F-2-1-1.5 only burns natural gas, only recordkeeping and notification requirements apply pursuant to 40 CFR 60.48c(g)(3).
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for **Storage Vessels for Petroleum Liquids** for which Construction, Reconstruction, or Modification Commenced **After** May 18, 1978, and **Prior** to July 23, 1984	No	N/A	This regulation establishes performance standards for storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after May 18, 1978, and prior to July 23, 1984. Because there are no petroleum liquid storage vessels located at the facility with capacity greater than 40,000 gallons that are used to store petroleum liquids as defined in 40 CFR 60.111a(b)(diesel fuel is not considered petroleum liquid under this definition), this regulation does not apply pursuant to 40 CFR 60.110a(a).
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for **Volatile Organic Liquid Storage Vessels** (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced **After** July 23, 1984	No	N/A	This regulation establishes performance standards for storage vessels with a capacity greater than or equal to 75 cubic meters (m^3) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification commenced after July 23, 1984. Because the facility does not have any organic liquid storage vessels with capacities greater than 75 m^3 for which construction, reconstruction, or modification commenced after July 23, 1984, and on or before October 4, 2023, this regulation does not apply pursuant to 40 CFR 60.110b(a).
NSPS 40 CFR 60, Subpart GG	Standards of Performance for **Stationary Gas Turbines**	Yes	F-2-1-1.4	This regulation establishes standards of performance for stationary gas turbines with a heat input at a peak load equal to or greater than 10 MMBtu/hr based on the lower heating value of the fuel fired and have commenced construction, modification, or reconstruction after October 3, 1977 [40 CFR 60.330(a)]. Unit F-2-1-1.4 is a stationary gas turbine as defined under 40 CFR 60.331 that has a heat input of 455 MMBtu/hr at peak load, and it commenced construction on January 1, 2000, after October 3, 1977. Accordingly, this regulation applies to Unit F-2-1-1.4. Unit F-2-1-1.4 is subject to the emission standards in 40 CFR 60.332(a)(2) and 60.333(a) through (c).

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
NSPS 40 CFR 60, Subpart LL	Standards of Performance for **Metallic Mineral Processing Plants**	Yes	PC-01, PC DUMP, CTS-01, CV-01C, SAG-F1, SAG, RC-01	The provisions of this regulation are applicable to the following affected facilities in metallic mineral processing plants that commence construction or modification after August 24, 1982: each crusher and screen in open-pit mines; each crusher, screen, bucket elevator, conveyor belt transfer point, thermal dryer, product packaging station, storage bin, enclosed storage area, truck loading station, truck unloading station, railcar loading station, and railcar unloading station at the mill or concentrator [40 CFR 60.380]. This facility includes the following listed equipment at the Ivanhoe Copper Concentrating Circuit that commenced construction after August 24, 1982: - PC-01 (crusher) - PC DUMP (truck unloading station) - CTS-01 (conveyor belt transfer point) - CV-01C (conveyor belt transfer point) - SAG-F1 (conveyor belt transfer point) - SAG (conveyor belt transfer point) - RC-01 (crusher) Because Unit SCDP (stacker conveyor) transfers to a stockpile, it is not considered a conveyor belt transfer point as defined under 40 CFR 60.281 and therefore this regulation does not apply pursuant to 40 CFR 60.380(a). Because Units CV-01A and CV-01B are conveyor belts and not conveyor belt transfer points as defined under 40 CFR 60.381, this regulation does not apply pursuant to 40 CFR 60.380(a). Units PC-01, PC DUMP, CTS-01, CV-01C, SAG-F1, SAG, RC-01 are subject to the emission standards in 40 CFR 60.382(a) and (b) as applicable.
NSPS 40 CFR 60, Subpart OOO	Standards of Performance for **Nonmetallic Mineral Processing Plants**	Yes	WH Crush	This regulation establishes standards for 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 is an applicable unit. Because Unit WH Crush processes nonmetallic minerals (as defined under 40 CFR 60.671) through a crusher at greater than 150 tph, this regulation applies. Unit WH Crush is subject to the emission standards for particulate matter at under 40 CFR 60.672(a), (b) (e), and (f), Table 2, and Table 3.
NSPS 40 CFR 60 Subpart IIII	Standards of Performance for **Stationary Compression Ignition Internal Combustion Engines**	Yes	Diesel Emergency Generators, CB SCRN ENG	This regulation establishes standards of performance for stationary compression ignition internal combustion engines. Because the 11 diesel emergency engines commenced construction after July 11, 2005, and were manufactured after April 1, 2006 (and are not fire pump engines), they are subject to this regulation pursuant to 40 CFR 60.4200(a)(2)(i). However, because they are standby generators that operate only during the unavoidable loss of commercial power and for less than 500 hr/yr, they need only be reported in construction permit application forms and their emissions are not included in the facility-wide potential emission rate pursuant to 20.2.72.202.B(3) NMAC. Because Unit CB SCRN ENG is a compression ignition internal combustion engine that commenced construction after July 11, 2005, and was manufactured after April 1, 2006 (and is not a fire pump engine), this regulation applies pursuant to 40 CFR 60.4200(a)(2)(i). Because Unit CB SCRN

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
				ENG is a model year 2012 **non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder**, it is subject to emission standards under 40 CFR 60.4204(b) and Table 1 for maximum engine power 130≤KW<225 (175≤HP<300).
NSPS 40 CFR 60 Subpart JJJJ	Standards of Performance for **Stationary Spark Ignition Internal Combustion Engines**	Yes	Natural Gas Emergency Generator, LPG Emergency Generators	This regulation establishes standards of performance for stationary spark ignition internal combustion engines. Because the natural gas and LPG emergency engines at this facility have a maximum engine power less than 500 hp and were constructed after July 1, 2008, this regulation applies pursuant to 40 CFR 60.4230(a)(4)(iii). However, because the LPG and natural gas generators only operate during the unavoidable loss of commercial power and for less than 500 hr/yr, they need only be reported in construction permit application forms and their emissions are not included in the facility-wide potential emission rate pursuant to 20.2.72.202.B(3) NMAC.
NSPS 40 CFR 60, Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for **Electric Generating Units**	No	N/A	This regulation establishes emission standards and compliance schedules for the control of greenhouse gas (GHG) emissions from a steam generating unit, IGCC, or a stationary combustion turbine that commences construction after January 8, 2014, or commences modification or reconstruction after June 18, 2014 [40 CFR 60.5508]. Because the turbine (Unit F-2-1-1.4) and heat recovery steam generator (Unit F-2-1-1.5) located at the facility were constructed prior to January 8, 2014, this regulation does not apply.
NSPS 40 CFR 60, Subpart UUUUb	Emissions Guidelines for Greenhouse Gas Emissions for **Electric Utility Generating Units**	No	N/A	This regulation establishes emissions guidelines for greenhouse gas emissions and compliance times for electric generating units. Because there are no affected steam generating units at the facility (as there are no coal-fired steam generating units at this facility), this regulation does not apply.
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of Performance for **Municipal Solid Waste (MSW) Landfills**	No	N/A	This regulation establishes performance standards for municipal solid waste landfills that commenced construction, reconstruction, or modification after July 17, 2024. Because the facility does not have a municipal solid waste landfill as defined under 40 CFR 60.761, this regulation does not apply.
NESHAP 40 CFR 61, Subpart A	General Provisions	Yes	Facility	This regulation contains General Provisions applicable to all NESHAP Subparts under 40 CFR 61. Because the facility is subject to NESHAP Subpart M for asbestos demolition and renovation activities, the General Provisions in this regulation apply pursuant to 40 CFR 61.01(c).
NESHAP 40 CFR 61, Subpart E	National Emission Standards for **Mercury**	No	N/A	This regulation establishes a national emission standard for mercury. Because the facility does not have stationary sources that process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, or incinerate or dry wastewater treatment plant sludge, this regulation does not apply pursuant to 40 CFR 61.50.
NESHAP 40 CFR 61, Subpart M	National Emission Standard for **Asbestos**	Yes	Facility	This regulation establishes a national emission standard for asbestos. If the facility performs a "demolition" and/or "renovation" activity (as those terms are defined under 40 CFR 61.141), the standards for demolition and renovation at 40 CFR 61.145 would apply.
NESHAP 40 CFR 61, Subpart V	National Emission Standards for **Equipment Leaks** (Fugitive Emission Sources)	No	N/A	This regulation establishes national emission standards for equipment leaks (fugitive emission sources). Because the facility does not have any sources that operate in volatile hazardous air pollutant (VHAP) service as defined under 40 CFR 61.241, this regulation does not apply pursuant to 40 CFR 61.240(a).
MACT 40 CFR 63, Subpart A	General Provisions	Yes	Diesel Emergency Generators, Natural Gas emergency Generator,	This regulation sets forth General Provisions for relevant standards that have been established as Subparts under 40 CFR Part 63. Pursuant to 40 63.1(b)(1), this regulation applies as the following MACT Subparts apply [as detailed below]: - Subpart ZZZZ – Diesel Emergency Generators, Natural Gas emergency Generator, LPG Emergency Generators, CB SCRN ENG, - Subpart CCCCCC – Units GDF-1, GDF-2, GDF-3, GDF-4, and GDF-5

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
			LPG Emergency Generators, CB SCRN ENG, GDF-1, GDF-2, GDF-3, GDF-4, GDF-5	
MACT 40 CFR 63, Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for **Major Industrial, Commercial, and Institutional Boilers & Process Heaters**	No	N/A	This regulation establishes national emission limitations and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP. Because the facility is not a major source of HAPs as defined under 40 CFR 63.2, this regulation does not apply pursuant to 40 CFR 63.7485.
MACT 40 CFR 63, Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants: **Coal & Oil Fire Electric Utility Steam Generating Units**	No	N/A	This regulation establishes national emission limitations and work practice standards for hazardous air pollutants (HAPs) emitted from coal- and oil-fired electric utility steam generating units (EGUs) as defined in 40 CFR 63.10042. Because the turbine and heat recovery steam generator located at the facility are fueled by natural gas, this regulation does not apply pursuant to 40 CFR 63.9981.
MACT 40 CFR 63, Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for **Stationary Reciprocating Internal Combustion Engines** (**RICE MACT**)	Yes	12-Diesel Generators, 1-Natural Gas emergency Generator, 6-LPG Emergency Generators, CB SCRN ENG	This regulation establishes national emissions standards for HAPs for stationary Spark Ignition Reciprocating Internal Combustion Engines (SI RICE) at a major or area source of HAPs. Because the 12 diesel emergency generators, the natural gas emergency generator, the 6 LPG emergency generators, and Unit SCRN ENG are SI RICE as defined under 40 CFR 63.6675, this regulation applies pursuant to 40 CFR 63.6585. Because the facility is an area source and the emergency engines and Unit CB SCRN ENG commenced construction after June 12, 2006, the units are considered new stationary RICE pursuant to 40 CFR 63.6590(a)(2)(iii) and must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII for compression ignition engines or 40 CFR 60, Subpart JJJJ for spark-ignition engines, as applicable, pursuant to 40 CFR 63.6590(c)(1).
MACT 40 CFR 63, Subpart CCCCCC	National Emission Standards for Hazardous Air Pollutants for Source Category: **Gasoline Dispensing Facilities**	Yes	GDF-1, GDF-2, GDF-3, GDF-4, GDF-5	This regulation establishes national emission limitations and management practices for hazardous air pollutants (HAPs) emitted from the loading of gasoline storage tanks at gasoline dispensing facilities (GDFs). This regulation applies to each GDF that is located at an area source [40 CFR 63.11111(a)]. Because Units GDF-1, GDF-2, GDF-3, GDF-4, and GDF-5 are GDFs as defined under 40 CFR 63.11132 that are located at an area source, this regulation applies pursuant to 40 CFR 63.11111(a). Because Units GDF-1 and GDF-2 have a monthly throughput of greater than 10,000 gallons of gasoline, they are subject to the requirements in 40 CFR 63.11117 pursuant to 40 CFR 63.11111(c). Because Units GDF3, GDF-4, through GDF-5 have a monthly throughput less than 10,000 gallons per month, the are subject to the requirements in 40 CFR 63.11116 pursuant to 40 CFR 63.11111(b).

Federal Regulation Citation	Title	Applies? Enter Yes or No	Unit(s) or Facility	Justification:
MACT 40 CFR 63, Subpart JJJJJJ	National Emission Standards for Hazardous Air Pollutants for **Industrial, Commercial, and Institutional Boilers Area Sources**	No	N/A	This regulation establishes national emission limitations and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters located at area sources of HAP emissions. Although the facility is an area source of HAP emissions as defined under 40 CFR 63.2, this regulation does not apply pursuant to 40 CFR 63.11195(e) because all boilers are gas (propane) fired.
40 CFR 64	**Compliance Assurance Monitoring**	No	N/A	This regulation establishes certain compliance assurance monitoring requirements at major sources subject to Title V permitting. Because the facility does not use a control device to meet an emission standard or limitation for pollutant-specific emissions units with potential pre-control device emissions greater than 100 tons per year of a regulated pollutant, this regulation does not apply pursuant to 40 CFR 64.2.
40 CFR 68	**Chemical Accident Prevention**	No	N/A	This regulation sets forth requirements for owners or operators of stationary sources concerning the prevention of accidental releases, Because the facility does not have more than a threshold quantity of a regulated substance in a process, this regulation does not apply pursuant to 40 CFR 68.10(a).
Title IV – Acid Rain 40 CFR 72	**Acid Rain**	No	N/A	This regulation establishes certain general provisions and operating permit program requirements for affected sources and affected units under the Acid Rain Program. Because the facility does not have any affected sources or affected units as defined under 40 CFR 72.2, this regulation does not apply pursuant to 40 CFR 72.6.
Title IV – Acid Rain 40 CFR 73	**Sulfur Dioxide Allowance Emissions**	No	N/A	This regulation establishes sulfur dioxide allowance emissions for certain types of facilities. Because the facility does not have any affected sources or affected units, is not an independent power producer, or includes a small diesel refinery (as those terms are defined under 40 CFR 72.2),this regulation does not apply pursuant to 40 CFR 73.2.
Title IV-Acid Rain 40 CFR 75	**Continuous Emissions Monitoring**	No	N/A	This regulation establishes requirements for the monitoring, recordkeeping, and reporting of sulfur dioxide (SO_2), nitrogen oxides (NO_X), and carbon dioxide (CO_2) emissions, volumetric flow, and opacity data from affected units under the Acid Rain Program. Because the facility does not have an affected unit subject to Acid Rain emission limitations or reduction requirements for SO_2 or NO_X, this regulation does not apply pursuant to 40 CFR 75.2(a).L
Title IV – Acid Rain 40 CFR 76	**Acid Rain Nitrogen Oxides Emission Reduction Program**	No	N/A	This regulation establishes an acid rain nitrogen oxides emission reduction program. This regulation applies to each coal-fired utility unit that is subject to an acid rain emissions limitation or reduction requirement for SO [40 CFR 76.1]. Because the facility does not operate any coal-fired units as defined under 40 CFR 76.2, this regulation does not apply.
Title VI – 40 CFR 82	**Protection of Stratospheric Ozone**	Yes	Facility	This regulation establishes a regulation for protection of the stratospheric ozone. Because the facility services, maintains, and/or repairs appliances containing class I, class II, or non-exempt substitute refrigerants, and disposes of such appliances, this regulation applies pursuant to 40 CFR 82.150(b).

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.

N/A – All SSM emissions at this facility do not require an increase in requested allowable emission limits greater than those listed in Table 2-E. Equipment located at this facility is equipped with various safety devices and features that aid in the prevention of excess emissions in the event of an operational emergency. If an operational emergency does occur and excess emissions occur Freeport will submit the required Excess Emissions Report per 20.2.7 NMAC. Corrective action to eliminate excess emissions and prevent recurrence in the future will be undertaken as quickly as safety allows.

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.

Four different mining scenarios at the Cobre portion of the mine were modeled to ensure that the most conservative impacts were represented within the model. The four mining scenarios have been previously reviewed and approved by NMED. The scenarios will be modified to allow only one giant blast at each of the three Cobre/Chino locations (Hanover, Continental, and Santa Rita) at any given time. Blasting is limited to daylight hours between 0900 hrs and 1500 hrs. This Table details the Cobre Mining Scenarios with volume associated source elevations.

Cobre Mining Scenarios

Scenario with Description
Scenario 1 (S1) – Mining Hanover Base
Scenario 2 (S2) – Mining Hanover Pit
Scenario 3 (S3) – Transition to Mining Continental Pit
Scenario 4 (S4) – Mining Continental Pit

Blasting at Hanover Mountain/Pit (Blast 1 - B1), Continental Pit (Blast 2 - B1), and Santa Rita Pit (Blast 2/3 – B2/B3) will never occur within the same hour; and continue to operate at different times as permitted in NSR permit 0298-M11-R10. The table below represents the mining and blasting scenarios that have been requested to NMED.

Cobre and Chino Mining and Blasting Scenarios

Scenario Number	Blasting Location
S1-B1	Hanover Mountain - Base

Scenario Number	Blasting Location
S1-B2	Santa Rita Pit
S2-B1	Hanover Pit
S2-B2	Santa Rita Pit
S3-B1	Hanover Pit
S3-B2	Continental Pit
S3-B3	Santa Rita Pit
S4-B1	Continental Pit
S4-B2	Santa Rita Pit

Emissions from haul roads will operate per the table below.

Operating Scenarios (Chino-Cobre Haul Roads)

Chino and Cobre Haul Roads	Operating Scenario 1	Operating Scenario 2
Haul Road	Maximum Throughput (tons/day)	Maximum Throughput (tons/day)
Maintenance Entrance Road	100,000	
Cobre Haul Road	86,000	66,000
SWRDF Road	40,000	75,000
Hanover Mountain Road	126,000	
Muffler Road	100,000	
South Stockpile Road	100,000	
3A/9 Dam Road	100,000	
West Stockpile Road - South	100,000	
West Stockpile Road - North	100,000	
Café to Lampbright Road	175,000	
Upper Lampbright Road	160,000	
Lower Lampbright	160,000	
Crusher/Stockpiles Road	100,000	
Roundabout	100,000	
Princess Ramp/Lee Hill Road	100,000	
Kessel Stockpile Road	160,000	
North Lampbright	160,000	

A borrow pit has been constructed near the Cobre Haul Road. Four one-time blasts will be conducted to construct the pit, they are set to occur during daylight hours from 0900 hrs to 1500 hrs and will never occur simultaneously as blasting at either Hanover Mountain/Pit, Continental Pit, or the Santa Rita Pit. Furthermore, these blasts and associated material handling do not interfere with any other operations at the facility.

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.

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:	Chino Mine
2	Name of company:	Freeport-McMoRan Chino Mines Company
3	Current Permit number:	NSR Permit No. 0298-M11-R10
4	Name of applicant's modeler:	Adam Erenstein; Daniel Dolce
5	Phone number of modeler:	(505) 266-6611
6	E-mail of modeler:	AErenstein@trinityconsultants.com; Daniel.Dolce@trinityconsultants.com

16-B: Brief

1	Was a modeling protocol submitted and approved? A protocol was submitted on January 9, 2026. No response was received from the NMED. See Protocol and submittal email attached.	Yes☐	No☒
2	Why is the modeling being done?	Other (describe below)	
3	Describe the permit changes relevant to the modeling.		
	Freeport is submitting a significant permit revision application pursuant to 20.2.72.219.D.(1)(a) NMAC to authorize the construction, modification, and removal of various emission units and activities at the Chino Mine. As part of this application, Freeport is also seeking to incorporate certain existing units and activities that have not been expressly included in prior versions of NSR Permit No. 0298-M11-R10. Requested changes relevant to air dispersion modeling include the following:		

	Construction of New Units: • Evaporator (Unit EVAP3); and • Evaporator (Unit EVAP4) Removal of Existing Units: • Molybdenum plant (Unit IC-01); • Screening plant at Chino Mine (Unit CH SCRN); • Screening plant engine at Chino Mine (Unit CH SCRN ENG); Modification of Existing Units: • Increase the amount of blasting agent/day to 200,000 lbs/day at Cobre Mine Hanover (Unit CBM BLST); • Increase the amount of blasting agent/day to 380,000 lbs/day and the horizontal area per blast to 130,000 ft^2 at Chino Mine Santa Rita (Unit CM BLST); • Cobre Haul Roads (Unit CBM HR); and ○ Removal of Haul Road #18 (NOBS) and Haul Road #19 (Magnetite) • Chino Haul Roads (Unit CM HR) ○ Removal of Haul Road #12 (LBX), ○ Removal of Haul Road #10 (Yellow Brick), ○ Addition of Haul Roads #21 (Kessel) and #22 (North Lampbright), and ○ Modification of the layouts of Haul Road #5N (Hanover Mountain), Haul Road #13 (Upper Lampbright), Haul Road #14 (Lowe Lampbright), and Haul Road #17 (Princess Ramp) Incorporation of Existing Units (New to the Permit): • Cobre Mine drilling (Unit CBM DRILL); • Chino Mine drilling (Unit CM DRILL); • Recycle crushing process (Unit RC-01); • Bulldozing (Unit BDZR and BDZR TLNGS); • Grading (Unit GRDR and GRDR TLNGS); and • Intermediate ore stockpile (Unit IOS) In addition, this application provides updated emission unit information in the application tables as well as updated emission calculations to accurately represent current operations and best available information. Updates include the following: • For Filter/Blending Plant (Unit FLTR/BLND), ○ Updated to allow for transfers from both rail car and semi-truck ○ Updated conveyor throughout to 90 tons/hr • For Cobre Mine Hanover/Continental blasting (Unit CBM BLST), updated emission calculations to reflect current operation of 1 blast per day. • For Cobre Mine Material Handling (Unit CBM MH), updated to include unloading to Humbolt stockpile and loading at Continental pit • For Cobre Haul Roads (Unit CBM HR), updated to include both light passenger vehicles and industrial haul trucks in the average truck weights for all haul roads • For Chino Haul Roads (Unit CM HR), updated mean vehicle weight in the emission calculations for all haul roads to include all vehicles that travel on the haul road, in addition to the industrial haul trucks • For Cobre Screening Plant (CB SCRN), updated emission factor to use uncontrolled emission factor.
4	What geodetic datum was used in the modeling?	WGS84

5	How long will the facility be at this location?	More than 1 year.	
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	012	

8	List the PSD baseline dates for this region (minor or major, as appropriate).	
	NO2	8/10/1995
	SO2	8/10/1995
	PM10	8/10/1995
	PM2.5	Not Established

9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).
	Gila Wilderness - 16.7 km north of the facility.

10	Is the facility located in a non-attainment area? If so describe below	Yes☐	No☒
	N/A		

11	Describe any special modeling requirements, such as streamline permit requirements.
	N/A

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	NSR 0298-M7	05/05/2015	
	NO_2	NSR 0298-M11	11/02/2022	
	SO_2	NSR 0298-M7	05/05/2015	
	H_2S	N/A	N/A	
	PM2.5	NSR 0298-M10	04/21/2020	
	PM10	NSR 0298-M11	11/02/2022	
	Lead	N/A	N/A	
	Ozone (PSD only)	N/A	N/A	
	NM Toxic Air Pollutants (20.2.72.402 NMAC)	NSR 0298-M10	04/21/2020	

16-D: Modeling performed for this application

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

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

16-E: New Mexico toxic air pollutants modeling

1 List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application.
Copper (Cu), Sulfuric Acid (H2SO4)

2 List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.

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

16-F: Modeling options

1	Was the latest version of AERMOD used with regulatory default options? If not explain below.	Yes☒	No☐
	N/A		

16-G: Surrounding source modeling

1	Date of surrounding source retrieval	January 20, 2026

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
41150E1	**Facility Name:** Line 3051 Pig Receiver Site **Company Name:** Kinder Morgan Inc **Original Source UTM:** 1203930.285, 3653823.052 **Updated Source UTM:** 770718.06, 3590159.86

		Change & Reason: Original source UTM indicate source location as 425 km from Chino. Source location was updated to facility coordinates listed in the NMED APMAP.
	26719@1	**Facility Name:** Freeport-Mc-MoRan - Chino Mine Road Base Screening Plant GCP2-3629 **Company Name:** Freeport-McMoRan Corporation **Permit Closure Date:** January 20, 2012 **Change & Reason:** Source was removed from surrounding sources since source has a listed closure date on the AQB NSR Issued Report.
	870E1	**Facility Name:** Southwest Conc and Paving - 400TPH Crusher No1590 **Company Name:** Southwest Concrete And Paving Inc **Change & Reason:** Facility emissions are listed as 0 tpy for all pollutants on NMED APMAP and the AQB Facilities Lat/Long Report. No visual facility based on January 2025 Google Earth Imagery. No active record of the site could be found on the AQB NSR Issued Report. Therefore, the source was removed.
	537E1, 537R3, 537R4	**Facility Name:** 75TPH Crusher No2239 **Company Name:** Southwest Processing **Change & Reason:** No active record of the site could be found on the AQB NSR Issued Report. No visual facility based on January 2025 Google Earth Imagery. Last permit action in the NMED APMAP is from 2000. Therefore, these sources were removed.
	528A1	**Facility Name:** Limestone Crusher (GF) **Company Name:** Mathis & Mathis **Change & Reason:** No active record of the site could be found on the AQB NSR Issued Report. No visual facility based on January 2025 Google Earth Imagery. No record of site in the NMED APMAP. The AQB Facilities Lat/Long Report lists 0 tpy for all pollutants. Therefore, this source was removed.
	26007@1	Sources are either GCP-2, GCP-3, or GCP-5 permits. Emission rates were updated per footnote of Table 40 from the NMED Modeling Guidelines.
	30136@1	
	26947A1	
	28727@1	
	3569@1	
	27610@1	

16-H: Building and structure downwash

1	How many buildings are present at the facility?	48 buildings - 14 rectangular buildings and 34 Polygon buildings		
2	How many above ground storage tanks are present at the facility?	1 circular building storage tank		
3	Was building downwash modeled for all buildings and tanks? If not explain why below.		Yes☒	No☐
	N/A			
4	Building comments	Buildings were not included in the model if the building was located more than the Good Engineering Practices (GEP) 5L area of influence from a stack.		

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.		
	The restricted area is defined by fencing, gates, and signs.		
2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?	Yes☒	No☐
3	Are restricted area boundary coordinates included in the modeling files?	Yes☒	No☐

4 Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.

Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comments
Fine	Shape of Facility Boundary	100 m	Fenceline	500 m	Used where the facility operation boundary is in areas of greater potential for higher impacts. This 100-meter spacing was used in accordance with guidance for boundaries of expansive sources in Section 4.6.3 of the Modeling Guidelines.
Medium	Square	500 m	Facility Center	17 km	Excludes the area for Fine grids
Medium-Coarse	Square	1,000 m	Facility Center	24 km	Excludes the areas for Fine and Medium grids
Coarse	Square	5,000 m	Facility Center	50 km	Excludes the areas for Fine, Medium, and Medium-Course grids

5	Describe receptor spacing along the fence line. Boundary receptor spacing is 100 meter as described in Section 4.6.3 of the Modeling Guidelines.
6	Describe the PSD Class I area receptors. PSD Class I area receptors were pulled from the most recent version of MergeMaster for the Gila Wilderness.

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☒
	N/A		
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

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).

1

Chino Mine is currently permitted for two control scenarios as represented in NSR permit 0298-M11. Control Scenario 1 was not affected by this permit action and was therefore not modeled.

Control Scenario 2 has four different mining scenarios at the Cobre portion of the mine to ensure that the most conservative impacts are modeled. The four mining scenarios are based on the seven mining scenarios approved in NSR permitting action 0298-M8 issued July 12, 2016. Chino has fully completed mining Scenario 1 through Scenario 4. Therefore, Scenarios 5 through 7 have been modeled in this permitting action. Scenario 5 has also been broken out into two scenarios, mining Hanover Base and Hanover Pit. Therefore, these scenarios will be referenced as Scenarios 1 through 4 in this permit action and as defined in the table below.

Cobre Mining Scenarios

Original Scenario	Permit Action Scenario with Description
Scenario 5	Scenario 1 (S1) – Mining Hanover Base
	Scenario 2 (S2) – Mining Hanover Pit
Scenario 6	Scenario 3 (S3) – Transition from Hanover Pit to Continental Pit
Scenario 7	Scenario 4 (S4) – Mining Continental Pit

Blasting at Hanover Mountain (Blast 1 - B1), Continental Pit (Blast 1 and Blast 2 – B1 and B2) and Santa Rita Pit (Blast 2 and Blast 3 – B2 and B3) will never occur at the same time; therefore, separate blasting scenarios have been modeled for both locations. The table below represents the mining and blasting scenarios that were modeled.

Mining and Blasting Scenarios

Scenario Number	Blasting Location
S1-B1	Hanover Base (Cobre)
S1-B2	Santa Rita Pit (Chino)
S2-B1	Hanover Pit (Cobre)
S2-B2	Santa Rita Pit (Chino)
S3-B1	Hanover Pit (Cobre)
S3-B2	Continental Pit (Cobre)
S3-B3	Santa Rita Pit (Chino)
S4-B1	Continental Pit (Cobre)
S4-B2	Santa Rita Pit (Chino)

In addition, this permit action will result in an increase in the emissions associated with the haul roads in Control Scenario 2, (See table below).

Operating Scenario

Chino and Cobre Haul Roads	Road Number	Operating Scenario 2
Haul Road		Maximum Throughput (tons/day)
Maintenance Entrance Road	2	100,000
Cobre Haul Road	3	66,000
SWRDF Road	4	75,000
Hanover Mountain Road	5N	126,000
Muffler Road	5S	100,000
South Stockpile Road	6	100,000
3A/9 Dam Road	7	100,000
West Stockpile Road (South Segments)	8	100,000
West Stockpile Road (North Segments)	9	100,000
Café to Lampbright Road	11	175,000
Upper Lampbright Road	13	160,000
Lower Lampbright	14	160,000
Crusher/Stockpiles Road	15	100,000
Roundabout	16	100,000
Princess Ramp	17	100,000
Kessel Stockpile Road	21	160,000
North Lampbright	22	160,000

Which scenario produces the highest concentrations? Why?

2

The following scenarios produced the highest concentrations for their respective pollutants and averaging periods:

- CO (8-hour) – S1B1
- CO (1-hour) – S3B2
- NO2 (Annual) – S1B1
- NO2 (1-hour) – S3B2
- PM2.5 (Annual & 24-hour) – S3B3
- PM10 (Annual) – S3B3
- PM10 (24-hour) – S3B2
- SO2 (Annual, 24-hour, and 3-hour) – S1B1
- SO2 (1-hour) – S3B2

The following scenarios produced the highest concentration for the Class I SIL models:

- NO2 Class I (Annual) – S1B2, S2B2, S3B3, and S4B2 (identical impacts)
- PM10 (Annual & 24-hour) – S3B1
- SO2 (Annual) – S1B2, S2B2, S3B3, S4B2 (identical impacts)
- SO2 (24-hour & 3-hour) – S2B1, S3B1 (identical impacts)

S3B2 produced the highest concentrations for the 1-hour averaging periods for CO, NO2, and SO2 as well as the 24-hour averaging period for PM10. S3B2 is from blasting at the Continental Pit during the transition period from Hanover to Continental. The Continental pit is also more south than Hanover and is therefore closer to other sources of CO, NO2, SO2 and PM10 emissions.

S1B1 produced the highest concentrations for the longer averaging periods (Annual, 24-hour, 8-hour, and 3-hour, as applicable) for CO, NO2, and SO2. S1B1 is from blasting at Hanover Mountain Base which is the only scenario where Hanover is not modeled as a pit source.

S3B3 produced the highest concentrations for PM2.5 for both the Annual and 24-hour averaging periods, for the annual averaging period for PM10. S3B3 is considered the most conservative modeling scenario as it incorporates blasting at the Santa Rita Pit (the largest of the three blasting locations) as well as material handling at both Hanover Pit, Continental Pit, and the Santa Rita Pit.

For the Class I area, the highest concentrations for NO2 and SO2 annual averaging periods were the same across multiple scenarios, but were consistent with blasting from the Santa Rita Pit. Chino blasting at the Santa Rita Pit has significantly higher emission rates than Cobre blasting at Hanover or Continental.

For the Class I area, the highest concentrations for PM10 24-hour and SO2 24-hour and 3-hour averaging periods did vary between scenarios, but were consistent with blasting from Hanover mountain. Hanover is the closest to the Class I area and given the short range of PM10 and the minimal SO2 emission rates, it is logical that the closest blast would produce the highest results.

3	Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)	Yes☒	No☐

4 If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.)
Sources:

5

Scenario 1 through Scenario 4 Blasting Sources (Model ID: BLSTHAN, BLSTSRTA, BLSTCONT, and BLSTHAN2)				Daytime Operations (Model ID: CBM_MH, TLNGS, WHSCN)				Borrow Pit Material Handling and Blasting (Model ID: MH_BORR, BLSTBORR)			
Hour of Day	Factor	Hour of Day	Factor	Hour of Day	Factor	Hour of Day	Factor	Hour of Day	Factor	Hour of Day	Factor
1	0	13	1	1	0	13	1	1	0	13	1
2	0	14	1	2	0	14	1	2	0	14	1
3	0	15	1	3	0	15	1	3	0	15	1
4	0	16	0	4	0	16	1	4	0	16	1
5	0	17	0	5	0	17	1	5	0	17	1
6	0	18	0	6	0	18	1	6	1	18	1
7	0	19	0	7	0	19	1	7	1	19	0
8	0	20	0	8	1	20	0	8	1	20	0
9	0	21	0	9	1	21	0	9	1	21	0
10	1	22	0	10	1	22	0	10	1	22	0
11	1	23	0	11	1	23	0	11	1	23	0
12	1	24	0	12	1	24	0	12	1	24	0

If hourly, variable emission rates were used that were not described above, describe them below.

N/A

6	Were different emission rates used for short-term and annual modeling? If so describe below.	Yes☐	No☒

N/A

16-L: NO_2 Modeling

1	Which types of NO_2 modeling were used? Check all that apply.	
	☒	ARM2
	☐	100% NO_X to NO_2 conversion
	☐	PVMRM
	☐	OLM
	☐	Other:
2	Describe the NO_2 modeling.	
	ARM2 was used to convert from NO_X to NO2 with default NO_2/NO_X ratios. Because ARM2 applies a variable, empirically derived NO_2/NO_X ratio based on the total modeled NO_X concentration at each receptor, duplicating sources would artificially change the total NO_X field and distorts the ARM2 conversion. Therefore, blasting scenario was modeled separately.	
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☐
	N/A	
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
	☒	PM10
	☐	None
2	Describe the particle size distributions used. Include the source of information.	
	The particle size information was obtained from Table 28 of the NMED modeling guidelines	
3	Does the facility emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2? Sources that emit at least 40 tons per year of NO_X or at least 40 tons per year of SO_2 are considered to emit significant amounts of precursors and must account for secondary formation of PM2.5.	Yes☒ / No☐
4	Was secondary PM modeled for PM2.5?	Yes☐ / No☒
5	If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.	

NO_X (ton/yr)	SO_2 (ton/yr)	$[PM2.5]_{annual}$	$[PM2.5]_{24\text{-hour}}$
260.49	3.04	0.007729	0.000411

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.
	N/A – No setback distance used.
2	Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.
	N/A – No setback distance used.

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
CB TLNGS	This source is a stockpile which does not require modeling.
CM TLNGS	This source is a stockpile which does not require modeling.
CBM HR	RD3_001 through RD5N_0015
CM HR	RD2_001 through RD2_020; RD5S_001 through RD22_041; SRITAPIT
BORR MH	MH_BORR
CBM MH	CBM_MH; UNL_SWDF; HANOVER1; HAN_PIT; CONT_PIT
CM MH	UNL_3A; UNL_C9; UNL_K; UNL_NL; UNL_L; UNL_S; UNL_W; UNL_CR; SRITAPIT
BDZR	BDZ_SWDF; BDZ_IOS; BDZ_S; BDZ_NLMP; BDZ_LMP; BDZ_BUTT; BDZ_KESS; SRITAPIT; HANOVER1; HAN_PIT; CONT_PIT
GRDR	GR2_001 through GR22_041; SRITAPIT
BDZR TLNGS	TLNGS
GRDR TLNGS	TLNGS
BORR BLST	BLSTBORR
CBM BLST	BLSTHAN / BLSTCONT / BLSTHAN2
CM BLST	BLSTSRTA
CBM DRILL	BLSTHAN / BLSTCONT / BLSTHAN2
CM DRILL	SRITAPIT
F-2-1-1.4	F_2_1_14
F-2-1-1.5	F_2_1_15
FLTR/BLND	FLTRBLND
GDF1	Not sources of criteria or modeled TAP pollutants.
GDF2	Not sources of criteria or modeled TAP pollutants.
GDF3	Not sources of criteria or modeled TAP pollutants.

	GDF4	Not sources of criteria or modeled TAP pollutants.	
	GDF5	Not sources of criteria or modeled TAP pollutants.	
	CV-01C	CV_01C	
	LHS-01 (IC-06)	LHS_01	
	LUS-01	LUS_01	
	PC DUMP	PC_DUMP	
	PC-01	PC_01	
	IOS	This source is a stockpile which does not require modeling.	
	SAG-F1	SAGF1_A; SAGF1_B	
	SCDP	SCDP	
	SAG	SAG1; SAG2	
	FLOAT	Not a source of criteria or modeled TAP pollutants.	
	RCB-01	RCB_01	
	CB SCRN	CBM_MH	
	CB SCRN ENG	CBM_MH	
	SXEW 8MST	Not a source of criteria or modeled TAP pollutants.	
	SXEW Boiler No. 1	BOILER1	
	SXEW Boiler No. 2	BOILER2	
	SXEW Boiler No. 3	BOILER3	
	SXEW RT	Not a source of criteria or modeled TAP pollutants.	
	SXEW SAT	SXEW_SAT	
	WH Crush	WHSCN	
	EVAP1	EVAP	
	EVAP2	EVAP	
	EVAP3	EVAP	
	EVAP4	EVAP	
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☐
	N/A		
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?		
	All units at this facility are conservatively modeled as increment consumers for all pollutants. For PM_{10}, changes made to material handling and hauling since August 1995 will consume increment.		
5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).	The baseline PM_{10} emissions used in this analysis are the same as those used in the modeling analysis submitted in 2016 as part of the application for NSR 0298-M8. To account for the difference in proposed operation compared to the operation in August 1995, the proposed operation was modeled at the full emission rate and the baseline sources were included with their negative emission rates. For all other pollutants, all sources at Chino were conservatively modeled as increment consumers.	

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☐
	N/A		

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)
	N/A	N/A	N/A	N/A

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☐
	Dimensions of volume sources were determined according to the truck sizes at the facility and guidance in Section 5.3.3 of the modeling guidelines. Grader volume sources were set equal to the haul truck volume sources. Dozing volume sources were determined based on the width and ground clearance of the smallest bulldozer.		
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		
	Fugitive volume source parameters were determined according to guidance in Section 5.3.2 of the modeling guidelines.		
3	Describe how the volume sources are related to unit numbers. Or say they are the same.		
	Mine Fugitives for Cobre and Chino Mine are represented by numerous volume sources as follows: • Chino and Cobre haul road emissions (Units CM HR and CBM HR, respectively) are represented by road sources with Road No. IDs followed by the volume source number (e.g. RD2_001). • Grader emissions (Unit GRDR are represented similarly (e.g. GD22_041). • Bulldozing emissions (Unit BDZR) are represented as individual volume sources in areas the dozers are expected to operate. • Unloading material handling emissions from Units CM MH and CBM MH are represented as individual volume sources where the unloading activities occur. • Cobre material handling (Unit CBM MH), the Cobre screen and screen engine (Units CB SCRN and CB SCRN ENG, respectively) are combined into a singular area source. (Model ID: CBM_MH) • Evaporators (Units EVAP1-4) were combined into a singular area source (Model ID: EVAP) • Emissions from bulldozing and grading at the tailings (BDZR TLNGS and GRDR TLNGS, respectively) were combined as a singular area source (Model ID: TLNGS). • The Borrow Pit volume sources (Model ID: MH_BORR and BLSTBORR) correspond to BORR MH and BORR BLST respectively. • The Scenario 1 Hanover Mountain blasting (Model ID: BLSTHAN) is comprised of CBM BLST and CBM DRILL. • The Scenario 1 Hanover Mountain material handling (Model ID: HANOVER1) is comprised of Cobre Mine loading emissions (from Unit ID CBM MH), and dozing emissions (from Unit ID BDZR).		
	Describe any open pits.		

4	Three open pits were modeled in this permitting action: Hanover Pit, Continental Pit, and Santa Rita Pit. Each pit was modeled with separate blasting and non-blasting sources.
5	Describe emission units included in each open pit.
	Each pit source (Santa Rita Pit, Continental Pit, and Hanover Pit) was modeled with two sources associated with it. One is for blasting emissions and the other is for non-blasting activities. Non-blasting activities at the Santa Rita Pit include drilling, bulldozing, grading, in-pit haul roads, and material handling from the Chino Mine area. The Continental and Hanover Pits include material handling from the Cobre Mine area as well as drilling, bulldozing, and grading.

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: El Paso Chamizal (481410044)		
	NO_2: Deming (350290003)		
	PM2.5: Santa Fe (350490020)		
	PM10: Santa Fe (350490020)		
	SO_2: N/A		
	Other: N/A		
	Comments:	On April 15, 2024, Freeport met with Sufi Mustafa and Eric Peters from the NMED AQB to discuss appropriate background monitors for Chino. The closest PM2.5 background monitor to Chino is the Las Cruces District Office of NMED (ID 6Q, 350130025). During this meeting, it was discussed that the Santa Fe monitor (ID 3SFA, 350490021) is a more representative background monitor than the Las Cruces monitor as the Santa Fe monitor has a similar terrain, elevation, lack of motor vehicle traffic, and population to Chino area. The NMED AQB then approved the use of the Santa Fe monitor for PM2.5 background concentration.	
2	Were background concentrations refined to monthly or hourly values? If so describe below.	Yes☐	No☒
	N/A		

16-S: Meteorological Data

1	Was NMED provided meteorological data used? If so select the station used.	Yes☒	No☐
2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		
	The 2009 Hurley meteorological data set obtained from the NMED will be used for this analysis. Preprocessing of this data was performed by Ryan Environmental LLC. This data set is from the meteorological station located adjacent to the southern portion of the facility in the town of Hurley. This meteorological station is located in terrain with similar surface roughness, albedo, and bowen ratio as the facility. Accordingly, we feel this data is representative of meteorological conditions at all parts of the facility.		

16-T: Terrain

1	Was complex terrain used in the modeling? If not, describe why below.	Yes☒	No☐
	N/A		
2	What was the source of the terrain data?		
	Terrain was incorporated into the modeling analysis through the use of AERMAP with the most recent 1/3 degree NED data currently available from https://apps.nationalmap.gov/downloader/#/		

16-U: Modeling Files

1

Describe the modeling files:

Modeling files are named with the following naming convention:
CM_PPP AA S#S# SSS ME_YYYY-MMDD

CM = Chino Mine
PPP = Pollutant -> **N** = NO2; **C** = CO; **P25** = PM2.5; **P10** = PM10; **S** = SO2; **Cu** = Copper (TAP); **H2SO4** = Sulfuric Acid (TAP)
AA = Averaging Period -> **A** = Annual; **24** = 24-hour; **8** = 8-hour; **3** = 3-hour; **1** = 1-hour
S#S# = Scenario Number -> **ALL** = all scenarios were modeled with source groups; **S#S#** = scenario was modeled individually
SSS = Standard -> **S** = SIL; **SC1** = SIL Class I; **N** = NAAQS/NMAAQS; **PC1** = PSD Increment Class I; **PC2** = PSD Increment Class II
ME = Met Years -> **09** = 2009
YYYY-MMDD = Date of Submitted Model

Example #1: **CM_P10 24 ALL S 09_2026 0129** indicates:
- Facility: Chino Mine
- Pollutant: PM10
- Averaging Period: 24-hour
- Scenarios: All scenarios were modeled under different source groups
- Standard: Significant Impact Level (SIL)
- Met Years: 2009 only
- Date of Model: January 29, 2026

Example #2: **CM_N A S1B1 PC1 09_2026 0131** indicates:
- Facility: Chino Mine
- Pollutant: NO2
- Averaging Period: Annual
- Scenarios: S1B1 = Scenario 1 Blast 1 -> Blasting at Hanover Mountain (Base)
- Standard: PSD Increment Class I
- Met Years: 2009 only
- Date of Model: January 31, 2026

File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
CM_C 1-8 ALL S 09_2026 0223	CO	ROI/SIA – All Scenarios
CM_N A S1B1 S 09_2026 0223	NO2	ROI/SIA – S1B1
CM_N A S1B2 S 09_2026 0223		ROI/SIA – S1B2
CM_N A S2B1 S 09_2026 0223		ROI/SIA – S2B1
CM_N A S2B2 S 09_2026 0223		ROI/SIA – S2B2
CM_N A S3B1 S 09_2026 0223		ROI/SIA – S3B1
CM_N A S3B2 S 09_2026 0223		ROI/SIA – S3B2

	CM_N A S3B3 S 09_2026 0223		ROI/SIA – S3B3
	CM_N A S4B1 S 09_2026 0223		ROI/SIA – S4B1
	CM_N A S4B2 S 09_2026 0223		ROI/SIA – S4B2
	CM_N 1 S1B1 S 09_2026 0223		ROI/SIA – S1B1
	CM_N 1 S1B2 S 09_2026 0223		ROI/SIA – S1B2
	CM_N 1 S2B1 S 09_2026 0223		ROI/SIA – S2B1
	CM_N 1 S2B2 S 09_2026 0223		ROI/SIA – S2B2
	CM_N 1 S3B1 S 09_2026 0223		ROI/SIA – S3B1
	CM_N 1 S3B2 S 09_2026 0223		ROI/SIA – S3B2
	CM_N 1 S3B3 S 09_2026 0223		ROI/SIA – S3B3
	CM_N 1 S4B1 S 09_2026 0223		ROI/SIA – S4B1
	CM_N 1 S4B2 S 09_2026 0223		ROI/SIA – S4B2
	CM_P25 A ALL S 09_2026 0223	PM2.5	ROI/SIA – All Scenarios
	CM_P25 24 ALL S 09_2026 0223		
	CM_P10 A ALL S 09_2026 0223	PM10	ROI/SIA – All Scenarios
	CM_P10 24 ALL S 09_2026 0223		
	CM_S A ALL S 09_2026 0223	SO2	ROI/SIA – All Scenarios
	CM_S 3-24 ALL S 09_2026 0223		
	CM_S 1 ALL S 09_2026 0223		
	CM_N A S1B1 SC1 09_2026 0223	NO2	ROI/SIA – S1B1 (Class I)
	CM_N A S1B2 SC1 09_2026 0223		ROI/SIA – S1B2 (Class I)
	CM_N A S2B1 SC1 09_2026 0223		ROI/SIA – S2B1 (Class I)
	CM_N A S2B2 SC1 09_2026 0223		ROI/SIA – S2B2 (Class I)
	CM_N A S3B1 SC1 09_2026 0223		ROI/SIA – S3B1 (Class I)
	CM_N A S3B2 SC1 09_2026 0223		ROI/SIA – S3B2 (Class I)
	CM_N A S3B3 SC1 09_2026 0223		ROI/SIA – S3B3 (Class I)
	CM_N A S4B1 SC1 09_2026 0223		ROI/SIA – S4B1 (Class I)
	CM_N A S4B2 SC1 09_2026 0223		ROI/SIA – S4B2 (Class I)
	CM_P10 A ALL SC1 09_2026 0223	PM10	ROI/SIA – All Scenarios (Class I)
	CM_P10 24 ALL SC1 09_2026 0223		
	CM_S A ALL SC1 09_2026 0223	SO2	ROI/SIA – All Scenarios (Class I)
	CM_S 3-24 ALL SC1 09_2026 0223		
	CM_C 8 S1B1 N 09_2026 0223	CO	Cumulative – S1B1 NMAAQS
	CM_C 1 S3B2 N 09_2026 0223		Cumulative – S3B2 NMAAQS
	CM_N A S1B1 N 09_2026 0223	NO2	Cumulative – S1B1 NMAAQS
	CM_N 1 S3B2 N 09_2026 0223		Cumulative – S3B2 NAAQS
	CM_P25 A S3B3 N 09_2026 0223	PM2.5	Cumulative – S3B3 NAAQS
	CM_P25 24 S3B3 N 09_2026 0223		Cumulative – S3B3 NAAQS
	CM_P10 24 S3B2 N 09_2026 0223	PM10	Cumulative – S3B2 NAAQS
	CM_N A S1B1 PC2 09_2026 0223	NO2	Cumulative – S1B1 PSD Increment Class II
	CM_P10 A S3B3 PC2 09_2026 0223	PM10	Cumulative – S3B3 PSD Increment Class II
	CM_P10 24 S3B2 PC2 09_2026 0223		Cumulative – S3B2 PSD Increment Class II
	CM_P10 24 S3B1 PC1 09_2026 0223		Cumulative – S3B1 PSD Increment Class I
	CM_Cu 8 ALL O 09_2026 0223	Copper (TAP)	Other – 1/100th OEL
	CM_H2SO4 8 ALL O 09_2026 0223	Sulfuric Acid (TAP)	Other – 1/100th OEL

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.		
	N/A – This is not a PSD Major Source		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
	N/A – This is not a PSD Major Source		
5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes☐	No☒
	N/A – This is not a PSD Major Source		

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☒
	N/A		
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 Scenario	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
									UTM E (m)	UTM N (m)	Elevation (ft)
SO2, Annual (SIL)	S1B1	9.06E-03	--	--	--	9.06E-03	1.0	0.9%	773664	3639323	6885.79
SO2, 24-hour (SIL)	S1B1	0.034	--	--	--	0.034	5.0	0.7%	773101	3639833	6967.72
SO2, 3-hour (SIL)	S1B1	0.17	--	--	--	0.17	25.0	0.7%	773001	3639829	7006.14
SO2, 1-hour (SIL)	S3B2	0.52	--	--	--	0.52	7.8	6.7%	771694	3638060	7182.09
NO2, Annual (Class I SIL)	S3B3	0.023	--	--	--	0.023	0.1	22.5%	772115	3656856	6609.71
PM10, Annual (Class I SIL)	S3B1	0.074	--	--	--	0.074	0.2	37.0%	771074	3656997	6392.78
SO2, Annual (Class I SIL)	S1B2	5.00E-05	--	--	--	5.00E-05	0.1	0.1%	772115	3656856	6609.71
SO2, 24-hour (Class I SIL)	S2B1	3.06E-03	--	--	--	3.06E-03	0.2	1.5%	748987	3655738	7257.64
SO2, 3-hour (Class I SIL)	S2B1	0.023	--	--	--	0.023	1.0	2.3%	748987	3655738	7257.64
CO, 8-hour (NMAAQS)	S1B1	1191.43	--	--	3335.00	4526.43	9,960.1	45.4%	773001	3639829	7006.14

Pollutant, Time Period and Standard	Modeled Scenario	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location		
									UTM E (m)	UTM N (m)	Elevation (ft)
CO, 1-hour (NMAAQS)	S3B2	5861.83	--	--	4904.00	10765.83	14,997.5	71.8%	771694	3638060	7182.09
NO2, Annual (NMAAQS)	S1B1	4.07	--	--	6.97	11.04	94.02	11.7%	773664	3639323	6885.79
NO2, 1-hour (NAAQS)	S3B2	104.62	--	--	53.28	157.90	188.03	84.0%	771670	3638252	7106.04
PM2.5, Annual (NAAQS)	S3B3	--	2.07	4.11E-04	3.70	5.77	9.0	64.1%	772921	3633381	6349.97
PM2.5, 24-hour (NAAQS)	S3B3	--	7.80	7.73E-03	9.20	17.01	35	48.6%	770971	3630504	5975.75
PM10, 24-hour (NAAQS)	S3B2	--	50.50	--	19.00	69.50	150	46.3%	769000	3633936	6425.07
NO2, Annual (PSD Inc. Class II)	S1B1	4.07	--	--	6.97	11.04	25	44.2%	773664	3639323	6885.79
PM10, Annual (PSD Inc. Class II)	S3B3	--	7.17	--	--	7.17	17	42.2%	772921	3633381	6349.97
PM10, 24-hour (PSD Inc. Class II)	S3B2	--	27.02	--	--	27.02	30	90.1%	773389	3633588	6409.81
PM10, 24-hour (PSD Inc. Class I)	S3B1	--	0.28	--	--	0.28	8	3.5%	750963	3655956	6659.91
Cu, 8-hour (1/100th OEL)	--	0.96	--	--	--	0.96	10.0	9.6%	777016	3633698	6693.54
H2SO4, 8-hour (1/100th OEL)	--	4.47	--	--	--	4.47	10.0	44.7%	776085	3633686	6565.78

16-X: Summary/conclusions	
	A statement that modeling requirements have been satisfied and that the permit can be issued.
1	Freeport-McMoRan Chino Mines Company has demonstrated through this air dispersion modeling analysis that the proposed revisions to the Chino Mine will not cause an exceedance of: any of the National/New Mexico Ambient Air Quality Standards for CO, NO_2, $PM_{2.5}$, PM_{10}, or SO_2; any of the PSD Increment Class I or Class II standards for NO_2 or PM_{10}; or any of the $1/100^{th}$ of the Occupational Exposure Limits (OEL) for Copper and Sulfuric Acid.

Daniel Dolce

From: Daniel Dolce
Sent: Friday, January 9, 2026 5:23 PM
To: Mustafa, Sufi A., ENV
Cc: Adam Erenstein; Silk, Ellen; Anna Unruh; Sherry
Subject: Chino Mines Modeling Protocol
Attachments: Chino Mine_Modeling Protocol_v4.0_2026 0109.docx

Good evening Sufi,

I have attached a modeling protocol for the Chino Mine which is owned and operated by Freeport-McMoRan Chino Mines Company Co. This protocol is being submitted for your review and approval for an NSR Significant Revision to the mine's permit.

Please let us know if you have any questions, comments, or concerns with the protocol or any of the methodologies proposed in the protocol.

Have a great weekend!

Thank you and regards,
Daniel Dolce

Daniel Dolce
Consultant

P 505.266.6611 x3208 M 505.818.8761
Email: Daniel.Dolce@trinityconsultants.com
9400 Holly Avenue NE, Building 3, Suite B, Albuquerque, NM 87122

Want to meet? Book a meeting with Daniel Dolce at Trinity Consultants.

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AIR DISPERSION MODELING PROTOCOL

NSR Significant Revision Modeling Protocol

Freeport-McMoRan Chino Mines Company
Chino Mine

Prepared By:

Adam Erenstein – Manager of Consulting Services

TRINITY CONSULTANTS
9400 Holly Ave NE
Building 3, Suite B
Albuquerque, NM 87122
(505) 266-6611

January 2026

Project 0233201.0142

1. INTRODUCTION

1.1 Purpose of Modeling

Chino Mine (Chino) is an open-pit copper mine owned and operated by Freeport-McMoRan Chino Mines Company (Freeport). The primary purpose of the facility is to produce copper cathode using the Solvent Extraction/Electrowinning (SXEW) process and copper concentrate using a wet flotation process.

Freeport is preparing a significant permit revision application pursuant to 20.2.72.219.D.(1)(a) NMAC of NSR Permit No. 0298-M11-R10. The purpose of this action is to update the facility so that permitted operations align with the anticipated Mine Plan for the facility.

Chino is a PSD Minor source under the Prevention of Significant Deterioration (PSD) rules as currently permitted and will remain a minor source after the proposed significant revision. This facility will also remain a major source for operating permit purposes under Title V (20.2.70 NMAC).

Freeport seeks to demonstrate compliance with the National Ambient Air Quality Standards (NAAQS), the New Mexico Ambient Air Quality Standards (NMAAQS), and the PSD Class I and Class II Increment Standards, as applicable, for the following pollutants and averaging periods: CO (1-hour and 8-hour), NO_2 (1-hour, 24-hour, and annual), $PM_{2.5}$ (24-hour and annual), PM_{10} (24-hour and annual), and SO_2 (1-hour, 3-hour, 24-hour, and annual).

Chino also seeks to demonstrate compliance with New Mexico State Air Toxics Modeling for the following Toxic Air Pollutants (TAPs): Copper, Sulfuric Acid, and Vanadium.

1.2 Facility Description and Location

The Chino mine is an open-pit copper mine located approximately 15 miles east of Silver City in Grant County, New Mexico. Chino is located in UTM Zone 12, 774,500 meters east and 3,631,100 meters north and in Air Quality Control Region (AQCR) 12. The nearest Class I area is the Gila Wilderness at 16.7 km from the facility.

1.3 Summary of Haul Road Operating Scenarios

The following table provides a summary of two operating scenarios for the Chino and Cobre Haul Roads. This table includes the two previously permitted "control" scenarios as outlined in NSR Permit No. 0298-M11 (Tables A105.D1 and A105.D2), and all requested haul road throughput updates in this permit application. Blasting and mining scenarios are specified in Section 2.3 below.

Table 1 Operating Scenarios

Chino and Cobre Haul Roads	Operating Scenario 1	Operating Scenario 2
Haul Road	Maximum Throughput (tons/day)	Maximum Throughput (tons/day)
Hanover Mountain Road	126,000	
SWRDF Road	40,000	75,000
Cobre Haul Road	86,000	66,000
Maintenance Entrance Road	100,000	
Muffler Road	100,000	
South Stockpile Road	100,000	
3A/9 Dam Road	100,000	
West Stockpile Road	100,000	
Café to Lampbright Road	160,000	
North Lampbright	39,000	
Upper Lampbright Road	160,000	
Lower Lampbright	160,000	
Crusher/Stockpiles Road	100,000	
Princess Ramp/Lee Hill Road	66,000	
Kessel Stockpile Road	160,000	

2. PROPOSED MODELING

2.1 Model Input Options

Dispersion modeling for this facility will be performed with the latest version of AERMOD (version 24142) will be used for this analysis. The model will be used to determine the impacts for NO_2, CO, $PM_{2.5}$, PM_{10}, SO_2, and the TAPs as mentioned in Section 1.1 of this protocol. The model will run in regulatory mode with all default options for all applicable averaging periods. The ARM2 method will be used to convert NO_X to NO_2. Default minimum and maximum ambient ratios will be utilized.

Appendix A of this protocol provides the emission rates and stack/volume parameters of all the sources located at this facility to be modeled. A downwash analysis using the latest version of BPIP will be conducted and incorporated into the modeling analysis to account for potential effluent downwash due to structures at the facility.

2.2 Mining Scenarios

Chino seeks to continue haul road operation under previously permitted "Control" Scenarios 1 & 2 from Tables 105.D1 and 105.D2 in NSR permit No. 0298-M11. Chino proposes to combine Tables 105.D1 and D2 into one Haul Road Operating Scenario (see Table 1 in Section 1.3) in this revision application. Both Operating Scenarios 1 and 2 will be modeled to ensure the most conservative impacts are modeled. The four mining scenarios are based on the seven mining scenarios approved in NSR permitting action 0298-M8 issued July 12, 2016. Chino has fully completed mining Scenario 1 (S1) through Scenario 4 (S4) in mining Hanover mountain down to its base. Chino will continue to mine Hanover mountain until it becomes a pit. After this, there will be a transition, and mining will occur at both Hanover and Continental Pit. The transition between mining Hanover Mountain and mining Continental Pit should occur during or shortly after beginning the mining of Hanover base. As a conservative measure and to allow for some operational flexibility, mining Hanover base and the transition from mining Hanover to Continental Pit are represented separately. This is done to ensure that mining Hanover base 100% to completion without any transition will not cause an exceedance of the standards. Therefore, the previously approved Scenarios 6 & 7 will be brought back into the modeling to model the worst of all possible scenarios. Approved Scenario 4 through Scenario 7 from NSR permit No. 0298-M8 will be renamed to Scenario 1 through Scenario 4 as outlined in the Table 2 below.

Table 2 Cobre Mining Scenarios

Scenario with Description
Scenario 1 (S1) – Mining Hanover Base
Scenario 2 (S2) – Mining Hanover Pit
Scenario 3 (S3) – Transition from Hanover to Continental
Scenario 4 (S4) – Continental Pit 100%

2.3 Blasting Scenarios

AERMOD, which assumes continuous and constant emissions over a one-hour time span, is not capable of validly modeling the nearly instantaneous source that is blasting. The application of AERMOD in its regulatory form is not an appropriate methodology for assessing blasting impacts, as ground-level concentrations are generally over-predicted. A probabilistic approach to quantifying blasting impacts would

be appropriate, rather than determining the maximum possible impact given blasting on some or all hours of the year.

As a conservative measure, the lb/event rate will equal the lb/hr emission rate. Blasting at Hanover Mountain (Scenario B1), the Continental Pit (Scenario B2), and the Santa Rita Pit (Scenario B3) will never occur within the same hour; therefore, separate blasting scenarios will be modeled for these locations. Table 3 below represents the mining and blasting scenarios that will be modeled.

Table 3 Proposed Mining and Blasting Scenarios

Scenario Number	Blasting Location
S1-B1	Hanover Mountain
S1-B2	Santa Rita Pit
S2-B1	Hanover Mountain
S2-B2	Santa Rita Pit
S3-B1	Hanover Mountain
S3-B2	Continental Pit
S3-B3	Santa Rita Pit
S4-B1	Continental Pit
S4-B2	Santa Rita Pit

Blasting at both Hanover Mountain, Continental Pit, and Santa Rita Pit will occur once per day during daylight hours only. Thus, Trinity proposes the following as options to model the blasting event:

2.3.1 Blasting Option 1 – Open Burn/Open Detonation Dispersion Model

Trinity will use the Open Burn/Open Detonation Dispersion Model (OBODM) to obtain the characteristics of the initial blast cloud. The blasting parameters for use in AERMOD will be calculated using the following equations:

- Release Height = 0.5 * Initial Blast Diameter calculated by OBODM
- Initial Lateral Dimension = Initial Blast Diameter / 4.3
- Initial Vertical Dimension = Initial Blast Diameter / 2.15

2.3.2 Blasting Option 2 – Intermittent Emission Rates

Because blasting is an instantaneous event, it is not appropriate to model the emissions as if they occur continuously over the full duration of longer averaging periods (e.g., 3-hour, 8-hour, 24-hour, annual). To address this, Trinity proposes to assume that the emissions from a single blasting event represent the maximum emissions occurring within any one hour, and then distribute those emissions evenly across the applicable averaging period. For example, a blasting event with 180 lb/event of NO_x would be represented as 60 lb/hr for the 3-hour averaging period, 22.5 lb/hr for the 8-hour period, etc. This approach ensures that the event's worst-case emissions are captured without unrealistically modeling them as continuous throughout the entire averaging period.

2.3.3 Blasting Option 3 – Worst-Case Hours

A blasting analysis will be performed to determine which hour blasting will produce the highest emissions. A model will be run for NO_X, CO, PM_{10} and $PM_{2.5}$ with a source group for each blasting source. The hour with the highest impacts for blasting will be identified by assessing blasting impacts during daylight hours. For

each blasting source, the highest hour will be determined. Each source (Hanover Mountain, Continental Pit, and Santa Rita Pit) will be modeled with two sources in AERMOD to account separately for the non-blasting and blasting emissions. Each blasting source will have a variable emission rate during the peak hour of the day.

2.4 Evaporators

The Chino Mine will now have four (4) mechanical evaporators to remove excess water in the Chino/Santa Rita pit, as well as the excess water in Reservoir 9. Emissions from the evaporators include particulate emissions for PM_{10} and $PM_{2.5}$. The evaporators will move around the Chino pit and around Reservoir 9 as needed to remove water, but only four evaporators will operate in one of these single areas at a given time. Since the evaporators will operate in the Chino/Santa Rita pit, their emissions will be accounted for in the pit source emission rates. Since the Cloud 9 tailings pond is located outside of the Santa Rita pit, the evaporators will be modeled as a singular area source with a release height determined from a maximum plume height from drone arial footage.

2.5 Receptor Grid Description and Elevation Data

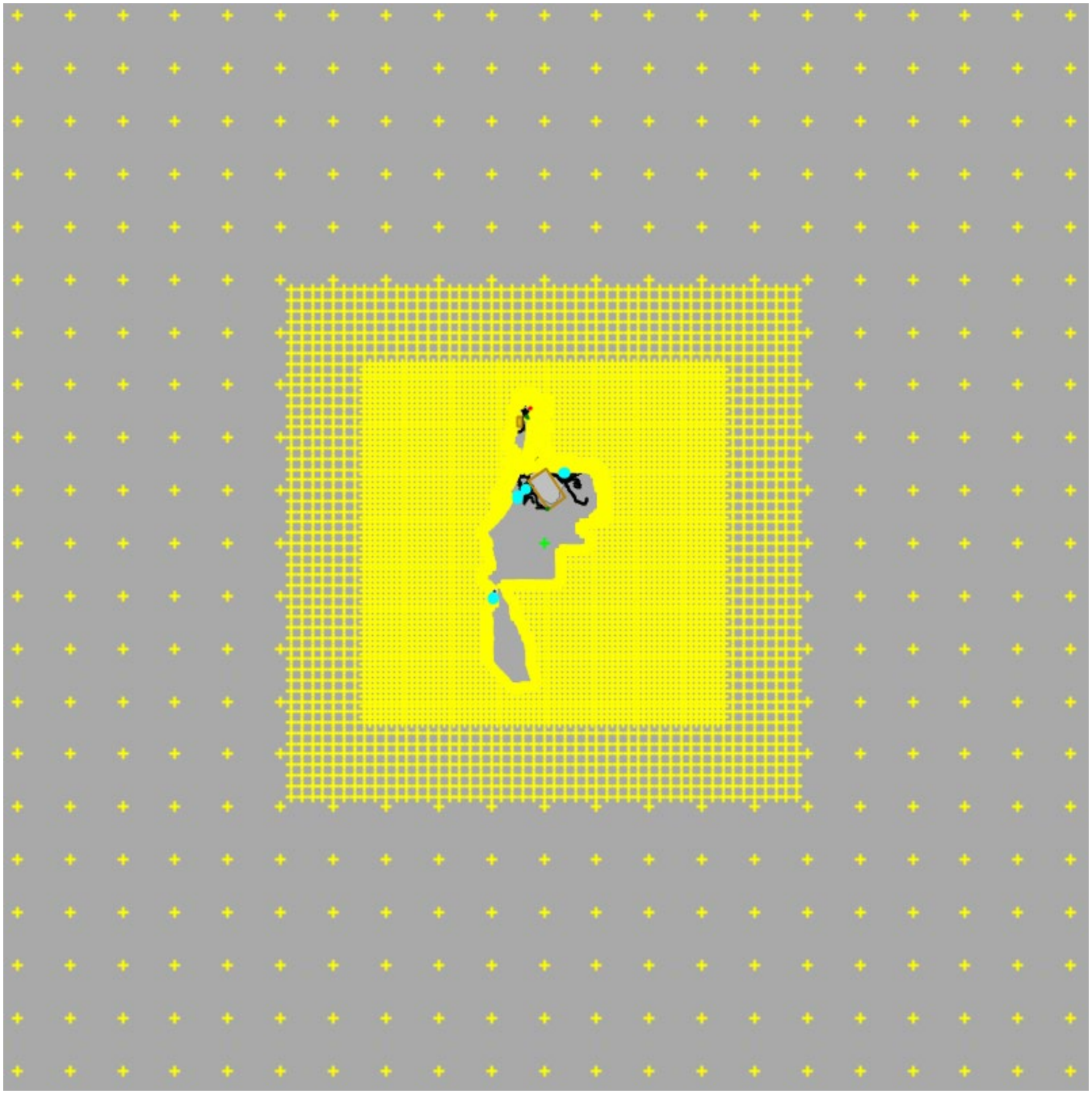
The modeled ground-level concentrations will be determined using four (4) variable density square receptor grids. These grids cover a region extending to a maximum of 50 km from the Chino facility center point, designated at 774,500 meters east and 3,626,435 meters north. The following defines the receptor grids utilized:

- The facility fence line will be modeled using 100-meter grid spacing.
- The "fine grid" will contain 100-meter spaced receptors extending about 500 meters from the facility operation boundary in areas of greater potential for higher impacts. This 100-meter spacing will be used in accordance with guidance for boundaries of expansive sources in Section 4.6.3 of the Modeling Guidelines.
- The "medium grid" will contain 500-meter spaced receptors extending about 17 km from the property line grid, excluding the fine grid.
- The "medium-coarse grid" will contain 1,000-meter spaced receptors extending about 24 km from the property line grid, excluding the fine and medium grids.
- The "coarse grid" will contain 5,000-meter spaced receptors extending to a maximum 50 km from the facility center point, excluding the fine and medium/medium-coarse grids.

The coarse grid receptor spacing is large because it is not expected that maximum facility impacts will occur at this distance. It is expected that maximum facility impacts will occur within the fine receptor grid. The coarse grid spacing will help to decrease the large number of receptors in these models, thereby decreasing the overall run time and helping to increase stability of model runs.

Figure 2-1 shows the receptor grid used in the previous modeling analysis. This receptor grid is subject to change to account for the latest drawing of the Chino property boundary.

Figure 2-1 Receptor Grid for Modeling Analysis



The elevations of receptors and facility sources will be determined using the most recent national elevation data (NED) data currently available.

2.6 Meteorological Data

The Hurley 2009 meteorological data, which was previously used to model the facility and had been provided by the NMED. We feel that this meteorological set is located in comparable terrain not far from the facility. Therefore, this data is representative of meteorological conditions at the facility.

2.7 Particle Depletion

The PM_{10} modeling will include the use of particle depletion parameters. By accounting for particle depletion, AERMOD is able to account for the gravitational dropout of portions of the PM_{10} plumes. Depletion parameters obtained from the NMED will be used. Particle depletion cannot be performed for $PM_{2.5}$.

2.8 Significance Impact Level (SIL) and Cumulative Impact Analysis (CIA)

The modeled ground-level concentrations will be compared to the corresponding significant impact levels (SILs) to determine whether any modeled ground-level concentrations at any receptor locations are greater than the SIL (i.e., "significant" receptors). If the significance analysis reveals that modeled ground-level concentrations for a particular pollutant and averaging period are greater than the applicable SIL, a Cumulative Impact Analysis (CIA) will be performed at the significant receptors.

A separate analysis will be performed to determine the worst-case impacts from blasting. In this analysis, all mining and blasting scenarios will be modeled separately and compared to the SILs: each one of the four Cobre mining scenarios (S1-S4) along with two blasting scenarios (B1 and B2) for each mining scenario. These models will be run separately to determine which combination of scenarios produces the worst-case impacts. This worst-case scenario will then be modeled with the rest of the SIL and CIA models.

If significant, the CIA will be performed including impacts from the facility sources, background concentrations, and/or surrounding sources within 25 km of the facility, as well as within 50 km of the facility with emissions of 1,000 lb/hr or more. The inclusion of background concentrations will follow the guidance shown in Table 20: "Modeling the Design Value Summary (Default Modeling)" from the Modeling Guidelines.

On April 15, 2024, Freeport met with Sufi Mustafa and Eric Peters from the NMED AQB to discuss appropriate background monitors for Chino. The closest $PM_{2.5}$ background monitor to Chino is the Las Cruces District Office of NMED (ID 6Q, 350130025). During this meeting, it was discussed that the Santa Fe monitor (ID 3SFA, 350490021) is a more representative background monitor than the Las Cruces monitor as the Santa Fe monitor has a similar terrain, elevation, lack of motor vehicle traffic, and population to Chino area. The NMED AQB then approved the use of the Santa Fe monitor for the average annual $PM_{2.5}$ background concentration. Therefore, the following monitors, as applicable, will be used for background concentrations as they are nearest to the facility and most representative of the region:

- The El Paso Chamizal monitor (ID 481410044) for CO;
- The Deming monitor (ID 7E, 350290003) for NO_2;
- The Hurley Smelter monitor (ID 7T, 350171003) for SO_2;
- The Santa Fe monitor (ID 3SFA, 350490021) $PM_{2.5}$; and
- The Santa Fe monitor (ID 3SFA, 350490020) for PM_{10}

An inventory of surrounding sources will be obtained from the NMED MergeMaster. If required, adjustments to surrounding source parameters will be made per the Section 4.8.1.3 of the modeling guidelines and documented in the subsequent Universal Application 4 (UA4) modeling report.

For $PM_{2.5}$ and PM_{10} modeling, the facility will be modeled with surrounding sources, and a background concentration and secondary formation, as applicable, will be added to the modeling results. For modeling

surrounding sources, all sources within 10 km of the facility will be included in the model. Based on EPA's Guidance for $PM_{2.5}$ Permit Modeling and NMED'S Modeling Guidelines, 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. Sources with significant increases of $PM_{2.5}$ precursors must qualitatively and/or quantitatively account for the secondary formation of $PM_{2.5}$. The secondary formation of $PM_{2.5}$ will be calculated because the facility emits more than 40 tpy of NO_X.

2.9 PSD Increment Analysis

Chino is located in Air Quality Control Region (AQCR) 12 and the baseline dates are listed in the table below. Since a baseline date has not yet been established for $PM_{2.5}$, a PSD Increment analysis is not required for that pollutant. If the results of the ROI analysis for NO_X, SO_2, or PM_{10} indicate concentrations greater than significance levels, PSD increment analysis will be conducted for the appropriate averaging periods. If required, the PSD increment analysis will be conducted including all PSD increment consuming and expanding sources within 25 km of the facility as well as any sources within 50 km of the facility with emissions of 1,000 lb/hr or more per Table 22 of the Modeling Guidelines. The predicted maximum concentrations will be compared to the appropriate PSD Increment Class II Standard.

Table 4 Minor Source Baseline Dates For AQCR 12

AQCR	NO_2 Date	SO_2 Date	PM_{10} Date	$PM_{2.5}$ Date
12	8/10/1995	8/10/1995	8/10/1995	Not Established

2.10 Class I Areas Analysis

PSD Class I Increment analysis is required by the NMED as Chino is a PSD minor source within 50 km of a Class I area. The nearest Class I area is the Gila Wilderness at 16.7 km from the facility. There are no other Class I areas within 50 km of the facility.

The Class I SIL analysis will be performed which will include the Chino facility sources and a group of receptors around the Gila Wilderness. The receptor locations and elevations will be obtained from the most recent version of MergeMaster provided by the NMED. The impacts will be determined at the Gila Wilderness receptors and will be compared to the Class I area SILs. If impacts at the Gila Wilderness are greater than the Class I SILs, further Class I CIA modeling will be performed.

If a cumulative PSD Class I Increment analysis is performed, then a separate inventory of surrounding sources within 25 km of the Class I area will be obtained from the NMED MergeMaster database. The inventories for the analysis near the facility and the inventory for the analysis near the Class I area may be quite different because they are centered on different locations.

2.11 Toxic Air Pollutant (TAP) Analysis

Per 20.2.72.403.A.(1) NMAC, if any TAP exceeds the screening level in 20.2.72.502 NMAC, the TAP will be modeled using an 8-hour averaging period, complex terrain, and building downwash. No surrounding sources or background concentrations exist for TAPs, so only sources at the facility will be modeled. The receptor grid outlined in Section 2.2 includes the fine grid required to be used in the area of the maximum concentration.

Per Table C of 20.2.72.502 NMAC, facilities may choose to use a correction factor (CF) for the release height of emissions for the purpose of determining whether a permit is necessary for the emission of a toxic air pollutant. If the TAP is released from multiple heights, then the facility may choose to use a weighted average CF, weighted by the emission rate at each stack.

APPENDIX A. MODELED SOURCES

All applicable sources of emissions, their respective emission rates, and the relevant modeling parameters are listed in the tables below. Please note that the sources and modeling parameters are not final and are provided only to provide a helpful representation of the facility and the proposed modeling demonstration. The emission rates in the table below represent the total emissions from the activity. For volume sources, area sources, and open-pit sources, the modeled emission rates will account for the overall size, length, and quantity of the activity itself.

Per Section 5.3.1 of the NMED modeling guidelines, modeling of wind erosion of storage piles is optional, as it says in AP-42 not to use the equations for wind erosion in a steady state model. Therefore, the Chino Mine stockpile wind erosion emissions will not be modeled in this permit application.

Table 5 Point Sources

ID	Description	NO_X (lb/hr)	CO (lb/hr)	SO_2 (lb/hr)	PM_{10} (lb/hr)	$PM_{2.5}$ (lb/hr)	Height (ft)	Temp. (°F)	Velocity (ft/s)	Dia. (ft)
PC_01	PC-01 Primary Crusher Baghouse	-	-	-	2.1600	2.1600	27.89	-459.67	74.15	1.97
LHS_01	Lime Handling System LHS-01 (IC-06)	-	-	-	0.0440	0.0066	60.04	-459.67	39.04	1.64
LUS_01	Lime Unloading System	-	-	-	0.2399	0.0360	60.04	-459.67	59.06	0.66
F_2_1_14	F-2-1-1.4 Westinghouse Gas Turbine	39.9000	20.0000	0.4000	2.3000	2.3000	80.05	965.03	128.94	10.50
F_2_1_15	F-2-1-1.5 Heat Recovery Steam Generator	2.4000	1.3000	0.0300	0.3000	0.3000	130.91	377.33	101.71	10.50
RCB_01	Recycle Crusher Baghouse	-	-	-	0.0138	0.0138	16.00	-459.67	6.57	5.80
SAG1	Sag Tunnel Dust Collector Stack 1	-	-	-	0.4852	0.2314	22.32	-459.67	102.40	2.23
SAG2	Sag Tunnel Dust Collector Stack 2	-	-	-	0.4852	0.2314	22.32	-459.67	102.40	2.23

Table 6 Capped Point Sources

ID	Description	NO_X (lb/hr)	CO (lb/hr)	SO_2 (lb/hr)	PM_{10} (lb/hr)	$PM_{2.5}$ (lb/hr)	Height (ft)	Temp. (°F)	Velocity (ft/s)	Dia. (ft)
BOILER1	SXEW Boiler No. 1	0.1783	0.1029	0.0073	0.0096	0.0096	30.84	479.90	2.20	0.66
BOILER2	SXEW Boiler No. 2	0.1783	0.1029	0.0073	0.0096	0.0096	30.84	479.90	2.20	0.66
BOILER3	SXEW Boiler 3	0.1989	0.1148	0.0081	0.0107	0.0107	30.84	479.90	2.20	0.66

Table 7 Horizontal Point Sources

ID	Description	NO_X (lb/hr)	CO (lb/hr)	SO_2 (lb/hr)	PM_{10} (lb/hr)	$PM_{2.5}$ (lb/hr)	Height (ft)	Temp. (°F)	Velocity (ft/s)	Dia. (ft)
SXEW_SAT	SXEW Plant Acid Tankhouse	-	-	-	2.2825	-	35.10	-467.23	3.74	47.24

Table 8 Area Sources

ID	Description	NO_X* (lb/hr)	CO* (lb/hr)	SO_2* (lb/hr)	PM_{10}* (lb/hr)	$PM_{2.5}$* (lb/hr)	Release Height (m)	X Length (m)	Y Length (m)	Init. Vert. Dim. (m)
CBM_MH	Cobre Mine Material Handling	1.1550	1.0150	0.4172	5.5474	1.2128	3.11	265.00	120.00	2.89
EVAP	Evaporators 1-4	-	-	-	1.7014	1.2993	6.10	217.60	106.30	10.47

* Please note AERMOD area sources use an emission rate input in units of lb/hr-ft^2. The emission rates presented in this table represent the total emissions for this source/activity. Appropriate emission rate inputs will account for the overall size and quantity of the area/volume sources.

Table 9 Volume Sources

ID*	Description*	NO_X (lb/hr)	CO (lb/hr)	SO_2 (lb/hr)	PM_{10} (lb/hr)	$PM_{2.5}$ (lb/hr)	Release Height (m)	Init. Lat. Dim. (m)	Init. Vert. Dim. (m)
RD_2	Maintenance Entrance Rd + Grading	-	-	-	1.0824	3.2432	5.57	13.02	5.18
RD_3	Cobre Haul Rd + Grading	-	-	-	1.6005	8.4245	5.57	41.02	5.18
RD_4	SWRDF Rd + Grading	-	-	-	1.7902	10.3217	5.57	28.26	5.18
RD_5N	Muffler Rd + Grading	-	-	-	0.8583	1.0028	5.57	16.28	5.18
RD_5S	Hanover Mountain Rd + Grading	-	-	-	1.5482	7.9014	5.57	41.02	5.18
RD_6	South Stockpile Rd + Grading	-	-	-	2.3746	16.1658	5.57	28.26	5.18
RD_7	3A/9 Dam Rd + Grading	-	-	-	3.6800	29.2191	5.57	28.26	5.18
RD_8	West Stockpile - North Segment + Grading	-	-	-	1.8107	10.5266	5.57	19.53	5.18
RD_9	West Stockpile - South Segment + Grading	-	-	-	1.7494	9.9129	5.57	18.14	5.18
RD_10	Yellow Brick Road + Grading	-	-	-	2.7161	19.5805	5.57	22.33	5.18
RD_11	Café Q to Lampbright Rd + Grading	-	-	-	2.1451	13.8707	5.57	16.28	5.18
RD_13	Upper Lampbright Stockpile Rd + Grading	-	-	-	3.9318	31.7369	5.57	16.74	5.18
RD_14	Lower Lampbright Stockpile Rd + Grading	-	-	-	1.5300	7.7194	5.57	16.74	5.18
RD_15	Crusher Stockpile Rd + Grading	-	-	-	1.3098	5.5169	5.57	14.88	5.18
RD_16	Roundabout Rd + Grading	-	-	-	0.8880	1.2989	5.57	41.02	5.18
RD_17	Princess Ramp Rd + Grading	-	-	-	1.2401	4.8199	5.57	17.67	5.18
RD_21	Kessel Rd + Grading	-	-	-	4.4594	37.0131	5.57	15.35	5.18

ID*	Description*	NO_X (lb/hr)	CO (lb/hr)	SO_2 (lb/hr)	PM_{10} (lb/hr)	$PM_{2.5}$ (lb/hr)	Release Height (m)	Init. Lat. Dim. (m)	Init. Vert. Dim. (m)
RD_22	North Lampbright Rd + Grading	-	-	-	1.1093	3.5119	5.57	20.47	5.18
PC_DUMP	Primary Crusher Dump Pocket	-	-	-	0.0161	0.0024	1.30	1.60	0.30
CV_01C	Conveyor Transfer/Enclosed ore transfer	-	-	-	0.5544	0.0832	32.00	0.42	0.70
SCDP	Stacker Conveyor Drop Point	-	-	-	0.2166	0.0328	30.50	0.35	7.10
SAGF1_A	SAG Mill Feeder No. 1 (SAG-F1)	-	-	-	0.5445	0.0824	4.30	0.33	10.90
SAGF1_B	SAG Mill Feeder No. 2 (SAG-F1)	-	-	-	0.5445	0.0824	4.30	0.33	10.90
FLTRBLND	Filter/Blending Plant	-	-	-	0.3461	0.3436	17.40	0.14	8.10
WHSCN	WhiteHouse Screen	-	-	-	34.4809	6.1958	3.28	15.70	6.00
UNL_3A	Unloading - 3A Stockpile and Bulldozing	-	-	-	0.9402	0.5454	3.28	15.70	6.00
UNL_C9	Unloading - Cloud 9 Stockpile and Bulldozing	-	-	-	0.9402	0.5454	3.28	15.70	6.00
UNL_K	Unloading - Kessel stockpile and Bulldozing	-	-	-	0.9802	0.5514	3.28	15.70	6.00
UNL_NL	Unloading - North Lampbright Leach Stockpile and Bulldozing	-	-	-	0.8995	0.5393	3.28	15.70	6.00
UNL_L	Unloading - Lampbright Leach Stockpile and Bulldozing	-	-	-	1.0809	0.5665	3.28	15.70	6.00
UNL_S	Unloading - South Waste + Leach Stockpile and Bulldozing	-	-	-	1.0735	0.5654	3.28	15.70	6.00
UNL_W	Unloading - West Waste Stockpile and Bulldozing	-	-	-	0.9402	0.5454	3.28	15.70	6.00
UNL_CR	Unloading - Crusher/Storage Stockpile and Bulldozing	-	-	-	0.9869	0.5524	3.28	15.70	6.00
UNL_SWDF	Unloading - SWRDF/Humbolt Stockpile and Bulldozing	-	-	-	0.9235	0.5429	3.28	15.70	6.00
MH_BORR	Borrow Pit Material Handling	-	-	-	0.0013	0.0002	3.28	35.44	3.05
BLSTBORR	Borrow Pit blasting	26.9325	608.0760	0.0539	28.7767	1.6602	18.29	11.21	17.01
HANOVER1	Hanover mountain - Scenario 1	-	-	-	0.0912	0.0137	4.54	141.77	4.23

ID*	Description*	NO_X (lb/hr)	CO (lb/hr)	SO_2 (lb/hr)	PM_{10} (lb/hr)	$PM_{2.5}$ (lb/hr)	Release Height (m)	Init. Lat. Dim. (m)	Init. Vert. Dim. (m)
BLSTHAN	Hanover mountain blasting - Scenario 1	180.00	4064.00	0.36	328.2524	19.8083	4.54	141.77	4.23

* Please note that activities like haul roads, graders, etc. will account for the full distance of the activity and will consist of numerous volume sources in series. Total emissions in the table above will be divided among the volume sources

Table 10 Open-Pit Sources

ID*	Description*	NO_X (lb/hr)	CO (lb/hr)	SO_2 (lb/hr)	PM_{10} (lb/hr)	$PM_{2.5}$ (lb/hr)	Release Height (m)	X Length (m)	Y Length (m)	Pit Volume (m^3)
SRITA PIT	Santa Rita Pit - All Scenarios	0.00E+00	0.00E+00	0.00E+00	2.36E-06	2.36E-07	114.3	3353.105	1984.248	1.52E+09
BLSTS RTA	Blasting at Santa Rita - All Scenarios	4.78E-06	1.08E-04	9.55E-09	7.80E+00	1.40E+00	114.3	3353.105	1984.248	1.52E+09
CONT _PIT	Continental mine - Scenario 3 & 4	-	-	-	0.0912	0.01368	45.72	393.4998	883.92	3.17E+07
BLST CONT	Blasting at Continental - Scenario 3 & 4	180.00	4064.00	0.36	330.22	20.00	45.72	393.4998	883.92	3.17E+07
HAN_ PIT	Hanover - Scenario 2 & 3	-	-	-	0.0912	0.01368	TBD	716.6	425	TBD
BLST HAN2	Blasting at Hanover - Scenario 2 & 3	180.00	4064.00	0.36	322.0819	18.6290	TBD	716.6	425	TBD

Section 17

Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

To show compliance with existing NSR permits conditions, you must submit a compliance test history. The table below provides an example.

Compliance Test History Table

Unit No.	Test Description	Test Date
F-2-1-1.4	Testing in accordance with EPA Test Method 19 as required by NSR permit 0298-M8-R4 and Title V permit P066-R3M1 sections A401(B) and B11A(1).	03/06/2018
F-2-1-1.4	Testing in accordance with EPA Test Method 19 as required by NSR permit 0298-M10-R4 and Title V permit P066-R3M1 sections A401(B) and B11A(1).	11/16/2022
CB SCRN ENG	Testing in accordance with EPA Test Method 19 as required by NSR permit 0298-M8-R5 and Title V permit P066-R3M1 sections A401(B) and B11A(1).	11/16/2022
F-2-1-1.4	Testing in accordance with EPA Test Method 19 as required by NSR permit 0298-M11-R2 and Title V permit P066-R3M1 sections A401(B) and B11A(1).	12/18/2024
F-2-1-1.4	Testing in accordance with EPA Test Method 19 as required by NSR permit 0298-M11-R7 and Title V permit P066-R3M1 sections A401(B) and B11A(1).	5/21/2025
F-2-1-1.4	Testing in accordance with EPA Test Method 7E, 10, and 19 as required by NSR permit 0298-M11-R10 and Title V permit P066-R3M1 sections A401(B) and B11A(1).	8/27/2025

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.

A redlined version of NSR Permit No. 0298-M11R10 with proposed changes is provided on the following pages for NMED's consideration.

AIR QUALITY BUREAU
NEW SOURCE REVIEW PERMIT
Issued under 20.2.72 NMAC

Certified Mail No: 7016 2070 0000 6771 3274
Return Receipt Requested

NSR Permit No:	0298-M12~~1~~
Facility Name:	Chino Mine
Permittee Name:	Freeport-McMoRan Chino Mines Co
Mailing Address:	PO Box 10, Bayard, NM 88023
TEMPO/IDEA ID No:	526 - PRN20220001
AIRS No:	350170001
Permitting Action:	Significant Permit Revision
Source Classification:	Major – Title V and PSD Minor
Facility UTM Location:	774,500 m E, 3,631,100 m N, Zone 12, **Datum:** WGS84
County:	Grant
Air Quality Bureau Contact	Joseph Kimbrell
Main AQB Phone No.	(505) 476-4300

Elizabeth Kuehn
Digitally signed by Elizabeth Kuehn
Date: 2022.11.02 14:33:38 -06'00'

Elizabeth Bisbey-Kuehn
Bureau Chief
Air Quality Bureau

Date

Template version: 06/30/2021

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PART B GENERAL CONDITIONS (Attached)

PART C MISCELLANEOUS: Supporting On-Line Documents; Definitions; Acronyms (Attached)

PART A FACILITY SPECIFIC REQUIREMENTS

A100 Introduction

A. This permit, NSR 0298M12~~1~~, supersedes all portions of Air Quality Permit NSR 0298M11~~0~~, issued ~~April 21~~November 2, 202~~0~~2, except the portion requiring compliance tests. Compliance test conditions from previous permits, if not completed, are still in effect, in addition to compliance test requirements contained in this permit.

A101 Permit Duration (expiration)

A. The term of this permit is permanent unless withdrawn or cancelled by the Department.

A102 Facility: Description

A. The Chino Mine is located near Bayard, New Mexico, within Grant County. The mine produces copper cathode using the Solvent Extraction - Electro-winning (SX/EW) process in the SX/EW Plant and produces copper concentrate using a wet flotation process in the Ivanhoe Concentrator. Mine operations associated with the Santa Rita Pit consist of blasting, loading, hauling, placement of waste rock and leach rock on stockpiles, and transport of concentrator ore to the Primary Crusher. Concentrate slurry from the Ivanhoe Concentrator travels approximately seven miles by pipeline to the Filter and Blending Plants near Hurley, New Mexico where the slurry is dewatered and loaded into rail cars and trucks for transport to off-site smelters for further processing. Ancillary operations at Chino include a portable screening plant operated in the pit area and operation of the Chino Power Plant near Hurley. The Chino Power Plant produces electric power on an as-needed basis from one (1) Westinghouse natural gas-fired turbine and one (1) Nooter/Ericksen natural gas-fired Heat Recovery Steam Generator (HRSG) duct burner. The Cobre Mine is located approximately two miles north of the Chino Mine. The Cobre Mine property is contiguous and adjacent to the Chino Mine property. Mining at the Cobre mine will occur at the Hanover Mountain and ~~Contential~~Continental Pit. Mined material from Cobre will be transported to Chino using haul trucks traveling over a haul road connecting the two facilities. Additional activities at Cobre includes a contractor owned and operated screening plant and the loading of magnetite into over-the-road trucks ~~and rail cars~~ for transport to customers off-site. There is also ~~are also two (2) diesel-fired emergency generators at Cobre for use during unplanned power outages and~~ a tailings impoundment from past operations at the Cobre ~~is~~ site.

B. This facility is located approximately 3.9 northeast of Bayard, New Mexico in Grant County.

C. [Enter Description of Modification] ~~Modification consists of the construction of a material borrow pit near the Cobre Haul road to provide material for maintenance of the facility haul roads. This construction will require four blasts that are to occur separately, but only for this single construction event, these blasts are not to be completed during any other blasting events at the facility. With this revision blasting and material handling at this borrow pit are to be included to the facility emissions. These new emission sources are not to modify any preexisting sources or scenarios. New Units include BORR_BLST: Cobre Haul Road Borrow Pit Blasting and BORR_MH: Cobre Haul Road Borrow Pit Material Handling. The description of this modification is for informational purposes only and is not enforceable.~~

D. Table 102.A and Table 102.B show the total potential emission rates (PER) from this facility for information only. This is not an enforceable condition and excludes emissions from Minor NSR exempt activities per 20.2.72.202 NMAC.

Table 102.A: Total Potential Emission Rate (PER) from Entire Facility

Pollutant	Emissions (non-fugitives) (tons per year)	Emissions (tons per year)
Nitrogen Oxides (NOx) ~~(non-fugitives of 197.88)~~	190.24	260.49~~81.6~~
Carbon Monoxide (CO) ~~(non-fugitives of 98.25)~~	96.92	~~1452.9~~1683.10
Volatile Organic Compounds (VOC) ~~(non-fugitives of 16.59)~~	16.18	30.38~~21.4~~
Sulfur Dioxide (SO_2) ~~(non-fugitives of 3.98)~~	2.9	3.04~~4.1~~
Particulate Matter (PM) ~~(non-fugitives of 13.66)~~	12.5	12,679.82~~17,641.6~~
Particulate Matter less than 10 microns (PM_{10}) ~~(non-fugitives of 13.66)~~	12.5	3,456.914~~,697.0~~
Particulate Matter less than 2.5 microns ($PM_{2.5}$) ~~(non-fugitives of 13.66)~~	12.5	408.5~~503.4~~
Greenhouse Gas (GHG)(CO2e)	347,414.34	361,991.55~~355,886.8~~

Note: Total Potential Pollutant Emissions in Table 102.A, may include fugitive emissions; routine or predictable, startup, shutdown, and maintenance emissions (SSM); and permitted malfunction allowances if these are a sources of regulated air pollutants from this facility.

Table 102.B: Total Potential Emissions Rate (PER) for *Hazardous Air Pollutants (HAPs) that exceed 1.0 ton per year

Pollutant	Emissions (tons per year)
Formaldehyde	1.43~~1.5~~
Manganese	1.24
Toluene	4.32~~1.3~~
Total HAPs**	11.44~~5.4~~

* HAP emissions are included in the Table 102.A VOC emissions total.
** Total HAP emissions may not agree with the sum of individual HAPs because only individual HAPs emitted at a

Commented [ES1]: Chino proposes to delete this condition for the modification description. The modification description is not enforceable. Enforceable applicable requirements will be included in specific and general requirements of the permit. Chino suggests that this modification description is added to the Statement of Basis document for this permit revision.

Commented [ES2]: Chino proposes to add a separate column in Table A102.A for non-fugitive total potential emission rate from entire facility.

rate greater than 1.0 ton per year are listed in Table 102.B.

A103 Facility: Applicable Regulations

A. The permittee shall comply with all applicable sections of the requirements listed in Table 103.A.

Table 103.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
20.2.1 NMAC General Provisions	X	Entire Facility
20.2.3 NMAC Ambient Air Quality Standards	X	Entire Facility
20.2.7 NMAC Excess Emissions	X	Entire Facility
20.2.61 NMAC Smoke and Visible Emissions	X	SX/EW Boilers No1, No 2, and No3, F-2-1-1.4, F-2-1-1.5, CB SCRN ENG~~, CH SCRN ENG, ENG-1~~
20.2.70 NMAC Operating Permits	X	Entire Facility
20.2.71 NMAC Operating Permit Emission Fees	X	Entire Facility
20.2.72 NMAC Construction Permit	X	Entire Facility
20.2.73 NMAC Notice of Intent and Emissions Inventory Requirements	X	Entire Facility
20.2.75 NMAC Construction Permit Fees	X	Entire Facility
20.2.77 NMAC New Source Performance Standards	X	Diesel Emergency Generators, Natural Gas Emergency Generator, LPG Emergency Generators, F-2-1-1.5, F- 2-1-1.4, PC-01, PC DUMP, CTS- 01, CV- 01C, SAG- F1, SAG, RC-01, CB SCRN ENG, WH Crush~~Units subject to 40 CFR 60~~
20.2.78 NMAC Emission Standards for HAPs	X	Entire Facility
20.2.82 NMAC MACT Standards for Source Categories of HAPS	X	Diesel Emergency Generators, Natural Gas Emergency Generator, LPG Emergency Generators, CB SCRN ENG, GDF1, GDF2, GDF3, GDF4, GDF5 ~~Units subject to 40 CFR 63~~
40 CFR 50 National Ambient Air Quality Standards	X	Entire Facility
40 CFR 60, Subpart A, General Provisions	X	Diesel Emergency Generators, Natural Gas Emergency Generator, LPG Emergency Generators, F-2-1-1.5, F-2-1-1.4, PC-01, PC DUMP, CTS-01, CV-01C, SAG-F1, SAG, RC-01, CB SCRN ENG, WH Crush ~~Entire Facility~~
40 CFR 60~~.40c, Subpart Dc~~, Subpart Dc, Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units	X	F-2-1-1.5 (HRSG)
40 CFR 60~~.330~~, Subpart GG, Standards of Performance for Stationary Gas Turbines	X	F-2-1-1.4 (Combustion Turbine)
40 CFR 60~~.380~~, Subpart LL, Standards of Performance for Metallic Mineral Processing Plants	X	PC-01, PC DUMP, CTS-01, CV-01CA~~, CV-01B, CV-01C~~, SAG~~-F1~~, SAG-F1~~-IC-01~~, RC-01~~-SCDP~~

Commented [ES3]: Chino proposes to add 20.2.78 NMAC as an applicable requirement since the facility is subject to Asbestos NESHAP under 40 CFR 61, Subpart M on occasion during demolition or renovation projects.

40 CFR 60~~.380~~, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants	X	WH Crush
40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	X	CB SCRN ENG~~, CH SCRN ENG (Screening Plant Engine)~~
40 CFR 61, Subpart M, National Emission Standard for Asbestos	X	Entire Facility
40 CFR 61, Subpart A, General Provisions	X	Entire Facility
40 CFR 63, Subpart A, General Provisions	X	Units subject to 40 CFR 63
40 CFR 63, Subpart CCCCCC, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	X	~~All GDFs~~GDF-1, GDF-2, GDF-3, GDF-4, and GDF-5

Table 103.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	X	CB SCRN ENG~~, CH SCRN ENG (Screening Plant Engine), ENG-1~~
40 CFR 82, Subpart F, Protection of Stratospheric Ozone, Service, Maintenance and Repair of Air Conditioners	X	Entire Facility

A104 Facility: Regulated Sources

A. Table 104.A lists the emission units authorized for this facility. Emission units identified as exempt activities (as defined in 20.2.72.202 NMAC) and/or equipment not regulated pursuant to the Act are not included.

Table 104.A: Regulated Sources List

Unit No.	Source Description	Make	Model	Serial No.	Construction/ Reconstruction Date	Manufacture Date	~~Manufacturer Rated Capacity /Permitted~~ Maximum Capacity
~~Chino/Cobre Mining Operations~~							
Chino/Cobre Mining Operations							
CM BLST	Chino Mine Blasting	N/A	N/A	N/A	Pre-1970~~N/A~~	N/A~~R~~	400,000 lbs ANFO/day; 52,000 tons ANFO/yr~~pounds per day of blasting agent~~
CM MH	Chino Mine Material Handling	N/A	N/A	N/A	Pre-1970~~N/A~~	N/A~~R~~	587,285,000** tons/yr~~Max daily 1,000,000 tons; Max annual 365 MMtons~~
CM HR	Chino Mine Haul Roads	N/A~~R~~	N/A	N/A~~R~~	Pre-1970~~N/A~~	N/A~~R~~	2,180,510,000 ton/yr ~~N/R~~
CBM BLST	Cobre Mine Blasting	N/A	N/A	N/A	2015~~N/A~~	N/A~~R~~	20~~11~~0,000 lbs ANFO/day; 26,000 tons ANFO/yr~~pounds per day of blasting agent~~

CBM MH	Cobre Mine Material Handling	N/A	N/A	N/A	2015~~N/A~~	N/A~~R~~	47,632,500* tons/yr ~~see condition A108~~
CBM HR	Cobre Mine Hauling	N/A	N/A	N/A	2015~~N/A~~	N/A~~R~~	128,115,000 ton/yr~~N/A~~
BORR_BLST	Cobre Haul Road Borrow Pit Blasting	N/A	N/A	N/A	TBD ~~2022~~	N/A	60 tons ANFO/yr; 29,925 lbs ANFO/blast ~~4 blasts per day at 29,925 pounds of blasting agent each~~

Table 104.A: Regulated Sources List

Unit No.	Source Description	Make	Model	Serial No.	Construction/ Reconstruction Date	Manufacture Date	Maximum ~~Manufacturer Rated Capacity /Permitted~~ Capacity
BORR_MH	Cobre Haul Road Borrow Pit Material Handling	N/A	N/A	N/A	TBD~~2022~~	N/A	350,000 tons/year
CM DRILL	Chino Mine Drilling	N/A	N/A	N/A	Pre-1970	N/A	23,095 holes/year
CBM DRILL	Cobre Mine Drilling	N/A	N/A	N/A	Pre-1970	N/A	8,418 holes/year
BDZR	Bulldozing	N/A	N/A`	N/A	Pre-1970	N/A	19 dozers; 8,760 hr/yr****
GRDR	Grading	N/A	N/A	N/A	Pre-1970	N/A	5 graders; 8,760 hr/yr****
Ivanhoe Copper Concentrating Circuit ~~Chino/Cobre Crushing and conveying~~							
PC DUMP	Primary Crusher Dump Pocket	N/A~~R~~	N/A~~R~~	N/A~~R~~	Post August 1982 ~~N/R~~	6/13/1981~~N/R~~	3,360 tons/hr
PC-01	Primary Crusher (PCBH-01 stack)	N/A~~R~~	N/A~~R~~	N/A~~R~~	~~6/13/1981~~Post August 1982	6/13/1981	3,360 tons/hr
CTS-01	Conveyor Transfer (beneath PC-01)	N/A ~~not reported~~	N/A ~~not reported~~	N/A ~~not reported~~	Post August 1982 ~~not reported~~	6/13/1981 ~~not reported~~	3,360 tons/hr ~~/~~
CV-01A	Coarse Ore Stockpile Conveyor Belt, Flight #1	N/A ~~not reported~~	N/A ~~not reported~~	N/A ~~not reported~~	Post August 1982~~6/13/1981~~	6/13/1981	3,360 tons/hr
CV-01B	Coarse Ore Stockpile Conveyor Belt, Flight #1	N/A ~~not reported~~	N/A ~~not reported~~	N/A ~~not reported~~	Post August 1982 ~~not reported~~	6/13/1981 ~~not reported~~	3,360 tons/hr
CV-01C	Coarse Ore Conveyer Transfer (between CV-01A and CV-01B)	N/A ~~not reported~~	N/A ~~not reported~~	N/A ~~not reported~~	Post August 1982 ~~not reported~~	6/13/1981 ~~not reported~~	3,360 tons/hr
SCDP	Stacker Conveyor Drop Point	N/A~~N/R~~	N/A	N/A~~N/R~~	Post August 1982~~N/R~~	6/13/1981~~N/R~~	3,360 tons/hr
~~Ivanhoe Concentrator~~							
SAG-F1 (IC- 04)	SAG Mill Feeder Conveyorss	N/A~~Concentrate Handling~~	N/A	N/A	~~6/13/1981~~Post August 1982	6/13/1981	3,300 tons/hr

Commented [ES4]: For purposes of clarification, Chino suggests that the heading of this column be changed to "Maximum Capacity." The Manufacturer Rated and Permitted Capacities can be equal to the Maximum Capacity (i.e., when requested allowable emissions are based on Manufacturer Rated Capacity or Maximum Capacity) or Permitted Capacity can be lower than Manufacturer's Rated Capacity (i.e., when requested allowable emissions are based on a capacity lower than Manufacturer Rated Capacity such the case when taking a production limit). Either way, the relevant capacity once the permit is issued is the Maximum Capacity of the unit or the Maximum Capacity due to limitations of the permit.

Table 104.A: Regulated Sources List

Unit No.	Source Description	Make	Model	Serial No.	Construction/ Reconstruction Date	Manufacture Date	Maximum Capacity
IOS	Wind Erosion from IOS	N/A	N/A	N/A	1981	N/A	2.6 acres
SAG	SAG Tunnel Conveyor Transfer (SAG-BH stack)	N/A	N/A	N/A	Post August 1982	1981	3,300 tons/hr
RC-01	Recycle Crushing (RCB-01 stack)	Metso Nordberg	Omnicone 1560	1560-160 SA	1992	1992	575 tons/hour
LHS-01 (IC-06)~~IC-01~~	Lime Handling System~~Molybdenum Plant~~	Lime Handling System - Ivanhoe Concentrator ~~Molybdenum Plant~~	N/A~~not reported~~	N/A~~not reported~~	6/6/19808~~/13/2001~~	6/6/19808~~/13/2001~~	46,428 tons/year~~not reported~~
LUS-01	Lime Unloading System	Lime Unloading System - Ivanhoe Concentrator	N/A	N/A	6/13/1981	6/13/1981	46,428 tons/year
FLOAT	Mill Building Floatation Agents	N/A	N/A	N/A	1981	N/A	6,180,500 lbs reagent/year
FLTR/BLND	Filter/Blending Plant	N/A	N/A	N/A	Pre-1990	N/A	788,400 dry tons/year
Chino/Cobre Tailings Impoundments							
CM TLNGS	Chino Mine Tailings Impoundment	N/A	N/A	N/A	Pre-1970	N/A	2611 acres
CB TLNGS	Cobre Mine Tailings Impoundment	N/A	N/A	N/A	Pre-1970	N/A	9 acres
BDZR TLGNS	Tailings Bulldozing	N/A	N/A	N/A	Pre-1970	N/A	7 dozers; 4,380 hr/yr****
GRDR TLGNS	Tailings Grading	N/A	N/A	N/A	Pre-1970	N/A	2 graders; 4,380 hr/yr****
Chino/Cobre Screening Plants							
WH Crush	Crusher	White House Crushing Plant	TBD	TBD	TBD	TBD	500 tons/hr
CB SCRN	Screening Material Handling	Chieftain Powerscreen	2100X	PID00124TDGC34711-2012	2012	March 2012	450 tons/hr
CB SCRN ENG	Screening Plant Diesel Engine	Caterpillar	C4.4 ATAAC-4 cylinders	BPKXL04.4N M1	After 6/12/06	2/2012	111 HP
Chino Power Plant Operations							

Table 104.A: Regulated Sources List

F-2-1-1.4	Westinghouse Gas Turbine	Westinghouse	W251B12	4658139	1/1/2000	1/1/2000	455 MMBtu/hr
F-2-1-1.5	Heat Recovery Steam Generator	HRSG w/duct burner	not reported	not reported	2000	2000	48.8 MMBtu/hr
Chino SXEW Operation							
SXEW Boiler No.1	SXEW Plant Water Boiler No.1	Lochinvar	CBL1257	H12H002426 05	1996	1996	1.255MMBtu/hr
Unit No.	**Source Description**	**Make**	**Model**	**Serial No.**	**Construction/ Reconstruction Date**	**Manufacture Date**	**Maximum Capacity**
SXEW Boiler No.2	SXEW Plant Water Boiler No.2	Lochinvar	CBL1257	H12H002426 04	1996	1996	1.255MMBtu/hr
SXEW Boiler No.3	SXEW Plant Water Boiler No.3	Weben-Jarco, Inc.	AJH140	AJH140.1067	1996	1/1/1996	1.4 MMBtu/hr
SXEW 8MST	SX/EW Plant Ten Mixer/settler Tanks	Mixer/Settler Tank	N/A	N/A	2000/2025	8/15/2000	6-36,900 sqft & 2-13,050 sqft
SXEW RT	SX/EW Plant Raffinate Tank	SX/EW Plant Raffinate Tank	N/A	N/A	2000	8/15/2000	5,024 sqft
SXEW SAT	SXEW Plant Acid Tankhouse	N/A	N/A	N/A	1988	1988	6,515 sqft (inlet) 1,760 sqft (outlet)
Gasoline Dispensing Facilities							
GDF-1	Crusher	Steel Tank Institute	N/A	15493	2011	Unknown	16,744 gal
GDF-2	Mill	Brown Tank and Steel	N/A	SPCC-CHN-006	1991	1991	10,200 gal
GDF-3	SXEW	Nogales Hwy Iron & Steel Inc.	N/A	772642	2025	Unknown	1,086 gal
GDF-4	Hurley	Brown Tank and Steel	N/A	SPCC-CHN-070	1991	1991	15,239 gal
GDF-5	Hamilton	Kohlhass Corporation	N/A	11727	2010	April 2010	4,001 gal
Emergency Fire Water Pump Engines							
Emergency Fire Pump	SXEW Fire Emergency Pump	John Deere	6068HF285K	PE6068N025875	May 2023	Unknown	197 hp Diesel
FWP01	Concentrator Fire Emergency Pump	Detroit Diesel	10447312	4A0252067	Aug 1981	Aug 1981	185 hp Diesel
Chino Evaporators							
EVAP 1	Evaporation System	Minetek	600/300	2407164928	8/20/2025	Nov 2024	36,000 GPH/ 315,360,000

Table 104.A: Regulated Sources List

							GPY
EVAP 2	Evaporation System	Minetek	600/300	2407164929	8/20/2025	Nov 2024	36,000 GPH/ 315,360,000 GPY
EVAP 3	Evaporation System	Minetek	600/300	2407164926	TBD	Nov-2024	36,000 GPH/ 315,360,000 GPY
EVAP 4	Evaporation System	Minetek	600/300	2407164927	TBD	Nov-2024	36,000 GPH/ 315,360,000 GPY

* Total annual amount from material handling is based upon 1,346,800 tons/yr Magnetite, 45,990,000 tons/yr from Hanover Mountain and Continental.
** Total annual amount of material handling is based upon 365,000,000 tons/yr loaded from the pit and unloaded at stockpiles, 127,750,000 tons/yr at Lampbright & North Lampbright, 109,500,000 tons/yr at South Waste, 36,500,000 tons/yr at West Waste, and 62,050,000 tons/yr at Crusher.
*** Total annual reagent usage is based upon 3,766,900 lb/yr QuadraFroth P-100, 718,500 lb/yr Nalco 9714, 319,400 lb/yr Cytec 7048, 472,600 lb/yr Magnafloc 10, 474,700 lb/yr 7310 Promoter, and 428,400 lb/yr Quadrafroth 222.
****Rated and permitted capacities are based on the number of units running at a given time.

~~**Table 104.A: Regulated Sources List**~~

~~1. All TBD (to be determined) units and like-kind engine replacements must be evaluated for applicability to NSPS and MACT requirements.~~

~~**A105 Facility: Control Methods**~~

~~A. Table 105.A lists all the pollution control methods required for this facility. Each emission point is identified by the same number that was assigned to it in the permit application.~~

~~**Table 105.A: Control Methods:**~~

Commented [ES6]: For purposes of clarification and permit organization, Chino proposes that, in lieu of this condition (A105.A) and its associated table (Table A105.A Control Methods), control method requirements be addressed in conditions that set forth the applicable requirements for each emissions unit. See proposed revisions in Conditions A605.C,D,E for requirements for Water Sprays, Wet Scrubbers, and Baghouse/Dust Collector respectively. See proposed revisions in Condition A112.A&B for haul road control requirements (control scenario and control measures).

Table 105.A: Control Methods:

Control Equipment Unit No.	Control Description	Pollutant being controlled	Control for Unit No.[1]
CSLU-01	Lime Unloading System Wet Scrubber	$PM/PM_{10}/PM_{2.5}$	LUS-01
CSLH-01	Lime Handling System Wet Scrubber	$PM/PM_{10}/PM_{2.5}$	LHS-01
RCB-01	Recycle Crusher Baghouse (no emissions to atmosphere; vents back into building)	$PM/PM_{10}/PM_{2.5}$	Recycle Crusher
CB SCRN	Water sprayers	$PM_{10}/PM_{2.5}$	CB SCRN
FLTR/BLND	Building Enclosure, 85%	$PM_{10}/PM_{2.5}$	FLTR/BLND
Dust Control Plan	Watered and treated by application of base course or other equally effective measures to control particulate emissions	$PM_{10}/PM_{2.5}$	CM HR, CM BLST, CBM HR (incls Magnetite Operation), CBM BLST
Haul Roads Scenario 1 & 2 Control	Control measures applied per Table 105.D	$PM_{10}/PM_{2.5}$	CBM HR & CM HR

1 Control for unit number refers to a unit number from the Regulated Equipment List

B. Wet Scrubber Monitoring

Requirement: Units IC-01, LUS-01, and LHS-01 shall be controlled by the wet scrubbers as required in Table 105.A.
Monitoring: Except for periods of monitoring system breakdowns, repairs, maintenance, and calibration checks, Permittee shall continuously monitor: (1) the differential pressure (inches of water) across the wet scrubbers via a differential pressure gauge; and (2) the water flow rate (gallons per minute) into the scrubber via a flow meter while the associated process equipment is operating. Monitoring devices shall be maintained in good operating condition.
Recordkeeping: The Permittee shall maintain records in accordance with Section B109.
Reporting: The Permittee shall report in accordance with Section B110.

C. Baghouse Monitoring

Requirement: Units PC-01 and Recycle Crusher RCB-01 shall be controlled by the baghouses in accordance with Table 105.A. SAG-BH flow capacity shall not exceed 24,000 acfm.
Monitoring: Except for periods of monitoring system breakdowns, repairs, maintenance, and calibration checks, Permittee shall continuously monitor the differential pressure (inches of water) across the baghouses with a differential pressure gauge while the associated process equipment is operating. Monitoring devices shall be maintained in good operating condition.
Recordkeeping: The Permittee shall maintain records in accordance with Section B109.
Reporting: The Permittee shall report in accordance with Section B110.

Commented [ES7]: As explained above, Chino proposes to also remove Table 105.A Control Methods and instead include control method requirements in the conditions that specify the applicable requirements for each emissions unit. In addition, Table 105.A includes erroneous references to emission units as control equipment units and lists control descriptions that do not apply to referenced units. In certain conditions that follow, Chino has proposed appropriate control method requirements for emission units where such controls were represented in the application as a part of estimating requested allowable emissions and requiring such control methods is therefore appropriate for purposes of demonstrating compliance with the associated allowable emission limits.

Commented [ES8]: Similarly, Chino proposes to incorporate these requirements in Section A605 for the Ivanhoe Copper Concentrating Circuit because they are the applicable air pollution control devices for copper concentrating related processes.

D. Haul Roads, Unit CBM HR and CM HR Control Scenarios 1 and 2: The permittee shall meet control scenarios 1 and 2 for the applicable mining scenario, daily throughput limits, and associated control scenarios are listed in Table 105.D1 & D2.

Table 105.D1. Control Scenario 1 (Cobre Haul Roads)

Mining Scenario	Maximum Throughput (tons/day)	Control Efficiency[1] (%)
Total Material	126,000	96.8
(SWRDF stockpile)	40,000	88.8
Chino (Ore)	86,000	96.8

[1] Control efficiencies are derived from a combination of controls. A control efficiency of 88.8% is based on a combination of base course treatment, blading, and watering with a maximum speed limit of 35 miles/hour. A control efficiency of 96.8% is based on a combination of base course treatment, blading, watering, and a dust suppressant. These control efficiencies are based on factors from the Western Regional Air Partnership (WRAP) Fugitive Dust Handbook, published September 7, 2006.

Blasting at both Hanover Mountain and Santa Rita Pit are limited to occur up to four times per day during daylight hours only. Permit 0298-M10 authorizes increases in the emissions and throughputs associated with the haul roads, material handling, and screening plant operations in the new Control Scenario 2 (See Table 105.D2 below).

Table 105.D2 Control Scenario 2 (Chino-Cobre Haul Roads)

Haul Road	Maximum Throughput (tons/day)	Control Efficiency[1] (%)
Cobre Haul Roads		
Hanover Mountain Road	126,000	96.8
SWRDF Road	75,000	88.8
Cobre Haul Road	66,000	96.8
NOBS	46,000	88.8
Magnetite	4,500	88.8
Chino Haul Roads		
Maintenance Entrance Road	100,000	88.8
Muffler Road	100,000	88.8
South Stockpile Road	100,000	88.8
3A/9 Dam	100,000	88.8
West Stockpile	100,000	88.8
Café to Lampbright	160,000	88.8
LBX Road	160,000	88.8
Upper Lampbright	160,000	88.8
Lower Lampbright	160,000	88.8
Crusher/Stockpiles/Rehandle	100,000	88.8
Roundabout	100,000	88.8
Princess Ramp/Lee Hill Road	66,000	88.8

[1] Control efficiencies are derived from a combination of controls. A control efficiency of 88.8% is based on a combination of base course treatment, blading, and watering with a maximum speed limit of 35 miles/hour. A control efficiency of 96.8% is based on a combination of base course treatment, blading, watering, and a dust suppressant. These control efficiencies are based on factors from the Western Regional Air Partnership (WRAP) Fugitive Dust Handbook, published September 7, 2006.

Commented [ES9]: Chino proposes to delete this condition because relevant throughput limits and control measures (used in estimating requested allowable emissions in the application) are set forth as requirements in specific conditions A112.A and A112.B for purposes of demonstrating compliance with allowable emissions limits.

Commented [ES10]: Chino proposes to delete this statement. Daily blasting limit requirements are now included in blasting conditions A606.A (CM BLST) and A606.B (CBM BLST).

Commented [ES11]: Chino proposes to delete this sentence, which is an explanatory statement that should have been included in the Statement of Basis for Permit 0298-M10.

Commented [ES12]: Chino proposes to delete Table A105.D2 and include the throughput limit requirements for the operating scenarios in one table in Condition A112.A (see proposed revisions in Condition A112.A Chino and Cobre Haul Roads (Units CM HR, CBM HR). Chino proposes to include the control measure requirements for the operating scenarios in specific condition A112.B.

~~E. In addition to the pre-existing Control Scenarios 1 & 2, a borrow pit is to be constructed near the Cobre Haul Road. Four one-time blasts per day will be conducted to construct the pit, the blast shall occur during daylight hours from 0900 hrs to 1500 hrs and shall not occur simultaneously as blasting at either Hanover Mountain or the Santa Rita Pit. Furthermore, these blasts and associated material handling shall not interfere with any other operations at the facility.~~

Commented [ES13]: Chino proposes to delete this description of blasting operations at the borrow pit. These blasting limitations are addressed in specific condition A606.C.

A106 Facility: Allowable Emissions

A. The following Section lists the emission units and their allowable emission limits. (See applicable requirements in Table 103.A).

Table 106.A: Allowable Emissions (Non-fugitive emissions~~Stack emissions~~ are italicized~~highlighted in red text~~ for PSD and Title V major source determination purposes~~PSD applicability~~)

Commented [ES14]: Chino proposes to replace the reference to "stack" emissions with "non-fugitive" emissions. Chino also proposes to distinguish non-fugitive emissions by placing in italics instead of highlighting in red because red text can get lost in copies. Lastly, Chino proposes to replace "PSD applicability" with "PSD and Title V major source determination proposes."

Unit No.	NO_x (pph)	[1]NO_x (tpy)	CO (pph)	CO (tpy)	VOC (pph)	VOC (tpy)	SO_2 (pph)	SO_2 (tpy)	PM_{10} (pph)	PM_{10} (tpy)	$PM_{2.5}$ (pph)	$PM_{2.5}$ (tpy)
Chino/Cobre Mining Operations												
CM BLST	*	46.8	*	1056.6			*	<	**	88.7270.1	**	5.124.0
CM MH	-	-	-	-	-	-	-	-	1.520.88	6.663.85	<0.13	1.000.58
CM HR	-	-	-	-	-	-	-	-	362.5482.8	2,761.354088.7	36.2528.3	276.14408.9
CM DRILL	-	-	-	-	-	-	-	-	7.80	9.01	1.40	1.62
CBM BLST	**	23.4012.9	**	528.32290.6	--	--	**	0.05<	**	41.737.3	**	2.411.0
CBM MH	-	-	-	-	-	-	-	-	<	<	<	<
CBM HR	-	-	-	-	-	-	-	-	19.544.18	96.51207.5	1.954.42	9.6520.75
CBM DRILL	-	-	-	-	-	-	-	-	7.02	3.28	1.26	0.59
BORR_BLST	*	<	*	1.2	-	-	*	<	*	<	*	<
BORR_MH	-	-	-	-	-	-	-	-	<	<	<	<
BDZRLmSlk	-	-	-	-	-	-	-	-	8.31.3	36.350.17	5.090.19	22.280.03
GRDRENG 1	5.4	4.1	1.2	0.88	0.44	0.33	0.36	0.27	3.8380.38	16.750.29	<0.38	1.520.29
Chino/Cobre Crushing and ConveyingIvanhoe Copper Concentrating Circuit												
PC DUMP	-	-	-	-	-	-	-	-	<	<	<	<
PC-01 [3]	-	-	-	-	-	-	-	-	2.2	9.5	2.2	9.5
SCDP [2]	-	-	-	-	-	-	-	-	<	<	<	<
CV-01C	-	-	-	-	-	-	-	-	<	2.4	<	<
Ivanhoe Concentrator												
SAG-F1 (IC-04)	-	-	-	-	-	-	-	-	<	2.4	<	<
IOS	-	-	-	-	-	-	-	-	≤	≤	≤	≤
SAGIC-01	-	-	-	-	-	-	-	-	<	4.251.4	<	1.42.03
RC-01	-	-	-	-	-	-	-	-	≤	≤	≤	≤
LHS-01 (IC-06)	-	-	-	-	-	-	-	-	<	<	<	<

LUS-01	-	-	-	-	-	-	-	-	<	<	<	<
~~Filter/Blending Plant~~												
FLTR/BLND [4]	-	-	-	-	-	-	-	-	<	<	<	<
Chino/Cobre Tailings Impoundments												
CB TLNGS	-	-	-	-	-	-	-	-	≤	≤	≤	≤
CM TLNGS	-	-	-	-	-	-	-	-	58.44	255.97	8.77	38.40
BDZR TLNGS	-	-	-	-	-	-	-	-	3.06	6.70	1.87	4.10
GRDR TLNGS	-	-	-	-	-	-	-	-	1.53	3.35	≤	≤
Chino/Cobre Screening Operations												
WH Crush									34.48	75.51	6.2	13.57
CB SCRN	-	-	-	-	-	-	-	-	1.51	3.30	≤	≤
CB SCRN ENG	1.2	2.5	1.0	2.2	0.5	1.1	≤	≤	≤	1.0	≤	1.0
Chino SXEW Operation												
SXEW Boiler No.1	≤	≤	≤	≤	≤	≤	≤	≤	≤	≤	≤	≤
SXEW Boiler No.2	≤	≤	≤	≤	≤	≤	≤	≤	≤	≤	≤	≤
Unit No.	**NO_x (pph)**	**[1] NO_x (tpy)**	**CO (pph)**	**CO (tpy)**	**VOC (pph)**	**VOC (tpy)**	**SO_2 (pph)**	**SO_2 (tpy)**	**PM_{10} (pph)**	**PM_{10} (tpy)**	**$PM_{2.5}$ (pph)**	**$PM_{2.5}$ (tpy)**
Chino SXEW Operations												
SXEW Boiler No.3	≤	≤	≤	≤	≤	≤	≤	≤	≤	≤	≤	≤
SXEW 8MST	-	-	-	-	≤	1.44	-	-	-	-	-	-
SXEW RT	-	-	-	-	≤	≤	-	-	-	-	-	-
SXEW SAT	-	-	-	-	-	-	-	-	2.3	10		
Chino Power Plant Operations												
F-2-1-1.4	39.9	174.8	20.0	87.6	2.8	12.3	≤	1.8	2.3	10.1	2.3	10.1
F-2-1-1.5	2.4	10.5	1.3	5.7	≤	2.6	≤	≤	≤	1.3	≤	1.3
Gasoline Dispensing Facilities												
GDF-1	-	-	-	-	≤	4.04	-	-	-	-	-	-
GDF-2	-	-	-	-	≤	2.20	-	-	-	-	-	-
GDF-3	-	-	-	-	≤	≤	-	-	-	-	-	-
GDF-4	-	-	-	-	≤	3.01	-	-	-	-	-	-
GDF-5	-	-	-	-	≤	1.07	-	-	-	-	-	-
Evaporators												
EVAP1	-	-	-	-	-	-	-	-	≤	1.86	≤	≤
EVAP2	-	-	-	-	-	-	-	-	≤	1.86	≤	≤
EVAP3	-	-	-	-	-	-	-	-	≤	1.86	≤	≤
EVAP4	-	-	-	-	-	-	-	-	≤	1.86	≤	≤

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO2.
2 Unit SCDP includes emissions from CV-01A Flight 1 and CV-01B Flight B.
3 Unit PC-01 includes emissions from CTS-01.
4 Unit FLTR/BLND includes emissions from Units CV-01-53, CV-02-53, CV-03, CV-04, CV-05, CV-06, and F- 1-3-2
5 For Title V facilities, the Title V annual fee assessments are based on the sum of allowable tons per year emission limits in Sections A106 and A107.

6 To report excess emissions for sources with no pound per hour and/or ton per year emission limits, see condition (B110.E in the Title V permit and B110.F in the NSR permit).

"-" indicates the application represented emissions of this pollutant are not expected.

"<" indicates the application represented uncontrolled emissions are less than 1.0 pph or 1.0 tpy for this pollutant, therefore allowable limits are not imposed on this level of emissions. Allowable limits shall be established for all flares and all pollutants with controls.

"*" indicates hourly emission limits are not appropriate for this operating situation.

Table 106.A: Allowable Emissions (Stack emissions are highlighted in red text for PSD applicability)

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO_2.

2 Unit SCDP includes emissions from CV-01A Flight 1 and CV-01B Flight B.

3 Unit PC-01 includes emissions from CTS-01.

4 Unit FLTR/BLND includes emissions from Units CV-01-53, CV-02-53, CV-03, CV-04, CV-05, CV-06, and F-1-3-2

5 For Title V facilities, the Title V annual fee assessments are based on the sum of allowable tons per year emission limits in Sections A106 and A107.

6 To report excess emissions for sources with no pound per hour and/or ton per year emission limits, see condition (B110.E in the Title V permit and B110.F in the NSR permit).

" " indicates the application represented emissions of this pollutant are not expected.

"<" indicates the application represented uncontrolled emissions are less than 1.0 pph or 1.0 tpy for this pollutant, therefore allowable limits are not imposed on this level of emissions. Allowable limits shall be established for all flares and all pollutants with controls.

"*" indicates hourly emission limits are not appropriate for this operating situation.

Table 106.B: Performance Standards for Ivanhoe Concentrator Equipment (40 CFR 60, Subpart LL)

Unit	Grain Loading	Opacity
Molybdenum Plant (electric heat, w/ wet scrubber)	0.05 grams/DSCM (0.02 grains/dscf)	NA
PCB H-01 (Primary crusher baghouse)	0.05 grams/DSCM (0.02 grains/dscf)	7%
(CTS-01) Conveyer Transfer systems	NA	10%
SAG F1 Mill Feeders	NA	10%

Note: 1 grain/cu ft = 2.29 grams/cu meter

C. Unit F-2-1-1.4, nitrogen dioxide emissions shall not exceed 184 ppmv at 15 percent oxygen and on a dry basis. (40 CFR 60, Subpart GG)

D. SO_2 emissions from the turbine (Unit F-2-1-1.4) shall not exceed 0.015 percent by volume at 15 percent oxygen on a dry basis or shall not burn fuel which contains sulfur in excess of 0.8 percent by weight (8000 ppmw). (40 CFR 60.333)

E. Facility-wide PM Emissions

Requirement: The permit application specifies the annual facility wide Particulate Matter (PM) Potential To Emit (PTE) to be 17,641.2 tons per year (TPY). The permittee shall monitor, keep records, and report Total Annual PM emissions as required by this condition. (20.2.73.300.B(4) NMAC).

Monitoring: The permittee shall monitor the total facility wide PM annual emissions and shall acquire and maintain the monthly data of PM emissions, including:

1) For equipment with non-fugitive emissions, based on through-put or hours operated and emission factors.
2) For fugitive PM emissions, based on material handling and/or haul road traffic.

Recordkeeping:

1) Annually, the permittee shall calculate and maintain records of the calendar-year, facility-wide total PM annual emissions.
2) The permittee shall maintain records of the acquired monthly data needed to calculate PM emissions. If requested by the Department, the permittee shall generate a monthly rolling 12-month tpy of PM emissions for each month since the last annual facility-wide total PM emission report.
3) Records shall be maintained in accordance with Section B109.

Reporting: The Permittee shall report in accordance with Section B110.

Commented [ES15]: Chino proposes to remove Table 106.B and incorporate applicable NSPS requirements under 40 CFR Part 60, Subpart LL to revised Condition A605.F and associated Table A605.F.

Commented [ES16]: Chino proposes to remove this condition and incorporate this NSPS requirement under 40 CFR Part 60, Subpart GG as part of Condition A601.C.

Commented [ES17]: Similarly, Chino proposes to remove this condition and incorporate the NSPS requirement under 40 CFR Part 60, Subpart GG as part of Condition A601.C.

Commented [ES18]: Chino proposes to remove Condition A106.D Facility-wide PM emissions. Per 20.2.73.300 NMAC, Chino is subject to annual emission inventory requirements (20.2.73.300.B(4) NMAC), which require the reporting of estimated actual emissions, including fugitive emissions, of total suspended particulate, PM10, and PM2.5 in addition to other pollutants. Chino proposes that NMED include an emission inventory reporting requirement in the general conditions, similar to Condition B110.I of Chino's Title V Permit (P066R3).

A107 Facility: Allowable Startup, Shutdown, & Maintenance (SSM)

~~A.~~ Separate allowable SSM emission limits are not required for this facility since the SSM emissions are predicted to be less than the limits established in Table 106A. The permittee shall maintain records in accordance with Condition B109.C.

A.

A108 Facility: Allowable Operations

A. This facility is authorized for continuous operation unless otherwise limited by conditions in this permit.

B. Cobre Mine ~~Throughput~~ Material Handling Rate (Unit CBM MH)

Requirement:~~:~~ ~~Emission limits and the PSD minor source status of this facility were established by limiting the total material handling at the Cobre Mine and the Continental/Hanover Mining at the Cobre Mine~~. To demonstrate that uncontrolled particulate matter emissions are less than 1.0 pph and 1.0 tpy as represented in Table 106.A, Permittee shall comply with the following material handling rates:~~Compliance with the allowable particulate emission limits in Table 106.A shall be demonstrated through adherence to the following production limits:~~

(1) The total magnetite material handlinging~~ing~~ rate ~~of magnetite~~ at the Cobre Mine shall not exceed 4,500 tons per day and 1,971346,0800 tons per year.

~~(1) at the Cobre Mine per day~~

(2) The total ore/waste rock material handling rate ~~of~~ ~~Continental/Hanover Mining~~ at the Cobre Mine shall not exceed ~~the production limit of~~ 126,000 tons per day and 45,990,000 tons per year. This includes loading up to 126,000 tons per day at Hanover Pit and unloading up to 75,000 tons per day at Cobre Mine. Material mined that is not unloaded at Cobre Mine is unloaded at Chino Mine.

~~(2)~~

~~(3) These operations are authorized to operate 24 hours per day. This production rates were specified in the permit application and is the basis for the Department's modeling analysis to determine compliance with the applicable ambient air quality standards.~~

Monitoring: The Permittee shall monitor the following:

(1) daily magnetite material handling ~~process~~ rate~~s of ore/waste rock~~ at the Cobre Mine ~~while the process is in operation~~;~~,~~

~~daily hours of magnetite handling occurring at the Cobre Mine; and~~

(2) daily ore/waste rock material handling rate at the ~~the Cobre~~Cobre Mine.

Recordkeeping: ~~The Permittee shall produce production records upon request. The records shall be computer generated or hand written summaries supported by the data.~~

~~When requested, the Permittee shall produce a record of each process that includes:~~ The Permittee shall keep records of the following:

(1) total magnetite material handled per day at the Cobre~~hino~~ Mine;~~the date,~~:

Commented [ES19]: Chino proposes to remove this statement from Condition A108.B. Uncontrolled emissions from the Cobre Mine Material Handling emission unit are less than 1 lb/hr and 1 ton/year and limiting the material handling rate at the Cobre Mine was not necessary to establish Chino as PSD minor source.

Commented [ES20]: Although emission rates for Unit CBM MH (Cobre Mine Material Handling) are less than the 1 lb/hr and 1 ton/year thresholds for establishing allowable emissions limits, Chino proposes that Condition A108.B set forth material handling rate limit requirements (based on material handling rates used in calculating requested allowable emissions) to demonstrate that uncontrolled emissions are less than 1 lb/hr and 1 ton/year.

Commented [ES21]: Chino proposes to revise condition A108.B requirements by identifying the type of material handled and clarifying what is meant by "material handling". For the Cobre Mine Material Handling emission unit, material handling means the amount of material (magnetite/ore/waste rock) loaded at the Cobre Mine (including magnetite operation) and unloaded at stockpiles at the Cobre Mine (or magnetite trucks).

Commented [ES22]: Chino proposes to add monitoring requirements that require Chino to demonstrate compliance with the material handling rate limits for both magnetite and ore/waste rock at the Cobre Mine. Limiting the hours of operation for the magnetite operation is not required to ensure emissions do not exceed 1 pph and 1 tpy. Requested allowable hourly emissions are based on the maximum throughput of 450 tph and annual emissions are based on the annual throughput rate. Only daily throughput (4500 tons/day) depends on 10 hrs/day of operation. Chino proposes to remove the requirement to monitor and record the daily hours of magnetite material handling at the Cobre Mine.

~~(1) total hours of magnetite handling occurring per day at the Chino Mine;~~

~~a record of the daily production total~~the daily total ore/waste rock~~, quartzite, and magnetite material handling rate~~ handled per day at the Cobre Mine;~~;~~

(2) ~~hours of operation~~

~~(3) within 15 days following the end of each calendar month, during the first 12 months of monitoring, the permittee shall calculate of the cumulative production total;~~, and

~~(4)~~(3) ~~after the first 12 months of monitoring, the permittee shall~~ calculate ~~and record~~ the monthly rolling 12- month ~~production total~~ total ore/waste rock and magnetite material handling rates within 15 days following the end of ~~the~~each calendar month.

Reporting: The Permittee shall maintain the ability to generate a report from the information collected. This report shall be generated upon request.

The Permittee shall report in accordance with Section B110.

Commented [ES23]: Chino proposes to add recordkeeping requirements that correspond to proposed monitoring requirements above.

Commented [ES24]: Chino proposes to delete this recordkeeping requirement since monitoring has been conducted for more than 12 months.

~~Table 108.B, Maximum Cobre Mine Throughput Limits~~

	~~Control Scenario 1~~
~~Total material~~	~~126,000 TPD~~
~~SWRDF stockpile~~	~~40,000 TPD~~
~~Chino (Ore)~~	~~86,000 TPD~~

Commented [ES25]: Chino proposes to remove Table 108.B. These Control Scenario 1 limits apply to haul roads and are addressed in Condition A112.A..

C. Chino Mine ~~Throughput~~Material Handling Rates: ~~– Copper Ore Production Limits~~ (Unit CM MH)

Requirement: ~~Multiple emission limits and the PSD minor source status of this facility were established by limiting the coper ore production of this facility.~~ To demonstrate c~~C~~ompliance with ~~permitted~~ allowable emission limits in Table 106.A, the Permittee shall ~~be demonstrated by~~ not exceed~~ing~~ the following ~~maximum mine~~ material handling rates:~~throughput limits of~~

~~(~~(1) The total ore/waste rock loaded at the Chino pit shall not exceed the material handling rate of 1,000,000 tons per day ~~mined from the Santa Rita Pit~~ and unloaded ~~delivered at to s~~Stockpiles.

(2) The total ore/waste rock unloaded at each stockpile shall not exceed the following material handling rates:

Stockpile	**Ore/Waste Rock Material Handling Rate**
North Lampbright	160,000 tons/day
Lampbright	311,000 tons/day
South	300,000 tons/day
West	100,000 tons/day
Crusher/Storage Pile	170,000 tons/day
3A	100,000 tons/day
Cloud 9	100,000 tons/day
Kessel	160,000 tons/day

~~This operation is authorized to operate 24 hours per day. This production rate (tons/day) was specified in the permit application and is the basis for the Department's modeling analysis to determine compliance with the applicable ambient air quality standards.~~

Commented [ES26]: Similar to the proposed changes to Condition A108.B above, Chino proposes to revise Condition A108.C to require the Permittee to limit material handling rates to demonstrate compliance with allowable emission limits for unit CM MH since these material handling rates were used in estimating requested allowable emission rates that became the allowable emission limits for this emissions unit. In addition, emissions from material handling are fugitive and therefore would not be included for purposes of a PSD major source determination. Accordingly, limiting material handling rates is not necessary to maintain Chino's PSD minor source status.

Monitoring: The Permittee shall monitor the ~~amount of material mined~~ daily material handling rate of ore/waste rock loaded at ~~from the~~ the Santa Rita Pit and unloaded ~~delivered~~ to each Stockpile~~, on a daily rolling 365-day total basis.~~

Recordkeeping: ~~The Permittee shall maintain the ability to produce production records upon request. The records can be computer generated or hand written summaries supported by the data.~~

~~When requested, the Permittee shall produce a record that includes the emission activity name, date, and:~~

The Permittee shall keep records of the following:~~a record of the date,~~

(1) ~~the~~ daily material handling rate of ore/waste rock loaded at the Chino pit and unloaded at each stockpile~~production rate;~~,

~~(2) during the first 365 days of monitoring, the permittee shall calculate a daily rolling 365-day total of production rate, within 15 days following the end of theeach calendar month,~~

~~(3)~~(2) ~~after the first 365 days of monitoring, a record of the~~ daily rolling 12-month 365-day

total ~~production rate~~material handling rate, recorded within 15 days following the end of ~~the~~each calendar month.
Reporting: The Permittee shall maintain the ability to generate a report from the information collected. This report shall be generated upon request. The Permittee shall report in accordance with Section B110.

D. Cobre Haul Road Borrow Pit Material Handling (Unit BORR_MH)

Requirement: ~~Emission limits and the PSD minor source status of this facility were established by limiting the total material handling at the Cobre Mine and the Continental/Hanover Mining at the Cobre Mine and the Borrow Pit~~. To demonstrate c~~C~~ompliance with the allowable ~~particulate~~ emission limits in Table 106.A, the Permittee shall not exceed the following road base material handling rates: (1) 959 tons per day of road base loaded at the Cobre Haul Road Borrow Pit and unloaded for haul road repairs. 350,000 tons per year loaded at the Cobre Haul Road Borrow Pit and unloaded for haul road repairs. ~~be demonstrated through adherence to the following production limits:~~ ~~(1) The total material handling at the Cobre Haul Road Borrow Pit shall not exceed 959 tons per day and 350,000 tons per year.~~ (2) ~~This operation is authorized to operate 24 hours per day and 365 days per year. This production rates were specified in the permit application and is the basis for the Department's~~
Monitoring: The Permittee shall monitor the daily material handling rate of road base loaded at the Cobre Haul Road Borrow Pit and unloaded for haul road repairs.
Recordkeeping: The Permittee shall keep records of the following:- ~~the date.~~ (1) ~~the~~ daily material handling rate of road base loaded at the Cobre Haul Road Borrow Pi~~u~~t and unloaded for haul road repairs;~~,~~ (2) ~~each month, road base material handling rate, within 15 days of the end of the~~each calendar ~~month;~~calculate~~calculate and~~d ~~monthly rolling 12- month production tota~~road base material handling rate~~l~~ within 15 days of the end of ~~the~~each calendar month.
Reporting: The Permittee shall maintain the ability to generate a report from the information collected. This report shall be generated upon request. The Permittee shall report in accordance with Section B110.

Commented [ES27]: Chino proposes to revise this condition by updating the requirement language and formatting the monitoring and recordkeeping requirements similarly to the conditions above for the other material handling emission units (CBM MH and CM MH).

E. Bulldozing Operations (BDZR)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A, the Permittee shall limit the number of bulldozers operating at once to 19 dozers and limit the collective hours of operation for all bulldozers to 166,440 hours per year.
Monitoring: The Permittee shall monitor: (1) The number of bulldozers operating each day; (2) Daily operating hours of each bulldozer.
Recordkeeping: The Permittee shall keep records of the following: (1) The number of bulldozers operating each day; (2) Daily hours of operation of all bulldozers; (3) During the first 12 months of monitoring, the permittee shall calculate the cumulative hours of operation total within the first fifteen days of each month; (3) after the first 12 months of monitoring, the permittee shall record the monthly rolling 12-month total hours of operation within the first fifteen days of each month.
Reporting: The Permittee shall report in accordance with Section B110.

F. Grading Operations (Unit GRDR)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A, the Permittee shall limit the number of graders operating at once to 5 graders and limit the collective hours of operation for all graders to 43,800 hours per year.
Monitoring: The Permittee shall monitor: (1) The number of graders operating each day; (2) Daily operating hours of each grader.
Recordkeeping: The Permittee shall keep records of the following: (1) The number of graders operating each day; (2) Daily hours of operation of all graders; (2) During the first 12 months of monitoring, the permittee shall calculate the cumulative hours of operation total within the first fifteen days of each month; (3) after the first 12 months of monitoring, the permittee shall record the monthly rolling 12-month total hours of operation within the first fifteen days of each month.
Reporting: The Permittee shall report in accordance with Section B110.
~~modeling analysis to determine compliance with the applicable ambient air quality standards.~~
~~**Monitoring:** The Permittee shall monitor the daily process rates of the Cobre Haul Road Borrow Pit while the process is in operation.~~

Commented [ES28]: Chino proposes new Conditions A108.E and A108.F for new emission units BDZR and GRDR, respectively. Requested allowable emission rates were based on collective hours of operation of all pieces of equipment.

~~**Recordkeeping:** The Permittee shall produce production records upon request. The records shall be computer generated or hand written summaries supported by the data.~~ ~~When requested, the Permittee shall produce a record of each process that includes:~~ ~~(1) the date:~~ ~~(2) a record of the daily production total,~~ ~~(3) each month, during the first 12 months of monitoring, the permittee shall calculate the cumulative production total, and~~ ~~(4) after the first 12 months of monitoring, the permittee shall record the monthly rolling 12 month production total.~~
~~**Reporting:** The Permittee shall maintain the ability to generate a report from the information collected. This report shall be generated upon request.~~ ~~The Permittee shall report in accordance with Section B110.~~

A109 Facility: Reporting Schedules

A. The permittee shall report according to the Specific Conditions and General Conditions of this permit.

A110 Facility: Fuel and Fuel Sulfur Requirements

A. Facility Wide Fuel and Fuel Sulfur Limits (Unit ~~s ENG-1,~~ CB SCRN ENG~~) and CH SCRN ENG)~~

Commented [ES29]: Chino proposes to remove units ENG-1 and CH SCRN ENG from this condition. This revision removes ENG-1 and CH SCRN ENG from the permit.

Requirement: The generator~~s~~ (Unit~~s ENG-1,~~ CB SCRN ENG~~) and CH SCRN ENG)~~ shall combust only low sulfur diesel fuel. The sulfur content of the fuel oil shall not exceed 0.05% sulfur by weight.
Monitoring: None. Compliance is demonstrated through records.
Recordkeeping: The Permittee shall demonstrate compliance with the ~~natural gas or fuel oil~~ limit on total sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract, or vendor certification for the gaseous or liquid fuel, or fuel gas analysis, specifying the allowable sulfur content or less. Alternatively, compliance may be demonstrated by keeping a receipt or invoice from a commercial fuel supplier, with each fuel delivery, which shall include the delivery date, the fuel type delivered, the amount of fuel delivered, and the maximum sulfur content of the fuel. If fuel gas analysis is used, the analysis shall not be older than one year.
Reporting: The Permittee shall report in accordance with Section B110.

~~A~~A111 Facility: 20.2.61 NMAC Opacity

A. ~~A.~~ 20.2.61 NMAC Opacity Requirements (Units SXEW Boilers 1, 2, 3- Propane fired; F-2-1- 1.4 and F-2-1-1.5; ~~ENG-1,~~ CB SCRN ENG ~~and CH SCRN ENG~~)

Requirement: Visible emissions from the stationary combustion equipment listed in this condition shall not equal or exceed an opacity of 20 percent in accordance with the requirements at 20.2.61.109 NMAC. (1) Units F-2-1-1.4 and F-2-1-1.5 shall combust only natural gas. (2) Units SXEW Boilers 1, 2, 3- Propane fired. (3) Units ~~ENG-1,~~ CB SCRN ENG ~~and CH SCRN ENG~~ shall combust only diesel fuel.
Monitoring: When burning fuel other than natural gas or natural gas liquids in the stationary combustion equipment, the Permittee shall conduct opacity measurements on a quarterly basis. When burning any fuel in the stationary combustion equipment, the Permittee shall, to the extent practicable, conduct an opacity measurement when any visible emissions are observed that appear to exceed the 20 percent opacity standard on an instantaneous basis. Upon observing such visible emissions, the Permittee may instead elect to shut down the equipment (as soon as practicable, but no later than 1 hour after observing such visible emissions) to conduct an inspection and perform any maintenance or repairs. After completion of any such inspection, maintenance, or repairs, the Permittee shall conduct an opacity measurement following startup of the equipment. Opacity measurements shall be conducted over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Reference Method 9 (EPA Method 9) as required by 20.2.61.114 NMAC.
Recordkeeping: The Permittee shall maintain records in accordance with Section B109 of the following: (1) Dates and duration of any fuels used other than natural gas or natural gas liquids in the stationary combustion equipment; and (2) Each opacity measurement conducted in accordance with the requirements of EPA Method 9 using the form referenced in EPA Method 9, Sections 2.2 and 2.4.
Reporting: The permittee shall report in accordance with Section B110.

Commented [ES30]: Chino proposes to remove units ENG-1 and CH SCRN ENG from this condition. Units are removed by this permit revision.

A112 Facility: Haul Roads

A. Haul Road Throughput Chino and ~~s~~ Cobre Mine (Units CM HR, ~~C~~BM HR)

Commented [ES31]: Chino proposes to combine previous conditions A112.A and A112.B into condition A112.A that limits the throughput of ore/waste rock on Chino and Cobre Mine haul roads. Chino also proposes to combine control scenarios (previously Tables A105.D1 and A105.D2) into one table (Table A112.A1) and relocate the tables to the specific condition A112.A.

Requirement: To demonstrate ~~Based on the throughputs associated with the haul roads in Control Scenario 2 shown in Table 105.D.2, the fugitive emissions of PM_{10}, and $PM_{2.5}$ from all vehicles travelling on haul roads (Haul Roads means all unpaved roads within the property boundary) at the Cobre Mine shall not exceed the tons per year limits established in Table 106.A on a monthly rolling 12-month total basis. c~~Compliance with the allowable ~~particulate~~ emissions limits in Table 106.A, Permittee shall ~~be demonstrated~~ limit the throughput (material hauled) of ore/waste rock on the Chino and ~~-~~Cobre Haul Roads listed in Table A112.A1 below. ~~by calculating emissions using vehicle miles travelled, applicable control factors, and emission factors from AP-42. This operation is authorized to operate 24-hours per day.~~

~~The Permittee is not required to modify this permit for minor or temporary changes in road~~

Table A112.A1: Chino and Cobre Haul Roads

Chino and Cobre Haul Roads	Operating Scenario 1	Operating Scenario 2
Haul Road	Maximum Throughput (tons/day)	Maximum Throughput (tons/day)
Hanover Mountain Road	126,000	
SWRDF Road	40,000	75,000
Cobre Haul Road	86,000	66,000
Maintenance Entrance Road	100,000	
Muffler Road	100,000	
South Stockpile Road	100,000	
3A/9 Dam Road	100,000	
West Stockpile Road	100,000	
Café to Lampbright Road	175,000	
North Lampbright	160,000	
Upper Lampbright Road	160,000	
Lower Lampbright	160,000	
Crusher/Stockpiles Road	100,000	
Princess Ramp/Lee Hill Road	100,000	
Kessel Stockpile Road	160,000	

The Permittee is not required to modify this permit for minor or temporary changes in road location as long as the change neither causes nor contributes to any exceedances of applicable air quality standards and does not increase road emissions listed in Table 106.A. Based on modeling analysis, it has been determined that changes made more than ¼ mile from the fence line neither causes nor contributes to any exceedance of applicable air quality standards and therefore an update to the model for these changes pursuant to Section B101 of this permit is not required to be submitted. The standards relevant to the haul roads are NAAQS for PM_{10} and $PM_{2.5}$; and Class I and Class II PSD increments for PM_{10} and $PM_{2.5}$.

Monitoring: The Permittee shall monitor the daily throughput (tons of ore/waste rock per day) hauled on each section of haul road listed in Table A112.A1.

Recordkeeping: The Permittee shall keep records of the following:

(1) the operating scenario used at the Cobre and Chino Mines;

(2) daily throughput rate (tons of ore/waste rock per day) hauled on each section of haul road listed in Table A112.A1,

Commented [ES32]: Chino proposes to replace the requirement to demonstrate compliance with allowable emission limits by calculating actual emissions using vehicle miles travelled with a requirement to limit throughput (i.e., material hauled), which was used to calculate requested allowable emissions that were in turn used to establish allowable emissions limits for Units CM HR and CBM HR. Compliance with allowable emissions limits would therefore be demonstrated by maintaining material hauled below the maximum throughput rate limits for each section of haul road.

Commented [ES33]: Similarly, Chino proposes to replace the requirement to monitor vehicle miles travelled with a requirement to monitor the daily throughput (tons ore/waste rock hauled per day) for each section of haul road to demonstrate compliance with the maximum throughput limits in Table A112.A1.

(3) the monthly 12-month rolling total throughput rate (tons of ore/waste rock hauled on each section of haul road listed in Table A112.A1.
Reporting: The Permittee shall report in accordance with Section B110.

location as long as the change neither causes nor contributes to any exceedances of applicable air quality standards and does not increase road emissions listed in Table 106.A. Based on modeling analysis, it has been determined that changes made more than ¼ mile from the fence line neither causes nor contributes to any exceedance of applicable air quality standards and therefore an update to the model for these changes pursuant to Section B101 of this permit is not required to be submitted. The standards relevant to the haul roads are NAAQS for PM_{10} and $PM_{2.5}$; and Class I and Class II PSD increments for PM_{10} and $PM_{2.5}$.

Monitoring:

(6) The permittee shall monitor the frequency, quantity, and location(s) of the water application, or equivalent control measures.

(7) The Permittee shall monitor vehicle miles travelled on Cobre Mine haul roads for haul trucks and estimate the miles traveled by other vehicles.

. Within the first 15 days of each calendar month, the Permittee shall calculate the prior month's total vehicle miles travelled by haul trucks and estimate the total vehicle miles travelled by other vehicles (i.e. passenger/maintenance/delivery/over the road trucks/non-haul trucks).

. Each month, during the first 12 months of monitoring, the permittee shall calculate the cumulative total of fugitive emissions of PM_{10}, and $PM_{2.5}$.

. After the first 12 months of monitoring the Permittee shall calculate the monthly rolling 12-month total fugitive emissions of PM_{10}, and $PM_{2.5}$.

Recordkeeping:

The permittee shall keep daily records of the frequency, quantity, and location(s) of the water application, or equivalent control measures.(1) and Chino s;(2) daily throughput rate (per day)

(14) (3) monthly throughput rate ()

(15) The Permittee shall keep monthly records of calculated vehicle miles travelled by haul trucks and estimated vehicle miles travelled by other vehicles on Cobre Mine haul roads and the calculated total fugitive emissions.

(16) The Permittee shall keep records of control and operating scenarios in Tables 105.D and 108.B, Mining Scenario, emission factors, and control efficiency.

Reporting: The Permittee shall report in accordance with Section B110.

T. Haul Roads Chino Mine (Unit CM HR)

Requirement: Based on the throughputs associated with the haul roads in Control Scenario 2 shown in Table 105.D.2, the fugitive emissions of PM_{10}, and $PM_{2.5}$ from all vehicles travelling on haul roads (Haul Roads means all unpaved roads within the property boundary) at the Chino Mine shall not exceed the limits established in Table 106.A on a monthly rolling 12-month total basis. Compliance with the particulate emissions limits in Table 106.A shall be demonstrated by calculating emissions using vehicle miles travelled, applicable control factors, and emission factors from AP-42. This operation is authorized to operate 24 hours per day.

~~The Permittee is not required to modify this permit for minor or temporary changes in road location as long as the change neither causes nor contributes to any exceedances of applicable air quality standards and does not increase road emissions listed Table 106.A. Based on modeling analysis, it has been determined that changes made more than ¼ mile from the fence line neither causes nor contributes to any exceedance of applicable air quality standards. Therefore, an update to the model for these changes pursuant to Section B101 of this permit is not required to be submitted. The standards relevant to the haul roads are NAAQS for PM_{10} and $PM_{2.5}$; and Class I and Class II PSD increments for PM_{10} and $PM_{2.5}$.~~
~~**Monitoring:** The Permittee shall monitor vehicle miles travelled on Chino Mine haul roads as follows.~~ ~~(29) Within the first 15 days of each calendar month, the Permittee shall calculate the prior month's total vehicle miles travelled by haul trucks and estimate the total vehicle miles travelled by other vehicles (i.e. passenger/maintenance/delivery/over-the-road trucks/non-haul trucks) travelling on haul roads.~~ ~~(30) Each month, during the first 12 months of monitoring, the permittee shall calculate the cumulative total of fugitive emissions of PM_{10}, and $PM_{2.5}$.~~ ~~(31) After the first 12 months of monitoring, the Permittee shall calculate the monthly-rolling 12-month total fugitive emissions of PM_{10}, and $PM_{2.5}$.~~
~~**Recordkeeping:**~~ ~~(34) The Permittee shall keep monthly records of the total vehicle miles travelled by haul trucks and other vehicles (i.e. passenger/maintenance/delivery) travelling on haul roads and the calculated fugitive emissions.~~ ~~(35) The Permittee shall keep records of their determination that a permit modification is not necessary. Haul road changes shall be recorded in the Chino Mine Dust Control Plan.~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

~~MM.~~B. ~~H~~Haul Road Control throughout Chino and Cobre Mines (Units CM HR and CBM HR)

Commented [ES34]: Chino proposes to combine previous conditions A112.C and A112.D for Chino and Cobre Haul Road controls into new condition A112.B.

Requirement: To demonstrate compliance with the allowable emissions limits in Table 106.A, the Permittee shall implement the following control measures (or any equally effective measures upon obtaining prior NMED approval) on all Chino Mine and Cobre Mine haul roads except for the Cobre Haul Road and Hanover Mountain Road:

(1) blading,

(2) base course treatment,

(3) water application,

(4) 25 mph average speed.

The Permittee shall implement the following control measures on the Cobre Haul Road and Hanover Mountain Road:

(1) blading,

(2) base course treatment,

(3) water application,

chemical dust suppressant. ~~truck traffic areas and haul roads at the Chino Mine shall be watered **and** treated by application of base course or other equally effective measures to control particulate emissions. Prior to implementing, the Permittee shall obtain NMED approval of any "equally effective measures to control particulate emissions."~~

~~(2) The haul roads shall be controlled by measures required in Condition A105.D for Control Scenario 2.~~

~~(3) Control measures shall be implemented when visible emissions are observed at the height of standard haul truck headlights.~~

(4) ~~These control measures shall be used on unpaved roads within the facility as far as the nearest public road.~~

Monitoring:

(1) The Permittee shall monitor the implementation of dust control measures, including water application, base course, chemical dust suppressant, blading, and vehicle speed limit, or equivalent control measures.

(2) The Permittee shall conduct daily inspections/monitoring of road conditions, meteorological conditions, traffic volumes, and other factors to assess dust control measures.

Daily monitoring and application of control measures are not required for areas covered by snow or ice, or if precipitation has occurred that is sufficient to control particulate emissions.

Recordkeeping:

(1) The Permittee shall keep daily records of the implementation of dust control measures, including water application, base course, chemical dust suppressant, blading, and vehicle speed limit, or equivalent control measures.

(2) The Permittee shall keep records of the daily inspections, including modifications to control measures indicated by the inspections as necessary to minimize fugitive particulate emissions.

Reporting: The Permittee shall report in accordance with Section B110.

Commented [ES35]: Requested allowable emissions calculations for CM HR and CBM HR were based on the implementation of certain combinations of control measures. Chino therefore proposes to revise the condition to require implementation of those control measure combinations for purposes of demonstrating compliance with the allowable emissions limits for CM HR and CBM HR.

Commented [ES36]: Requested allowable emissions for the Cobre Haul Road and Hanover Mountain Road were calculated using a different combination of control measures (specifically, the use of chemical dust suppressant) than other roads at the Cobre and Chino Mines.

Commented [ES37]: Chino proposes to delete this requirement since it was incorporated into Condition A112.A.

Commented [ES38]: Chino proposes to delete this requirement as it is not an appropriate trigger for implementing control measures.

Commented [ES39]: Chino proposes to revise monitoring requirements so that implementation of all dust control measures is monitored, not just water application. Chino also proposes to revise the daily inspection of haul roads by requiring Permittee to consider factors used to assess dust control measures (e.g., road conditions, meteorological conditions, and traffic volumes).

Commented [ES40]: Chino proposes to revise recordkeeping requirement by requiring Permittee to keep records of implementation of ALL control measures, not only water application. Chino also proposes that the daily inspection records include whether there were modifications to control measures made to address changes in factors that affect haul road conditions and the need for application of dust control measures

Monitoring: (1) The permittee shall monitor the frequency, quantity, and location(s) of the water application, or equivalent control measures. (2) The Permittee shall conduct daily monitoring of truck traffic areas and haul roads for the presence of adequate moisture, base course, and/or other measures to minimize fugitive particulate emissions. Daily monitoring and application of control measures are not required for areas covered by snow or ice, or if precipitation has occurred that is sufficient to control particulate emissions.
Recordkeeping: (1) The permittee shall keep daily records of the frequency, quantity, and location(s) of the water application, or equivalent control measures. The records shall indicate if the daily inspection revealed no areas requiring additional control measures.
Reporting: The Permittee shall report in accordance with Section B110.

MM. Haul Road Control throughout Cobre Mine (Unit CBM HR)

Requirement: To demonstrate compliance with the allowable emissions limits in Table 106.A, the permittee shall meet the following requirements for the truck traffic areas and haul roads at the Cobre Mine which include the magnetite operation and mining of Continental Pit and Hanover Mountain. (0) For the magnetite operation, the haul roads shall be watered **and** treated by application of base course or other equally effective measures to control particulate emissions. (0) For the mining at Cobre Mine, the haul roads shall be controlled by the control measures required in Condition A105.D for Control Scenarios 1 and 2. (0) Prior to implementing, the Permittee shall obtain NMED approval of any "equally effective measures to control particulate emissions." (0) Except for the speed limit restriction, control measures shall be implemented when visible emissions are observed at the height of standard haul truck headlights. The limit on speed applies at all times. (0) These control measures shall be used on unpaved roads within the facility as far as the nearest public road. (0) Vehicles traveling on haul roads shall not exceed a speed limit of 35 mph.

~~**Monitoring:**~~ ~~(1) The permittee shall keep daily records of the frequency, quantity, and location(s) of the water application, or equivalent control measures.~~ ~~(1) The Permittee shall conduct daily monitoring of truck traffic areas and haul roads for the presence of adequate moisture, base course, and/or other measures to minimize fugitive particulate emissions.~~ ~~(1) Daily monitoring and application of control measures are not required for areas covered by snow or ice, or if precipitation has occurred that is sufficient to control particulate emissions.~~
~~**Recordkeeping:**~~ ~~(0) The permittee shall keep daily records of the frequency, quantity, and location(s) of the water application, or other control measures.~~ ~~(0) The Permittee shall keep daily records of the monitoring inspections and will document the location(s) of water application, base course, and/or other measures to minimize fugitive particulate emissions. The records shall indicate if the daily inspection revealed no areas requiring additional control measures.~~ ~~(0) The Permittee shall keep daily records of which Control Scenario in being used and the tons per day total throughput for that scenario. If more than one scenario is employed in a given day, time of day of changes and duration shall be recorded.~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

A113 Facility: 40 CFR 82, Subpart F

A. Protection of Stratospheric Ozone, Service, Maintenance and Repair of Air Conditioners

Requirement: The facility operates and maintains air conditioning systems and is subject to the Subpart F standards for recycling and emissions reductions during maintenance, service, repair, or disposal of appliances.
Monitoring: The Permittee shall comply with the applicable monitoring requirements of 40 CFR 82, Subpart F.
Recordkeeping: The Permittee shall comply with the applicable recordkeeping requirements of 40 CFR 82, Subpart F.
Reporting: The Permittee shall comply with the applicable reporting requirements of 40 CFR 82, Subpart F.

EQUIPMENT SPECIFIC REQUIREMENTS

OIL AND GAS INDUSTRY

A200 Oil and Gas Industry – not required

A. This section has common equipment related to most Oil and Gas Operations.

CONSTRUCTION INDUSTRY

A300 Construction Industry (not required)

A. This section has common equipment related to most Crusher/Screening Operations.

POWER GENERATION INDUSTRY

A400 Power Generation Industry (not required)

A. This section has common equipment related to most Electric Service Operations (SIC-4911).

SOLID WASTE DISPOSAL (LANDFILLS) INDUSTRY

A500 Solid Waste Disposal (Landfills) Industry– (not required)

MINING INDUSTRY

A600 Mining Operations Introduction

A. This section has common equipment related to most mining Operations.

A601 Turbines and Heat Recovery Steam Generator (HRSG)

A. Maintenance and Repair (Unit F-2-1-1.4 (turbine) and F-2-1-1.5 (HRSG))

Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by properly maintaining and repairing the units.
Monitoring: Maintenance and repair shall meet the minimum manufacturer's or Permittee's recommended maintenance schedule. Maintenance and repair activities that involve adjustment, replacement, or repair of functional components with the potential to affect operation of an emission unit shall be documented as they occur for the following events. (1) Routine Maintenance that takes a unit out of service for more than two hours during any twenty-four hour period. (2) Unscheduled repairs that require a unit to be taken out of service for more than two hours in

Commented [ES41]: No revision requested. Reformatting condition table so it is not disjointed.

any twenty-four hour period.
Recordkeeping: The permittee shall maintain records, including a copy of the manufacturer's or permittee's recommended maintenance schedule, in accordance with Section B109.
Reporting: The Permittee shall report in accordance with Section B110.

~~maintenance schedule. Maintenance and repair activities that involve adjustment, replacement, or repair of functional components with the potential to affect operation of an emission unit shall be documented as they occur for the following events.~~

~~(0) Routine Maintenance that takes a unit out of service for more than two hours during any twenty-four hour period.~~

~~(0) Unscheduled repairs that require a unit to be taken out of service for more than two hours in any twenty-four hour period.~~

~~**Recordkeeping**: The permittee shall maintain records, including a copy of the manufacturer's or permittee's recommended maintenance schedule, in accordance with Section B109.~~

~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

~~K.~~B. Periodic Emissions Tests (Unit F-2-1-1.4 (turbine) and F-2-1-1.5 (HRSG))

Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by conducting periodic emission tests during the monitoring period.

Monitoring: The Permittee shall test using a portable analyzer or EPA Reference Methods subject to the requirements and limitations of Section B108, General Monitoring Requirements. For periodic testing of NOx and CO, emissions tests shall be carried out as described below. Test results that demonstrate compliance with the CO emission limits shall also be considered to demonstrate compliance with the VOC emission limits.

(1) The testing shall be conducted as follows:

a. Testing frequency shall be once per year.

b. The monitoring period is defined as a calendar year.

(2) The tests shall continue based on the existing testing schedule.

(3) All subsequent monitoring shall occur in each succeeding monitoring period. No two monitoring events shall occur closer together in time than 25% of a monitoring period.

(4) Follow the General Testing Procedures of Section B111.

(5) If performance testing is required by 40 CFR 60, Subparts GG, KKKK, or Dc then these tests may be used to satisfy these periodic testing requirements if they meet the requirements of this condition and are completed during the specified monitoring period.

The power plant can operate in simple cycle mode (turbine only exhaust stack) or in combined cycle mode (turbine + HRSG exhaust stack). Testing shall be conducted on the exhaust stack for which the power plant is configured at the time of testing. It is not necessary to change the power plant configuration from simple cycle mode to combined cycle mode or from combined cycle mode to simple cycle mode merely to conduct the testing. If the power plant configuration is changed for operational reasons since the last testing was conducted, testing on the new configuration shall be conducted within 90 days of changing the configuration.

Commented [ES42]: Reformatted Table

Recordkeeping: The Permittee shall maintain records in accordance with Section B109. The Permittee shall also record the results of the periodic emissions tests, including the turbine's and HRSG's fuel flow rate and turbine's power output at the time of the test, and the type of fuel fired (natural gas, field gas, etc.).

The Permittee shall also keep records of all raw data used to determine exhaust gas flow and of all calculations used to determine flow rates and mass emissions rates.~~**Monitoring:** The Permittee shall test using a portable analyzer or EPA Reference Methods subject to the requirements and limitations of Section B108, General Monitoring Requirements. For periodic testing of NOx and CO, emissions tests shall be carried out as described below.~~

~~Test results that demonstrate compliance with the CO emission limits shall also be considered to demonstrate compliance with the VOC emission limits.~~

~~(3) The testing shall be conducted as follows:~~

~~. Testing frequency shall be once per year.~~

~~. The monitoring period is defined as a calendar year.~~

~~(6) The tests shall continue based on the existing testing schedule.~~

~~(7) All subsequent monitoring shall occur in each succeeding monitoring period. No two monitoring events shall occur closer together in time than 25% of a monitoring period.~~

~~(8) Follow the General Testing Procedures of Section B111.~~

~~(9) If performance testing is required by 40 CFR 60, Subparts GG, KKKK, or Dc then these tests may be used to satisfy these periodic testing requirements if they meet the requirements of this condition and are completed during the specified monitoring period.~~

~~(10) The power plant can operate in simple cycle mode (turbine only exhaust stack) or in combined cycle mode (turbine + HRSG exhaust stack). Testing shall be conducted on the exhaust stack for which the power plant is configured at the time of testing. It is not necessary to change the power plant configuration from simple cycle mode to combined cycle mode or from combined cycle mode to simple cycle mode merely to conduct the testing. If the power plant configuration is changed for operational reasons since the last testing was conducted, testing on the new configuration shall be conducted within 90 days of changing the configuration.~~

Reporting: The Permittee shall report in accordance with Section B110.

~~**Recordkeeping:** The Permittee shall maintain records in accordance with Section B109. The Permittee shall also record the results of the periodic emissions tests, including the turbine's and HRSG's fuel flow rate and turbine's power output at the time of the test, and the type of fuel fired (natural gas, field gas, etc.).~~ ~~The Permittee shall also keep records of all raw data used to determine exhaust gas flow and of all calculations used to determine flow rates and mass emissions rates.~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

~~R.~~C. ~~4~~40 CFR 60, Subpart GG (Unit F-2-1-1.4)

Requirement: The unit is subject to 40 CFR 60, Subpart GG and the Permittee shall comply with the applicable requirements of 40 CFR 60, Subpart A and Subpart GG. (1) Unit F-2-1-1.4, nitrogen dioxide emissions shall not exceed 184 ppmv at 15 percent oxygen and on a dry basis. (40 CFR 60, Subpart GG) (2) SO_2 emissions from the turbine (Unit F-2-1-1.4) shall not exceed 0.015 percent by volume at 15 percent oxygen on a dry basis or shall not burn fuel which contains sulfur in excess of 0.8 percent by weight (8000 ppmw). (40 CFR 60.333)
Monitoring: The Permittee shall comply with the applicable monitoring and testing requirements of 40 CFR 60.334 and 60.335.
Recordkeeping: The Permittee shall comply with the applicable recordkeeping requirements of 40 CFR 60.334 and 40 CFR 60.7.
Reporting: The Permittee shall comply with the applicable reporting requirements of 40 CFR 60.7.

Commented [ES43]: Chino proposes to move the NSPS requirements applicable to unit F-2-1-1.4 under 40 CFR Part 60, Subpart GG to this condition. Requirements (1) and (2) were previously Conditions A106.B and C.

~~S.~~D. 40 CFR 60, Subpart Dc (Unit F-2-1-1.5) (NSR Permit 0298M8, Condition A601.D)

Requirement: The unit is subject to 40 CFR 60, Subpart Dc and the Permittee shall comply with the applicable requirements of 40 CFR 60, Subpart A and Subpart Dc.
Monitoring: The Permittee shall comply with the applicable monitoring requirements of 40 CFR 60.48c.
Recordkeeping: The Permittee shall comply with the applicable recordkeeping requirements of 40 CFR 60.48c and 40 CFR 60.7.
Reporting: The Permittee shall comply with the applicable reporting requirements of 40 CFR 60.7.

A602 Engines

A. Maintenance and Repair Monitoring (Unit~~s ENG-1, CH SCRN ENG a nd~~ CB SCRN ENG)

Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by properly maintaining and repairing the units.
Monitoring: Maintenance and repair shall meet the minimum manufacturer's or permittee's recommended maintenance schedule. Activities that involve maintenance, adjustment, replacement, or repair of functional components with the potential to affect the operation of an emission unit shall be documented as they occur for the following events: (1) Routine maintenance that takes a unit out of service for more than two hours during any twenty-four hour period. (2) Unscheduled repairs that require a unit to be taken out of service for more than two hours in any twenty-four hour period.
Recordkeeping: The permittee shall maintain records in accordance with Section B109, including records of maintenance and repairs activities and a copy of the manufacturer's or permittee's recommended maintenance schedule.
Reporting: The permittee shall report in accordance with Section B110.

~~(2) Unscheduled repairs that require a unit to be taken out of service for more than two hours in any twenty-four hour period.~~

~~**Recordkeeping:** The permittee shall maintain records in accordance with Section B109, including records of maintenance and repairs activities and a copy of the manufacturer's or permittee's recommended maintenance schedule.~~

~~**Reporting:** The permittee shall report in accordance with Section B110.~~

~~I.~~B. PPeriodic Emissions Testing (~~CH SCRN ENG and~~ CB SCRN ENG)

Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by completing periodic emission tests during the monitoring period.

Monitoring: The permittee shall test using a portable analyzer or EPA Reference Methods subject to the requirements and limitations of Section B108, General Monitoring Requirements. For periodic testing of NOx and CO emissions tests shall be carried out as described below. Test results that demonstrate compliance with the CO emission limits shall also be considered to demonstrate compliance with the VOC emission limits.
For units with g/hp-hr emission limits, in addition to the requirements stated in Section B108, the engine load shall be calculated by using the following equation:

$$\text{Load(Hp)} = \frac{\text{Fuel consumption (scfh) x Measured fuel heating value (LHV btu/scf)}}{\text{Manufacturer's rated BSFC (btu/bhp-hr) at 100\% load or best efficiency}}$$

(1) The testing shall be conducted as follows:

a. Testing frequency shall be once per year.

b. The monitoring period is defined as a calendar year.

(2) The tests shall continue based on the existing testing schedule.

(3) All subsequent monitoring shall occur in each succeeding monitoring period. No two monitoring events shall occur closer together in time than 25% of a monitoring period.

(4) The permittee shall follow the General Testing Procedures of Section B111.

(5) Performance testing required by 40 CFR 60, Subpart JJJJ or IIII or 40 CFR 63, Subpart ZZZZ may be used to satisfy these periodic testing requirements if they meet the requirements of this condition and are completed during the specified monitoring period.

Recordkeeping: The permittee shall maintain records in accordance with Section B109, B110, and B111.

Reporting: The permittee shall report in accordance with Section B109, B110, and B111.

~~J.~~C. Hours of Operation (Unit~~s ENG-1 and~~ CB SCRN ENG)

Requirement: To ensure compliance with allowable emission limits in Table 106.A, ~~•~~ Unit CB SCRN ENG shall not operate more than 4380 hours per year on in day lights hours as defined in C101 and per A603.B.~~, and~~ ~~• Unit ENG-1 shall not operate more than 1,500 hours per year.~~
Monitoring: The permittee shall monitor the dates and hours of operation for the unit.
Recordkeeping: The permittee shall record the hours of operation on a daily rolling 365-day total and meet the recordkeeping requirements in Section B109.
Reporting: The permittee shall report in accordance with Section B110.

~~K.~~D. 40 CFR 60, Subpart IIII (Unit ~~ts CH SCRN ENG,~~ CB SCRN ENG)

Requirement: The units are subject to 40 CFR 60, Subparts A and IIII and shall comply with the notification requirements in Subpart A and the specific requirements of Subpart IIII.
Monitoring: The Permittee shall comply with all applicable monitoring requirements in 40 CFR 60, Subpart A and Subpart IIII, including but not limited to 60.4211.
Recordkeeping: The Permittee shall comply with all applicable recordkeeping requirements in 40 CFR 60, Subpart A and Subpart IIII, including but not limited to 60.4214.
Reporting: The Permittee shall comply with all applicable reporting requirements in 40 CFR 60, Subpart A and Subpart IIII, including but not limited to 60.4214.

~~L.~~E. 40 CFR 63, Subpart ZZZZ (~~Units ENG-1~~Unit ~~,~~ CB SCRN ENG~~, CH SCRN ENG~~)

Requirement: These units are subject to 40 CFR 63, Subpart ZZZZ and the Permittee shall comply with all applicable requirements of 40 CFR 63, Subpart A and Subpart ZZZZ.
Monitoring: The Permittee shall comply with all applicable monitoring requirements of 40 CFR 63, Subpart A and Subpart ZZZZ.
Recordkeeping: The Permittee shall comply with all applicable recordkeeping requirements of 40 CFR 63, Subpart A and Subpart ZZZZ, including but not limited to 63.6655 and 63.10.
Reporting: The Permittee shall comply with all applicable reporting requirements of 40 CFR 63, Subpart A and ZZZZ, including but not limited to 63.6645, 63.6650, 63.9, and 63.10.

~~M. Hours of Operation (Units CB SCRN ENG and CH SCRN ENG~~

~~**Requirement:** To ensure compliance with the permittee's representation of these units, hours of operation for these emergency generator engines must be less than 500 hours per year each.~~
~~**Monitoring:** The permittee shall monitor the dates and hours of operation for the units or install a non-resettable meter.~~
~~**Recordkeeping:** The permittee shall record the hours of operation, shall calculate and record~~

Commented [ES44]: Chino proposes to remove this condition. Units CB SCRN ENG and CH SCRN ENG are not permitted as an emergency engine and should not be limited to 500 hours per year. There is already a Condition (A602.C) that limits hours of operation for CB SCRN ENG. CH SCRN ENG is removed by this permit revision.

~~the daily rolling 365-day total hours of operation, and shall meet the recordkeeping requirements in Section B109.~~
~~**Reporting:** The permittee shall report in accordance with Section B110.~~

A603 Screening Operations

~~A. Chino Mine Screening Production Limits, (Unit CH SCRN)~~

~~**Requirement:** Compliance with the particulate emissions limits in Table 106.A shall be demonstrated by limiting the process rate of the Chino Screening Plant to [redacted] and a monthly rolling 12-month total of 1,404,000 tons per year. This production rate and configurationwere specified in the permit application and used as the basis for the Department's modeling analysis which demonstrated that this operation neither causes nor contributes to any exceedances of applicable air quality standards. any exceedances of applicable air quality standards.~~
~~**Monitoring:** The Permittee shall monitor:~~ ~~(0) Daily tons of material handled~~ ~~(0) Daily hours of operation~~ ~~(0) Tons per hour calculated based on the amount of material loaded into the screen and the number of hours that screening plant operated.~~
~~**Recordkeeping:** The Permittee shall maintain records in accordance with Section B109. The Permittee shall calculate and record the following in either computer generated or hand-written summaries supported by the data.~~ ~~(0) Daily tons of material handled~~ ~~(0) Daily hours of operation~~ ~~(0) tons per hour~~ ~~(0) the monthly rolling 12-month total tons per year material handled~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

Commented [ES45]: Chino proposes to remove this condition since unit CH SCRN ENG is removed by the significant permit revision.

~~Q.~~A. Cobre Screening Hours of Operation ~~Material Handling Limits~~ (Unit CB SCRN)

Requirement: To demonstrate c~~C~~ompliance with the allowable ~~particulate~~ emissions ~~limits~~ in Table 106.A Permittee shall be demonstrated by lshall only operate in daylight hours as defined in C101; and limit the hours of operation of the screening plant to 4,380 hours per year.~~ing the material handling rate of a Cobre Mine screening plant, whether it is a contractor-owned plant or a Chino-owned plant, to 450 tons per hour or 1,346,800 tons per year and shall only operate in daylight hours as defined in C101. This production rate and configuration were specified in the permit application and used as the basis for the Department's ambient impact analysis to determine compliance with the applicable ambient air quality standards.~~
Monitoring: The Permittee shall monitor the ~~:~~ ~~(1) Daily tons of material handled;~~hours of operation of the screening plant.
Recordkeeping: The Permittee shall maintain the following records in accordance with Section B109.

Commented [ES46]: Because requested allowable emissions for the Cobre screening plant (Unit CB SCRN) were based on a maximum throughput of 450 tph and 4,380 hrs/year (without limitations), Chino requests the removal of material handling rate limits for purposes of demonstrating compliance with allowable emissions limits. Limiting screening plant operation to daylight hours and 4,380 hours per year is sufficient to demonstrate compliance with allowable emissions limits because these limits were the only restrictions considered in determining requested allowable emissions.

(1) the monthly rolling 12- month hours of operation within 15 days of the end of each calendar month; ~~(1)~~(2) daily operation times, including start and end times of operation.

~~(0) hours of operation to include start and end times for daylight hours;~~ ~~(0) The number of material drops.~~
~~(1) **Recordkeeping:** The Permittee shall maintain the following records in accordance with Section B109. Date,~~ ~~(1) hours of operation to include start and end times for daylight hours~~ ~~(1)~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

~~(28)Daily hours of operation to include start and end times for daylight hours;~~ ~~(29)Daily water application to meet emission limits per the Dust Control Plan;~~ ~~(30)The plant layout/configuration showing the number of material drops.~~
~~**Recordkeeping:** The Permittee shall maintain records in accordance with Section B109. The Permittee shall calculate and record the following in either computer generated or hand-written summaries supported by the data.~~ ~~(33) Daily tons of material processed~~ ~~(34) Daily hours of operation to include start and end times for daylight hours~~ ~~(35) Records of water application per the Dust Control Plan to include but not limited to weather conditions, amount or gallons per minute of water applied~~ ~~(36) the monthly rolling 12-month total tons per year production rate~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

~~NN.~~B. ~~W~~White House Crusher/Screen Material Handling Limits (Unit WH Crush)

Requirement: ~~Emission limits and the PSD minor source status of this facility were established by limiting the total material handling at the White House Crusher/Screen.~~ To demonstrate c~~C~~ompliance with the allowable~~particulate~~ emissions ~~limits~~ in Table 106.A Permittee shall ~~be demonstrated by~~ limit~~ing~~ the material handling rate of a White House Crusher/Screen plant to 500 tons per hour and 4,380,000 tons per year and also by operating Unit WH only during~~in~~ daylight hours as defined in C101. ~~This production rate and configuration were specified in the permit application and used as the basis for the Department's ambient impact analysis to determine compliance with the applicable ambient air quality standards.~~
Monitoring: The Permittee shall monitor: (1) d~~D~~aily tons of material handled~~ndled~~; (2) d~~D~~aily hours of operation ~~to~~ includ~~ing~~e start and end times of operation ~~for daylight hours.~~; ~~(3) Daily water application to meet emission limits per the Dust Control Plan;~~ ~~(4) The plant layout/configuration showing the number of material drops.~~
Recordkeeping: The Permittee shall maintain the following records in accordance with Section B109:~~. The Permittee shall calculate and record the following in either computer generated, or hand-written summaries supported by the data.~~ (1) daily~~Daily~~ tons of material handled;~~processed~~ (2) the monthly rolling 12-month hours of operation within 15 days of the end of each calendar month; ~~(2)~~ daily operation times, including start and end times of operation.~~Daily hours of operation to include start and end times for daylight hours~~ ~~(3) Records of water application per the Dust Control Plan to include but not limited to weather conditions, amount or gallons per minute of water applied~~ ~~(4)~~(3) ~~the monthly rolling 12-month total tons per year production rate~~
Reporting: The Permittee shall report in accordance with Section B110.

Commented [ES47]: Chino proposes to remove this monitoring requirement because the requested allowable emission calculations did not rely on controlled emission factors due to water suppression or sprays.

~~OO.~~C. 40 CFR 60, Subpart OOO (Unit WH Crush)

Requirement: (1) Affected facilities (Crushers, screens, and conveyors as defined in §§60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008, with a cumulative rated capacity of all initial crushers (can be fed without prior crushing) greater than 150 tons per hour of material for a portable source, and 25 ton per hour for a fixed source, are subject to NSPS, 40 CFR 60, Subpart A and Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants, and the permittee shall comply with both the notification requirements in Subpart A and the specific requirements in Subpart OOO. (2) Particulate emissions from NSPS affected transfer points, belt conveyors, screens or other affected facilities, as defined by Subpart OOO, Table 3 to Subpart OOO of Part 60—Fugitive Emission Limits, shall not exhibit greater than 7 % opacity. Particulate emissions from NSPS affected crushers shall not exhibit greater than 12 % opacity. (3) Particulate emissions from non-NSPS affected transfer points, belt conveyors, screens, feed bins, and from stockpiles shall not exhibit greater than 10% opacity. Particulate emissions from non-NSPS crushers shall not exhibit greater than 15% opacity
Monitoring: (1) Initial compliance tests for particulate matter shall be conducted in accordance with the procedures for opacity in Subpart A of 40 CFR 60 (60.11) and EPA test Methods 9 and 22 (if applicable), unless otherwise approved by the Department. Compliance tests shall determine the opacity at each crusher, screen, hopper, and conveyor transfer point, including transfers to stockpiles. For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations (meaning those fugitive-type emission sources subject only to an opacity standard). (2) The permittee shall perform a six minute opacity reading for each crusher, screen and stacker conveyor (material drop to storage pile) at least once per calendar month to demonstrate compliance with the opacity limitations in this permit. The test shall be done at the normal operational load of the facility. Compliance with this condition shall be determined by opacity test observations conducted in accordance with the procedures in 40 CFR 60.11 and Reference Method 9 in 40 CFR 60, Appendix A. (3) Additionally, if requested by the Department in writing, the permittee shall perform a six minute opacity reading for each transfer conveyor at least once per calendar month to demonstrate compliance with the opacity limitations in this permit. The test shall be done at the normal operational load of the facility. Compliance with this condition shall be determined by opacity test observations conducted in accordance with the procedures in 40 CFR 60.11 and Reference Method 9 in 40 CFR 60, Appendix A.
Recordkeeping: The permittee shall maintain records in accordance with Subpart OOO and Section B109.
Reporting: The permittee shall report in accordance with Section B110.

A604 Non-NSPS ~~Affected~~ Equipment

~~A. For equipment, not subject to any NSPS LL requirement and their emission calculation relied upon emission factors using controls, particulate matter emissions from ***non-NSPS*** affected transfer points, belt conveyors, and screens, shall not exhibit greater than 10% opacity. Particulate emissions from ***non-NSPS*** crushers shall not exhibit greater than 15% opacity.~~

Commented [ES48]: Chino proposes to remove this condition and include the opacity standards in the requirement section of the following condition (renamed "Material Handling Opacity Standard"). Chino does not have any non-NSPS crushers. For purposes of clarification, Chino proposes to identify the non-NSPS affected equipment in the condition title and revise the monitoring requirement language.

~~B.~~A. ~~Ongoing~~ M~~m~~aterial H~~h~~andling O~~o~~pacity Standard~~testing~~ (Units CB SCRN, FLTR/BLND, LHS-01, LUS-01, SCDP)

Requirement: The Permittee shall not allow emissions from these units to ~~The Permittee shall~~ exhibit greater than 10% opacity. ~~demonstrate ongoing compliance with the opacity limits of this permit.~~
Monitoring: The Permittee shall perform a 6-minute opacity reading ~~for each crusher, screen and stacker conveyor (material drop to storage pile)~~ at least once per calendar month in which the facility operates ~~. If requested by the Department in writing, the Permittee shall perform additional monthly testing on each transfer conveyor as required above. The test will be used to demonstrate compliance with the opacity limitations in this permit. The test shall be done at the normal operational load of the facility. Compliance with this condition shall be determined by opacity test observations conducted~~ in accordance with Reference Method 9 in 40 CFR Part 60, Appendix A. Method 22 in 40 CFR Part 60, Appendix A may be used in place of Method 9 if the applicant can demonstrate no visible emissions during the 6-minute visual emissions test. If visible emissions are observed, then the Permittee shall use Method 9.
Recordkeeping: The Permittee shall maintain records in accordance with Section B109. For any visible emissions observations conducted in accordance with EPA Method 22, record the information on the form referenced in EPA Method 22, Section 11.2. For any opacity observations conducted in accordance with the requirements of EPA Method 9, record the information on the form referenced in EPA Method 9, Sections 2.2 and 2.4.
Reporting: The Permittee shall report in accordance with Section B110.

~~C. Daily inspection of water sprays (Units CH SCRN and CB SCRN)~~

~~**Requirement:** If water sprays are installed, the Permittee shall inspect the water sprays to ensure that they are functioning properly (including, but not limited to spray bars are pointing in the right places, are not blocked or plugged, and are atomizing the water properly).~~
~~**Monitoring:** The Permittee shall daily inspect the water sprays to ensure they are controlling fugitive dust emissions.~~
~~**Recordkeeping:** A daily record shall be made of the inspection and any maintenance activity that resulted from the inspection. At a minimum, the record shall include the date, time, a description of any malfunction, and any corrective actions taken. The record shall be attached to a description of what shall be inspected, to ensure the inspector understands his or her responsibilities.~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

A605 Ivanhoe Copper Concentrating Circuit~~or~~

A. Production Limits (Units PC-01, PC DUMP, CV-01A, CTS-01, CV-01B, CV-01C, SAG-F1, ~~IC-01,~~ and SCDP)

Requirement: To demonstrate c~~C~~ompliance with ~~the~~ allowable emissions ~~limits~~ in Table 106.A Permittee shall ~~be demonstrated by~~ limit: (1)~~ing~~ the hourly SAG feed belt material handling rate from the coarse ore stockpile into the concentrator circuit to 3,300 tons per hour. (2) the daily material handling rate of PC DUMP, CV-01A, CTS-01, CV01B, CV-01C, and SCDP to 3,360 tons per hour.
Monitoring: The Permittee shall monitor the following: (1) hourly material handling rate of the SAG feed belts, (2) ~~Primary Crusher and federate into the Ivanhoe Concentrator.~~ daily material handling rate of PC DUMP, CV-01A, CTS-01, CV01B, CV-01C, and SCDP. ~~The information monitored shall include the unit identification number, date, and the process rates.~~
Recordkeeping: The Permittee shall record~~maintain records~~ the following in accordance with Section B109:~~. The records can be computer generated or hand-written summaries supported by the data.~~ ~~The Permittee shall record the date, time, and~~ (1) ~~the~~ tons per hour material handling~~production~~ rate of the SAG feed belts,~~f~~ (2) the daily material handling rate of PC DUMP, CV-01A, CTS-01, CV01B, CV-01C, and SCDP ~~or the Ivanhoe Concentrator for any requested period.~~
Reporting: The Permittee shall report in accordance with Section B110.

B. Filter/Blending Plant Production Limits (Unit FLTR/BLND)

Requirement: To demonstrate compliance with the allowable limits in Table 106.A, the Permittee shall not exceed a processing rate of 788,400 tons per year of concentrate (dry tons) through the Filter/Blending plant.
Monitoring: The Permittee shall monitor: (1) daily tons of concentrate processed at the filter/blending plant; (2) daily rolling 365-day total throughput of concentrate.
Recordkeeping: The Permittee shall maintain records of the following in accordance with Section B109: (1) daily tons of concentrate processed at the filter/blending plant; (2) daily rolling 365-day total throughput of concentrate.
Reporting: The Permittee shall report in accordance with Section B110.

Commented [ES50]: Chino proposes to revise Condition A605.A to require a material handling rate limit for the SAG feed belt AND the crusher dump pocket, and associated conveyor transfer/drop points, based on the material handling rates used in the requested allowable emissions calculations for these units. Previously, Unit SAG-F1 (SAG Mill Feed Belt) was the only concentrator emission unit with a material handling rate limit in the permit. To demonstrate compliance with allowable emissions limits for Units PC DUMP, CV-01A, CTS-01, CV-01B, CV-01C, and SCDP, Chino proposes a separate material handling rate limit.

Commented [ES51]: Chino proposes to move previous Condition A609.B that limits the Filter/Blending plant processing rate, to the Ivanhoe Copper Concentrating Circuit section, under Condition A605.B.

C. Primary Crusher Dump Pocket Water Spray System (Unit PC DUMP)

Requirement: To demonstrate compliance with allowable emissions in Table 106.A Permittee shall operate and maintain the water spray system in a manner consistent with good air quality control practices while ore is unloaded into the primary crusher dump pocket.
Monitoring: The Permittee shall inspect daily the water spray system to ensure the system is operating in a manner consistent with good air pollution control practices.
Recordkeeping: The Permittee shall keep records of the daily inspections, including any corrective action or maintenance indicated by the inspections as necessary to minimize fugitive particulate emissions.
Reporting: The Permittee shall report in accordance with Section B110.

D. Wet Scrubber (Units LUS-01, LHS-01)

Requirement: To demonstrate compliance with allowable emissions in Table 106.A Permittee shall operate and maintain the wet scrubbers for the lime unloading system (LUS-01) and lime handling system (LHS-01) in a manner consistent with good air quality control practices while the associated lime unloading and handling systems are operating.
Monitoring: Except for periods of monitoring system breakdowns, repairs, maintenance, and calibration checks, Permittee shall continuously monitor: (1) the differential pressure (inches of water) across the wet scrubbers via a differential pressure gauge; and (2) the water flow rate (gallons per minute) into the scrubber via a flow meter while the associated process equipment is operating. The Permittee shall establish operating levels, settings, or ranges for differential pressure and water flow rate that are representative and reliable indicators of the performance of each wet scrubber. Monitoring devices shall be maintained in good operating condition.
Recordkeeping: The Permittee shall keep records of the monitored differential pressure and water flow rate of each wet scrubber. The Permittee shall maintain records in accordance with Section B109.
Reporting: The Permittee shall report in accordance with Section B110.

E. Baghouse/Dust Collector (Units PC-01, SAG, RC-01)

Requirement: To demonstrate compliance with allowable emissions in Table 106.A Permittee shall operate and maintain the baghouse/dust collectors for the primary crusher (PC-01), SAG tunnel (SAG) and recycle crusher (RC-01) in a manner consistent with good air quality control practices while the associated crushing and conveying systems are operating.
Monitoring: Except for periods of monitoring system breakdowns, repairs, maintenance, and calibration checks, Permittee shall continuously monitor the differential pressure (inches of water) across the baghouses with a differential pressure gauge while the associated process equipment is operating. The Permittee shall establish operating levels, settings, or ranges for differential pressure that are representative and reliable indicators of the performance of each baghouse/duct collector. Monitoring devices shall be maintained in good operating condition.
Recordkeeping: The Permittee shall keep records of the monitored differential pressure of each baghouse/dust collector. The Permittee shall maintain records in accordance with Section B109.
Reporting: The Permittee shall report in accordance with Section B110.

Commented [ES52]: Chino proposes to add new Condition A605.C that requires Permittee to operate and maintain the water spray system at the primary crusher dump pocket. Requested allowable emissions for Unit PC DUMP were calculated based on the use of water spray system. Thus, Chino proposes a requirement to operate and maintain the water spray system for purposes of demonstrating compliance with allowable emissions limits for Unit PC DUMP.

Commented [ES53]: Chino proposes to move previous Conditions A105.B and A105.C to the Ivanhoe Copper Concentrating Circuit section since the wet scrubbers and baghouse/dust collector(s) are control devices for copper concentrating related processes.

Commented [ES54]: Chino proposes that the monitoring condition also include a requirement to establish operating levels, settings, or ranges for differential pressure and water flow rate so that the monitoring of such operating parameters serves as a representative and reliable indicator of scrubber performance.

Commented [ES55]: Add monitoring req for stack testing to demonstrate compliance with allowable emission rates.

B.F. 40 CFR 60, Subpart LL Compliance (Units (Units PC-01, PC DUMP, CTS-01, CV-01A, CTS-01, CV-01B, CV-01C, SAG-F1, SAG IC-01, RC-01and SCDP)

Requirement: Compliance with the allowable emissions limits in Table 106.A shall be demonstrated by Permittee shall comply with the following applicable emission standardsrequirements of 40 CFR 60, Subpart LL listed in the table below. 40 CFR 60, Subpart LL applies only to the specified Ivanhoe Concentrator affected facilities listed above.

Table 605.F: Performance Standards for Ivanhoe Copper Concentrating Circuit Equipment

Unit	Grain Loading	Opacity
PC-01, RC-01, SAG (applicable at primary crusher baghouse, recycle crusher dust collector and SAG dust collector stacks)	0.05 grams/DSCM (0.02 grains/dscf)	7%
CTS-01, CV01-C, SAG-F1 (conveyor belt transfer points) (process fugitive emissions)	N/A	10%
PC DUMP (truck unloading station) (process fugitive emissions)	N/A	10%

For an affected facility using a wet scrubber (Units IC-01, LUH-01, and LHS-01), the scrubber shall be equipped with pressure gauges to measure pressure drop across the control device. Wet scrubbing systems shall be equipped with a continuous monitoring device to measure the scrubbing liquid flow rate. Pressure gauges and monitoring devices shall be installed, calibrated, maintained, and operated in accordance with the manufacturer specifications. Compliance with this will be based on Department inspections of the facility to verify that instruments have been installed and of the records as set forth in 40CFR60, Subpart LL.

Monitoring: The Permittee shall comply with the following monitoring/testing requirements:

(1) comply with the applicable monitoring requirements of 40 CFR 60, Subpart LL.conduct monthly Method 9 opacity observations;

(2) perform a stack test on PC-01, RC-01, and SAG once per permit term, using EPA Reference Method 5 or 17.

Recordkeeping: The Permittee shall comply with the following recordkeeping requirements: The Permittee shall comply with the applicable recordkeeping requirements as set forth in 40CFR60, Subpart LL shown here:

(1) The Owner/Operator shall record the results of the performance tests as specified in 40 CFR §60.8(a).record the results of the stack tests;

(2) record results of monthly Method 9 opacity observations;

(1)(3) maintain records in accordance with Section B109.

Reporting: The Permittee shall submit a written report of the results of a stack test 30 days after the completion of the test.

The Permittee shall report in accordance with Section B110.

Commented [ES56]: Chino proposes to revise this condition by updating the units listed in the title with the affected facilities subject to Subpart LL.

Commented [ES57]: Chino proposes to move Table 106.B to Condition A605.F and update the table by identifying all units that are affected facilities subject to Subpart LL and including their applicable emission standards. Chino also proposes to remove the requirement for instrumentation on wet scrubber Units IC-01, LHS-01, and LUS-01. Unit IC-01 is removed through this permit revision and Units LHS-01 (lime handling system) and LUS-01 (lime unloading system) are not affected facilities under Subpart LL.

Commented [ES58]: Chino proposes to revise monitoring requirements by adding periodic monitoring for purposes of demonstrating compliance with Subpart LL opacity and emission standards as well as allowable emission rates for air pollution control devices for units PC-01, RC-01, and SAG. Chino proposes monthly Method 9 opacity observations for conveyor transfer points and the truck unloading station, and stack testing on the baghouse and dust collectors once per permit term. Chino will assume the PM2.5 emission rate is the same as the measured PM10 emission rate.

G. Periodic Emission Testing (Units PC-01, RC-01, SAG)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A Permittee shall perform a stack test on control equipment for the units PC-01, RC-01, and SAG.
Monitoring: The Permittee shall perform a stack test on PC-01, RC-01, and SAG once per permit term, using EPA Reference Method 5 or 17. The permittee shall follow the General Testing Procedures of Section B111.
Recordkeeping: The Permittee shall record results of the stack tests and maintain records in accordance with Section B109.
Reporting: The Permittee shall submit a written report of the results of a stack test 30 days after the completion of the test. The Permittee shall report in accordance with Section B110.

H. Mill Reagents (Unit FLOAT)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A Permittee shall use any combination of the following reagents or equivalents: Quadrafroth P-100, Nalco 9714, Cytec 7048, Magnafloc 10, 7310 Promoter, and Quadrafroth 222. Before using equivalents, the Permittee shall notify the Department's Permitting Program Manager in writing.
Monitoring: The Permittee shall monitor the types of reagents used and the dates any changes are made.
Recordkeeping: In accordance with Section B109 of this permit, the Permittee shall keep records of the following: (1) For any proposed equivalent reagent, Safety Data Sheets (SDS), and the dates any changes are made between reagents allowed by this permit; and (2) The composition of the proposed reagent, including but not limited to the molecular weight, HAP constituents, vapor pressure and diffusivity coefficient. (3) The Permittee shall calculate the TAPs pph emission rate for the proposed reagent and identify the associated thresholds under the New Mexico Toxic Air Pollutant Program (20.2.72.502 NMAC). (4) The Permittee shall calculate the rolling 12-month total VOC and HAP emission rates within 15 days of the end of each calendar month.
Reporting: Reporting and product approval shall be in accordance with Section B110.

Commented [ES59]: Chino proposes new Condition A605.H for emission unit FLOAT added through this permit revision.

~~from the most recent performance test.~~
~~**Reporting:** The Permittee shall submit reports as required by 40CFR60, Subpart A and/or Subpart LL.~~ ~~(1) The Owner/Operator shall submit a written report of the results of the performance tests as specified in 40 CFR §60.8(a).~~ ~~(1) The Owner/Operator shall submit semiannual reports of occurrences when the measurements of the scrubber pressure loss (or gain) or liquid flow rate differ by more than ±30 % from the average obtained from the most recent performance test. These reports shall be postmarked within 30 days following the end of June and December.~~

A606 ~~Chino Mine~~ Blasting Operations

~~A.~~ A. Chino Mine Blasting (Unit CM BLST)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A, the Permittee shall not exceed the consumption of ammonium nitrate blasting agents (ANBA) of fifty-two thousand (52,000) tons per year in the blasting operation and four hundred thousand (400,000) pounds per day. Blasting shall only occur during daylight hours as defined at C101.A.
Monitoring: The Permittee shall monitor the pounds per day and tons per year of ANBA used.
Recordkeeping: The Permittee shall maintain records in accordance with Section B109. The Permittee shall calculate and record the following in either computer generated or hand-written summaries supported by the data. (1) the date and time of each blast (2) the pounds per day (ppd) and monthly total of ANBA used (3) monthly the calculated emissions in pph and tpy (4) the monthly rolling 12-month total tons per year of ANBA used.
Reporting: The Permittee shall report in accordance with Section B110.

B. Cobre Mine Blasting (Unit CBM BLST)

Requirement: Compliance with the allowable emission limits in Table 106.A shall be demonstrated by not exceeding the consumption of ANBA of fourteen thousand three hundred (14,300) tons per year in the blasting operation and one hundred ten thousand (200~~110~~,000) pounds per day. Blasting shall only occur during daylight hours as defined at C101.A.
Monitoring: The Permittee shall monitor the pounds per day and tons per year of ANBA used.
Recordkeeping: The Permittee shall maintain records in accordance with Section B109. The Permittee shall calculate and record the following in either computer generated or hand-written summaries supported by the data. (1) ~~(1)~~ the date and time of each blast (2) the pounds per day (ppd) and monthly total of ANBA used (3) monthly the calculated emissions in pph and tpy (4) the monthly rolling 12-month total tons per year of ANBA used.
Reporting: The Permittee shall report in accordance with Section B110.

C. Cobre Haul Road Borrow Pit Blasting (Unit BORR_BLST)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A, the Permittee shall not exceed the consumption of ammonium nitrate blasting agents (ANBA) of One hundred and nineteen thousand, seven hundred (119,700) tons per day and year in the blasting operation and twenty-nine thousand, nine hundred twenty-five (29,925) pounds per blast. Blasting shall only occur during daylight hours as defined at C101.A. These blasts are to occur for the construction of this borrow pit and are not to be continuous nor are they to be ~~completed~~undertaken during other blasting events at the facility.
Monitoring: The Permittee shall monitor the pounds per day and tons per year of ANBA used.

Recordkeeping: The Permittee shall maintain records in accordance with Section B109. The Permittee shall calculate and record the following in either computer generated or hand-written summaries supported by the data. (1) the date and time of each blast (2) the pounds per day (ppd) and monthly total of ANBA used (3) monthly the calculated emissions in pph and tpy ~~(1)~~(4) the monthly rolling 12-month total tons per year of ANBA used.
Reporting: The Permittee shall notify the Department of the date on which blasting concluded at the borrow pit. The Permittee shall report in accordance with Section B110.

Commented [ES60]: Chino proposes that the Reporting requirement include the Permittee to notify the Department of the date blasting concluded at the borrow pit because the borrow pit blasting is not a continuous activity and will conclude once the pit has been constructed.

607 Drilling Operations

Commented [ES61]: Chino proposes new Conditions A607.A and A607.B for new Units CM DRILL and CBM DRILL.

A. Chino Mine Drilling (Unit CM DRILL)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A Permittee shall limit the drilling rate at the Chino Mine to 10 holes per hour and 23,095 holes per year.
Monitoring: The Permittee shall monitor the holes per hour drilling rate at the Chino Mine.
Recordkeeping: The Permittee shall maintain records in accordance with Section B109. The Permittee shall maintain records of the following: (1) hole per hour drilling rate for each unit; (2) during the first 12 months of monitoring, calculations of the cumulative total of holes drilled within the first fifteen days of each month; (3) after the first 12 months of monitoring, calculations of the monthly rolling 12-month total of holes drilled within the first fifteen days of each month.
Reporting: The Permittee shall report in accordance with Section B110.

~~(1) the pounds per day (ppd) and monthly total of ANBA used~~ ~~(1) monthly the calculated emissions in pph and tpy~~ ~~(1) the monthly rolling 12-month total tons per year of ANBA used.~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

B. Cobre Mine Drilling (Unit CBM DRILL)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A Permittee shall limit the drilling rate at the Cobre Mine to 9 holes per hour and 8,418 holes per year.
Monitoring: The Permittee shall monitor the holes per hour drilling rate at the Cobre Mine.
Recordkeeping: The Permittee shall maintain records in accordance with Section B109. The Permittee shall maintain records of the following: (1) hole per hour drilling rate for each unit; (1) during the first 12 months of monitoring, calculations of the cumulative total of holes drilled within the first fifteen days of each month; (3) after the first 12 months of monitoring, calculations of the monthly rolling 12-month total of holes drilled within the first fifteen days of each month.
Reporting: The Permittee shall report in accordance with Section B110.

~~C. Cobre Haul Road Borrow Pit Blasting (Unit BORR_BLST)~~

~~**Requirement:** To demonstrate compliance with the allowable emission limits in Table 106.A, the Permittee shall not exceed the consumption of ammonium nitrate blasting agents (ANBA) of One hundred and nineteen thousand, seven hundred (119,700) tons per day and year in the blasting operation and twenty-nine thousand, nine hundred twenty five (29,925) pounds per blast. Blasting shall only occur during daylight hours as defined at C101.A. These blasts are to occur for the construction of this borrow pit and are not to be continuous nor are they to be completed during other blasting events at the facility.~~
~~**Monitoring:** The Permittee shall monitor the pounds per day and tons per year of ANBA used.~~
~~**Recordkeeping:** The Permittee shall maintain records in accordance with Section B109. The Permittee shall calculate and record the following in either computer generated or hand-written summaries supported by the data.~~ ~~(1) the date and time of each blast~~ ~~(1) the pounds per day (ppd) and monthly total of ANBA used~~ ~~(1) monthly the calculated emissions in pph and tpy~~ ~~(1) the monthly rolling 12-month total tons per year of ANBA used.~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

A60~~7~~8 Gasoline Dispensing Facilities (GDF)

A. 40 CFR 63, Subpart CCCCCC, Gasoline Dispensing Facilities (Units GDF-1, GDF-2, GDF-3, GDF-4, GDF-5 ~~GDF, 4 tanks~~)

Commented [ES62]: Chino proposes to revise Condition A607 (now A608) by updating the units in the title. As part of this permit revision, Chino proposes to separate previous Unit GDF into five separate units based on the five gasoline tanks/filling stations at the mine. Chino also proposes to identify the applicable requirements of 40 CFR Part 63, Subpart CCCCCC for each GDF emission unit.

Requirement: ~~Compliance with the allowable emissions limits in Table 106.A shall be demonstrated by complying with the requirements of~~Permittee shall comply with the following applicable requirements of 40 CFR 63, Subpart CCCCCC:~~. Each GDF is located at an area source. The affected source includes each gasoline cargo tank during the delivery of product to a GDF and also includes each storage tank.~~ (1) 40 CFR 63.11116 (GDF-2, GDF-3, GDF-5) (2) 40 CFR 63.11117 (GDF-1, GDF-4).~~The GDFs are subject to 40 CFR 63, Subparts A and CCCCCC.~~
Monitoring: The Permittee shall comply with all applicable monitoring requirements in 40 CFR 63, Subpart A and Subpart CCCCCC.
Recordkeeping: The Permittee shall comply with all applicable recordkeeping requirements in 40 CFR 63, Subpart A and Subpart CCCCCC.
Reporting: The Permittee is not subject to the reporting or notification requirements in 40 CFR 63, Subpart A and Subpart CCCCCC.

A6089 Solvent Extraction – Electro-winning (SX/EW) Plant

. The SX/EW Plant shall consist of the following equipment: eightten mixer/settler tanks (Unit SXEW 810MST), six for extraction (surface area of 39,000 sqft ±10%) and twofour for stripping (surface area of 13,05039,104 sqft ±10%), an open 900,000 gallon raffinate tank (Unit SXEW RT with a surface area of 5,024 sqft ±10%), an open 2 million gallon acid tankhouse (Unit SXEW SAT) and threefive water boilers (Units SXEW Boiler No 1, No 2, and No 3).

A.

. The Department approves of the emissions estimates that were based on the study, BHP Copper - Quantification of Volatile Organic Compound Emissions From TThe Solution Extraction Process (BHP Method). The physical conditions of this facility must be similar to those described in the study. Specifically, the mixer/settler tanks shall be covered in order to minimize the velocity of air flow across the liquid surface of the tanks.

B.

B.C. Units SXEW 810MST, SXEW RT, and SXEW SAT

Requirement: Compliance with the emission limits in Table 106.A shall be demonstrated by accomplishing the following: (1) The Permittee shall use any combination of the following products: Acorga M5910, M5640, OR25, COGNIS LIX684N-LV, as the extraction reagent, and Penreco 170ES, Escaid 110, Escaid 115, ORFOM SX-80 as the organic diluent, or equivalents. Before using equivalents, the Permittee shall notify the Department's Permitting Program Manager, in writing. of, or provide the Department with any necessary update or correction no more than sixty (60) days after the operator knows or should have known of the condition necessitating the update or correction of the permit. (2)(1) Each month, the permittee shall calculate VOC and HAP emissions and the rolling 12-month tpy VOC and HAP emissions. Each month, the permittee shall calculate NM TAP pph emissions.
Monitoring: The Permittee shall monitor the types of the diluent and extraction reagent used and the dates any changes are made.
Recordkeeping: In accordance with Section B109 of this permit, the operating logs and records of the following information shall be kept for each diluent and extraction reagents: (1) : the diluent and extraction reagent types used, Safety Data Sheets (SDS), and the dates any changes are made between diluents and extraction reagents allowed by this permit; and (1) (2) the composition, including but not limited to the molecular weight, HAP constituents, vapor pressure and diffusivity coefficient. (2) (3) The Permittee shall calculate each TAPs pph emission rate and certify that no thresholds of New Mexico Toxic Air Pollutants (20.2.72.400 NMAC) are exceeded. (3) (4) For each unit, records shall be kept of VOC and HAP tpy emission rates used to calculate the rolling 12-month total tpy emissions. For each unit, records shall be kept of the name of each NM TAP and pph emissions.

Commented [ES63]: Chino proposes to update the total number of mixer/settlers from 10 to 8, and the square footage and number of stripping mixer/settlers.

Reporting: Reporting and product approval shall be in accordance with Section B110.

A61009 ~~Fugitive Dust~~ Chino/Cobre Tailings Impoundments

A. Bulldozing Operations (Unit BDZR TLNGS)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A, the Permittee shall limit the number of bulldozers operating at once to 7 dozers and limit the collective hours of operation for all bulldozers to 30,660 hours per year.
Monitoring: The Permittee shall monitor: (1) The number of bulldozers operating each day; (2) Daily operating hours of each bulldozer.
Recordkeeping: The Permittee shall keep records of the following: (1) The number of bulldozers operating each day; (2) Daily hours of operation of all bulldozers; (3) During the first 12 months of monitoring, the permittee shall calculate the cumulative hours of operation total within the first fifteen days of each month; (4) after the first 12 months of monitoring, the permittee shall record the monthly rolling 12-month total hours of operation within the first fifteen days of each month.
Reporting: The Permittee shall report in accordance with Section B110.

B. Grading Operations (Unit GRDR TLNGS)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A, the Permittee shall limit the number of graders operating at once to 2 graders and limit the collective hours of operation for all graders to 8,760 hours per year.
Monitoring: The Permittee shall monitor: (1) The number of graders operating each day; (2) Daily operating hours of each grader.
Recordkeeping: The Permittee shall keep records of the following: (1) The number of graders operating each day; (2) Daily hours of operation of all graders; (3) During the first 12 months of monitoring, the permittee shall calculate the cumulative hours of operation total within the first fifteen days of each month; (4) after the first 12 months of monitoring, the permittee shall record the monthly rolling 12-month total hours of operation within the first fifteen days of each month.
Reporting: The Permittee shall report in accordance with Section B110.

C. ~~Erodible Surface Area of~~ Chino and Cobre Tailing Impoundments (CM TLNGS, CBM TLNGS)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A, the Permittee shall limit the monthly average erodible surface area of the Chino tailings impoundments to 3,928 acres and the monthly average erodible surface area of the Cobre tailings

Commented [ES64]: Chino proposes new Condition A610.C that requires Permittee to monitor the erodible surface area of the tailings impoundments weekly and record the monthly average erodible surface area. Allowable emission calculations were based on the erodible surface area of Chino's inactive and active tailings impoundments measured using December 2025 survey imagery. The erodible surface area of the active tailing impoundment (tailings pond 7) depends on the size of the impoundment area covered by pond water, which varies throughout the month with tailings slurry flow fluctuations. Chino proposes that the condition requires Chino to limit the monthly average erodible surface area of the impoundments so that it does not exceed the area used as the basis for calculating requested allowable emissions.

impoundment to 9 acres.
Monitoring: The Permittee shall monitor the erodible surface area of the tailings impoundments based on satellite or surveyed imagery on a weekly basis and calculate the average erodible surface area of the impoundments for each month within the first fifteen days of the following month.
Recordkeeping: The Permittee shall keep records of the monthly average erodible surface area of the tailings impoundments.
Reporting: The Permittee shall report in accordance with Section B110.

~~A. Fugitive Dust Control Plan (FDCP)~~

~~**Requirement:** The Permittee shall follow their Fugitive Dust Control Plan (FDCP) for minimizing emissions from areas such as aggregate feeders, bins, bin scales, storage pile, overburden removal, disturbed earth, buildings, truck loading/unloading, active pits, or tailing impoundments (Units CBM TLNGS and CM TLNGS) that are not subject to 40 CFR 60, Subpart LL.~~ ~~At a minimum, sites of overburden removal and active pit areas shall be watered, as necessary to minimize dust emissions. Stock piles shall be maintained with standard industry practices and procedures to minimize fugitive emissions to the atmosphere.~~
~~**Monitoring:** Once each calendar month, the Permittee shall inspect each area to ensure that fugitive dust is being minimized and determine if the FDCP plan needs updating.~~
~~**Recordkeeping:** Monthly, the Permittee shall make a record of each monthly inspection and revise the plan to address past shortcomings as well as future activities. If no changes are needed, then the Permittee shall make a record that the plan needs no changes.~~ ~~The Permittee shall make a record of any action taken to minimize emissions as a result of the FDCP or monthly inspections.~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

~~B. Filter/Blending Plant Production Limits (Unit FLTR/BLND)~~

~~**Requirement:**~~ ~~To demonstrate compliance with the allowable limits in Table 106.A, the Permittee shall not exceed a processing rate of 360,800 tons per year of concentrate (dry tons) through the Filter/Blending plant.~~
~~**Monitoring:** The Permittee shall monitor:~~ ~~(1) Daily tons of material processed for either conveyance or front-end loader;~~ ~~(2) Daily rolling 365-day total throughput of concentrate.~~
~~**Recordkeeping:** The Permittee shall maintain records in accordance with Section B109. The Permittee shall calculate and record the following in either computer generated or hand written summaries supported by the data.~~ ~~Daily tons of material processed.~~ ~~(1) Daily rolling 365-day total throughput of concentrate.~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

~~C. Quicklime Slaking Mill (Unit LmSlk)~~

Commented [ES65]: Chino proposes to remove this Fugitive Dust Control Plan requirement because emission units that are a source of fugitive emissions are subject to individual permit conditions that incorporate applicable requirements and include associated monitoring/recordkeeping requirements for purposes of demonstrating compliance with those requirements. Such fugitive dust sources include overburden removal, truck loading/unloading, and active pits (CM MH/CBM MH (active pits, truck loading/unloading), CM BLST/CBM BLST (overburden removal)). Chino does not operate any bins, bin scales or aggregate feeders. Chino also does not operate any buildings that generate fugitive dust. In addition, control measures were not considered in calculating requested allowable emissions for Units CBM TLNGS and CM TLNGS and therefore control requirements (whether outlined in a plan or expressly stated in a permit condition) are not necessary to demonstrate compliance with allowable emissions limits. Similarly, requested allowable emissions for new Unit IOS (intermediate ore stockpile) did not rely on the use of controls. The tailings emission units use AP-42 Chapter 13.2.4 industrial wind erosion emission factor and an erodible surface area to calculate potential emissions. Unit IOS uses wind erosion emission factors from AP-42, Section 11.2.3, Aggregate Handling and Storage Piles (5/83). Accordingly, a fugitive dust control plan is not necessary because the permit already includes control requirements and associated monitoring/recordkeeping where an applicable requirement specifies such controls or their use was considered in calculating requested allowable emissions and therefore requirements for their use is necessary for purposes of demonstrating compliance with allowable emissions limits.

Commented [ES66]: Chino proposes to move this requirement to Condition A605.B in the Ivanhoe Copper Concentrating Circuit section.

Commented [ES67]: Chino proposes to remove this condition. Unit LmSlk is no longer in the permit.

~~**Requirement:** Compliance with the emission limits in Table 106.A shall be demonstrated by accomplishing the following:~~

~~(1) Process water shall be continuously added to the slaking operation while the mill is in operation. The Slaker Operation includes the Mill (Unit LMSlk), the water pump powered by a~~

~~diesel engine (Unit ENG-1). The Mill operation is limited by the 1,500 hours authorized for Unit ENG-1.~~ ~~(2) The maximum process rates shall not exceed 100 tons per day, and 9,125 tons per year.~~
~~**Monitoring:** Once each calendar month, the Permittee shall record the run-time hours of Unit ENG-1 and the tons of lime delivery using weigh scale tickets. The permittee shall calculate the tons per year based on a monthly rolling 12-month total.~~
~~**Recordkeeping:** Monthly, the Permittee shall make a record of run-time hours for Unit ENG-1 and total tons of lime delivered and used.~~
~~**Reporting:** The Permittee shall report in accordance with Section B110.~~

A611 Evaporators

A. Evaporators (Units EVAP-1, EVAP-2, EVAP-3, EVAP-4)

Requirement: To demonstrate compliance with the allowable emission limits in Table 106.A, the flowrate for each unit shall not exceed: (1) 36,000 gallons per hour (gph), based on a daily average, and (2) 315,360,000 gallons per year (gpy).
Monitoring: The Permittee shall monitor the gph flowrate of each unit on a daily basis via a flow meter.
Recordkeeping: The Permittee shall maintain records in accordance with Section B109. The Permittee shall maintain records of the following: (1) Daily average gph flow rate for each unit. (2) During the first 365 days of monitoring, calculations of the total gallons used by each unit within the first fifteen days of each month. (3) After the first 365 days of monitoring, calculations of the rolling 365-day total gallons used by each unit within the first fifteen days of each month.
Reporting: The Permittee shall report in accordance with Section B110.

Commented [ES68]: Chino proposes to add Condition A611, which was added through technical revision NSR0298-M11-R9.

PART B GENERAL CONDITIONS (Attached)

PART C MISCELLANEOUS: Supporting On-Line Documents; Definitions; Acronyms (Attached)

AIR QUALITY BUREAU
NEW SOURCE REVIEW PERMIT
Issued under 20.2.72 NMAC

GENERAL CONDITIONS AND MISCELLANEOUS

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PART B GENERAL CONDITIONS

B100 Introduction

A. The Department has reviewed the permit application for the proposed construction/modification/revision and has determined that the provisions of the Act and ambient air quality standards will be met. Conditions have been imposed in this permit to assure continued compliance. 20.2.72.210.D NMAC, states that any term or condition imposed by the Department on a permit is enforceable to the same extent as a regulation of the Environmental Improvement Board.

B101 Legal

A. The contents of a permit application specifically identified by the Department shall become the terms and conditions of the permit or permit revision. Unless modified by conditions of this permit, the permittee shall construct or modify and operate the Facility in accordance with all representations of the application and supplemental submittals that the Department relied upon to determine compliance with applicable regulations and ambient air quality standards. If the Department relied on air quality modeling to issue this permit, any change in the parameters used for this modeling shall be submitted to the Department for review. Upon the Department's request, the permittee shall submit additional modeling for review by the Department. Results of that review may require a permit modification. (20.2.72.210.A NMAC)

B. Any future physical changes, changes in the method of operation or changes in restricted area may constitute a modification as defined by 20.2.72 NMAC, Construction Permits. Unless the source or activity is exempt under 20.2.72.202 NMAC, no modification shall begin prior to issuance of a permit. (20.2.72 NMAC Sections 200.A.2 and E, and 210.B.4)

C. Changes in plans, specifications, and other representations stated in the application documents shall not be made if they cause a change in the method of control of emissions or in the character of emissions, will increase the discharge of emissions or affect modeling results. Any such proposed changes shall be submitted as a revision or modification. (20.2.72 NMAC Sections 200.A.2 and E, and 210.B.4)

D. The permittee shall establish and maintain the property's Restricted Area as identified in plot plan submitted with the application. (20.2.72 NMAC Sections 200.A.2 and E, and 210.B.4)

E. Applications for permit revisions and modifications shall be submitted to:

Program Manager, Permits Section
New Mexico Environment Department

Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505

F. The owner or operator of a source having an excess emission shall, to the extent practicable, operate the source, including associated air pollution control equipment, in a manner consistent with good air pollutant control practices for minimizing emissions. (20.2.7.109 NMAC). The establishment of allowable malfunction emission limits does not supersede this requirement.

B102 Authority

A. This permit is issued pursuant to the Air Quality Control Act (Act) and regulations adopted pursuant to the Act including Title 20, Chapter 2, Part 72 of the New Mexico Administrative Code (NMAC), (20.2.72 NMAC), Construction Permits and is enforceable pursuant to the Act and the air quality control regulations applicable to this source.

B. The Department is the Administrator for 40 CFR Parts 60, 61, and 63 pursuant to the delegation and exceptions of Section 10 of 20.2.77 NMAC (NSPS), 20.2.78 NMAC (NESHAP), and 20.2.82 NMAC (MACT).

B103 Annual Fee

A. The Department will assess an annual fee for this Facility. The regulation 20.2.75 NMAC set the fee amount at $1,500 through 2004 and requires it to be adjusted annually for the Consumer Price Index on January 1. The current fee amount is available by contacting the Department or can be found on the Department's website. The AQB will invoice the permittee for the annual fee amount at the beginning of each calendar year. This fee does not apply to sources which are assessed an annual fee in accordance with 20.2.71 NMAC. For sources that satisfy the definition of "small business" in 20.2.75.7.F NMAC, this annual fee will be divided by two. (20.2.75.11 NMAC)

B. All fees shall be remitted in the form of a corporate check, certified check, or money order made payable to the "NM Environment Department, AQB" mailed to the address shown on the invoice and shall be accompanied by the remittance slip attached to the invoice.

B104 Appeal Procedures

A. Any person who participated in a permitting action before the Department and who is adversely affected by such permitting action, may file a petition for hearing before the Environmental Improvement Board. The petition shall be made in writing to the

Environmental Improvement Board within thirty (30) days from the date notice is given of the Department's action and shall specify the portions of the permitting action to which the petitioner objects, certify that a copy of the petition has been mailed or hand-delivered and attach a copy of the permitting action for which review is sought. Unless a timely request for hearing is made, the decision of the Department shall be final. The petition shall be copied simultaneously to the Department upon receipt of the appeal notice. If the petitioner is not the applicant or permittee, the petitioner shall mail or hand-deliver a copy of the petition to the applicant or permittee. The Department shall certify the administrative record to the board. Petitions for a hearing shall be sent to: (20.2.72.207.F NMAC)

For Mailing:
Administrator, New Mexico Environmental Improvement Board
P.O. Box 5469
Santa Fe, NM 87502-5469

For Hand Delivery:
Administrator, New Mexico Environmental Improvement Board
1190 St. Francis Drive, Harold Runnels Bldg.
Santa Fe, New Mexico 87505

B105 Submittal of Reports and Certifications

A. Stack Test Protocols and Stack Test Reports shall be submitted electronically to Stacktest.AQB@state.nm.us or as directed by the Department.

B. Excess Emission Reports shall be submitted as directed by the Department. (20.2.7.110 NMAC)

C. Routine reports shall be submitted to the mailing address below, or as directed by the Department:

Manager, Compliance and Enforcement Section
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505

B106 NSPS and/or MACT Startup, Shutdown, and Malfunction Operations

A. If a facility is subject to a NSPS standard in 40 CFR 60, each owner or operator that installs and operates a continuous monitoring device required by a NSPS regulation shall comply with the excess emissions reporting requirements in accordance with 40 CFR 60.7(c), unless specifically exempted in the applicable subpart.

B. If a facility is subject to a NSPS standard in 40 CFR 60, then in accordance with 40 CFR 60.8(c), emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction shall not be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

C. If a facility is subject to a MACT standard in 40 CFR 63, then the facility is subject to the requirement for a Startup, Shutdown and Malfunction Plan (SSM) under 40 CFR 63.6(e)(3), unless specifically exempted in the applicable subpart.

B107 Startup, Shutdown, and Maintenance Operations

A. The establishment of permitted startup, shutdown, and maintenance (SSM) emission limits does not supersede the requirements of 20.2.7.14.A NMAC. Except for operations or equipment subject to Condition B106, the permittee shall establish and implement a plan to minimize emissions during routine or predictable start up, shut down, and scheduled maintenance (SSM work practice plan) and shall operate in accordance with the procedures set forth in the plan. (SSM work practice plan) (20.2.7.14.A NMAC)

B108 General Monitoring Requirements

A. These requirements do not supersede or relax requirements of federal regulations.

B. The following monitoring requirements shall be used to determine compliance with applicable requirements and emission limits. Any sampling, whether by portable analyzer or EPA reference method, that measures an emission rate over the applicable averaging period greater than an emission limit in this permit constitutes noncompliance with this permit. The Department may require, at its discretion, additional tests pursuant to EPA Reference Methods at any time, including when sampling by portable analyzer measures an emission rate greater than an emission limit in this permit; but such requirement shall not be construed as a determination that the sampling by portable analyzer does not establish noncompliance with this permit and shall not stay enforcement of such noncompliance based on the sampling by portable analyzer.

C. If the emission unit is shutdown at the time when periodic monitoring is due to be completed, the permittee is not required to restart the unit for the sole purpose of conducting the monitoring. Using electronic or written mail, the permittee shall notify the Department's Compliance and Enforcement Section of a delay in emission tests prior to the deadline for completing the tests. Upon recommencing operation, the permittee shall submit pre-test notification(s) to the Department's Compliance and Enforcement Section and shall complete the monitoring.

D. The requirement for monitoring during any monitoring period is based on the percentage of time that the unit has operated. However, to invoke the monitoring period exemption at B108.D(2), hours of operation shall be monitored and recorded.

(1) If the emission unit has operated for more than 25% of a monitoring period, then the permittee shall conduct monitoring during that period.

(2) If the emission unit has operated for 25% or less of a monitoring period then the monitoring is not required. After two successive periods without monitoring, the permittee shall conduct monitoring during the next period regardless of the time operated during that period, except that for any monitoring period in which a unit has operated for less than 10% of the monitoring period, the period will not be considered as one of the two successive periods.

(3) If invoking the monitoring **period** exemption in B108.D(2), the actual operating time of a unit shall not exceed the monitoring period required by this permit before the required monitoring is performed. For example, if the monitoring period is annual, the operating hours of the unit shall not exceed 8760 hours before monitoring is conducted. Regardless of the time that a unit actually operates, a minimum of one of each type of monitoring activity shall be conducted during any five-year period.

E. For all periodic monitoring events, except when a federal or state regulation is more stringent, three test runs shall be conducted at 90% or greater of the unit's capacity as stated in this permit, or in the permit application if not in the permit, and at additional loads when requested by the Department. If the 90% capacity cannot be achieved, the monitoring will be conducted at the maximum achievable load under prevailing operating conditions except when a federal or state regulation requires more restrictive test conditions. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the monitoring report.

F. When requested by the Department, the permittee shall provide schedules of testing and monitoring activities. Compliance tests from previous NSR and Title V permits may be re-imposed if it is deemed necessary by the Department to determine whether the source is in compliance with applicable regulations or permit conditions.

G. If monitoring is new or is in addition to monitoring imposed by an existing applicable requirement, it shall become effective 120 days after the date of permit issuance. For emission units that have not commenced operation, the associated new or additional monitoring shall not apply until 120 days after the units commence operation. All pre-existing monitoring requirements incorporated in this permit shall continue to apply from the date of permit issuance.

H. Unless otherwise indicated by Specific Conditions or regulatory requirements, all instrumentation used for monitoring in accordance with applicable requirements including emission limits, to measure parameters including but not limited to flow, temperature, pressure and chemical composition, or used to continuously monitor

emission rates and/or other process operating parameters, shall be subject to the following requirements:

(1) The owner or operator shall install, calibrate, operate and maintain monitoring instrumentation (monitor) according to the manufacturer's procedures and specifications and the following requirements.

(a) The monitor shall be located in a position that provides a representative measurement of the parameter that is being monitored.

(b) At a minimum, the monitor shall complete one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(c) At a minimum, the monitor shall be spanned to measure the normal range +/- 5% of the parameter that is being monitored.

(d) At least semi-annually, perform a visual inspection of all components of the monitor for physical and operational integrity and all electrical connections for oxidation and galvanic corrosion.

(e) Recalibrate the monitor in accordance with the manufacturer's procedures and specifications at the frequency specified by the manufacturer, or every two years, whichever is less.

(2) Except for malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall operate and maintain all monitoring equipment at all times that the emissions unit or the associated process is operating.

(3) The monitor shall measure data for a minimum of 90 percent of the time that the emissions unit or the associated process is in operation, based on a calendar monthly average.

(4) The owner or operator shall maintain records in accordance with Section B109 to demonstrate compliance with the requirements in B108H (1)-(3) above, as applicable.

B109 General Recordkeeping Requirements

A. The permittee shall maintain records to assure and verify compliance with the terms and conditions of this permit and any other applicable requirements that become effective after permit issuance. The minimum information to be included in these records is as follows:

(1) Records required for testing and sampling:

(a) equipment identification (include make, model and serial number for all tested equipment and emission controls)

(b) date(s) and time(s) of sampling or measurements

(c) date(s) analyses were performed

(d) the qualified entity that performed the analyses

(e) analytical or test methods used

(f) results of analyses or tests

(g) operating conditions existing at the time of sampling or measurement

(2) Records required for equipment inspections and/or maintenance required by this permit:

(a) equipment identification number (including make, model and serial number)

(b) date(s) and time(s) of inspection, maintenance, and/or repair

(c) date(s) any subsequent analyses were performed (if applicable)

(d) name of the person or qualified entity conducting the inspection, maintenance, and/or repair

(e) copy of the equipment manufacturer's or the owner or operator's maintenance or repair recommendations (if required to demonstrate compliance with a permit condition)

(f) description of maintenance or repair activities conducted

(g) all results of any required parameter readings

(h) a description of the physical condition of the equipment as found during any required inspection

(i) results of required equipment inspections including a description of any condition which required adjustment to bring the equipment back into compliance and a description of the required adjustments

B. Except as provided in the Specific Conditions, records shall be maintained on-site or at the permittee's local business office for a minimum of two (2) years from the time of recording and shall be made available to Department personnel upon request. Sources subject to 20.2.70 NMAC "Operating Permits" shall maintain records on-site for a minimum of five (5) years from the time of recording.

C. Unless otherwise indicated by Specific Conditions, the permittee shall keep the following records for malfunction emissions and routine or predictable emissions during startup, shutdown, and scheduled maintenance (SSM):

(1) The owner or operator of a source subject to a permit shall establish and implement a plan to minimize emissions during routine or predictable startup, shutdown, and scheduled maintenance through work practice standards and good air pollution control practices. This requirement shall not apply to any affected facility defined in and subject to an emissions standard and an equivalent plan under 40 CFR Part 60 (NSPS), 40 CFR Part 63 (MACT), or an equivalent plan under 20.2.72 NMAC - Construction Permits, 20.2.70 NMAC - Operating Permits, 20.2.74 NMAC -

Permits - Prevention of Significant Deterioration (PSD), or 20.2.79 NMAC - Permits - Nonattainment Areas. The permittee shall keep records of all sources subject to the plan to minimize emissions during routine or predictable SSM and shall record if the source is subject to an alternative plan and therefore, not subject to the plan requirements under 20.2.7.14.A NMAC.

(2) If the facility has allowable SSM emission limits in this permit, the permittee shall record all SSM events, including the date, the start time, the end time, a description of the event, and a description of the cause of the event. This record also shall include a copy of the manufacturer's, or equivalent, documentation showing that any maintenance qualified as scheduled. Scheduled maintenance is an activity that occurs at an established frequency pursuant to a written protocol published by the manufacturer or other reliable source. The authorization of allowable SSM emissions does not supersede any applicable federal or state standard. The most stringent requirement applies.

(3) If the facility has allowable malfunction emission limits in this permit, the permittee shall record all malfunction events to be applied against these limits. The permittee shall also include the date, the start time, the end time, and a description of the event. **Malfunction means** any sudden and unavoidable failure of air pollution control equipment or process equipment beyond the control of the owner or operator, including malfunction during startup or shutdown. A failure that is caused entirely or in part by poor maintenance, careless operation, or any other preventable equipment breakdown shall not be considered a malfunction. (20.2.7.7.E NMAC) The authorization of allowable malfunction emissions does not supersede any applicable federal or state standard. The most stringent requirement applies. This authorization only allows the permittee to avoid submitting reports under 20.2.7 NMAC for total annual emissions that are below the authorized malfunction emission limit.

(4) The owner or operator of a source shall meet the operational plan defining the measures to be taken to mitigate source emissions during malfunction, startup or shutdown. (20.2.72.203.A(5) NMAC)

B110 General Reporting Requirements
(20.2.72 NMAC Sections 210 and 212)

A. Records and reports shall be maintained on-site or at the permittee's local business office unless specifically required to be submitted to the Department or EPA by another condition of this permit or by a state or federal regulation. Records for unmanned sites may be kept at the nearest business office.

B. The permittee shall notify the Department's Compliance Reporting Section using the current Submittal Form posted to NMED's Air Quality web site under Compliance and Enforcement/Submittal Forms in writing of, or provide the Department with (20.2.72.212.A and B):

(1) the anticipated date of initial startup of each new or modified source not less than thirty (30) days prior to the date. Notification may occur prior to issuance of the permit, but actual startup shall not occur earlier than the permit issuance date;

(2) after receiving authority to construct, the equipment serial number as provided by the manufacturer or permanently affixed if shop-built and the actual date of initial startup of each new or modified source within fifteen (15) days after the startup date; and

(3) the date when each new or modified emission source reaches the maximum production rate at which it will operate within fifteen (15) days after that date.

C. The permittee shall notify the Department's Permitting Program Manager, in writing of, or provide the Department with (20.2.72.212.C and D):

(1) any change of operators or any equipment substitutions within fifteen (15) days of such change;

(2) any necessary update or correction no more than sixty (60) days after the operator knows or should have known of the condition necessitating the update or correction of the permit.

D. Results of emission tests and monitoring for each pollutant (except opacity) shall be reported in pounds per hour (unless otherwise specified) and tons per year. Opacity shall be reported in percent. The number of significant figures corresponding to the full accuracy inherent in the testing instrument or Method test used to obtain the data shall be used to calculate and report test results in accordance with 20.2.1.116.B and C NMAC. Upon request by the Department, CEMS and other tabular data shall be submitted in editable, MS Excel format.

E. The permittee shall submit reports of excess emissions in accordance with 20.2.7.110.A NMAC.

F. Allowable Emission Limits for Excess Emissions Reporting for Flares and Other Regulated Sources with No Pound per Hour (pph) and/or Ton per Year (tpy) Emission Limits.

(1) When a flare has no allowable pph and/or tpy emission limits in Sections A106 and/or A107, the authorized allowable emissions include only the combustion of pilot and/or purge gas. Compliance is demonstrated by limiting the gas stream to the flare to only pilot and/or purge gas.

(2) For excess emissions reporting as required by 20.2.7 NMAC, the allowable emission limits are 1.0 pph and 1.0 tpy for each regulated air pollutant (except for H2S) emitted by that source as follows:

(a) For flares, when there are no allowable emission limits in Sections A106 and/or A107.

(b) For regulated sources with emission limits in Sections A106 or A107 represented by the less than sign ("<").

(c) For regulated sources that normally would not emit any regulated air pollutants, including but not limited to vents, pressure relief devices, connectors, etc.

(3) For excess emissions reporting as required by 20.2.7 NMAC for H2S, the allowable limits are 0.1 pph and 0.44 tpy for each applicable scenario addressed in paragraph (2) above.

B111 General Testing Requirements

Unless otherwise indicated by Specific Conditions or regulatory requirements, the permittee shall conduct testing in accordance with the requirements in Sections B111A, B, C, D and E, as applicable.

A. Initial Compliance Tests

The permittee shall conduct initial compliance tests in accordance with the following requirements:

(1) Initial compliance test requirements from previous permits (if any) are still in effect, unless the tests have been satisfactorily completed. Compliance tests may be re-imposed if it is deemed necessary by the Department to determine whether the source is in compliance with applicable regulations or permit conditions. (20.2.72 NMAC Sections 210.C and 213)

(2) Initial compliance tests shall be conducted within sixty (60) days after the unit(s) achieve the maximum normal production rate. If the maximum normal production rate does not occur within one hundred twenty (120) days of source startup, then the tests must be conducted no later than one hundred eighty (180) days after initial startup of the source.

(3) The default time period for each test run shall be **at least** 60 minutes and each performance test shall consist of three separate runs using the applicable test method. For the purpose of determining compliance with an applicable emission limit, the arithmetic mean of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Department approval, be determined using the arithmetic mean of the results of the two other runs.

(4) Testing of emissions shall be conducted with the emissions unit operating at 90 to 100 percent of the maximum operating rate allowed by the permit. If it is not possible to test at that rate, the source may test at a lower operating rate

(5) Testing performed at less than 90 percent of permitted capacity will limit emission unit operation to 110 percent of the tested capacity until a new test is conducted.

(6) If conditions change such that unit operation above 110 percent of tested capacity is possible, the source must submit a protocol to the Department within 30 days of such change to conduct a new emissions test.

B. EPA Reference Method Tests

The test methods in Section B111.B(1) shall be used for all initial compliance tests and all Relative Accuracy Test Audits (RATAs), and shall be used if a permittee chooses to use EPA test methods for periodic monitoring. Test methods that are not listed in Section B111.B(1) may be used in accordance with the requirements at Section B111.B(2).

(1) All compliance tests required by this permit shall be conducted in accordance with the requirements of CFR Title 40, Part 60, Subpart A, General Provisions, and the following EPA Reference Methods as specified by CFR Title 40, Part 60, Appendix A:

(a) Methods 1 through 4 for stack gas flowrate

(b) Method 5 for particulate matter (PM)

(c) Method 6C SO_2

(d) Method 7E for NO_X (test results shall be expressed as nitrogen dioxide (NO_2) using a molecular weight of 46 lb/lb-mol in all calculations (each ppm of NO/NO_2 is equivalent to 1.194 x 10-7 lb/SCF)

(e) Method 9 for visual determination of opacity

(f) Method 10 for CO

(g) Method 19 for particulate, sulfur dioxide and nitrogen oxides emission rates. In addition, Method 19 may be used in lieu of Methods 1-4 for stack gas flowrate. The permittee shall provide a contemporaneous fuel gas analysis (preferably on the day of the test, but no earlier than three months prior to the test date) and a recent fuel flow meter calibration certificate (within the most recent quarter) with the final test report.

(h) Method 7E or 20 for Turbines per §60.335 or §60.4400

(i) Method 22 for visual determination of fugitive emissions from material sources and smoke emissions from flares

(j) Method 25A for VOC reduction efficiency

(k) Method 29 for Metals

(l) Method 30B for Mercury from Coal-Fired Combustion Sources Using Carbon Sorbent Traps

(m) Method 201A for filterable PM_{10} and $PM_{2.5}$

(n) Method 202 for condensable PM

(o) Method 320 for organic Hazardous Air Pollutants (HAPs)

(2) Permittees may propose test method(s) that are not listed in Section B111.B(1). These methods may be used if prior approval is received from the Department.

C. Periodic Monitoring and Portable Analyzer Requirements for the Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Concentrations in Emissions from Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters

Periodic emissions tests (periodic monitoring) shall be conducted in accordance with the following requirements:

(1) Periodic emissions tests may be conducted in accordance with EPA Reference Methods or by utilizing a portable analyzer. Periodic monitoring utilizing a portable analyzer shall be conducted in accordance with the requirements of the current version of ASTM D 6522. However, if a facility has met a previously approved Department criterion for portable analyzers, the analyzer may be operated in accordance with that criterion until it is replaced.

(2) The default time period for each test run shall be **at least** 20 minutes.

Each performance test shall consist of three separate runs. The arithmetic mean of results of the three runs shall be used to determine compliance with the applicable emission limit.

(3) Testing of emissions shall be conducted in accordance with the requirements at Section B108.E.

(4) During emissions tests, pollutant and diluent concentration shall be monitored and recorded. Fuel flow rate shall be monitored and recorded if stack gas flow rate is determined utilizing Reference Method 19. This information shall be included with the test report furnished to the Department.

(5) Stack gas flow rate shall be calculated in accordance with Reference Method 19 utilizing fuel flow rate (scf) determined by a dedicated fuel flow meter and fuel heating value (Btu/scf). The permittee shall provide a contemporaneous fuel gas analysis (preferably on the day of the test, but no earlier than three months prior to the test date) and a recent fuel flow meter calibration certificate (within the most recent quarter) with the final test report. Alternatively, stack gas flow rate may be determined by using EPA Reference Methods 1-4.

(6) The permittee shall submit a notification and protocol for periodic emissions tests upon the request of the Department.

D. Initial Compliance Test and RATA Procedures

Permittees required to conduct initial compliance tests and/or RATAs shall comply with the following requirements:

(1) The permittee shall submit a notification and test protocol to the Department's Program Manager, Compliance and Enforcement Section, at least thirty (30) days before the test date and allow a representative of the Department to be present at the test. Proposals to use test method(s) that are not listed in Section B111.B(1) (if applicable) shall be included in this notification.

(2) Contents of test notifications, protocols and test reports shall conform to the format specified by the Department's Universal Test Notification, Protocol and Report Form and Instructions. Current forms and instructions are posted to NMED's Air Quality web site under Compliance and Enforcement Testing.

(3) The permittee shall provide (a) sampling ports adequate for the test methods applicable to the facility, (b) safe sampling platforms, (c) safe access to sampling platforms and (d) utilities for sampling and testing equipment.

(4) Where necessary to prevent cyclonic flow in the stack, flow straighteners shall be installed

E. General Compliance Test Procedures

The following requirements shall apply to all initial compliance and periodic emissions tests and all RATAs:

(1) Equipment shall be tested in the "as found" condition. Equipment may not be adjusted or tuned prior to any test for the purpose of lowering emissions, and then returned to previous settings or operating conditions after the test is complete.

(2) The stack shall be of sufficient height and diameter and the sample ports shall be located so that a representative test of the emissions can be performed in accordance with the requirements of EPA Reference Method 1 or the current version of ASTM D 6522, as applicable.

(3) Test reports shall be submitted to the Department no later than 30 days after completion of the test.

B112 Compliance

A. The Department shall be given the right to enter the facility at all reasonable times to verify the terms and conditions of this permit. Required records shall be organized by date and subject matter and shall at all times be readily available for inspection. The permittee, upon verbal or written request from an authorized representative of the Department who appears at the facility, shall immediately produce for inspection or copying any records required to be maintained at the facility. Upon written request at other times, the permittee shall deliver to the Department paper or electronic copies of any and all required records maintained on site or at an off-site location. Requested records shall be copied and delivered at the permittee's expense within three business days from receipt of request unless the Department allows additional time. Required records may include records required by permit and other information necessary to

demonstrate compliance with terms and conditions of this permit. (NMSA 1978, Section 74-2-13)

B. A copy of the most recent permit(s) issued by the Department shall be kept at the permitted facility or (for unmanned sites) at the nearest company office and shall be made available to Department personnel for inspection upon request. (20.2.72.210.B.4 NMAC)

C. Emissions limits associated with the energy input of a Unit, i.e. lb/MMBtu, shall apply at all times unless stated otherwise in a Specific Condition of this permit. The averaging time for each emissions limit, including those based on energy input of a Unit (i.e. lb/MMBtu) is one (1) hour unless stated otherwise in a Specific Condition of this permit or in the applicable requirement that establishes the limit.

B113 Permit Cancellation and Revocation

A. The Department may revoke this permit if the applicant or permittee has knowingly and willfully misrepresented a material fact in the application for the permit. Revocation will be made in writing, and an administrative appeal may be taken to the Secretary of the Department within thirty (30) days. Appeals will be handled in accordance with the Department's Rules Governing Appeals From Compliance Orders.

B. The Department shall automatically cancel any permit for any source which ceases operation for five (5) years or more, or permanently. Reactivation of any source after the five (5) year period shall require a new permit. (20.2.72 NMAC)

C. The Department may cancel a permit if the construction or modification is not commenced within two (2) years from the date of issuance or if, during the construction or modification, work is suspended for a total of one (1) year. (20.2.72 NMAC)

B114 Notification to Subsequent Owners

A. The permit and conditions apply in the event of any change in control or ownership of the Facility. No permit modification is required in such case. However, in the event of any such change in control or ownership, the permittee shall notify the succeeding owner of the permit and conditions and shall notify the Department’s Program Manager, Permits Section of the change in ownership within fifteen (15) days of that change. (20.2.72.212.C NMAC)

B. Any new owner or operator shall notify the Department’s Program Manager, Permits Section, within thirty (30) days of assuming ownership, of the new owner’s or operator’s name and address. (20.2.73.200.E.3 NMAC)

B115 Asbestos Demolition

A. Before any asbestos demolition or renovation work, the permittee shall determine whether 40 CFR 61 Subpart M, National Emissions Standards for Asbestos applies. If required, the permittee shall notify the Department's Program Manager, Compliance and Enforcement Section using forms furnished by the Department.

B116 Short Term Engine Replacement

A. The following Alternative Operating Scenario (AOS) addresses engine breakdown or periodic maintenance and repair, which requires the use of a short term replacement engine. The following requirements do not apply to engines that are exempt per 20.2.72.202.B(3) NMAC. Changes to exempt engines must be reported in accordance with 20.2.72.202.B NMAC. A short term replacement engine may be substituted for any engine allowed by this permit for no more than 120 days in any rolling twelve month period per permitted engine. The compliance demonstrations required as part of this AOS are in addition to any other compliance demonstrations required by this permit.

(1) The permittee may temporarily replace an existing engine that is subject to the emission limits set forth in this permit with another engine regardless of manufacturer, model, and horsepower without modifying this permit. The permittee shall submit written notification to the Department within 15 days of the date of engine substitution according to condition B110.C(1).

(a) The potential emission rates of the replacement engine shall be determined using the replacement engine's manufacturer specifications and shall comply with the existing engine's permitted emission limits.

(b) The direction of the exhaust stack for the replacement engine shall be either vertical or the same direction as for the existing engine. The replacement engine's stack height and flow parameters shall be at least as effective in the dispersion of air pollutants as the modeled stack height and flow parameters for the existing permitted engine. The following equation may be used to show that the replacement engine disperses pollutants as well as the existing engine. The value calculated for the replacement engine on the right side of the equation shall be equal to or greater than the value for the existing engine on the left side of the equation. The permitting page of the Air Quality Bureau website contains a spreadsheet that performs this calculation.

EXISTING ENGINE REPLACMENT ENGINE

$$\frac{[(g) \times (h1)] + [(v1)^2/2] + [(c) \times (T1)]}{q1} <= \frac{[(g) \times (h2)] + [(v2)^2/2] + [(c) \times (T2)]}{q2}$$

Where
g = gravitational constant = 32.2 ft/sec^2
h1 = existing stack height, feet
v1 = exhaust velocity, existing engine, feet per second
c = specific heat of exhaust, 0.28 BTU/lb-degree F
T1 = absolute temperature of exhaust, existing engine = degree F + 460
q1 = permitted allowable emission rate, existing engine, lbs/hour
h2 = replacement stack height, feet
v2 = exhaust velocity, replacement engine, feet per second
T2 = absolute temperature of exhaust, replacement engine = degree F + 460
q2 = manufacturer's potential emission rate, replacement engine, lbs/hour

The permittee shall keep records showing that the replacement engine is at least as effective in the dispersion of air pollutants as the existing engine.

(c) Test measurement of NOx and CO emissions from the temporary replacement engine shall be performed in accordance with Section B111 with the exception of Condition B111A(2) and B111B for EPA Reference Methods Tests or Section B111C for portable analyzer test measurements. Compliance test(s) shall be conducted within fifteen (15) days after the unit begins operation, and records of the results shall be kept according to section B109.B. This test shall be performed even if the engine is removed prior to 15 days on site.

i. These compliance tests are not required for an engine certified under 40CFR60, subparts IIII, or JJJJ, or 40CFR63, subpart ZZZZ if the permittee demonstrates that one of these requirements causes such engine to comply with all emission limits of this permit. The permittee shall submit this demonstration to the Department within 48 hours of placing the new unit into operation. This submittal shall include documentation that the engine is certified, that the engine is within its useful life, as defined and specified in the applicable requirement, and shall include calculations showing that the applicable emissions standards result in compliance with the permit limits.

ii. These compliance tests are not required if a test was conducted by portable analyzer or by EPA Method test (including any required by 40CFR60, subparts IIII and JJJJ and 40CFR63, subpart ZZZZ) within the last 12 months. These previous tests are valid only if conducted at the same or lower elevation as the existing engine location prior to commencing operation as a temporary replacement. A copy of the test results shall be kept according to section B109.B.

(d) Compliance tests for NOx and CO shall be conducted if requested by the Department in writing to determine whether the replacement engine is in compliance with applicable regulations or permit conditions.

(e) Upon determining that emissions data developed according to B116.A.1(c) fail to indicate compliance with either the NOx or CO emission limits, the permittee shall notify the Department within 48 hours. Also within that time, the permittee shall implement one of the following corrective actions:

i. The engine shall be adjusted to reduce NOx and CO emissions and tested per B116.A.1(c) to demonstrate compliance with permit limits.

ii. The engine shall discontinue operation or be replaced with a different unit.

(2) Short term replacement engines, whether of the same manufacturer, model, and horsepower, or of a different manufacturer, model, or horsepower, are subject to all federal and state applicable requirements, regardless of whether they are set forth in this permit (including monitoring and recordkeeping), and shall be subject to any shield afforded by this permit.

(3) The permittee shall maintain a contemporaneous record documenting the unit number, manufacturer, model number, horsepower, emission factors, emission test results, and serial number of any existing engine that is replaced, and the replacement engine. Additionally, the record shall document the replacement duration in days, and the beginning and end dates of the short term engine replacement.

(4) The permittee shall maintain records of a regulatory applicability determination for each replacement engine (including 40CFR60, subparts IIII and JJJJ and 40CFR63, subpart ZZZZ) and shall comply with all associated regulatory requirements.

B. Additional requirements for replacement of engines at sources that are major as defined in regulation 20.2.74 NMAC, Permits – Prevention of Significant Deterioration, section 7.AG. For sources that are major under PSD, the total cumulative operating hours of the replacement engine shall be limited using the following procedure:

(1) Daily, the actual emissions from the replacement engine(s) of each pollutant regulated by this permit for the existing engine shall be calculated and recorded.

(2) The sum of the total actual emissions since the commencement of operation of the replacement engine(s) shall not equal or exceed the significant emission rates in Table 2 of 20.2.74 NMAC, section 502 for the time that the replacement engine is located at the facility.

C. All records required by this section shall be kept according to section B109.

PART C MISCELLANEOUS

C100 Supporting On-Line Documents

A. Copies of the following documents can be downloaded from NMED's web site under Compliance and Enforcement or requested from the Bureau.

(1) Excess Emission Form (for reporting deviations and emergencies)

(2) Universal Stack Test Notification, Protocol and Report Form and Instructions

C101 Definitions

A. **"Daylight"** is defined as the time period between sunrise and sunset, as defined by the Astronomical Applications Department of the U.S. Naval Observatory. (Data for one day or a table of sunrise/sunset for an entire year can be obtained at http://aa.usno.navy.mil/. Alternatively, these times can be obtained from a Farmer's Almanac or from http://www.almanac.com/rise/).

B. **"Decommission"** and **"Decommissioning"** applies to units left on site (not removed) and is defined as the complete disconnecting of equipment, emission sources or activities from the process by disconnecting all connections necessary for operation (i.e. piping, electrical, controls, ductwork, etc.).

C. **"Exempt Sources"** and **"Exempt Activities"** is defined as those sources or activities that are exempted in accordance with 20.2.72.202 NMAC. Note; exemptions are only valid for most 20.2.72 NMAC permitting actions.

D. **"Fugitive Emission"** means those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

E. **"Insignificant Activities"** means those activities which have been listed by the department and approved by the administrator as insignificant on the basis of size, emissions or production rate. Note; insignificant activities are only valid for 20.2.70 NMAC permitting actions.

F. **"Malfunction"** for the requirements under 20.2.7 NMAC, means any sudden and unavoidable failure of air pollution control equipment or process equipment beyond the control of the owner or operator, including malfunction during startup or shutdown. A failure that is caused entirely or in part by poor maintenance, careless operation, or any other preventable equipment breakdown shall not be considered a malfunction. (20.2.7.7.E NMAC)

G. **"Natural Gas"** is defined as a naturally occurring fluid mixture of hydrocarbons that contains 20.0 grains or less of total sulfur per 100 standard cubic feet (SCF) and is either composed of at least 70% methane by volume or has a gross calorific value of between 950 and 1100 Btu per standard cubic foot. (40 CFR 60.631)

H. **"Natural Gas Liquids"** means the hydrocarbons, such as ethane, propane, butane, and pentane, that are extracted from field gas. (40 CFR 60.631)

I. **"National Ambient air Quality Standards"** means, unless otherwise modified, the primary (health-related) and secondary (welfare-based) federal ambient air quality standards promulgated by the US EPA pursuant to Section 109 of the Federal Act.

J. **"Night"** is the time period between sunset and sunrise, as defined by the Astronomical Applications Department of the U.S. Naval Observatory. (Data for one day or a table of sunrise/sunset for an entire year can be obtained at http://aa.usno.navy.mil/. Alternatively, these times can be obtained from a Farmer's Almanac or from http://www.almanac.com/rise/).

K. **"Night Operation** or **Operation at Night"** is operating a source of emissions at night.

L. **"NO2"** or "Nitrogen dioxide" means the chemical compound containing one atom of nitrogen and two atoms of oxygen, for the purposes of ambient determinations. The term **"nitrogen dioxide,"** for the purposes of stack emissions monitoring, shall include nitrogen dioxide (the chemical compound containing one atom of nitrogen and two atoms of oxygen), nitric oxide (the chemical compound containing one atom of nitrogen and one atom of oxygen), and other oxides of nitrogen which may test as nitrogen dioxide and is sometimes referred to as NOx or NO_2. (20.2.2 NMAC)

M. "**NOx**" see NO_2

N. "**Paved Road**" is a road with a permanent solid surface that can be swept essentially free of dust or other material to reduce air re-entrainment of particulate matter. To the extent these surfaces remain solid and contiguous they qualify as paved roads: concrete, asphalt, chip seal, recycled asphalt and other surfaces approved by the Department in writing.

O. **"Potential Emission Rate"** means the emission rate of a source at its maximum capacity to emit a regulated air contaminant under its physical and operational design, provided any physical or operational limitation on the capacity of the source to emit a regulated air contaminant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its physical and operational design only if the limitation or the effect it would have on emissions is enforceable by the department pursuant to the Air Quality Control Act or the federal Act.

P. "**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.

Q. **"Shutdown"** for requirements under 20.2.72 NMAC, means the cessation of operation of any air pollution control equipment, process equipment or process for any purpose, except routine phasing out of batch process units.

R. **"SSM"** for requirements under 20.2.7 NMAC, means routine or predictable startup, shutdown, or scheduled maintenance.

(1) **"Shutdown"** for requirements under 20.2.7 NMAC, means the cessation of operation of any air pollution control equipment or process equipment.

(2) **"Startup"** for requirements under 20.2.7 NMAC, means the setting into operation of any air pollution control equipment or process equipment.

S. **"Startup"** for requirements under 20.2.72 NMAC, means the setting into operation of any air pollution control equipment, process equipment or process for any purpose, except routine phasing in of batch process units.

C102 Acronyms

2SLB ..... 2-stroke lean burn
4SLB ..... 4-stroke lean burn
4SRB ..... 4-stroke rich burn
acfm ..... actual cubic feet per minute
AFR ..... air fuel ratio
AP-42 ..... EPA Air Pollutant Emission Factors
AQB ..... Air Quality Bureau
AQCR ..... Air Quality Control Region
ASTM ..... American Society for Testing and Materials
Btu ..... British thermal unit
CAA ..... Clean Air Act of 1970 and 1990 Amendments
CEM ..... continuous emissions monitoring
cfh ..... cubic feet per hour
cfm ..... cubic feet per minute
CFR ..... Code of Federal Regulation
CI ..... compression ignition
CO ..... carbon monoxides
COMS ..... continuous opacity monitoring system
EIB ..... Environmental Improvement Board
EPA ..... United States Environmental Protection Agency
gr/100 cf ..... grains per one hundred cubic feet
gr/dscf ..... grains per dry standard cubic foot
GRI ..... Gas Research Institute
HAP ..... hazardous air pollutant
hp ..... horsepower
H_2S ..... hydrogen sulfide
IC ..... internal combustion
KW/hr ..... kilowatts per hour

lb/hr ..... pounds per hour
lb/MMBtu ..... pounds per million British thermal unit
MACT ..... Maximum Achievable Control Technology
MMcf/hr ..... million cubic feet per hour
MMscf ..... million standard cubic feet
N/A ..... not applicable
NAAQS ..... National Ambient Air Quality Standards
NESHAP ..... National Emission Standards for Hazardous Air Pollutants
NG ..... natural gas
NGL ..... natural gas liquids
NMAAQS ..... New Mexico Ambient Air Quality Standards
NMAC ..... New Mexico Administrative Code
NMED ..... New Mexico Environment Department
NMSA ..... New Mexico Statues Annotated
NOx ..... nitrogen oxides
NSCR ..... non-selective catalytic reduction
NSPS ..... New Source Performance Standard
NSR ..... New Source Review
PEM ..... parametric emissions monitoring
PM ..... particulate matter (equivalent to TSP, total suspended particulate)
PM_{10} ..... particulate matter 10 microns and less in diameter
$PM_{2.5}$ ..... particulate matter 2.5 microns and less in diameter
pph ..... pounds per hour
ppmv ..... parts per million by volume
PSD ..... Prevention of Significant Deterioration
RATA ..... Relative Accuracy Test Assessment
RICE ..... reciprocating internal combustion engine
rpm ..... revolutions per minute
scfm ..... standard cubic feet per minute
SI ..... spark ignition
SO_2 ..... sulfur dioxide
SSM ..... Startup Shutdown Maintenance (see SSM definition)
TAP ..... Toxic Air Pollutant
TBD ..... to be determined
THC ..... total hydrocarbons
TSP ..... Total Suspended Particulates
tpy ..... tons per year
ULSD ..... ultra low sulfur diesel
USEPA ..... United States Environmental Protection Agency
UTM ..... Universal Transverse Mercator Coordinate system
UTMH ..... Universal Transverse Mercator Horizontal
UTMV ..... Universal Transverse Mercator Vertical
VHAP ..... volatile hazardous air pollutant
VOC ..... volatile organic compounds

Section 22: Certification

Company Name: Freeport-McMoRan Chino Mines Company

I, Randy Ellison, 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 16 day of February, 2026, upon my oath or affirmation, before a notary of the State of New Mexico.

Randy Ellison
Signature

2/16/2026
Date

Randy Ellison
Printed Name

General Manager
Title

Scribed and sworn before me on this 16 day of February, 2026.

My authorization as a notary of the State of New Mexico expires on the 7 day of November, 2027

B J Tozier
Notary's Signature

2-16-2026
Date

Brenda J. Tozier
Notary's Printed Name

BRENDA J TOZIER
Notary Public
State of New Mexico
Comm. # 2001149
My Comm. Exp. Nov 7, 2027

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