

STATE OF
COLORADO

Hays - DNR, Peter <peter.hays@state.co.us>

Frei Walstrum Quarry - Environmental Disaster

Pilson - CDPHE, Elizabeth <elizabeth.pilson@state.co.us>

Tue, Oct 12, 2021 at 4:42 PM

To: timpreister@aol.com

Cc: Heather Wuollet - CDPHE <heather.wuollet@state.co.us>, publisher@themountaineer.com, walstrumspuramendment@albertfreiansons.com, marypreister@aol.com, fast.dennisd@gmail.com, martie4941@gmail.com, dagar2@wispertel.net, lagar@wispertel.net, TedCJohnsonDMD@gmail.com, edrmn@msn.com, dylan.domaille@gmail.com, damesithy@gmail.com, tripley1953@gmail.com, jlowe0527@att.net, 5peaksdoc@gmail.com, michael.the.engineer@gmail.com, bobincolor@aol.com, hfrequencies@aol.com, shineingolden@gmail.com, alexinkfish@gmail.com, rockymsc@earthlink.net, pershalls@gmail.com, terricosteldia@hotmail.com, scardello@msn.com, gilfolsom@hotmail.com, mizsuzan@msn.com, debbie@goldengrouprealestate.com, karen.pavek@wispertel.net, gary.pavek@wispertel.net, peter.hays@state.co.us, jared.ebert@state.co.us, Russ Means - DNR <russ.means@state.co.us>, wsill@gilpincounty.org, lisenhart@gilpincounty.org, shollingsworth@gilpincounty.org, malone@state.co.us, 3f7xj-3859940386@sale.craigslist.org, tkharp@co.jefferson.co.us, idahikem@co.jefferson.co.us, akerr@co.jefferson.co.us, shannonmcmillan@msn.com, candybdeck@aol.com, pcm004@gmail.com, margikaspari@yahoo.com, chairman@solveccc.org, amysaxton@yahoo.com, scole@cityofblackhawk.org, jeremyfey@yahoo.com, cwesteman@coloradocommunitymedia.com, gwallace@coloradocommunitymedia.com, admin@weeklyregistercall.com, Emmett Malone - CDPHE <emmett.malone@state.co.us>, Andrew Bare - CDPHE <andrew.bare@state.co.us>

Mr. and Mrs. Preister,

Thank you for reaching out to the Air Pollution Control Division (APCD) on this issue. To date, the APCD has not received an application for the quarry expansion that you are referencing or to make any changes to the Valley Fill operation air permit (the most current air permits for both are attached). Once an application is received, it will go through the air permitting process, which includes an evaluation of air emissions at the facility.

With respect to the dust issues that occurred on Saturday Oct 9, 2021. Thank you for submitting the pictures, APCD will be investigating further on this issue to determine compliance with air regulations.

I will call you today to speak with you more about this.

Thank you,

Beth Pilson**Compliance Monitoring Unit Supervisor**

Compliance and Enforcement Program

**COLORADO****Air Pollution Control Division**

Department of Public Health & Environment

P 303.692.3247 | F 303.782.0278

4300 Cherry Creek Drive South, APCD-SS-B1, Denver, CO 80246-1530

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[Quoted text hidden]

2 attachments

**047-0010-001_PRMT FA_07GI0347F_6-25-2009.PDF**

215K

**019-0008_PRMT ISS 1_20CC0702_4-2-2021.pdf**

728K

STATE OF COLORADO

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
AIR POLLUTION CONTROL DIVISION
TELEPHONE: (303) 692-3150



CONSTRUCTION PERMIT

PERMIT NO: **07GI0347F**

DATE ISSUED: **JUN 25 2009**

FINAL APPROVAL

ISSUED TO: **Albert Frei and Sons, Inc.**

THE SOURCE TO WHICH THIS PERMIT APPLIES IS DESCRIBED AND LOCATED AS FOLLOWS:

Valley fill project, known as **Albert and Mary Jane Frei Trust**, located in Section 35, Township 3 South, Range 72 West, approximately 5 miles southeast of Black Hawk, Gilpin County, Colorado.

THE SPECIFIC EQUIPMENT OR ACTIVITY SUBJECT TO THIS PERMIT INCLUDES THE FOLLOWING:

Haulage of dirt from neighboring quarries, dumping, leveling / grading. Emissions of fugitive particulate matter is abated using emission control measures.

THIS PERMIT IS GRANTED SUBJECT TO ALL RULES AND REGULATIONS OF THE COLORADO AIR QUALITY CONTROL COMMISSION AND THE COLORADO AIR POLLUTION PREVENTION AND CONTROL ACT C.R.S. (25-7-101 et seq), TO THOSE GENERAL TERMS AND CONDITIONS INCLUDED IN THIS DOCUMENT AND THE FOLLOWING SPECIFIC TERMS AND CONDITIONS:

1. The particulate emission control measures listed on the attached page (as approved by the Division) shall be applied to the particulate emission producing sources as required by Regulation No. 1, Section III.D.1.b.
2. This source shall be limited to a material handling rate as listed below and all other activities, operational rates and numbers of equipment as stated in the application. Annual records of the actual production rate shall be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation No. 3, Part B, Section II.A.4.)

Dirt (overburden and aggregate plant rejects) handled shall not exceed
1,530,000 tons per year.

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3. Emissions of air pollutants shall not exceed the following limitations (as calculated in the Division's preliminary analysis): (Reference: Regulation No. 3, Part B, Section II.A.4.)

Particulate Matter - Fugitive: 26.0 tons per year.

PM10 (Particulate Matter < 10 µm) - Fugitive: 9.0 tons per year.

Compliance with the fugitive particulate matter emission limits shall be demonstrated by not exceeding the material handling limit, and by the application of the emission control measures.

4. A Revised Air Pollutant Emission Notice (APEN) shall be filed: (Reference: Regulation No. 3, Part A, Section II.C.)

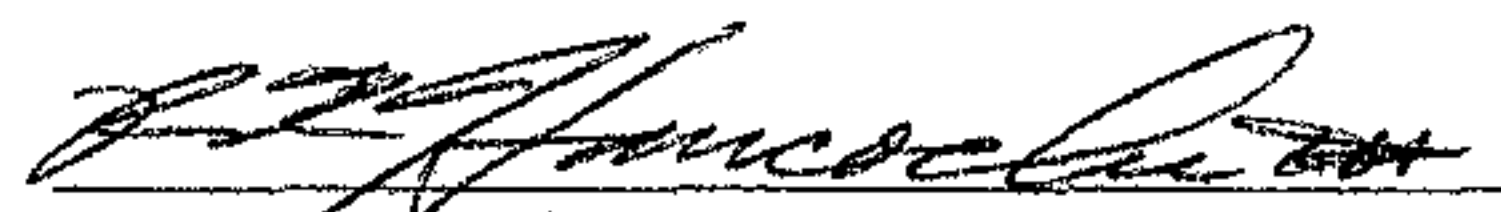
- a. Annually whenever a significant increase in emissions occurs as follows:

For any criteria pollutant:

For sources emitting **less than 100 tons per year**, a change in actual emissions of five tons per year or more, above the level reported on the last APEN submitted; or

- b. Whenever there is a change in the owner or operator of any facility, process, or activity; or
- c. Whenever new control equipment is installed, or whenever a different type of control equipment replaces an existing type of control equipment; or
- d. Whenever a permit limitation must be modified; or
- e. No later than 30 days before the existing APEN expires. APEN/s expires five (5) years from the date/s of submittal.


Dennis M. Myers, P.E.
Permit Review Engineer


R K Hancock III, P.E.
Construction Permits Unit Supervisor

Albert Frei and Sons, Inc. – Albert and Mary Jane Frei Trust
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Permit History:

Date	Action	Description
May 23, 2007	IA	Initial Approval. Issued to Albert Frei and Sons, Inc.
This Issuance	FA	Final Approval. Issued to Albert Frei and Sons, Inc.

APEN Submittal Log (to be maintained further by the permittee):

APEN Submittal Date	APEN Expiry Date	Renewal APEN to be submitted by	Remarks
April 16, 2007	April 16, 2012	March 17, 2012	

Notes to Permit Holder:

- 1) The material handling and emission limits contained in this permit are based on the production/processing rates requested in the permit application. These limits may be revised upon request of the permittee providing there is no exceedance of any specific emission control regulation or any ambient air quality standard. A revised air pollution emission notice (APEN) and application form must be submitted with a request for a permit revision.
- 2) This source is subject to the Common Provisions Regulation Part II, Subpart E, Affirmative Defense Provision for Excess Emissions During Malfunctions. The permittee shall notify the Division of any malfunction condition which causes a violation of any emission limit or limits stated in this permit as soon as possible, but no later than noon of the next working day, followed by written notice to the Division addressing all of the criteria set forth in Part II.E.1. of the Common Provisions Regulation. See: <http://www.cdphe.state.co.us/regulations/airregs/100102aqcccommonprovisionsreg.pdf>.
- 3) This source is classified as a:
Minor Source
At a: Minor Facility

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- 4) The emission levels contained in this permit are based on the following emission factors:

Truck haulage (pounds per vehicle-mile-traveled). 7,250 Vehicle-Mile-Traveled/year

Pollutant	EmiFactor	Emission Controls	Cont.Eff. %
Particulate Matter – Fugitive	18.5116	Graveling / Frequent	75.00
PM10 – Fugitive	5.3500	Watering	75.00

Material dumping (pounds per ton material handled). 1,530,000 tons / year

Pollutant	EmiFactor	Emission Controls	Cont.Eff. %
Particulate Matter – Fugitive	0.0040	Moist Material	50.00
PM10 – Fugitive	0.0020		50.00

Dozer / Front End Loader operation (pounds per hour of operation). 1,000 hours/year

Pollutant	EmiFactor	Emission Controls	Cont.Eff. %
Particulate Matter – Fugitive	60.0000	Water Sprays	75.00
PM10 – Fugitive	24.0000		75.00

- 5) This source is subject to the Common Provisions Regulation Part II, Subpart E, Affirmative Defense Provision for Excess Emissions During Malfunctions. The permittee shall notify the Division of any malfunction condition which causes a violation of any emission limit or limits stated in this permit as soon as possible, but no later than noon of the next working day, followed by written notice to the Division addressing all of the criteria set forth in Part II.E.1. of the Common Provisions Regulation. See: <http://www.cdphe.state.co.us/regulations/airregs/100102aqcccommonprovisionsreg.pdf>.

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PARTICULATE EMISSIONS CONTROL PLAN FOR MATERIAL PROCESSING ACTIVITIES

THE FOLLOWING PARTICULATE EMISSIONS CONTROL MEASURES SHALL BE USED FOR COMPLIANCE PURPOSES ON THE ACTIVITIES COVERED BY THIS PERMIT, AS REQUIRED BY THE AIR QUALITY CONTROL COMMISSION REGULATION NO.1, Section III.D.1.b. THIS SOURCE IS SUBJECT TO THE FOLLOWING EMISSION GUIDELINES:

- a. **Processing Activities** - Visible emissions not to exceed 20% opacity, no off-property transport of visible emissions.
- b. **Haul Roads** - No off-property transport of visible emissions shall apply to on-site haul roads, the nuisance guidelines shall apply to off-site haul roads.
- c. **Haul Trucks** - There shall be no off-property transport of visible emissions from haul trucks when operating on the property of the owner or operator. There shall be no off-vehicle transport of visible emissions from the material in the haul trucks when operating off of the property of the owner or operator.

Control Measures

- 1. Material stockpiles shall be sprayed with tacifier-treated water as necessary to control fugitive particulate emissions.
- 2. Plant entryway, truck service roads, and areas used in connection with the activities shall be graveled, and watered (with tacifier-treated water) frequently to effectively control the emissions.
- 3. Vehicle speed on haul roads and service roads shall be restricted to 15 miles per hour. Speed limit signs shall be posted.
- 4. Activities generating fugitive particulate matter emissions shall be suspended if the wind speed exceeds 30 miles per hour. Activities shall be resumed only after the winds calm down.

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GENERAL TERMS AND CONDITIONS: (IMPORTANT! READ ITEMS 5,6,7 AND 8)

1. This permit is issued in reliance upon the accuracy and completeness of information supplied by the applicant and is conditioned upon conduct of the activity, or construction, installation and operation of the source, in accordance with this information and with representations made by the applicant or applicant's agents. It is valid only for the equipment and operations or activity specifically identified on the permit.
2. Unless specifically stated otherwise, the general and specific conditions contained in this permit have been determined by the APCD to be necessary to assure compliance with the provisions of Section 25-7-114.5(7)(a), C.R.S.
3. Each and every condition of this permit is a material part hereof and is not severable. Any challenge to or appeal of, a condition hereof shall constitute a rejection of the entire permit and upon such occurrence, this permit shall be deemed denied *ab initio*. This permit may be revoked at any time prior to final approval by the Air Pollution Control Division (APCD) on grounds set forth in the Colorado Air Quality Control Act and regulations of the Air Quality Control Commission (AQCC), including failure to meet any express term or condition of the permit. If the Division denies a permit, conditions imposed upon a permit are contested by the applicant, or the Division revokes a permit, the applicant or owner or operator of a source may request a hearing before the AQCC for review of the Division's action.
4. This permit and any required attachments must be retained and made available for inspection upon request at the location set forth herein. With respect to a portable source that is moved to a new location, a copy of the Relocation Notice (required by law to be submitted to the APCD whenever a portable source is relocated) should be attached to this permit. The permit may be reissued to a new owner by the APCD as provided in AQCC Regulation No. 3, Part B, Section II.B. upon a request for transfer of ownership and the submittal of a revised APEN and the required fee.
5. Issuance (initial approval) of an emission permit does not provide "final" authority for this activity or operation of this source. Final approval of the permit must be secured from the APCD in writing in accordance with the provisions of 25-7-114.5(12)(a) C.R.S. and AQCC Regulation No. 3, Part B, Section III.G. Final approval cannot be granted until the operation or activity commences and has been verified by the APCD as conforming in all respects with the conditions of the permit. If the APCD so determines, it will provide written documentation of such final approval, which does constitute "final" authority to operate. ***Compliance with the permit conditions must be demonstrated within 180 days after commencement of operation.***
6. **THIS PERMIT AUTOMATICALLY EXPIRES IF** you (1) do not commence construction or operation within 18 months after either the date of issuance of this permit or the date on which such construction or activity was scheduled to commence as set forth in the permit, whichever is later; (2) discontinue construction for a period of 18 months or more; or (3) do not complete construction within a reasonable time of the estimated completion date. Extensions of the expiration date may be granted by the APCD upon a showing of good cause by the permittee prior to the expiration date.
7. **YOU MUST notify the APCD no later than thirty days after commencement of the permitted operation or activity by submitting a Notice of Startup (NOS) form to the APCD.** The Notice of Startup (NOS) form may be downloaded online at www.cdphe.state.co.us/ap/downloadforms.html. Failure to do so is a violation of AQCC Regulation No. 3, Part B, Section III.G.1., and can result in the revocation of the permit. *You must demonstrate compliance with the permit conditions within 180 days after commencement of operation as stated in condition 5.*
8. Section 25-7-114.7(2)(a), C.R.S. requires that all sources required to file an Air Pollution Emission Notice (APEN) must **pay an annual fee** to cover the costs of inspections and administration. If a source or activity is to be discontinued, the owner must notify the Division in writing requesting a cancellation of the permit. Upon notification, annual fee billing will terminate.
9. Violation of the terms of a permit or of the provisions of the Colorado Air Pollution Prevention and control Act or the regulations of the AQCC may result in administrative, civil or criminal enforcement actions under Sections 25-7-115 (enforcement), -121 (injunctions), -122 (civil penalties), -122.1 (criminal penalties), C.R.S.



CONSTRUCTION PERMIT

Permit number: **20CC0702**

Issuance: **1**

Date issued: April 2, 2021

Issued to: **Albert Frei and Sons, Inc.**

Facility Name: Walstrum Quarry
Plant AIRS ID: 019/0008
Physical Location: 33501 Highway 6 and I-70
County: Clear Creek County
General Description: Sand and gravel mining and processing facility

Equipment or activity subject to this permit:

This is a facility-wide permit covering all equipment/activities at the Walstrum Quarry, including mining and processing. Details of the equipment/activities covered are listed in Attachment A & Attachment B. Specific provisions applicable to the equipment/activities are also included in these attachments.

THIS PERMIT IS GRANTED SUBJECT TO ALL RULES AND REGULATIONS OF THE COLORADO AIR QUALITY CONTROL COMMISSION AND THE COLORADO AIR POLLUTION PREVENTION AND CONTROL ACT C.R.S. (25-7-101 et seq), TO THOSE GENERAL TERMS AND CONDITIONS INCLUDED IN THIS DOCUMENT AND THE FOLLOWING SPECIFIC TERMS AND CONDITIONS:

REQUIREMENTS TO SELF-CERTIFY FOR FINAL APPROVAL

1. Within one hundred and eighty days (180) after issuance of this permit, compliance with the conditions contained on this permit must be demonstrated to the Division. It is the permittee's responsibility to self-certify compliance with the conditions. Failure to demonstrate compliance within 180 days may result in revocation of the permit or enforcement action by the Division. Information on how to certify compliance was mailed with the permit or can be obtained from the Division's website. Search for "Colorado air permit self-certification" in a search engine to find self-certification info. (Reference: Regulation Number 3, Part B, III.G.2).
2. The owner or operator must develop an operating and maintenance (O&M) plan, along with a recordkeeping format, that outlines how the applicant will maintain compliance on an ongoing basis with the requirements of this permit. **Compliance with the O&M plan must commence at startup.** Within one hundred and eighty days (180) after issuance of this permit, the owner or operator must submit the O&M plan to the Division. Failure to submit an acceptable operating and maintenance plan could result in revocation of the permit. Note that the Division may modify the monitoring requirements as part of the Title V Operating Permit if this facility is subject to Title V permitting (Reference: Regulation Number 3, Part B, III.G.7.).



EMISSION LIMITATIONS AND RECORDS

3. Emissions of air pollutants must not exceed the following limitations (as calculated using the emission factors included in Attachment A and Attachment B of this permit). Daily and monthly records of the actual emission rates must be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation Number 3, Part B, II.A.4)

Daily Emission Limits:

Point Description	AIRS Point	Pounds per Day					Emission Type
		PM	PM ₁₀	PM _{2.5}	NO _x	CO	
Mining and Hauling Operations	001	515.9	166.5	23.3	392.2	2,479.0	Fugitive
Transfer Points		42.4	15.6	4.4	-	-	Point
Cone A	015	0.2	0.1	0.1	-	-	Point
		2.0	1.0	0.2	-	-	Fugitive
Cone B	016	0.2	0.1	0.1	-	-	Point
		2.0	1.0	0.2	-	-	Fugitive
Cone C	017	0.2	0.1	0.1	-	-	Point
		2.0	1.0	0.2	-	-	Fugitive
Finish Screen A	018	0.7	0.3	0.1	-	-	Point
Finish Screen B	019	0.7	0.3	0.1	-	-	Point
Finish Screen C	020	0.7	0.3	0.1	-	-	Point
Scalper Screen	023	47.9	16.7	1.2	-	-	Point
Rip Rap Screen	024	41.5	14.5	1.0	-	-	Point
Jaw Crusher	025	27.4	12.2	2.3	-	-	Point
		22.1	10.5	1.6	-	-	Fugitive
89 Screen	026	12.8	4.5	0.3	-	-	Point
Check Screen	030	47.9	16.7	1.2	-	-	Point
TOTAL*		222.2	80.8	10.3	-	-	Point
		543.9	179.7	25.3	392.2	2,479.0	Fugitive

**Total emissions limit may not match the sum of individual limits, as individual point limits are rounded up to the nearest tenth of a pound, while the total limit is only rounded up to the nearest tenth of a pound after summing. See "Notes to Permit Holder" for information on emission factors and methods used to calculate limits.*

Note: In the absence of credible evidence to the contrary, compliance with the fugitive emission limits is demonstrated by complying with the production limits listed below and by following the attached particulate emissions control plan.

Annual Emission Limits:

Point Description	AIRS Point	Tons per Year					Emission Type
		PM	PM ₁₀	PM _{2.5}	NO _x	CO	
Mining and Hauling Operations	001	45.4	15.5	2.2	14.1	88.8	Fugitive
Transfer Points		4.3	1.6	0.5	-	-	Point
Cone A	015	0.1	0.1	-	-	-	Point
		0.3	0.1	-	-	-	Fugitive
Cone B	016	0.1	0.1	-	-	-	Point
		0.3	0.1	-	-	-	Fugitive
Cone C	017	0.1	0.1	-	-	-	Point
		0.3	0.1	-	-	-	Fugitive
Finish Screen A	018	0.1	0.1	-	-	-	Point
Finish Screen B	019	0.1	0.1	-	-	-	Point
Finish Screen C	020	0.1	0.1	-	-	-	Point
Scalper Screen	023	4.8	1.7	-	-	-	Point
Rip Rap Screen	024	1.4	0.5	-	-	-	Point
Jaw Crusher	025	2.8	1.3	-	-	-	Point
		2.5	1.2	-	-	-	Fugitive
89 Screen	026	0.8	0.3	-	-	-	Point
Check Screen	030	2.7	1.0	-	-	-	Point
TOTAL*		16.9	6.3	0.5	-	-	Point
		48.5	17.0	2.2	14.1	88.8	Fugitive

**Total emissions limit may not match the sum of individual limits, as individual point limits are rounded up to the nearest tenth of a ton, while the total limit is only rounded up to the nearest tenth of a ton after summing. See "Notes to Permit Holder" for information on emission factors and methods used to calculate limits.*

Note: In the absence of credible evidence to the contrary, compliance with the fugitive emission limits is demonstrated by complying with the production limits listed below and by following the attached particulate emissions control plan.

Compliance with the annual limits must be determined on a rolling twelve (12) month total. By the end of each month a new twelve-month total is calculated based on the previous twelve months' data. The permit holder must calculate actual emissions each month and keep a compliance record on site or at a local field office with site responsibility for Division review.

The owner or operator must use the emission factors found in the notes to permit holder, Attachment A, and Attachment B to calculate emissions and show compliance with the limits. The owner or operator must submit an Air Pollutant Emission Notice (APEN) and receive a modified permit prior to the use of any other method of calculating emissions.

PROCESS LIMITATIONS AND RECORDS

4. This source must be limited to the following maximum consumption, processing and/or operational rates as listed below. Daily, monthly, and annual records of the actual process rate must be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation Number 3, Part B, II.A.4)

Production Limits:

AIRS Point	Production Parameter	Daily Limit (tons/day)	Annual Limit (tons/year)
001	Sand and gravel extraction	22,500	4,500,000
	ANFO and emulsion explosive blasting (in ANFO-equivalent tons)*	37	2,650
015	Throughput of crushed material	16,000	3,200,000
016	Throughput of crushed material	16,000	3,200,000
017	Throughput of crushed material	16,000	3,200,000
018	Throughput of screened material	25,568	5,113,640
019	Throughput of screened material	25,568	5,113,640
020	Throughput of screened material	25,568	5,113,640
023	Throughput of screened material	22,500	4,500,000
024	Throughput of screened material	19,500	1,300,000
025	Throughput of crushed material	22,500	4,500,000
026	Throughput of screened material	6,000	750,000
030	Throughput of screened material	22,500	2,500,000

*For explosive blasting, tons of emulsion explosive can be converted to ANFO-equivalent tons using the following equation:

$$\text{Total ANFO-equivalent tons} = \text{Total ANFO (tons)} + [0.75 \times \text{Total Emulsion (tons)}]$$

Compliance with the yearly process limits must be determined on a rolling twelve (12)-month total. By the end of each month a new twelve-month total is calculated based on the previous twelve months' data. The permit holder must calculate monthly process rates and keep a compliance record on site or at a local field office with site responsibility, for Division review.

STATE AND FEDERAL REGULATORY REQUIREMENTS

5. Visible emissions from conveyors and transfer points must not exceed twenty percent (20%) opacity during normal operation of the source. During periods of startup, process modification, or adjustment of control equipment visible emissions must not exceed thirty percent (30%) opacity for more than six minutes in any sixty consecutive minutes. (Reference: Regulation Number 1, II.A.1. & 4.)
6. The owner or operator must use the equipment listed in the table below to control particulate matter emissions as needed to meet the applicable opacity limits if material moisture content alone is insufficient. The emission control devices must be inspected, monitored, maintained / renewed, and operated as per the manufacturers' recommendations, or maintained in accordance with good air pollution control practices to ensure the satisfactory performance of the devices. (Reference: Regulation Number 3, Part B, III.E.)

Facility Equipment ID	AIRS Point	Control Device	Controlled Pollutants
Cone A	015	Complete enclosure	PM, PM ₁₀
Cone B	016	Complete enclosure	PM, PM ₁₀
Cone C	017	Complete enclosure	PM, PM ₁₀
Finish Screen A	018	Complete enclosure	PM, PM ₁₀
Finish Screen B	019	Complete enclosure	PM, PM ₁₀
Finish Screen C	020	Complete enclosure	PM, PM ₁₀
Scalper Screen	023	Water spray bars	PM, PM ₁₀
Rip Rap Screen	024	Water spray bars	PM, PM ₁₀
Jaw Crusher	025	Water spray bars	PM, PM ₁₀
89 Screen	026	Water spray bars	PM, PM ₁₀
Check Screen	030	Water spray bars	PM, PM ₁₀

7. All conveyors and transfer points will be subject to the New Source Performance Standards requirements of Regulation number 6, Subpart 000 **whenever** there is primary crushing capacity greater than 150 tons per hour (portable equipment) or 25 tons per hour (fixed equipment) at this location as follows:

[The requirements below reflect the rule language of 40 CFR Part 60 Subpart 000 published in the Federal Register on 4/28/2009. However, if revisions to this Subpart are published at a later date, the owner or operator is subject to the requirements contained in the revised version of 40 CFR Part 60, Subpart 000.]

- a. Visible emissions from each crusher must not exceed twelve percent (12%) opacity.
- b. Visible emissions from each screen and transfer point must not exceed seven percent (7%) opacity.

8. The owner or operator of this facility is subject to the following requirements of Regulation Number 6, Part A, Subpart A, General Provisions (40CFR part 60, Subpart A).
- a. At all times, including periods of start-up, shutdown, and malfunction, the facility and control equipment must, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practices for minimizing emissions. Determination of whether or not acceptable operating and maintenance procedures are being used will be based on information available to the Division, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. (Reference: Regulation 6, Part A. General Provisions from 40CFR60.11)
 - b. No article, machine, equipment or process must be used to conceal an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (§ 60.12)
 - c. Written notification of construction and initial startup dates must be submitted to the Division as required under § 60.7.
 - d. Records of startups, shutdowns, and malfunctions must be maintained, as required under § 60.7.
 - e. Written notification of opacity observation or monitor demonstrations must be submitted to the Division as required under § 60.7.
 - f. Compliance with opacity standards must be demonstrated according to § 60.11.
9. Public access must be precluded in all areas within the Controlled Boundary, as shown in Attachment C. No trespassing signs must be posted along the Controlled Boundary at reasonable points of public access and at reasonable intervals along any unfenced portions of the property boundary. Non-fenced posting is only acceptable along boundaries where it is reasonable to conclude that the steep terrains would preclude public access. In any areas where public access is possible, a fence must be erected with no trespassing signs.
10. To maintain compliance with the National Ambient Air Quality Standards (NAAQS), this quarry must only operate according to the following schedule:

December - February:	5 am - 8 pm
March - November:	4 am - 10 pm

A daily log of operating hours must be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation Number 3, Part B, III.D.1.c.)

OPERATING & MAINTENANCE REQUIREMENTS

11. The owner or operator must develop an operating and maintenance (O&M) plan, along with a recordkeeping format, that outlines how the applicant will maintain compliance on an ongoing basis with the requirements of this permit. **Compliance with the O&M plan must commence at startup.** Within one hundred and eighty days (180) after commencement of operation or issuance of this permit, whichever is later, the owner or operator must submit the O&M plan to the Division. Failure to submit an acceptable operating and maintenance plan could result in revocation of the permit. Note that the Division may modify the monitoring requirements as part of the Title V Operating Permit if this facility is subject to Title V permitting (Reference: Regulation Number 3, Part B, III.G.7.).

COMPLIANCE TESTING AND SAMPLING

Periodic Testing Requirements

12. Periodic testing is not required for this source.

ADDITIONAL REQUIREMENTS

13. This permit replaces the following permits points, which are canceled upon issuance of this permit.

Permit Number	AIRS ID	Notes
83CC104-1F	019/0008/001	The equipment and activities of these permits have been incorporated into facility-wide permit number 20CC0702.
16CC0150	019/0008/023	
19CC0874	019/0008/030	
08CC1060	019/0008/012	The emissions formerly under AIRS point 012 are now incorporated into the point emissions of AIRS point 001.

14. The AIRS ID number must be posted in an easily visible location for ease of identification. (Reference: Regulation Number 3, Part B, III.E.) (State only enforceable)
15. The particulate emission control measures listed on the attached page (as approved by the Division) must be applied to the particulate emission producing sources as required by Regulation Number 1, III.D.1.b.
16. The terms, conditions and information contained in Attachments A & B are hereby incorporated into this permit, and are enforceable as if fully set forth herein including, but not limited to, emission point description, emission factor summary, emission limits or other limitations, controls, and specific requirements. (Reference: Regulation Number 3, Part B III.E.)
17. This permit is for the activities specified above; any additional process equipment (i.e. crushers, screens, etc.) to be located at this site must have a separate permit from the Division. (Reference: Regulation Number 3, Part B, III.E.)

18. A Revised Air Pollutant Emission Notice (APEN) must be filed: (Reference: Regulation Number 3, Part A, II.C.)

- a. By April 30 of the year following a significant increase in emissions. A significant increase in emissions is defined as follows:

For any criteria pollutant:

For sources emitting **less than 100 tons per year**, a change in annual actual emissions of five (5) tons per year or more, above the level reported on the last APEN; or

For sources emitting **any amount of lead**, a change in actual emissions of fifty (50) pounds of lead above the level reported on the last APEN submitted.

For any non-criteria reportable pollutant:

If the emissions increase by 50% or five (5) tons per year, whichever is less, above the level reported on the last APEN submitted to the Division.

- b. Whenever there is a change in the owner or operator of any facility, process, or activity; or
- c. Whenever new control equipment is installed, or whenever a different type of control equipment replaces an existing type of control equipment; or
- d. Whenever a permit limitation must be modified; or
- e. No later than 30 days before the existing APEN expires.

GENERAL TERMS AND CONDITIONS:

19. This permit and any attachments must be retained and made available for inspection upon request. The permit may be reissued to a new owner by the Division as provided in Regulation Number 3, Part B, II.B upon a request for transfer of ownership and the submittal of a revised APEN and the required fee.
20. If this permit specifically states that final approval has been granted, then the remainder of this condition is not applicable. Otherwise, the issuance of this construction permit is considered initial approval and does not provide "final" approval for this activity or operation of this source. Final approval of the permit must be secured from the APCD in writing in accordance with the provisions of 25-7-114.5(12)(a) C.R.S. and AQCC Regulation Number 3, Part B, III.G. Final approval cannot be granted until the operation or activity commences and has been verified by the APCD as conforming in all respects with the conditions of the permit. Once self-certification of all points has been reviewed and approved by the Division, it will provide written documentation of such final approval. **Details for obtaining final approval to operate are located in the Requirements to Self-Certify for Final Approval section of this permit.** The operator must retain the permit final approval letter issued by the Division after completion of self-certification with the most current construction permit.

21. This permit is issued in reliance upon the accuracy and completeness of information supplied by the applicant and is conditioned upon conduct of the activity, or construction, installation and operation of the source, in accordance with this information and with representations made by the applicant or applicant's agents. It is valid only for the equipment and operations or activity(ies) specifically identified in this permit. If subsequent operations or testing at the source indicate the information supplied to obtain this permit and relied upon in the creation and issuance of this permit is inaccurate, the source must submit an application to modify the permit to address the inaccuracy(ies). (Reference: Regulation Number 3, Part B III.E.)

By: 

Jonathan Brickey, P.E.
Permit Engineer

By: 

For: K.C. Houlden
Construction Permits Unit Supervisor

Permit History

Issuance	Date	Description
Issuance 1	This Issuance	Issued to Albert Frei and Sons, Inc.

Notes to Permit Holder (as of permit issuance):

- 1) The production or raw material processing limits and emission limits contained in this permit are based on the production/processing rates requested in the permit application. These limits may be revised upon request of the permittee providing there is no exceedence of any specific emission control regulation or any ambient air quality standard. A revised air pollutant emission notice (APEN) and application form must be submitted with a request for a permit revision. (Reference: Regulation Number 3, Part B II.A.4.)
- 2) This source is subject to the Common Provisions Regulation Part II, Subpart E, Affirmative Defense Provision for Excess Emissions During Malfunctions. The permittee must notify the Division of any malfunction condition which causes a violation of any emission limit or limits stated in this permit as soon as possible, but no later than noon of the next working day, followed by written notice to the Division addressing all of the criteria set forth in Part II.E.1. of the Common Provisions Regulation. See: <https://www.colorado.gov/pacific/cdphe/aqcc-regs>.

- 3) The transfer point emission levels contained in this permit are based on the following emission factors:

Transfer Point Emissions:

Pollutant	Emission Factors - Uncontrolled (per transfer point)		Emission Factors - Controlled* (per transfer point)	
	lb/ton	Source	lb/ton	Source
PM	0.0030	AP-42 Table 11.19.2-2	0.000126	Division-calculated
PM ₁₀	0.0011	AP-42 Table 11.19.2-2	0.000046	AP-42 Table 11.19.2-2
PM _{2.5}	0.00031	Ratio from uncontrolled PM ₁₀ using the PM ₁₀ and PM _{2.5} controlled emission factors	0.000013	AP-42 Table 11.19.2-2

* Emissions controlled by water spray bars and/or moist material

In developing the emissions limits in this permit, it was assumed there are 15 transfer points. Emissions are calculated using the following formula:

$$\text{Emissions (in tons)} = (\text{EF} \times \text{Y} \times \text{N}) / 2,000$$

Where:

EF = emission factor per the table above

Y = throughput of material in tons

N = number of transfer points

Emission factors for other activities can be found in Attachment A and Attachment B.

- 4) In accordance with C.R.S. 25-7-114.1, each Air Pollutant Emission Notice (APEN) associated with this permit is valid for a term of five years from the date it was received by the Division. A revised APEN must be submitted no later than 30 days before the five-year term expires. Please refer to the most recent annual fee invoice to determine the APEN expiration date for each emissions point associated with this permit. For any questions regarding a specific expiration date call the Division at (303)-692-3150.
- 5) This facility is classified as follows:

Applicable Requirement	Status
Operating Permit	Synthetic minor source for PM ₁₀
PSD	Synthetic minor source for PM

- 6) Full text of the Title 40, Protection of Environment Electronic Code of Federal Regulations can be found at the website listed below:

http://www.ecfr.gov/cgi-bin/text-idx?gp=&SID=2a3fbebe8f5c2f47006ad49ae4b4c080&mc=true&tpl=/ecfrbrowse/Title40/40tab_02.tpl

Part 60: Standards of Performance for New Stationary Sources		
NSPS	\$60.670 - \$60.676	Subpart 000

- 7) The permit holder is required to pay fees for the processing time for this permit. An invoice for these fees will be issued after the permit is issued. Failure to pay the invoice will result in revocation of this permit. The permit holder must pay the invoice within 30 days of receipt of the invoice (Reference: Regulation Number 3, Part A, VI.B.).
- 8) Unless specifically stated otherwise, the general and specific conditions contained in this permit have been determined by the Division to be necessary to assure compliance with the provisions of Section 25-7-114.5(7)(a), C.R.S.
- 9) Each and every condition of this permit is a material part hereof and is not severable. Any challenge to or appeal of a condition hereof must constitute a rejection of the entire permit and upon such occurrence, this permit must be deemed denied *ab initio*. This permit may be revoked at any time prior to self-certification and final authorization by the Division on grounds set forth in the Colorado Air Pollution Prevention and Control Act and regulations of the AQCC including failure to meet any express term or condition of the permit. If the Division denies a permit, conditions imposed upon a permit are contested by the applicant, or the Division revokes a permit, the applicant or owner or operator of a source may request a hearing before the AQCC for review of the Division's action. (Reference: Regulation Number 3, Part B III.F.)
- 10) Section 25-7-114.7(2)(a), C.R.S. requires that all sources required to file an Air Pollutant Emission Notice (APEN) must **pay an annual emission fee**. If a source or activity is to be discontinued, the owner must notify the Division in writing requesting a cancellation of the permit. Upon notification, annual fee billing will terminate.
- 11) Violation of the terms of a permit or of the provisions of the Colorado Air Pollution Prevention and Control Act or the regulations of the AQCC may result in administrative, civil or criminal enforcement actions under Sections 25-7-115 (enforcement), -121 (injunctions), -122 (civil penalties), -122.1 (criminal penalties), C.R.S.

PARTICULATE EMISSIONS CONTROL PLAN FOR MINING AND PROCESSING ACTIVITIES

THE FOLLOWING PARTICULATE EMISSIONS CONTROL MEASURES MUST BE USED FOR COMPLIANCE PURPOSES ON THE ACTIVITIES COVERED BY THIS PERMIT, AS REQUIRED BY THE AIR QUALITY CONTROL COMMISSION REGULATION NUMBER 1, III.D.1.b. THIS SOURCE IS SUBJECT TO THE FOLLOWING EMISSION GUIDELINES:

- a. **Mining and Processing Activities** - Visible emissions not to exceed 20%, no off-property transport of visible emissions.
- b. **Haul Roads** - No off-property transport of visible emissions must apply to on-site haul roads, the nuisance guidelines must apply to off-site haul roads.
- c. **Haul Trucks** - There must be no off-property transport of visible emissions from haul trucks when operating on the property of the owner or operator. There must be no off-vehicle transport of visible emissions from the material in the haul trucks when operating off of the property of the owner or operator.

Control Measures

- 1. Emissions from material handling (i.e. removal, loading, and hauling) must be controlled by watering at all times unless natural moisture is sufficient to control emissions.
- 2. Vehicle speed on unpaved roads and disturbed areas must not exceed a maximum of 10 miles per hour. Speed limit signs must be posted.
- 3. Haul roads must be graveled, treated with chemical stabilizer per manufacturer's recommendations, and watered as often as needed to control fugitive particulate emissions such that the above guidelines are met.
- 4. Reclamation works and sequential extraction of material must be initiated to keep the total disturbed areas at any one time to a minimum.
- 5. All disturbed areas must be treated with chemical stabilizer per manufacturer's recommendations, and watered as often as needed to control fugitive particulate emissions such that the above guidelines are met



ATTACHMENT A: DAILY EMISSIONS INVENTORY

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/day)		Inventory Emissions (pounds/day)	Applicable Standards	Fugitive? (Y/N)
001	Drilling, blasting, raw material excavation, material stockpiling, exposed area erosion, reclamation, and hauling	PM	0.4844	lbs/ton mined	Water sprays, Water injection for drilling, chemical stabilizer, speed limits.	95.27%	22,500	tons	515.9	-	Y
		PM ₁₀	0.1236	lbs/ton mined		94.02%			166.5		Y
		PM _{2.5}	0.0136	lbs/ton mined		92.42%			23.3		Y
	Material transfer using conveyors	PM	0.0450	lbs/ton	Water spray	95.8%	22,500	tons per transfer point	42.4	NSPS Subpart 000	N
		PM ₁₀	0.0165	lbs/ton		95.8%			15.6		N
		PM _{2.5}	0.0047	lbs/ton		95.8%			4.4		N
	Blasting using emulsion explosive	CO	4.600	lbs/ton	(none)	0.0%	49.3*	tons	226.8*	-	Y
		NO _x	0.400	lbs/ton		0.0%			19.8*		Y
	Blasting using Ammonium Nitrate and Fuel Oil (ANFO) explosive	CO	67.000	lbs/ton	(none)	0.0%	37*	tons	2,479.0*	-	Y
		NO _x	10.600	lbs/ton		0.0%			392.2*		Y

* These daily throughputs and emissions are assuming that 100% of the blasting is conducted using the indicated explosive type. For total explosive use limits, see Condition 4.



ATTACHMENT A: DAILY EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/day)		Inventory Emissions (pounds/day)	Applicable Standards	Fugitive? (Y/N)
015	One (1) Metso HP-500 cone crusher A (serial number: 125750), rated at 1,067 tons per hour.	PM	0.00540	lb/ton crushed	Complete Enclosure	99.82%	16,000	tons crushed	0.2	NSPS Subpart 000	N
		PM ₁₀	0.00240	lb/ton crushed		99.82%			0.1		N
		PM _{2.5}	0.00044	lb/ton crushed		99.82%			0.1		N
016	One (1) Metso HP-500 cone crusher B (serial number: 128850), rated at 1,067 tons per hour.	PM	0.00540	lb/ton crushed	Complete Enclosure	99.78%	16,000	tons crushed	0.2	NSPS Subpart 000	N
		PM ₁₀	0.00240	lb/ton crushed		99.78%			0.1		N
		PM _{2.5}	0.00044	lb/ton crushed		99.78%			0.1		N



ATTACHMENT A: DAILY EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/day)		Inventory Emissions (pounds/day)	Applicable Standards	Fugitive? (Y/N)
017	One (1) Metso HP-500 cone crusher C (serial number: 30337109), rated at 1,067 tons per hour.	PM	0.00540	lb/ton crushed	Complete Enclosure	99.78%	16,000	tons crushed	0.2	NSPS Subpart 000	N
		PM ₁₀	0.00240	lb/ton crushed		99.78%			0.1		N
		PM _{2.5}	0.00044	lb/ton crushed		99.78%			0.1		N
018	One (1) Deister 8x24 4-deck screen A (serial number: 2001084), rated at 1,705 tons per hour.	PM	0.02500	lb/ton screened	Complete Enclosure	99.90%	25,568	tons screened	0.7	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		99.90%			0.3		N
		PM _{2.5}	0.00059	lb/ton screened		99.90%			0.1		N



ATTACHMENT A: DAILY EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/day)		Inventory Emissions (pounds/day)	Applicable Standards	Fugitive? (Y/N)
019	One (1) Deister 8x24 4-deck screen B (serial number: 2001085), rated at 1,705 tons per hour.	PM	0.02500	lb/ton screened	Complete Enclosure	99.90%	25,568	tons screened	0.7	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		99.90%			0.3		N
		PM _{2.5}	0.00059	lb/ton screened		99.90%			0.1		N
020	One (1) Deister E-8x24 4-deck screen C (serial number: 2001086), rated at 1,705 tons per hour.	PM	0.02500	lb/ton screened	Complete Enclosure	99.90%	25,568	tons screened	0.7	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		99.90%			0.3		N
		PM _{2.5}	0.00059	lb/ton screened		99.90%			0.1		N



ATTACHMENT A: DAILY EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/day)		Inventory Emissions (pounds/day)	Applicable Standards	Fugitive? (Y/N)
023	One (1) Deister HM-3620-OT scalper screen (serial number: 2002883), rated at 1,500 tons per hour.	PM	0.02500	lb/ton screened	Water spray	91.49%	22,500	tons screened	47.9	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		91.49%			16.7		N
		PM _{2.5}	0.00059	lb/ton screened		91.49%			1.2		N
024	One (1) Deister BXHM-3620-OT rip rap screen (serial number: 2003094), rated at 1,500 tons per hour.	PM	0.02500	lb/ton screened	Water spray	91.49%	19,500	tons screened	41.5	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		91.49%			14.5		N
		PM _{2.5}	0.00059	lb/ton screened		91.49%			1.0		N



ATTACHMENT A: DAILY EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/day)		Inventory Emissions (pounds/day)	Applicable Standards	Fugitive? (Y/N)
025	One (1) Nordberg C160 jaw crusher (serial number: 38013), rated at 1,500 tons per hour.	PM	0.00540	lb/ton crushed	Water spray	77.5%	22,500	tons crushed	27.4	NSPS Subpart 000	N
		PM ₁₀	0.00240	lb/ton crushed		77.5%			12.2		N
		PM _{2.5}		lb/ton crushed		77.5%			2.3		N
026	One (1) Deister BHM-2820 "89" screen (serial number: 2005210), rated at 400 tons per hour.	PM	0.02500	lb/ton screened	Water spray	91.49%	6,000	tons screened	12.8	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		91.49%			4.5		N
		PM _{2.5}	0.00059	lb/ton screened		91.49%			0.3		N



ATTACHMENT A: DAILY EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/day)		Inventory Emissions (pounds/day)	Applicable Standards	Fugitive? (Y/N)
030	One (1) Deister BXHM-3620-0T check screen (serial number: 2003094), rated at 1,500 tons per hour.	PM	0.02500	lb/ton screened	Water spray	91.49%	22,500	tons screened	47.9	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		91.49%			16.7		N
		PM _{2.5}	0.00059	lb/ton screened		91.49%			1.2		N

(END OF DAILY EMISSIONS INVENTORY)



ATTACHMENT B: ANNUAL EMISSIONS INVENTORY

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/year)		Inventory Emissions (tons/year)	Applicable Standards	Fugitive? (Y/N)
001	Drilling, blasting, raw material excavation, material stockpiling, exposed area erosion, reclamation, and hauling	PM	0.4782	lbs/ton mined	Water sprays, Water injection for drilling, chemical stabilizer, speed limits.	95.78%	4,500,000	tons	45.4	-	Y
		PM ₁₀	0.1219	lbs/ton mined		94.36%			15.5		Y
		PM _{2.5}	0.0134	lbs/ton mined		92.90%			2.2		Y
	Material transfer using conveyors	PM	0.0450	lbs/ton	Water spray	95.80%	4,500,000	tons per transfer point	4.3	NSPS Subpart 000	N
		PM ₁₀	0.0165	lbs/ton		95.80%			1.6		N
		PM _{2.5}	0.0047	lbs/ton		95.80%			0.5		N
	Blasting using emulsion explosive	CO	4.600	lbs/ton	(none)	0.00%	3,533*	tons	8.2*	-	Y
		NO _x	0.400	lbs/ton		0.00%			0.8*		Y
	Blasting using Ammonium Nitrate and Fuel Oil (ANFO) explosive	CO	67.000	lbs/ton	(none)	0.00%	2,650*	tons	88.8*	-	Y
		NO _x	10.600	lbs/ton		0.00%			14.1*		Y

* These annual throughputs and emissions are assuming that 100% of the blasting is conducted using the indicated explosive type. For total explosive use limits, see Condition 4.

ATTACHMENT B: ANNUAL EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/year)		Inventory Emissions (tons/year)	Applicable Standards	Fugitive? (Y/N)
015	One (1) Metso HP-500 cone crusher A (serial number: 125750), rated at 1,067 tons per hour.	PM	0.00540	lb/ton crushed	Complete Enclosure	99.78%	3,200,000	tons crushed	0.1	NSPS Subpart 000	N
		PM ₁₀	0.00240	lb/ton crushed		99.78%			0.1		N
016	One (1) Metso HP-500 cone crusher B (serial number: 128850), rated at 1,067 tons per hour.	PM	0.00540	lb/ton crushed	Complete Enclosure	99.78%	3,200,000	tons crushed	0.1	NSPS Subpart 000	N
		PM ₁₀	0.00240	lb/ton crushed		99.78%			0.1		N
017	One (1) Metso HP-500 cone crusher C (serial number: 30337109), rated at 1,067 tons per hour.	PM	0.00540	lb/ton crushed	Complete Enclosure	99.78%	3,200,000	tons crushed	0.1	NSPS Subpart 000	N
		PM ₁₀	0.00240	lb/ton crushed		99.78%			0.1		N



ATTACHMENT B: ANNUAL EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/year)		Inventory Emissions (tons/year)	Applicable Standards	Fugitive? (Y/N)
018	One (1) Deister 8x24 4-deck screen A (serial number: 2001084), rated at 1,705 tons per hour.	PM	0.02500	lb/ton screened	Complete Enclosure	99.90%	5,113,640	tons screened	0.1	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		99.90%			0.1		N
019	One (1) Deister 8x24 4-deck screen B (serial number: 2001085), rated at 1,705 tons per hour.	PM	0.02500	lb/ton screened	Complete Enclosure	99.90%	5,113,640	tons screened	0.1	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		99.90%			0.1		N
020	One (1) Deister E-8x24 4-deck screen C (serial number: 2001086), rated at 1,705 tons per hour.	PM	0.02500	lb/ton screened	Complete Enclosure	99.90%	5,113,640	tons screened	0.1	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		99.90%			0.1		N



ATTACHMENT B: ANNUAL EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/year)		Inventory Emissions (tons/year)	Applicable Standards	Fugitive? (Y/N)
023	One (1) Deister HM-3620-OT scalper screen (serial number: 2002883), rated at 1,500 tons per hour.	PM	0.02500	lb/ton screened	Water spray	91.49%	4,500,000	tons screened	4.8	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		91.49%			1.7		N
024	One (1) Deister BXHM-3620-OT rip rap screen (serial number: 2003094), rated at 1,500 tons per hour.	PM	0.02500	lb/ton screened	Water spray	91.49%	1,300,000	tons screened	1.4	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		91.49%			0.5		N
025	One (1) Nordberg C160 jaw crusher (serial number: 38013), rated at 1,500 tons per hour.	PM	0.00540	lb/ton crushed	Water spray	77.50%	4,500,000	tons crushed	2.8	NSPS Subpart 000	N
		PM ₁₀	0.00240	lb/ton crushed		77.50%			1.3		N



ATTACHMENT B: ANNUAL EMISSIONS INVENTORY (CONTINUED)

AIRS Point #	Process Description	Pollutant	Emission Factor		Control Type	Estimated Control %	Annual Throughput (units/year)		Inventory Emissions (tons/year)	Applicable Standards	Fugitive? (Y/N)
026	One (1) Deister BHM-2820 "89" screen (serial number: 2005210), rated at 400 tons per hour.	PM	0.02500	lb/ton screened	Water spray	91.49%	750,000	tons screened	0.8	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		91.49%			0.3		N
030	One (1) Deister BXHM-3620-OT check screen (serial number: 2003094), rated at 1,500 tons per hour.	PM	0.02500	lb/ton screened	Water spray	91.49%	2,500,000	tons screened	2.7	NSPS Subpart 000	N
		PM ₁₀	0.00870	lb/ton screened		91.49%			1.0		N

(END OF ANNUAL EMISSIONS INVENTORY)



ATTACHMENT C: AMBIENT AIR BOUNDARY MAP

