CLARK COUNTY
DEPARTMENT OF AIR QUALITY
4701 W Russell Road, Suite 200, Las Vegas, Nevada 89118
Part 70 Operating Permit
Source: 372
Issued in accordance with the
Clark County Air Quality Regulations (AQR)

ISSUED TO: Aggregate Industries SWR Inc.

SOURCE LOCATION:
5300 Sloan Road
Las Vegas, Nevada 89124
T23S, R60E, Sections 12 &13
Hydrographic Basin Number: 212

COMPANY ADDRESS:
3101 E Craig Road
Las Vegas, Nevada 89030

NATURE OF BUSINESS:

Construction Sand and Gravel	SIC Code - 1442	NAICS - 212321
Hot Mix Asphalt	SIC Code - 2951	NAICS - 324121
Ready Mix Concrete	SIC Code - 3272	NAICS - 327390

RESPONSIBLE OFFICIAL:

Name:	Doug Barrowman
Title:	General Manager
Phone:	(702) 876-5226
Fax Number:	(702) 876-6808

Permit Issuance Date: November 30, 2012 Expiration Date: November 29, 2017

ISSUED BY: CLARK COUNTY DEPARTMENT OF AIR QUALITY

Tina Gingras
Control Officer, Clark County DAQ

EXECUTIVE SUMMARY

Aggregate Industries SWR is a major source for particulate matter equal to or less than 10 microns in aerodynamic diameter (PM_{10}) and a minor source for NO_x, CO, SO_x, VOC, and HAP. Emission of regulated air pollutants at the source results from operations of the mining, blasting, and processing equipment. The Construction Sand and Gravel processes are grouped under SIC 1442 and NAICS 212321. The Hot Mix Asphalt process is under SIC 2951 and NAICS 342121. The Ready Mix Concrete process is under SIC 3727 and NAICS 327390.

Sloan Quarry, owned by Aggregate Industries SWR, is located in Sloan, Nevada, which is in the Las Vegas Valley airshed, hydrographic basin 212. The site is situated in an area that is designated as prevention of significant deterioration (PSD) for SO_2, and nonattainment for ozone (i.e. NO_X and VOC), PM_{10}, and CO. The source is not identified as a major source for greenhouse gases.

The existing facility is situated on a 530-acre site with limestone reserves totaling approximately 600 million tons. The source includes aggregate processing (sand and gravel), concrete batch production, concrete paver production, and asphalt concrete production. The source currently operates multiple crushers, screens, stackers, and transfer belts. Mining, blasting, and hauling also occur in normal operations. An asphalt drum mixer, oil heater, water heater, diesel generators, and silos are other emission units associated with the operations at the source.

Based on the information submitted by the applicant and a technical review performed by the DAQ staff, the DAQ proposes the initial Part 70 Operating Permit to Aggregate Industries – Sloan Quarry.

The following table identifies the source status based on the PTE of each regulated air pollutant. These PTE values are not intended to be enforced as emission limits by direct measurement unless otherwise noted in Section III of this permit.

Source-Wide PTE in Tons per Year

Pollutant	$PM_{2.5}$	PM_{10}	NO_x	CO	SO_x	VOC	HAP	H_2S	Pb
Source Total	**30.77**	**83.79**	**47.04**	**67.16**	**21.10**	**12.75**	**3.34**	**0.00**	**0.00**

The issuance of the Part 70 OP to Aggregate Industries is based on the information submitted by the applicant and a technical review performed by the DAQ staff.

Pursuant to AQR 12.5 all terms and conditions in Sections I through V and the attachments in this OP are federally enforceable unless explicitly denoted otherwise.

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I. ACRONYMS

Table I-1: List of Acronyms

Acronym	Term
AQR	Clark County Air Quality Regulations
ATC	Authority to Construct Certificate or Authority to Construct
ATC/OP	Authority to Construct/Operating Permit
BACT	Best Available Control Technology
Bhp	Brake Horsepower
BCC	Clark County Board of County Commissioners
CAO	Field Corrective Action Order
CARB	California Air Resources Board
CE	Control Efficiency
CEM	Continuous Emissions Monitoring System
CF	Control Factor
CFR	United States Code of Federal Regulations
CO	Carbon Monoxide
CPI	Urban Consumer Price Index
DAQ	Clark County Department of Air Quality
DEM	Digital Elevation Model
EF	Emission Factor
EPA	United States Environmental Protection Agency
EU	Emission Unit
EVR	Enhanced Vapor Recovery
HAP	Hazardous Air Pollutant
HP	Horse Power
LAER	Lowest Achievable Emission Rate
MMBtu	Millions of British Thermal Units
NAC	Nevada Administrative Code
NEI	Net Emission Increase
NO_X	Nitrogen Oxides
NOV	Notice of Violation
NRS	Nevada Revised Statutes
NSPS	New Source Performance Standards
NSR	New Source Review
OP	Operating Permit
PM_{10}	Particulate Matter less than 10 microns
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
scf	Standard Cubic Feet
SIP	State Implementation Plan
SO_X	Sulfur Oxides
TSD	Technical Support Document
UST	Underground Storage Tank
USGS	United States Geological Survey
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound

II. GENERAL CONDITIONS

A. General Requirements

1. The Permittee shall comply with all conditions of the Part 70 Operating Permit. Any permit noncompliance may constitute a violation of the AQRs, Nevada law, and the Clean Air Act (Act), and is grounds for the following: enforcement action; permit termination; revocation and re-issuance; revision; or denial of a permit renewal application. *[AQR 12.5.2.6(g)(1)]*
2. If any term or condition of this permit becomes invalid as a result of a challenge to a portion of this permit, the other terms and conditions of this permit shall not be affected and shall remain valid. *[AQR 12.5.2.6(f)]*
3. The Permittee shall pay all permit fees pursuant to AQR Section 18. *[AQR 12.5.2.6(h)]*
4. The permit does not convey any property rights of any sort, or any exclusive privilege. *[AQR 12.5.2.6(g)(4)]*
5. The Permittee shall not hinder, obstruct, delay, resist, interfere with, or attempt to interfere with the Control Officer, or any individual to whom authority has been duly delegated for the performance of any duty by the AQR. *[AQR 5.1.1]*
6. The Permittee shall allow the Control officer or an authorized representative, upon presentation of credentials and other documents as may be required by law, to enter the premises, with or without prior notice, at any reasonable time for the purpose of establishing compliance with the AQR or this permit. Upon arrival at the facility, the Control Officer, or designated representative, shall check in at the main office if arriving between the hours of 8:00 am and 5:00 pm on weekdays. During the inspection, the Control Officer, or designated representative, shall comply with the applicable safety regulations of the Mine Safety and Health Administration, including the requirement to be escorted by the Permittee. The Permittee shall make an escort available promptly in order for the inspection to begin in a timely manner. Upon presentation of credentials, the Permittee shall allow the Control Officer to: *[AQR 12.5.2.8(b)]*
    a. Have access to and copy any records that must be kept under the conditions of the permit;
    b. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
    c. Sample or monitor substances or parameters for the purpose of assuring compliance with the permit or applicable requirements; and
    d. Document alleged violations using devices such as cameras or video equipment.
7. Any Permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or

incorrect submittal, promptly submit such supplementary facts or corrected information. In addition, the Permittee shall provide additional information as necessary to address any requirements that become applicable to the source after the date it filed a complete application but prior to release of a draft permit. A responsible official shall certify the additional information consistent with the requirements of AQR Section 12.5.2.4. *[AQR 12.5.2.2]*

8. The Permittee who has been issued a permit under Section 12.5 shall post such permit in a location which is clearly visible and accessible to the facility's employees and representatives of the department. *[AQR 12.5.2.6(m)]*

B. Modification, Revision, Renewal Requirements

1. No person shall begin actual construction of a New Part 70 source, or modify or reconstruct an existing Part 70 source that falls within the preconstruction review applicability criteria, without first obtaining an Authority to Construct Permit from the Control Officer. *[AQR 12.4.1.1(a)]*
2. The permit may be revised, revoked, reopened and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[AQR 12.5.2.6(g)(3)]*
3. A permit, permit revision, or renewal may be approved only if all of the following conditions have been met: *[AQR 12.5.2.10(a)]*
    a. The Permittee has submitted to the Control Officer a complete application for a permit, permit revision, or permit renewal, except that a complete application need not be received before a Part 70 general permit is issued pursuant to Section 12.5.2.20; and
    b. The conditions of the permit provide for compliance with all applicable requirements and the requirements of Section 12.5
4. The Permittee shall not build, erect, install or use any article, machine, equipment or other contrivance, the use of which, without the total release of air contaminants to the atmosphere reduces or conceals an emission, which would otherwise constitute a violation of an applicable requirement. *[AQR 80.1]*
5. No permit revisions shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in the permit. *[AQR 12.5.2.6(i)]*
6. Permit expiration terminates the Permittee's right to operate unless a timely and complete renewal application has been submitted. *[AQR 12.5.2.11(b)]*
7. For purposes of permit renewal, a timely application is a complete application that is submitted at least six (6) months and not greater than eighteen (18) months prior to the date of permit expiration. If a source submits a timely application under this provision, it may continue operating under its current Part 70 Operating Permit until

final action is taken on its application for a renewed Part 70 Operating Permit. *[AQR 12.5.2.1(a)(2)]*

C. Reporting/Notifications/Providing Information Requirements

1. The Permittee shall submit all reports to the Control Officer. *[AQR 12.5.2.8(e)(4)]*

2. Any application form, report, or compliance certification submitted pursuant to the permit or AQRs shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under AQR 12.5 shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *[AQR 12.5.2.6(l)]*

3. The Permittee shall furnish to the Control Officer, within a reasonable time, any information that the Control Officer may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the Permittee shall also furnish to the Control Officer copies of records required to be kept by the permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the Administrator along with a claim of confidentiality. *[AQR 12.5.2.6(g)(5)]*

4. Upon request of the Control Officer, the Permittee shall provide such information or analyses as will disclose the nature, extent, quantity or degree of air contaminants which are or may be discharged by such source, and type or nature of control equipment in use, and the Control Officer may require such disclosures be certified by a professional engineer registered in the state. In addition to such report, the Control Officer may designate an authorized agent to make an independent study and report as to the nature, extent, quantity or degree of any air contaminants which are or may be discharged from the source. An authorized agent so designated is authorized to inspect any article, machine, equipment, or other contrivance necessary to make the inspection and report. *[AQR 4.4]*

5. The Permittee shall submit annual emissions inventory reports based on the following: *[AQR 18.6.1, AQR 12.9]*

    a. The annual emissions inventory must be submitted to DAQ by March 31 of each calendar year; and

    b. The report shall include the emission factors and calculations used to determine the emissions from each permitted emission unit, even when an emission unit is not operated.

D. Compliance Requirements

1. The Permittee shall not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[AQR 12.5.2.6(g)(2)]*

2. Any person who violates any provision of AQR, including, but not limited to, any application requirement; any permit condition; any fee or filing requirement; any duty to allow or carry out inspection, entry or monitoring activities or any requirements by DAQ is guilty of a civil offense and shall pay civil penalty levied by the Air Pollution Control Hearing Board and/or the Hearing Officer of not more than $10,000. Each day of violation constitutes a separate offense. *[AQR 9.1]*

3. Any person aggrieved by an order issued pursuant to AQR Section 9 is entitled to review as provided in Chapter 233B of NRS. *[AQR 9.12]*

4. The Permittee shall comply with the requirements of 40 CFR 61, Subpart M, of the National Emission Standard for Asbestos for all demolition and renovation projects. *[AQR 13.1(b)(8)]*

5. The Permittee shall submit compliance certifications annually in writing to the Control Officer (4701 W Russell Road, Ste 200, Las Vegas, NV 89118) and the Administrator at USEPA Region IX (Director, Air and Toxics Divisions, 75 Hawthorne St., San Francisco, CA 94105). A compliance certification for each year will be due on January 30th of the following year and shall include the following: *[AQR 12.5.2.8(e)]*

   a. The identification of each term or condition of the permit that is the basis of the certification;

   b. The identification of the methods or other means used by the Permittee for determining the compliance status with each term and condition during the certification period. The methods and means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements described in 40 CFR 70.6(a)(3). If necessary, the Permittee shall also identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information; and

   c. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the methods or means designated in subsection II.D.5(b). The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify, as possible exceptions to compliance, any periods during which compliance is required and in which an excursion or exceedance, as defined under 40 CFR Part 64, occurred.

6. The Permittee shall report to the Control Officer (4701 W Russell Road, Ste 200, Las Vegas, NV 89118) any upset, breakdown, malfunction, emergency or deviation which cause emissions of regulated air pollutants in excess of any limits set by regulation or by this permit. The report shall be in two parts as specified below: *[AQR 12.5.2.6(d)(4)(B) and AQR 25.6.1]*

   a. within twenty-four (24) hours of the time the Permittee learns of the excess emissions, the report shall be communicated by phone (702) 455-5942, fax (702) 383-9994, or email: airquality@clarkcountynv.gov

b. within seventy-two (72) hours of the notification required by paragraph (a) above, a detailed written report, certified by a responsible official, containing the information required by AQR Section 25.6.3 shall be submitted.

7. The Permittee shall report to the Control Officer with the semi-annual monitoring report all deviations from permit conditions that do not result in excess emissions, including those attributable to malfunction, startup, or shutdown. Reports shall identify the probable cause of each deviation and any corrective actions or preventative measures taken. *[AQR 12.5.2.6(d)(4)(B)]*

8. The owner or operator of any source required to obtain a permit under Section 12 shall report to the Control Officer emissions that are in excess of an applicable requirement or emission limit that pose a potential imminent and substantial danger to public health, safety or the environment as soon as possible, but in no case later than twelve (12) hours after the deviation is discovered, with a written report submitted within two (2) days of the occurrence. *[AQR 25.6.2]*

E. Performance Testing Requirements

1. Upon request of the Control Officer, the Permittee shall test or have tests performed to determine the emissions of air contaminants from any source whenever the Control Officer has reason to believe that an emission in excess of that allowed by the DAQ regulations is occurring. The Control Officer may specify testing methods to be used in accordance with good professional practice. The Control Officer may observe the testing. All tests shall be conducted by reputable, qualified personnel. *[AQR 4.5]*
2. Upon request of the Control Officer, the Permittee shall provide necessary holes in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants. *[AQR 4.6]*
3. The Permittee shall submit for approval a performance testing protocol which contains testing, reporting, and notification schedules, test protocols, and anticipated test dates to the Control Officer (4701 W Russell Road, Ste 200, Las Vegas, NV 89118) not less than 45 nor more than 90 days prior to the anticipated date of the performance test unless otherwise specified in Section III.D. *[AQR 12.5.2.8]*
4. The Permittee shall submit to EPA for approval any alternative test methods that are not already approved by EPA, to demonstrate compliance with a requirement under 40 CFR Part 60. *[40 CFR 60.8(b)]*
5. The Permittee shall submit a report describing the results of each performance test to the Control Officer within 60 days from the end of the performance test unless otherwise specified in Section III.E. *[AQR 12.5.2.8]*

III. EMISSION UNITS AND APPLICABLE REQUIREMENTS

A. Emission Units, Limitations, and Standards

1. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-1 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 1 (10/18/12)]*

Table III-A-1: Primary Feed (Mountain Top) Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A001a	Blasting (PM_{10})	See Tables III-A-4 and III-A-5			0.64	4.26
A001	Mining	5,000,000	0.0012	0.008	3.00	20.00
A02	Gyratory Crusher (crushing)[1]	2,500,000	0.00010	0.00054	1.13	0.68
A02a	Enddump to Gyratory Crusher	5,000,000	0.000013	0.000046	0.19	0.12
A02b	Gyr. Crusher to Stacker 3	5,000,000	0.000013	0.000046	0.19	0.12
A012	Stacker 3 to Surge pile	5,000,000	0.000013	0.000046	0.19	0.12

[1]Approximately 50 percent of the five million ton throughput material is not processed/crushed by the gyratory crusher based on a close side setting of 6.0 inches.

2. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-2 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 2 (10/18/12)]*

Table III-A-2: Secondary Aggregate Plant Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A013	Tunnel Belt BC-4a 3 to VGF 2a	5,000,000	0.000013	0.000046	0.12	0.12
A015	Jaw Crusher CR-1 (Nordberg) (BH) [1]	500,000	0.0024	0.0024	0.40	0.15
A014	VGF 2a to Jaw Crusher CR-1	500,000				
A016	VGF 2a drop to Belt 4 (BH) [1]	4,500,000	0.0011	0.0011	0.73	0.63
A018	Screen S-1 (Simplicity) (BH) [1]	5,000,000	0.0087	0.0087	5.74	5.52
A017	Belt 4 to Screen S-1 (BH) [1]	5,000,000				
A020	Crusher CR-2 (Hazemag) (BH) [1]	1,875,000	0.0024	0.0024	0.59	0.57
A019	Screen S-1 to Crusher CR-2 (BH) [1]	1,875,000				
A021	Crusher CR-2 to Belt 6 (BH) [1]	1,875,000				
A036	Screen S-1 Underbelt to Belt 5	3,125,000	0.000013	0.000046	0.07	0.07
A022	Belt 6 Split to Belt 44 and 45	2,625,000	0.000013	0.000046	0.06	0.06
A025	Screen S-2 (JCI 8x20) (BH)	1,312,500	0.0087	0.0087	1.51	1.45
A023	Belt 44 to Screen S-2 (BH) [1]	1,312,500				
A027	Screen S-2 to Belt 46 (BH)	1,312,500				
A034	Screen S-2 underbelt to Belt 7	937,500	0.000013	0.000046	0.02	0.02

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A026	Screen S-3 (JCI 8x20) (BH)	1,312,500	0.0087	0.0087	1.51	1.45
A024	Belt 45 to Screen S-3 (BH) [1]	1,312,500				
A028	Screen S-3 to Belt 47 (BH) [1]	1,312,500				
A035	Screen S-3 underbelt to Belt 7	937,500	0.000013	0.000046	0.02	0.02
A029	Belt 46 to Belt 8 (BH) [1]	437,500	0.0011	0.0011	0.06	0.06
A030	Belt 47 to Belt 8 (BH) [1]	437,500	0.0011	0.0011	0.06	0.06
A032	Crusher CR-3 (Canica VSI) (BH) [1]	875,000	0.0024	0.0024	0.26	0.27
A031	Belt 8 to Crusher CR-3 (BH) [1]	875,000				
A033	Crusher CR-3 to Belt 6 (BH) [1]	875,000				
A037	Belt 5 to Belt 43	3,125,000	0.000013	0.000046	0.07	0.07
A038	Belt 43 to Belt 7 or 62	3,125,000	0.000013	0.000046	0.07	0.07
A038a	Belt 62 to Belt 63	500,000	0.000013	0.000046	0.02	0.01
A038b	Belt 63 to Stockpile (Reject)	500,000	0.000013	0.000046	0.02	0.01
A038c	Belt 64 at H.S.I. oversize reject (alt ops) [2]	250,000	0.000013	0.000046	0.04	0.01
A038d	Stacker to Stockpile of Truck (alt ops) [2]	250,000	0.000013	0.000046	0.04	0.01
A040	Stacker 9 to Surge pile 2 (BH) [3]	5,000,000	0.0011	0.0011	0.73	0.70
A039	Belt 7 to Stacker 9	5,000,000	0.000013	0.000046	0.12	0.12

[1]BH denotes unit vented to baghouse. Emissions from baghouse points are computed based on 75% capture efficiency and 99.5% control efficiency.
[2]The emission unit is not included in the table subtotal. It is an alternate process that, if used, will decrease throughput from the remaining emission units.
[3]Baghouse on the Stacker has a collection efficiency of 25 percent.

3. The Permittee shall not allow the actual emissions from each emission unit to exceed the PTE in Table III-A-3 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 3 (10/18/12)]*

Table III-A-3: Overland Feed System Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A041	Belt Feeds 1-3 to Tunnel Belt 10	3,500,000	0.000013	0.000046	0.07	0.08
A042	Belt 10 to Overland Belt 48 (BH) [1]	3,500,000	0.0011	0.0011	0.42	0.49
A043	Overland Belt 48 to Belts 11 and 50 (BH) [1]	3,500,000	0.0011	0.0011	0.42	0.49
A045	Belt 11 Stacker to Surge Pile (WP1)	2,250,000	0.000013	0.000046	0.03	0.05
A046	Belt 50 to Stacker 51	1,250,000	0.000013	0.000046	0.03	0.03
A046a	Stacker 51 to WP2 Side Surge Pile	1,250,000	0.000013	0.000046	0.03	0.03

[1]BH denotes unit vented to baghouse. Emissions from baghouse points are computed based on 75% capture efficiency and 99.5% control efficiency.

4. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-4 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 4 (10/18/12)]*

Table III-A-4: PTE for $PM_{2.5}$ and PM_{10} Associated with Blasting[1]

EU	Description	Area ft^2/hr	Area ft^2/yr	$PM_{2.5}$ PTE lbs/hr	PM_{10} PTE lbs/hr	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A001a	Blasting	35,000	1,109,836	7.15	47.67	0.64	4.26

[1]Emission values are based on the AP-42 formula for blasting overburden found in Section 11.9-1 dated July 1998: PM_{10} (lbs/yr) = 0.000014 $(A)^{1.5}$ x 0.52 scaling factor. Where A = area blasted in square feet.

5. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the annual PTE in Table III-A-5 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 5 (10/18/12)]*

Table III-A-5: PTE for NO_x and CO Associated with Blasting[1]

EU	Description	ANFO Usage		NO_x		CO	
		tons/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
A001a	Blasting	135	1,500	1,069.20	5.94	5,531.00	30.72

[1]Emission factors for NO_x = 7.92 pounds per ton and CO = 40.97 pounds per ton based on 1997 National Institute of Safety and Health (NIOSH) contracted study "A Technique for Measuring Toxic Gases Produced by Blasting Agents."

6. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-6 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 6 (10/18/12)]*

Table III-A-6: Wash Plant #1 Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A080	VGF 3a through 4 to Belt 25	2,000,000	0.000013	0.000046	0.03	0.046
A081	Belt 25 Tunnel to Belt 74	2,000,000	0.000013	0.000046	0.03	0.046
A082	Belt 73 (Spare)	2,000,000	0.000013	0.000046	0.03	0.046
A083	Belt 74 (mod) to Belts 54, 55, and 30 via Surge Bin	3,000,000	0.000013	0.000046	0.03	0.069
A084[1]	Belt 54 to Wet Screen S-5	1,000,000	0.00	0.00	0.00	0.00
A085[1]	Belt 55 to Wet Screen S-6	1,000,000	0.00	0.00	0.00	0.00
A093[1]	Belt 30 to Wet Screen S-7	1,000,000	0.00	0.00	0.00	0.00
A093a[1]	Screens 5-7 to BC57	500,000	0.00	0.00	0.00	0.00
A093b[1]	Screens 5-7 to BC28	428,571	0.00	0.00	0.00	0.00
A086[1]	Screens 5-7 to BC56	500,000	0.00	0.00	0.00	0.00
A102a[1]	Wet Screen S-7	1,000,000	0.00	0.00	0.00	0.00
A108[1]	Screen S-7 to 44" Sand Screw	285,714	0.00	0.00	0.00	0.00
A086[1]	Belt to Dewater Screen S-9	307,692	0.00	0.00	0.00	0.00
A101[1]	DW Screen S-9 to Stacker BC29	307,692	0.00	0.00	0.00	0.00
A089[1]	Stacker BC29 to Stockpile 1/4" chips	307,692	0.00	0.00	0.00	0.00
A099[1]	Belts 56 and 57 to Belt BC31 or Belt 41	1,000,000	0.00	0.00	0.00	0.00
A091[1]	Belt 41 to Belt 36	1,000,000	0.00	0.00	0.00	0.00
A090[1]	Belt 36 to Surge Bin SB5	1,000,000	0.00	0.00	0.00	0.00
A075[1]	Belt 28 to Dewater Screen	428,571	0.00	0.00	0.00	0.00
A076[1]	Dewater Screen to BC41	428,571	0.00	0.00	0.00	0.00

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A106[1]	Canica VSI Crusher 6a	500,000	0.0024	0.0024	0.60	0.60
A103[1]	Canica VSI Crusher 7a	500,000	0.0024	0.0024	0.60	0.60
A107	Belt 59 to Belt 39 (recirc)	1,000,000	0.000013	0.000046	0.02	0.02
A107a	Belt 39 to Belt 74	1,000,000	0.000013	0.000046	0.02	0.02
A107b	Aux Sand Refeed (Loader or Stockpile)	357,142	0.000013	0.000046	0.01	0.01
A103a[1]	Belt 37 to Belt 38	357,142	0.000013	0.000046	0.01	0.01
A106a[1]	Belt 38 to Splitter	1,057,143	0.000013	0.000013	0.02	0.02
A096a[1]	Belt 31 to Belt 40	771,429	0.00	0.00	0.00	0.00
A092[1]	Belt 40 to Belt 33	771,429	0.00	0.00	0.00	0.00
A092a[1]	Belt 33 to Twin Shaft Coarse mat. Wash	771,429	0.00	0.00	0.00	0.00
A092b[1]	3 Deck Screen (wet process)	771,429	0.00	0.00	0.00	0.00
A092c[1]	Screen to Belt 34	342,857	0.00	0.00	0.00	0.00
A092d[1]	Screen to Belt 43 (alt)	285,714	0.00	0.00	0.00	0.00
A092e[1]	Screen to Stacker ST32	285,714	0.00	0.00	0.00	0.00
A096[1]	Stacker ST32 to Size Screen #67/#4	285,714	0.00	0.00	0.00	0.00
A097[1]	Belt BC34 to Stacker 35	285,714	0.00	0.00	0.00	0.00
A098[1]	Stacker 35 to Bin #4	285,714	0.00	0.00	0.00	0.00
A096b[1]	Belt 43 to Belt 44 (alt)	342,857	0.00	0.00	0.00	0.00
A096d[1]	Belt 44 to Belt 57 (alt)	342,857	0.00	0.00	0.00	0.00
A096c[1]	44" Sand Screw (spare)	285,714	0.00	0.00	0.00	0.00
A109[1]	Screens 5, 6, and 7 to Twin 54" Screws	771,429	0.00	0.00	0.00	0.00
A113[1]	Dewater Screen S10	1,057,143	0.00	0.00	0.00	0.00
A114[1]	Belt 60 to Belt 61	1,046,154	0.00	0.00	0.00	0.00
A114a[1]	Belt 61 to Stacker 42	1,046,154	0.00	0.00	0.00	0.00
A115[1]	Stacker 42 to Stockpile	1,046,154	0.00	0.00	0.00	0.00
A110a[1]	Loader to Aux Hopper	500,000	0.00	0.00	0.00	0.00
A110b[1]	Belt to Stacker	500,000	0.00	0.00	0.00	0.00
A110d[1]	Stacker to Stockpile	500,000	0.00	0.00	0.00	0.00
A110c[1]	Belt (spare)	400,000	0.00	0.00	0.00	0.00
A110e[1]	Stacker (spare)	400,000	0.00	0.00	0.00	0.00
A110f[1]	Dewater Screen S-12 (Spare)	400,000	0.00	0.00	0.00	0.00
A110[1]	Loader to Aux Refeed Hopper	168,750	0.000013	0.000046	0.01	0.01
A111[1]	Belt 72 to Belt 74	168,750	0.000013	0.000046	0.01	0.01

[1]Wet process (no emissions) denotes emission units processing materials with >10% moisture in the ¼" minus materials.

7. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-7 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 7 (10/18/12)]*

Table III-A-7: Wash Plant #2 Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A048	VGF 1 and 2 to Belt 12	1,500,000	0.000013	0.000046	0.03	0.03
A049	Belt 12 Tunnel to Belt 13	1,500,000	0.000013	0.000046	0.03	0.03
A050	Belt 13 to Surge Bin 4	1,500,000	0.000013	0.000046	0.03	0.03
A051	Belt 22 to Belt 17	923,077	0.000013	0.000046	0.02	0.02
A053	Belt 20 to Belt 21	923,077	0.000013	0.000046	0.02	0.02
A055[1]	Screen S-4 (Simplicity)	923,077	0.00	0.00	0.00	0.00
A052[1]	Belt 17 to East Screen S-4	923,077	0.00	0.00	0.00	0.00
A062[1]	Screens S-4 and S-8 to Belt 53	923,077	0.00	0.00	0.00	0.00
A070[1]	Screens S-4 and S-8 to Belt 18a	923,077	0.00	0.00	0.00	0.00
A074[1]	Screens S-4 and S-8 to Screw Washer	923,077	0.00	0.00	0.00	0.00
A056[1]	Screen S-8 (Svedala)	923,077	0.00	0.00	0.00	0.00
A054[1]	Belt 21 to West Screen S-8	923,077	0.00	0.00	0.00	0.00
A057[1]	Screens S-4 and S-8 to Belt 14	923,077	0.00	0.00	0.00	0.00
A059[1]	Crusher CR-5 (Canica VSI)	250,000	0.00	0.00	0.00	0.00
A058[1]	Belt 14 to Crusher CR-5	250,000	0.00	0.00	0.00	0.00
A060[1]	Crusher CR-5 to Belt 19 (recirc.)	250,000	0.00	0.00	0.00	0.00
A061[1]	Belt 19 to Surge Bin 4 (recirc.)	250,000	0.00	0.00	0.00	0.00
A063[1]	Belt 53 to Screen S-11 (6 x 16)	461,538	0.00	0.00	0.00	0.00
A064[1]	Screen S-11 to Belt 15	461,538	0.00	0.00	0.00	0.00
A068[1]	Screen S-11 to Belt 24	461,538	0.00	0.00	0.00	0.00
A068a[1]	Screen S-11 to ST5	461,538	0.00	0.00	0.00	0.00
A068b[1]	Stacker ST-5 to Stockpile (alt)	115,385	0.00	0.00	0.00	0.00
A065[1]	Belt 15 to Coarse Material Washer	230,769	0.00	0.00	0.00	0.00
A066[1]	Coarse Washer to Stacker 52	230,769	0.00	0.00	0.00	0.00
A067[1]	Stacker 52 to Stockpile	230,769	0.00	0.00	0.00	0.00
A069[1]	Stacker 24 to Stockpile	230,769	0.00	0.00	0.00	0.00
A071[1]	Belt 18a to Belt 18b	461,538	0.00	0.00	0.00	0.00
A071a	Belt 18b to Belt 18c	461,538	0.00	0.00	0.00	0.00
A071b[1]	Belt 18c to Stockpile or Feed Hopper	461,538	0.00	0.00	0.00	0.00
A117[1]	Loader to Feed Hopper	461,538	0.00	0.00	0.00	0.00
A120[1]	Canica VSI Crusher CR-9	461,538	0.00	0.00	0.00	0.00
A120h[1]	Canica VSI Crusher CR-9a	461,538	0.00	0.00	0.00	0.00
A120c[1]	Canica VSI Crushers CR-9 and CR-9a to Belt 77	613,846	0.00	0.00	0.00	0.00
A120d[1]	Belt 72 to Canica VSI Crushers CR-9 and CR-9a	613,846	0.00	0.00	0.00	0.00
A120a[1]	3 Deck Size Screen	613,846	0.00	0.00	0.00	0.00

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A120e[1]	Belt 73 to Size Screen	613,846	0.00	0.00	0.00	0.00
A120f[1]	Size Screen to Ubelt and Belt 79	613,846	0.00	0.00	0.00	0.00
A120b[1]	Belt 79 to Belt 80	152,308	0.00	0.00	0.00	0.00
A120g	Belt 80 recirc to Belt 72	152,308	0.00	0.00	0.00	0.00
A121[1]	Dewatering Screen	576,923	0.00	0.00	0.00	0.00
A121a[1]	Belt 77 to Dewatering Screen	576,923	0.00	0.00	0.00	0.00
A121b[1]	Dewatering Screen to Belt 73	576,923	0.00	0.00	0.00	0.00
A122a[1]	Ubelt to Stacker 78 or Belt 74 (alt feed)	461,538	0.00	0.00	0.00	0.00
A122[1]	Stacker 78 to Stockpile	461,538	0.00	0.00	0.00	0.00
A122b[1]	Belt 74 to Belt 81	461,538	0.00	0.00	0.00	0.00
A122c[1]	Belt 81 to Belt 82	461,538	0.00	0.00	0.00	0.00
A122d[1]	Belt 82 to Belt BC12	461,538	0.00	0.00	0.00	0.00
A075[1]	Screw to Dewatering Screen	576,923	0.00	0.00	0.00	0.00
A077[1]	Belt 65 to Stacker 66	576,923	0.00	0.00	0.00	0.00
A078[1]	Stacker 66 to Stockpile	576,923	0.00	0.00	0.00	0.00

[1]Wet process (no emissions) denotes emission units processing materials with >10% moisture in the ¼" minus materials.

8. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-8 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 8 (10/18/12)]*

Table III-A-8: Wash Plant #2 Alternate Canica VSI Circuit Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A117	Loader to Feeder	200,000	0.000013	0.000046	0.01	0.01
A120	Canica VSI Crusher CR-9	100,000	0.00007	0.0012	0.24	0.06
A120h	Canica VSI Crusher CR-9a	100,000	0.00007	0.0012	0.24	0.06
A120c	Canica VSI Crusher CR-9 to Belt 77	200,000				
A120d	Belt 72 to Canica VSI Crushers CR-9 and CR-9a	200,000				
A120a	3 Deck Size Screen	200,000	0.00005	0.00074	0.15	0.07
A120e	Belt 73 to 3 Deck Size Screen	200,000				
A120f	3 Deck Size Screen to Ubelt & Belt 79	200,000				

9. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-9 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 9 (10/18/12)]*

Table III-A-9: Wash Plant #2 Alternate Dewatering Screen Circuit Emission Units and Calculated PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
A120b	Belt 79 to Belt 80	66,000	0.000013	0.000046	0.01	0.01
A120g	Belt 80 to Belt 72	200,000	0.000013	0.000046	0.01	0.01
A121	Dewatering Screen	266,000	0.00005	0.00074	0.20	0.10
A121a	Belt 77 to Dewater Screen	266,000				
A121b	Dewatering Screen to Belt 73	266,000				
A122a	Ubelt to Stacker 78 or Belt 74 (alt feed)	200,000	0.000013	0.000046	0.01	0.01
A122	Stacker 78 to Stockpile	200,000	0.000013	0.000046	0.01	0.01
A122b	Belt 74 to Belt 81	200,000	0.000013	0.000046	0.01	0.01
A122c	Belt 81 to Belt 82	200,000	0.000013	0.000046	0.01	0.01
A122d	Belt 82 to Belt BC12	200,000	0.000013	0.000046	0.01	0.01
A124	Belt (Spare)	200,000	0.000013	0.000046	0.01	0.01

10. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-10 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 10 (10/18/12)]*

Table III-A-10: Rip Rap/Miscellaneous Screening System Plant Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
H05c	Loader to Feeder	150,000	0.000013	0.000046	0.02	0.01
H08	Trommel Screen Hurcules HT182	150,000	0.00005	0.00074	0.37	0.06
H02	Oversize Reject #1 - #4	150,000	0.000013	0.000046	0.01	0.01
H02a	Grizzly Screen (Loader or Conveyor Feed)	75,000	0.00005	0.00074	0.19	0.03
H09	Belt R1 to Belt R2	75,000	0.000013	0.000046	0.01	0.01
H10	Reject Stacker	32,500	0.000013	0.000046	0.01	0.01
H05	Fines Transfer Belt	32,500	0.000013	0.000046	0.01	0.01
H05a	Fines Reject Stacker	32,500	0.000013	0.000046	0.01	0.01

11. The Permittee shall the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-11 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 11 (10/18/12)]*

Table III-A-11: West Screen Plant Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
B001	Stockpile to Belt 1	1,500,000	0.000013	0.000046	0.03	0.03
B002	Belt 1 to Belt 3	1,500,000	0.000013	0.000046	0.03	0.03
B004	Belt 3 to Splitter (BH) [1]	1,500,000	0.0011	0.0011	0.15	0.21
B004a	Splitter to Belt 4 (BH) [21]	600,000	0.0011	0.0011	0.06	0.08
B006a	Splitter to Belt 5 (BH) [1]	600,000	0.0011	0.0011	0.06	0.08

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
B003a	Reject Stacker (alt ops) [2]	400,000	0.000013	0.000046	0.03	0.01
B006	Screen 1 ElJay (BH) [1]	600,000	0.0087	0.0087	0.49	0.66
B005	Belt 4 to Screen 1	600,000				
B022	Screen 1 to Belt 18	600,000				
B008	Screen 2 ElJay (BH) [1]	600,000	0.0087	0.0087	0.49	0.66
B007	Belt 5 to Screen 2	600,000				
B024	Screen 2 to Belt 19	600,000				
B012a	Splitter to Belt 7	600,000	0.000013	0.000046	0.01	0.01
B013	Screen 3 (JCI) (BH) [1]	600,000	0.0087	0.0087	0.49	0.66
B012	Belt 7 to Screen 3	600,000				
B013	Screens to Belt 10	600,000				
B028	Screen 3 to Belt 15	600,000				
B028a	Screens to Belt 17	600,000				
B039	Screen 3 to Belt 8	600,000				
B018	Screens to Belt 20	600,000				
B033	Belt 20 (rev) to Belt 11 or Belt 15	300,000	0.000013	0.000046	0.01	0.01
B029	Belt 14 to Belt 10 or Belt 16	300,000	0.000013	0.000046	0.01	0.01
B033	Belt 10 to Belt 11	300,000	0.000013	0.000046	0.01	0.01
B037	Belt 12 to Belt 9	300,000	0.000013	0.000046	0.01	0.01
B041	Belt 9 to Splitter (recirc)	300,000	0.000013	0.000046	0.01	0.01
B035	Cone Crusher (BH) [1]	300,000	0.0024	0.0024	0.07	0.09
B034	Belt 11 to Cone Crusher	300,000				
B036	Cone Crusher to Belt 12	300,000				
B043	Wet Screen [3]	300,000	0.00	0.00	0.00	0.00
B003	Belt 2 to Wet Screen	300,000	0.000013	0.000046	0.01	0.01
B016	Belt 16 to Stacker 2	300,000	0.000013	0.000046	0.01	0.01
B017	Stacker 2 to Stockpile	300,000	0.000013	0.000046	0.01	0.01
B020	Belt 15 to Stacker 4	381,818	0.000013	0.000046	0.01	0.01
B027	Stacker 4 to Stockpile	381,818	0.000013	0.000046	0.01	0.01
B051	Belt 17 to Belt 2	381,818	0.000013	0.000046	0.01	0.01
B052	Wash Screw to Stacker 3 [3]	381,818	0.00	0.00	0.00	0.00
B053	Stacker 3 to Stockpile 3/8	381,818	0.000013	0.000046	0.01	0.01
B038	Belt 18 to Belt 13	145,364	0.000013	0.000046	0.01	0.01
B026	Belt 19 to Belt 13	145,364	0.000013	0.000046	0.01	0.01
B040	Belt 8 to Belt 13	145,364	0.000013	0.000046	0.01	0.01
B053	Belt 13 to Belt 13a	436,364	0.000013	0.000046	0.01	0.01
B054	Belt 13a to Washer or Stacker 1	436,364	0.000013	0.000046	0.01	0.01
B031	Stacker 1 to Stockpile or alt feed	436,364	0.000013	0.000046	0.01	0.01
B055	Overland Belt Conveyor Transfer to Belt (to BC10 Tert. feed)	436,364	0.000013	0.000046	0.01	0.01
B047	7 x 20 Dewater Screen (spare) [3]	1,500,000	0.00	0.00	0.00	0.00

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
B011	Belt 6 (spare)	736,364	0.000013	0.000046	0.01	0.02
B045	Stacking Conveyor (spare)	600,000	0.000013	0.000046	0.02	0.01
B046	Belt Conveyor Transfer to Belt (spare)	436,364	0.000013	0.000046	0.01	0.01
B049	Stacking Conveyor (spare wet process) [3]	600,000	0.00	0.00	0.00	0.00
B050	Stacking Conveyor (spare wet process) [3]	600,000	0.00	0.00	0.00	0.00
B046a	Loader to Aux Refeed Hopper w/Feeder (alt) [2]	100,000	0.000013	0.000046	(0.01)	(0.01)
B056	Belt to Belt 9 (alt) [2]	100,000	0.000013	0.000046	(0.01)	(0.01)

[1]BH denotes unit vented to baghouse. Emissions from baghouse points are computed based on 75% capture efficiency and 99.5% control efficiency.
[2]The emission unit is not included in the table subtotal. It is an alternate process that, if used, will decrease throughput from the remaining emission units.
[3]Wet process (no emissions) denotes emission units processing materials with >10% moisture in the ¼" minus materials.

12. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-12 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 12 (10/18/12)]*

Table III-A-12: Type 2 Plant (Virgin and Recycle) Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
C001a	Mining [1]	500,000	0.0012	0.008	3.20	2.00
A012b	Jaw Crusher CR-10	250,000	0.001	0.00054	0.11	0.07
A012d	VGF2 to Belt 70	250,000	0.000013	0.000046	0.01	0.01
A012e	Belt 70 to Belt 2a Overland	500,000	0.000013	0.000046	0.02	0.01
A010	Belt 2a to VGF Feeder or SP	500,000	0.000013	0.000046	0.02	0.01
A10a	Loader to VGF Feeder	500,000	0.000013	0.000046	0.02	0.01
C001	Loader to VGF	700,000	0.000013	0.000046	0.02	0.02
C003	VGF to Belt 3	700,000	0.000013	0.000046	0.02	0.02
C004	Belt 3 to Belt 4	700,000	0.000013	0.000046	0.02	0.02
C002	Jaw Crusher	700,000	0.0001	0.00054	0.22	0.19
C002b	VGF to Jaw Crusher	700,000				
C002a	Jaw Crusher CR-10 to BC70	700,000				
C002c	Jaw Crusher to Belt 3	700,000				
C005a	Screen 3 Cedar Rapids	700,000	0.00005	0.00074	0.30	0.26
C005b	Belt 4 to Screen 3	700,000				
C005c	Screen 3 to Stacker 22 (alt) [2]	700,000				
C005d	Screen 3 to Stacker 15 (alt) [2]	700,000				
C005e	Screen 3 to Underbelt	700,000				
C005f	Screen 3 to Belt 5	700,000				
C003b	Stacker 22 to Stockpile (alt) [2]	350,000	0.000013	0.000046	0.01	0.01
C010b	Stacker 15 to Stockpile (alt) [2]	262,500	0.000013	0.000046	0.01	0.01
C031	S3 Underbelt to Stacker	87,500	0.000013	0.000046	0.01	0.01

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
C036	Stacker to Stockpile	87,500	0.000013	0.000046	0.01	0.01
C006	Belt 5 to Belt 6 & 7 (splitter)	612,500	0.000013	0.000046	0.02	0.01
C008	Screen 1 Cedar Rapids	481,250	0.00005	0.00074	0.20	0.18
C007	Belt 6 to Screen 1	481,250				
C016	Screen 1 to Belt 14	481,250				
C009	Screen 2 Cedar Rapids	612,500	0.00005	0.00074	0.26	0.23
C008a	Belt 7 to Screen 2	612,500				
C009a	Screen1 & 2 to Belt 8	612,500				
C025	Screen 2 to Belt 21	612,500				
C012	Horz. Shaft Impact Crusher	350,000	0.0001	0.00054	0.11	0.09
C012b	Belt 8 to H.S.I. Crusher	350,000				
C012a	H.S.I. to Belt 11	350,000				
C013	Belt 11 to Belt 12	350,000	0.000013	0.000046	0.01	0.01
C013a	Belt 12 to Belt 6&7 (splitter)	350,000	0.000013	0.000046	0.01	0.01
C017	Belt 14 to Belt 18a	87,500	0.000013	0.000046	0.01	0.01
C022	Belt 18a to Stacker 17	87,500	0.000013	0.000046	0.01	0.01
C020	Stacker 17 to Stockpile	87,500	0.000013	0.000046	0.01	0.01
C026	Belt 21 to Belt 20	612,500	0.000013	0.000046	0.02	0.01
C027	Belt 20 to Belt 16	612,500	0.000013	0.000046	0.02	0.01
C019	Belt 16 to Stacker	612,500	0.000013	0.000046	0.02	0.01
C028	Stacker to Stockpile T2	612,500	0.000013	0.000046	0.02	0.01
C033	Stacker 18 (alt) [2]	87,500	0.000013	0.000046	0.01	0.01
C034	Stacker 19 (alt) [2]	87,500	0.000013	0.000046	0.01	0.01
C011	Belt 9 Spare	350,000	0.000013	0.000046	0.01	0.01
C035	Belt 19 Spare	350,000	0.000013	0.000046	0.01	0.01

[1]Mining EF based on two conveyor drop points (controlled).
[2]The emission unit is not included in the table subtotals. It is an alternate process that, if used, will decrease throughput from the remaining emission units.

13. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-13 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 13 (10/18/12)]*

Table III-A-13: Asphalt System Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
D001	Loader to Hoppers (10 ea.)	527,340	0.000013	0.000046	0.01	0.01
D011	Loader to 2 RAP Hoppers	93,060	0.000013	0.000046	0.01	0.01
D002-6d	Belt Feeders 1 – 6d (10 ea)	527,340	0.000013	0.000046	0.01	0.01
D007	Conveyor 5e to Conveyor 6	527,340	0.000013	0.000046	0.01	0.01
D009	Screen to Conveyor 8 (BH) [1]	527,340	0.0011	0.0011	0.07	0.07
D008	Conveyor 6 to Scalping Screen	527,340	0.000013	0.000046	0.01	0.01
D012	Belts 9 and 10 to Conveyor	93,060	0.000013	0.000046	0.01	0.01

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
	11					
D029	Conveyor 11a to Conv. 11	93,060	0.000013	0.000046	0.01	0.01
D014	Aztec Drum Mixer (BH) [1]	660,000	See Table IV-A-14		1.62	1.62
D010	Conveyor 8 to Drum Mixer	527,340	0.000013	0.000046	0.01	0.01
D013	Conveyor 11 to Drum Mixer	93,060	0.000013	0.000046	0.01	0.01
D015	Mixer to Drag Slat Conveyor	660,000	Enclosed	Enclosed	0.00	0.00
D016	Asphalt Silo 1 Loading	110,000	0.00006	0.00006	0.01	0.01
D019e	Asphalt Silo 1 Un-Loading	110,000	0.0005	0.0005	0.03	0.03
D017	Asphalt Silo 2 Loading	110,000	0.00006	0.00006	0.01	0.01
D019e	Asphalt Silo 2 Un-Loading	110,000	0.0005	0.0005	0.03	0.03
D019a	Asphalt Silo 3 Loading	110,000	0.00006	0.00006	0.01	0.01
D019f	Asphalt Silo 3 Un-Loading	110,000	0.0005	0.0005	0.03	0.03
D019b	Asphalt Silo 4 Loading	110,000	0.00006	0.00006	0.01	0.01
D019g	Asphalt Silo 4 Un-Loading	110,000	0.0005	0.0005	0.03	0.03
D019c	Asphalt Silo 5 Loading	110,000	0.00006	0.00006	0.01	0.01
D019h	Asphalt Silo 5 Un-Loading	110,000	0.0005	0.0005	0.03	0.03
D019i	Asphalt Silo 6 Loading	110,000	0.00006	0.00006	0.01	0.01
D019j	Asphalt Silo 6 Un-Loading	110,000	0.0005	0.0005	0.03	0.03
D020	Baghouse to Screw Conveyor	250	Enclosed	Enclosed	0.00	0.00
D021	Screw Conveyor to Storage	250	Enclosed	Enclosed	0.00	0.00
D022	Silo to Conveyor 22	250	Enclosed	Enclosed	0.00	0.00
D023	Screw Conveyor 1 to Conveyor 2	250	Enclosed	Enclosed	0.00	0.00
D024	Screw Conveyor 21 to 22	250	Enclosed	Enclosed	0.00	0.00
D025	Asphalt Hauling (0.95 miles RT)	See Table III-A-23				
D026	Diesel Hot Oil Heater 16	See Table III-A-15			0.05	0.05
D027	Diesel Hot Oil Heater 17	See Table III-A-15			0.08	0.08
D028	Diesel Hot Oil Heater 17a	See Table III-A-15			0.05	0.05

[1]BH denotes unit vented to baghouse. Emissions from baghouse points are computed based on 75% capture efficiency and 99.5% control efficiency.

14. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-14 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 14 (10/18/12)]*

Table III-A-14: PTE for Asphalt Drum Mixer (tons/year)[1]

EU D014	$PM_{2.5}/PM_{10}$	NO_x	CO	SO_x	VOC	HAP
Diesel	1.62	19.14	33.00	19.14	10.56	2.87
LPG Firing	1.62	12.87	33.00	1.22	10.56	2.51
EU PTE	**1.62**	**19.14**	**33.00**	**19.14**	**10.56**	**2.87**

[1]Emission values based on maximum throughput of 450 tons per hour and 660,000 tons per year. The PTE is established using the fuel that results in the highest PTE (Fuel oil). Emission Factor (lbs/ton) for PM = 0.0049 is based on performance test data with plus a 25% margin. Emission Factors (lbs/ton) for NOx = 0.058, CO = 0.10 are based on AP42 11.1-7 adjusted to reflect burner control system. Emission Factor (lbs/ton) for SOx is based on AP42 11.1-7 assuming combustion of on specification fuel oil. Emission factors (lbs/ton) for VOC = 0.032, and HAPs = 0.0076, based

on AP42 11.1-7, 11.1-8, 11.1-9, and 1.5-1. Emission factor for SO_x (lbs/ton) = 0.0037, based on SBAPCD sulfur content table converted to lbs/ton (0.017 lb per MMBtu / 0.22 MMBtu per ton).

15. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-15 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 15 (10/18/12)]*

Table III-A-15: PTE for Asphalt Hot Oil Heaters (tons/year)[1]

EU	$PM_{2.5}/PM_{10}$	NO_x	CO	SO_x	VOC	HAP
D026[2]	0.05	0.53	0.13	0.18	0.01	0.01
D027[3]	0.08	0.79	0.20	0.28	0.01	0.01
D028[2]	0.05	0.53	0.13	0.18	0.01	0.01

[1]Emission factors from AP-42 Tables 1.3-1, 1.3-3, and 1.3-9.
[2]Based on six (6) gallons per hour and 52,560 gallons per year.
[3]Based on nine (9) gallons per hour and 78,840 gallons per year.

16. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-16 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 16 (10/18/12)]*

Table III-A-16: Road Runner Portable Screen Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
RS01	Loader to Hopper	50,000	0.000013	0.000046	0.01	0.01
RS03	Road Runner Incline Screen	50,000	0.00005	0.00074	0.11	0.02
RS02	Conveyor to Screen	50,000				
RS04	Screen to Stacker 1	50,000				
RS06	Screen to Stacker 2	50,000				
RS08	Underbelt Transfer to Stacker 3	33,333	0.000013	0.000046	0.01	0.01
RS05	Stacker 1 to Stockpile	16,667	0.000013	0.000046	0.01	0.01
RS07	Stacker 2 to Stockpile	16,667	0.000013	0.000046	0.01	0.01
RS09	Stacker 3 to Stockpile	33,333	0.000013	0.000046	0.01	0.01
RS10	Duetz 63 hp Diesel Engine	See Table III-A-18			0.03	0.03

17. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-17 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 17 (10/18/12)]*

Table III-A-17: Blending System Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
BS01	Loader to Five Bin System	500,000	0.000013	0.000046	0.02	0.01
BS02	Belt Feeders to Belt	500,000	0.000013	0.000046	0.02	0.01
BS03	Splitter to Alt Stacker (pugmill bypass)	500,000	0.000013	0.000046	0.02	0.01
BS03a	Stacker to Stockpile (bypass)	500,000	0.000013	0.000046	0.02	0.01
D013d	Pugmill Mixer (mixes supplement, water, and aggregate)	517,833	0.0055	0.0055	2.61	1.42

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
BS05a	Belt to Pugmill	500,000	0.000013	0.000046	0.02	0.01
BS05	Auger to Pugmill	8,333	0.000013	0.000046	0.01	0.01
D013a	Dual Lime Silo Loading	9,000	0.000051	0.00034	0.04	0.01
BS06a	Auxiliary Silo (Cement/Lime)	9,000	0.000051	0.00034	0.04	0.01
BS06	Guppy Silo	8,333	0.000051	0.00034	0.01	0.01
D013e	Belt Conveyor to Stacker	517,833	0.000013	0.000046	0.02	0.01
BS08	Stacker to Stockpile	517,833	0.000013	0.000046	0.02	0.01

18. The Permittee shall not exceed the hours/year limit, nor allow the actual emissions from each emission unit to exceed the PTE in Table III-A-18 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 18 (10/18/12)]*

Table III-A-18: Calculated PTE for Diesel Generators (tons/year)

EU	Description	Emission Factor[1]		Pollutant	PTE
A123	Caterpillar Diesel Engine; M/N: XQ225; S/N: 8JJ00309; 306 hp; DOM: 1997 2,000 hrs/yr	2.20E-04	lbs/hr	$PM_{2.5}/PM_{10}$	0.07
		1.092E-02		NO_x	3.34
		9.48E-04		CO	0.29
		2.05E-03		SO_x	0.63
		2.51E-03		VOC	0.77
		4.52E-05		Total HAP	0.01
STM39	Caterpillar Diesel Engine; M/N: XQ225; S/N: 8JJ00651; 306 hp; DOM: 1999 12 gal/hr 2,187 hrs/yr	8.00E-03	lbs/gal	$PM_{2.5}/PM_{10}$	0.10
		2.61E-01		NO_x	3.42
		4.60E-02		CO	0.60
		7.10E-03		SO_x	0.09
		2.00E-02		VOC	0.26
		9.59E-03		Total HAP	0.13
GW01	MultiQuip Diesel Engine; M/N: 4SL942; S/N: 3604197; 75 hp; DOM: 1994 2,560 hrs/yr	2.20E-03	lbs/hp-hr	$PM_{2.5}/PM_{10}$	0.21
		3.10E-02		NO_x	2.98
		6.68E-03		CO	0.64
		2.05E-03		SO_x	0.20
		2.51E-03		VOC	0.24
		4.52E-05		Total HAP	0.01
RS10	Duetz Diesel Engine; M/N: 4SL942; S/N: ; 50 kW; 67 hp; DOM: 1990s (nameplate unreadable) 500 hrs/yr	2.0E-03	lbs/hp-hr	$PM_{2.5}/PM_{10}$	0.03
		3.1E-02		NO_x	0.52
		6.68E-03		CO	0.11
		2.05E-03		SO_x	0.03
		2.51E-03		VOC	0.04
		4.52E-5		Total HAP	0.01

[1] PM_{10}, CO, and NO_x emission factors are from manufacturers' data. SOx, VOC, and HAP emission factors are based on AP-42 3.3-1. SO_x based on a maximum 0.05% sulfur content. Emission factors are based on AP42 3.3-1 default values.

19. The Permittee shall allow neither the actual nor the allowable emissions from the Caterpillar diesel engine (EU: A123) to exceed the standards Table IV-A-19. *[40 CFR 60.4204]*

Table III-A-19: Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder, g/kW-hr (g/hp-hr)

Maximum Engine Power	NMHC + NO_X	HC	NO_X	CO	PM
225≤kW≤450 (300≤hp≤600)	N/A	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

20. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-20 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 20 (10/18/12)]*

Table III-A-20: Southern Nevada Ready Mix Plant Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
F001	Aggregate Unloading to Hopper 1	411,625	0.000013	0.000046	0.01	0.01
F002	Belt 2 to Stacker 3	411,625	0.000013	0.000046	0.01	0.01
F003	Stacker 3 to Stockpile	411,625	0.000013	0.000046	0.01	0.01
F004	Loader to 4 Comp Agg Grind Hoppers (rock/sand)	205,812	0.000013	0.000046	0.01	0.01
F005	Belt 5 to Belt 7	205,812	0.000013	0.000046	0.01	0.01
F006	Belt 6 to Belt 7	205,812	0.000013	0.000046	0.01	0.01
F007	Belt 7 to 4-Comp Agg. Bin 10	205,812	0.000013	0.000046	0.01	0.01
F009	Belt 8 to 4-Comp Agg. Bin 10	205,812	0.000013	0.000046	0.01	0.01
F011	Belt 9 to 4-Comp Agg. Bin 10	205,812	0.000013	0.000046	0.01	0.01
F012	Agg Bin 10 to Hopper 11	65,833	Enclosed	Enclosed	0.00	0.00
F008	Loader to Agg. Hopper 8a	205,812	0.000013	0.000046	0.01	0.01
F010	Loader to Agg. Hopper 9a	205,812	0.000013	0.000046	0.01	0.01
F013	Belt 12 to Belt 13	411,625	0.000013	0.000046	0.01	0.01
F014a	Loading Station Central Mix (BH) [1]	75,000	0.0011	0.0011	0.01	0.01
F019	Batcher 18 to Truck (BH) [1]	75,000	0.0011	0.0011	0.01	0.01
F015	Fly Ash 15 Loading (Bin vent) [1]	13,125	0.0049	0.0049	0.01	0.01
F017	Cement Silo 14 Loading (Bin vent) [1]	61,875	0.00034	0.00034	0.01	0.01
F017a	Cement Silo 14a Loading (Bin vent) [1]	61,875	0.00034	0.00034	0.01	0.01
F018	Weigh Batcher Loading 18 (Bin vent) [1]	75,000	0.0049	0.0049	0.05	0.05
F016	Ash Silo to Weigh Hopper 18	13,125	0.000735	0.0049	0.01	0.03
F023	Fire Storm Propane-Fired Water Heater, 4.0 MMBtu/hr	See Table III-A-21			0.01	0.01

[1] BH and Bin vent denote units vented to baghouses and bin vents. Emissions from baghouse and bin vent points are computed based on 75% capture efficiency and 99.5% control efficiency.

21. The Permittee shall not exceed the hours/year limit, nor allow the actual emissions from the emission unit to exceed the PTE in Table III-A-21 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 21 (10/18/12)]*

Table III-A-21: Ready Mix Plant Hot Water Heater (4.0 MMBtu/hr) PTE (tons/year)

EU	Production Limit	$PM_{2.5}/PM_{10}$	NO_x	CO	SO_x	VOC	HAP
F023[1]	1,200 hrs/yr	0.01	0.09	0.18	0.04	0.01	0.01

[1] NO_x Emissions are based on 30 ppm and CO 100 ppm. All other values based on AP-42.

22. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-22 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 22 (10/18/12)]*

Table III-A-22: Con-E-Co Concrete Batch Plant Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
F025	Agg. Unloading Bellydump	80,580	0.000013	0.000046	0.01	0.01
F026	Loader to Feedhoppers 1 - 3	80,580	0.000013	0.000046	0.01	0.01
F026a	Loader to Aux. Feedhopper	80,580	0.000013	0.000046	0.01	0.01
F027	Belts 1 - 3 to Overhead Bins	80,580	0.000013	0.000046	0.01	0.01
F027a	Aux Belt to Overhead Bins	80,580	0.000013	0.000046	0.01	0.01
F027b	Overhead Bins to Weighhopper	80,580	0.000013	0.000046	0.01	0.01
F027c	Weighhopper to Belt	80,580	0.000013	0.000046	0.01	0.01
F027d	Belt to Loadout Aggs	80,580	0.000013	0.000046	0.01	0.01
F028	Fly Ash Silo Loading (Bin vent)	15,300	0.0049	0.0049	0.01	0.01
F028a	Fly Ash Silo to Weigh Batcher	15,300	Enclosed	Enclosed	0.00	0.00
F029	Cement Silo Loading (Bin vent)	15,300	0.00034	0.00034	0.01	0.01
F029a	Cement Silo to Weigh Batcher	15,300	Enclosed	Enclosed	0.00	0.00
F030	Aux Guppy Loading 1 - 4	77,175	0.00034	0.00034	0.01	0.01
F031	Transit Truck Loading (BH)[1]	20,400	0.03	0.0263	0.07	0.07

[1] BH denotes unit vented to baghouse. Emissions from baghouses are computed based on 75% capture efficiency and 99.5% control efficiency.

23. The Permittee shall not allow the actual emissions from the listed activities (H06) related to vehicle miles traveled to exceed the PTE in Table III-A-23 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 23 (10/18/12)]*

Table III-A-23: Haul Road PTE for $PM_{2.5}$ and PM_{10}

EU	Process	Road Length (miles)	VMT/yr	$PM_{2.5}$ PTE values	PM_{10} PTE tons/yr
H06[1]	Aggregate	0.5	32,866	2.41	16.06
	Aggregate Haul Out	0.55	29,822		
	Type 2	0.35	10,889		
	Mine Haul	0.30	6,666		
	Asphalt	0.475	25,080		
	Portable Screen Hauling	1.0	1,100		

EU	Process	Road Length (miles)	VMT/yr	$PM_{2.5}$ PTE values	PM_{10} PTE tons/yr
	Blending System	0.6	2,000		
	Southern Nevada Ready Mix	1.0	25,000		
	Aggregate	1.0	3,950		
	Rip Rap	3.0	9,000		
	Cyclone Sand	0.6	600		
	Ready-Mix Hauling	0.5	2,500		
	Admixture Haul	0.5	227		
	Cal Portland Hauling	1.0	30,000		
	Wet-Cast Cement Haul In	0.4	914		
	Wet-Cast Cement Haul Out	0.4	6,720		

24. The Permittee shall not exceed the limit on acres, nor allow the actual emissions from this activity to exceed the PTE in Table III-A-24 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 24 (10/18/12)]*

Table III-A-24: Source-wide Stockpile Area PTE for $PM_{2.5}$ and PM_{10} (tons/year)

EU	Description	Acres	PTE $PM_{2.5}$ tons/yr	PM_{10} PTE tons/yr
G01	Entire Plant	45.0	2.04	13.63

25. The Permittee shall not the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-25 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 25 (10/18/12)]*

Table III-A-25: Cyclone Sand Loadout System Emission Unit List and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Throughput tons/year	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
CS01	Loader to Masterscreen Feed Hopper w/ Static Grizzle	15,000	0.000013	0.000046	0.01	0.01
CS02	Loadout Belt to Pneumatic Truck	15,000	0.000013	0.000046	0.01	0.01

26. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-26 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 26 (10/18/12)]*

Table III-A-26: Precast Management Mobile Mini Mixer Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
MM01	2 Comp. Feed Bin	23,700	0.000013	0.000046	0.01	0.01
MM02	Charge Belt	23,700	0.000013	0.000046	0.01	0.01
MM03	3/4 Yard Mixer	3,300	0.000285	0.0019	0.01	0.01
MM04	Cement Hopper	3,300	0.000051	0.00034	0.01	0.01
MM05	Disturbed Surfaces	1.5 acres	0.249 lbs/acre-day	1.66 lbs/acre-day	0.07	0.45

27. The Permittee shall not exceed the hours/year limit, nor allow the actual emissions from each emission unit to exceed the PTE in Table III-A-27 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 27 (10/18/12)]*

Table III-A-27: Precast Management Mobile Mini Mixer Engines and PTE (tons/year)

EU	Description	EF (lbs/hp-hr)[1]	Pollutant	PTE tons/yr
MM06	Perkins Diesel Engine; M/N: TBD; S/N: TBD; 21 hp; DOM: 2000 500 hrs/yr	2.20E-03	$PM_{2.5}/PM_{10}$	0.01
		3.10E-02	NO_x	0.16
		6.68E-03	CO	0.04
		2.05E-03	SO_x	0.01
		2.51E-03	VOC	0.01
		4.52E-05	Total HAP	0.01
MM08	MQ Power Engine; M/N: DCA25SSIU; S/N: 7105410; 30 hp; DOM: 2000 1,200 hrs/yr	1.30E-03	$PM_{2.5}/PM_{10}$	0.02
		8.91E-03	NO_x	0.16
		2.43E-03	CO	0.04
		2.05E-03	SO_x	0.04
		2.51E-03	VOC	0.05
		4.52E-05	Total HAP	0.01

[1]Emission factors from AP-42 except PM_{10}, NO_x, and CO which are from manufacturer's emission data sheets.

28. The Permittee shall not allow neither the actual nor the allowable emissions from the diesel engines (EUs: MM06 and MM08) to exceed the standards in Table III-A-28: *[40 CFR 60.4204]*

Table III-A-28: Emission Standards for Diesel Engines, g/kW-hr

Maximum Engine Power	NO_X	HC	NMHC + NO_X	CO	PM
MM06	N/A	N/A	9.5	6.6	0.80
MM08	9.2	N/A	N/A	N/A	N/A

29. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-29 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 29 (10/18/12)]*

Table III-A-29: CalPortland Plant One Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Product Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
STM01	Unloading Aggregate Belly dump	642,135	0.000013	0.000046	0.01	0.01
STM02	Loader to Aggregate Hopper 1a	160,534	0.000013	0.000046	0.01	0.01
STM03	Loader to Aggregate Hopper 2a	160,534	0.000013	0.000046	0.01	0.01
STM04	Loader to Aggregate Hopper 3a	160,534	0.000013	0.000046	0.01	0.01
STM04A	Loader to Aux. Hopper	160,534	0.000013	0.000046	0.01	0.01
STM06	Belt 1 to 5 Comp Storage Bin (T. P.)	160,534	0.000013	0.000046	0.01	0.01
STM07	Belt 2 to 5 Comp Storage Bin	160,534	0.000013	0.000046	0.01	0.01
STM08	Belt 3 to 5 Comp Storage Bin	160,534	0.000013	0.000046	0.01	0.01
STM08a	Belt 4 to Weigh Hopper	160,534	0.000013	0.000046	0.01	0.01
STM10	Weigh Hopper 5 to Underbelt 6	642,135	0.000013	0.000046	0.01	0.01

EU	Description	Product Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
STM13	Cement Silo 7 Loading (Bin vent) [1]	48,263	0.00034	0.00034	0.01	0.01
STM13a	Cement Silo 7a Loading (Bin vent) [1]	48,263	0.00034	0.00034	0.01	0.01
STM14	Guppy Silo 11 Loading (Bin vent) [1]	96,525	0.00034	0.00034	0.01	0.01
STM15	Fly Ash Silo 8 Loading (Bin vent) [1]	20,475	0.0049	0.0049	0.01	0.01
STM16	Cement to Weigh Batcher (Bin vent) [1]	96,525	0.01	0.01	0.12	0.12
STM17	Fly Ash to Weigh Batcher (Bin vent) [1]	96,525	0.01	0.01	0.12	0.12
STM18	Transit Truck Loading Station (BH) [1]	117,000	0.0087	0.0087	0.19	0.56
STM18a	Belt 6 to Transit Truck	117,000	0.0011	0.0074	0.06	0.43
STM19	Storage Piles- 4 Acres	N/A	0.249 lbs/acre-day	1.66 lbs/acre-day	0.18	1.21
STM19a	Water Heater <1MMBtu/hr (Categorically Exempt)	Categorically Exempt				

[1] BH and Bin vent denote units vented to baghouses and bin vents. Emissions from baghouse and bin vent points are computed based on 75% capture efficiency and 99.5% control efficiency.

30. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-30 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 30 (10/18/12)]*

Table III-A-30: Cal Portland Plant Three Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Product Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
STM44	Radial Stacker	474,000	0.000013	0.000046	0.01	0.01
STM43	Drive over Hopper	474,000	0.000013	0.000046	0.01	0.01
STM45	Hopper to Agg. Belt 1	94,800	0.000013	0.000046	0.01	0.01
STM46	Hopper to Agg. Belt 2	94,800	0.000013	0.000046	0.01	0.01
STM47	Hopper to Agg. Belt 3	94,800	0.000013	0.000046	0.01	0.01
STM48	Hopper to Agg. Belt 4	94,800	0.000013	0.000046	0.01	0.01
STM49	Hopper to Agg. Belt 5	94,800	0.000013	0.000046	0.01	0.01
STM55	Agg. Bin (5 compartment)	474,000	0.000013	0.000046	0.01	0.01
STM50	Belt 6 to Agg. Bin	94,800	0.000013	0.000046	0.01	0.01
STM51	Belt 7 to Agg. Bin	94,800	0.000013	0.000046	0.01	0.01
STM52	Belt 8 to Agg. Bin	94,800	0.000013	0.000046	0.01	0.01
STM53	Belt 9 to Agg. Bin	94,800	0.000013	0.000046	0.01	0.01
STM54	Belt 10 to Agg. Bin	94,800	0.000013	0.000046	0.01	0.01
STM56	Bin to Weigh Hopper	474,000	Enclosed	Enclosed	0.00	0.00
STM57	Belt A13 to Truck Loadout	474,000	0.000051	0.00034	0.01	0.08
STM58	Cement Silo #1 Loading	20,000	0.000051	0.00034	0.01	0.01
STM59	Cement Silo #2 Loading	20,000	0.000051	0.00034	0.01	0.01
STM60	Fly Ash Silo Loading	30,000	0.000735	0.0049	0.01	0.07
STM61	Silos to Weigh Batcher	90,000	0.000360	0.0024	0.02	0.11

EU	Description	Product Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
STM62	Truck Loading (BH) [1]	90,000	0.0087	0.0087	0.10	0.10
STM63	Guppy Silo (Bin vent) [1]	60,000	0.0034	0.00034	0.03	0.01
STM64	Ash Guppy Silo (Bin vent) [1]	30,000	0.0049	0.0049	0.02	0.02
STM65	Cement Silo (Bin vent) [1]	20,000	0.0034	0.00034	0.01	0.01
STM66	Disturbed Surface	2 acres	0.249 lbs/acre/day	1.66 lbs/acre/day	0.09	0.61
STM68	Diesel Generator (490 hp, Caterpillar Engine)	See Table III-A-31			0.12	0.12
STM19a	Pearson Water Heater <1MMBtu/hr (Categorically Exempt)	Categorically Exempt		--	--	--

[1]BH and Bin vent denote units vented to baghouses and bin vents. Emissions from baghouse and bin vent points are computed based on 75% capture efficiency and 99.5% control efficiency.

31. The Permittee shall not exceed the hours/year limit, nor allow the actual emissions from the genset to exceed the PTE in Table III-A-31 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 31 (10/18/12)]*

Table III-A-31: Cal Portland Diesel Generator PTE (tons/year)

EU	Conditions	$PM_{2.5}/PM_{10}$	NO_x	CO	SO_x	VOC	HAP
STM68 490 hp Genset[1] Make: Caterpillar, M/N: 3406, S/N: 4ZR04354 DOM: 1998	2,000 hrs/yr	0.12	8.25	0.81	0.18	0.13	0.24

[1]Emissions based on AP-42 3.3-a default values.

32. The Permittee shall not allow the actual emissions from each emission unit/activity to exceed the PTE in Table III-A-32 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 32 (10/18/12)]*

Table III-A-32: Aggregate/Cement Products Wet-Cast Plant Emission Units and PTE for $PM_{2.5}$ and PM_{10}

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
AP22	Loader to 4 Comp Agg Bins	109,760	0.000013	0.000046	0.01	0.01
AP23	Belt Feeders to Belt 2	109,760	0.000013	0.000046	0.01	0.01
AP24	Belt 2 to Elevator	109,760	0.000013	0.000046	0.01	0.01
SP25	Elevator to Weigh Hopper	109,760	0.00036	0.0024	0.02	0.13
AP26	Weigh Hopper to Mixer	109,760	0.000013	0.000046	0.01	0.01
AP27	Concrete Mixer (Bin vent)	133,560	0.000013	0.000046	0.01	0.01
AP28	Mixer to Wet Concrete Molding	133,560	0.00	Wet Process	0.00	0.00
AP29	Cement Silo Loading	23,800	0.00051	0.0034	0.01	0.04
AP40a	Cement Unloading to Silo #2	23,800	0.00051	0.0034	0.01	0.04
AP30	Silo Screws to Mixer	23,800	0.00057	0.0038	0.01	0.05
AP40b	Fly Ash Silo loading via pneumatic transfer. Unload via enclosed auger	4,000	0.00074	0.0049	0.01	0.01
AP31	Storage Piles/Disturbed	2.0 acres	0.25	1.66	0.09	0.61

EU	Description	Process Throughput tons/yr	Controlled $PM_{2.5}$ EF lbs/ton	Controlled PM_{10} EF lbs/ton	$PM_{2.5}$ PTE tons/yr	PM_{10} PTE tons/yr
	Surfaces		lbs/acre-day	lbs/acre-day		
AP48	Tumbler (BH) [1]	40,000	0.00005	0.00005	0.01	0.01
AP47	Hopper Belt to Tumbler	40,000	0.00001	0.00005	0.01	0.01
AP49	Tumbler to Belt Conveyor	40,000	0.00001	0.00005	0.01	0.01

[1]BH and Bin vent denote units vented to baghouses and bin vents. Emissions from baghouse and bin vent points are computed based on 75% capture efficiency and 99.5% control efficiency.
[2]Wet process (no emissions) denotes emission units processing materials with >10% moisture in the ¼" minus materials.

33. The Permittee shall not allow the actual emissions from the media blasting activity to exceed the PTE in Table III-A-33 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 33 (10/18/12)]*

Table III-A-33: Media Blasting Emission Unit and PTE

EU	Description	PM_{10} PTE (tons/yr)
MB01	Media Blasting Operations, 48"x28"x28" enclosure vented to a dust collector.	0.25

34. The Permittee shall not allow the actual emissions from the gasoline gispensing activities to exceed the PTE in Table III-A-34 in any consecutive twelve month period. *[NSR – ATC, Section IV-A, Condition 34 (10/18/12)]*

Table III-A-34: Gasoline Dispensing Emission Units and PTE

EU	Description	M/N	S/N	VOC PTE (tons/yr)
FT01	500 gallon above ground gasoline storage tank			0.26
FT02	500 gallon above ground gasoline storage tank			0.26

35. Unless specified otherwise below, the Permittee shall not discharge into the atmosphere, from any emission unit, exclusive of blasting activities, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes. *[AQR 26.1.1]*

36. The Permittee shall not allow fugitive emissions from the fly ash and cement silo loading (EUs: F015, F017, F017a, F028, STM13, STM13a, STM15, STM58, STM59, STM60, STM63, STM64, STM65, and AP29) in excess of an average opacity of 20 percent. *[AQR 26.1.1]*

37. The Permittee shall not allow visible emissions from the asphalt plant in excess of an average of 20 percent opacity for a period or periods aggregating more than 6 minutes in any 60-minute period (EUs: D001 through D028). *[40 CFR 60.92(a)(2)]*

38. The Permittee shall not discharge from the asphalt plant (EUs: D001 through D028) into the atmosphere any gases that contain particulate matter in excess of 0.04 grains per dry standard cubic foot. *[40 CFR 60.92(a)(1)]*

39. The Permittee shall operate wet processes (>10% moisture in the ¼" minus materials) (EUs: A084 through A110c, and A055 through A077) so no visible emissions are observed at any time. *[AQR 12.5.2.3]*

40. The Permittee shall not allow fugitive emissions from screens, conveyors, and transfer points that commenced construction, modification, or reconstruction after August 31, 1983, but

before April 22, 2008, to exhibit an average opacity greater than 10 percent. This is applicable to the following emission units listed in table III-A-33: *[40 CFR 60.672(b)]*

Table III-A-33: 40 CFR Subpart OOO Applicable Emission Units, pre- April 22, 2008

EU	Description
Secondary Aggregate Plant	
A013	Tunnel Belt BC-4a 3 to VGF 2a
A015	Jaw Crusher CR-1
A016	VGF 2a drop to Belt 4 (BH)
A018	Screen S-1 (Simplicity) (BH)
A017	Belt 4 to Screen S-1 (BH)
A020	Screen S-1 to Crusher CR-2 (BH)
A036	Screen S-1 underbelt to Belt 5
A022	Belt 6 Split to Belt 44 and 45
A025	Screen S-2 (JCI 8x20) (BH)
A023	Belt 44 to Screen S-2 (BH)
A027	Screen S-2 to Belt 46 (BH)
A034	Screen S-2 underbelt to Belt 7
A026	Screen S-3 (JCI 8x20) (BH)
A024	Belt 45 to Screen S-3 (BH)
A028	Screen S-3 to Belt 47 (BH)
A035	Screen S-3 underbelt to Belt 7
A029	Belt 46 to Belt 8 (BH)
A030	Belt 47 to Belt 8 (BH)
A032	Crusher CR-3 (BH)
A033	Crusher CR-3 to Belt 6 (BH)
A037	Belt 5 to Belt 43
A038	Belt 43 to Belt 7 or 62
A038a	Belt 62 to Belt 63
A039	Belt 7 to Stacker 9
Overland Feed System	
A041	Belt Feeds 1-3 to Tunnel Belt 10
A042	Belt 10 to Overland Belt 48 (BH)
A043	Overland Belt 48 to Belts 11 and 50 (BH)
A046	Belt 50 to Stacker 51
Wash Plant #1	
A080	VGF 3a through 4 to Belt 25
A081	Belt 25 Tunnel to Belt 74
A082	Belt 73 (Spare)
A107	Belt 39 to Surge Bin (recirc)
A083	Belt 74 (mod) to Belts 54, 55, and 30 via Surge Bin
A111	Belt 72 to Belt 74
Wash Plant #2	
A048	VGF 1 and 2 to Belt 12
A049	Belt 12 Tunnel to Belt 13
A050	Belt 13 to Surge Bin 4
A051	Belt 22 to Belt 17
A053	Belt 20 to Belt 21
A059	Crusher CR-5
A061	Belt 19 to Surge Bin 4 (recirc.)
West Screen Plant	
B001	Stockpile to Belt 1
B002	Belt 1 to Belt 3

EU	Description
B004	Belt 3 to Splitter (BH)
B004a	Splitter to Belt 4 (BH)
B006a	Splitter to Belt 5 (BH)
B003a	Reject Stacker (alt ops)
B006	Screen 1 ElJay (BH)
B005	Belt 4 to Screen 1
B022	Screen 1 to Belt 18
B008	Screen 2 ElJay (BH)
B007	Belt 5 to Screen 2
B024	Screen 2 to Belt 19
B013	Screen 3 (JCI) (BH)
B012	Belt 7 to Screen 3
B013	Screens to Belt 10
B028	Screen 3 to Belt 15
B028a	Screens to Belt 17
B039	Screen 3 to Belt 8
B018	Screens to Belt 20
B033	Belt 20 (rev) to Belt 11 or Belt 15
B029	Belt 14 to Belt 10 or Belt 16
B033	Belt 10 to Belt 11
B037	Belt 12 to Belt 9
B041	Belt 9 to Splitter (recirc)
B035	Cone Crusher
B043	Wet Screen
B020	Belt 15 to Stacker 4
B051	Belt 17 to Belt 2
B038	Belt 18 to Belt 13
B026	Belt 19 to Belt 13
B040	Belt 8 to Belt 13
B053	Belt 13 to Belt 13a
B031	Stacker 1 to Stockpile
B011	Belt 6 (spare)
Type 2 Plant (Virgin and Recycle)	
A012d	VGF2 to Belt 70 [2]
A012e	Belt 70 to Belt 2a Overland
A010	Loader to VGF Feeder
C003	VGF to Belt 3
C004	Belt 3 to Belt 4
C005a	Screen 3 Cedar Rapids
C005b	Belt 4 to Screen 3
C005c	Screen 3 to Stacker 22 (alt)
C005d	Screen 3 to Stacker 15 (alt)
C005e	Screen 3 to Underbelt
C005f	Screen 3 to Belt 5
C031	S3 Underbelt to Stacker
C006	Belt 5 to Belt 6 & 7 (splitter)
C008	Screen 1 Cedar Rapids
C007	Belt 6 to Screen 1
C016	Screen 1 to Belt 14
C009	Screen 2 Cedar Rapids
C009a	Screen1 & 2 to Belt 8
C025	Screen 2 to Belt 21
C013	Belt 11 to Belt 12

EU	Description
C013a	Belt 12 to Belt 6&7 (splitter)
C017	Belt 14 to Belt 18a
C022	Belt 18a to Stacker 17
C027	Belt 20 to Belt 16
C019	Belt 16 to Stacker
C011	Belt 9 Spare
C035	Belt 19 Spare

41. The Permittee shall not allow fugitive emissions from crushers that commenced construction, modification, or reconstruction after August 31, 1983, but before April 22, 2008, to exhibit an average opacity greater than 15 percent. This is applicable to the following units listed in Table III-A-34: *[40 CFR 60.672(b)]*

Table III-A-34: 40 CFR Subpart OOO Applicable Emission Units, pre- April 22, 2008

EU	Description
Primary Feed (Mountain Top)	
A02a	Gyratory Crusher (crushing) and associated transfers
Secondary Aggregate Plant	
A015	Jaw Crusher CR-1 (Nordberg) (BH) and associated transfers
A020	Crusher CR-2 (Hazemag) (BH) and associated transfers
A032	Crusher CR-3 (Canica VSI) (BH) and associated transfers
Wash Plant #2	
A059	Crusher CR-5 (Canica VSI) and associated transfers
West Screen Plant	
B035	Cone Crusher (BH) and associated transfers
Type 2 Plant (Virgin and Recycle)	
A012b	Jaw Crusher CR-10 and associated transfers
C002	Jaw Crusher and associated transfers
C012	Horz. Shaft Impact Crusher and associated transfers

42. The Permittee shall not allow fugitive emissions from screens, conveyors, and transfer points that commenced construction modification, or reconstruction after April 22, 2008, not connected to baghouses, to exhibit an average opacity greater than 7 percent. This is applicable to the units listed in Table III-A-35: *[40 CFR 60.672(b)]*

Table III-A-35: OOO Applicable Emission Units, post April 22, 2008

EU	Description
Secondary Aggregate Plant	
A038c	Belt 64 at H.S.I. oversize reject (alt ops)
Wash Plant #1	
A103	Belt 37 to VSI Crusher 6a
A106a	VSI 6a to Belt BC59
A106b	Belt BC59 to Belt BC39
Wash Plant #2 and Canica VSI Circuit	
A120e	Belt 73 to Size Screen
A120a	Size Screen 3 Deck
A120f	Size Screen to Ubelt and Belt 79
A120b	Belt 79 to Belt 80
A120g	Belt 80 Recirc to Belt 72
A121a	Belt 77 to Dewater Screen
A121	Dewatering Screen

A121b	Dewater Screen to Belt 73
A122	Screen Ubelt to Stacker
A122b	Belt 74 to Belt 81
A122c	Belt 81 to Belt 82
A122d	Belt 82 to BC12
A124	Belt (Spare)
Rip Rap/Miscellaneous Screening	
H08	Trommel Screen Hurcules HT182
H02	Oversize Reject #1 - #4
H05	Fines Transfer Belt
West Screen Plant	
B016	Belt 16 to Stacker 2
B054	Belt 13a to Washer or Stacker 1
B055	Overland Belt Conveyor Transfer to Belt (to BC10 Tert. feed)
B047	7 x 20 Dewater Screen (spare)
B046	Belt Conveyor Transfer to Belt (spare)
B046a	Loader to Aux Refeed Hopper w/Feeder (alt)
Type 2 Plant (Virgin and Recycle)	
A010	Belt 2a to VGF Feeder or SP
C009	Screen 2 Cedar Rapids
C008a	Belt 7 to Screen 2
C026	Belt 21 to Belt 20
Road Runner Portable Screen	
RS01	Loader to Hopper
RS03	Road Runner Incline Screen
RS02	Conveyor to Screen
RS04	Screen to Stacker 1
RS06	Screen to Stacker 2
RS08	Underbelt Transfer to Stacker 3
Blending System	
BS02	Belt Feeders to Belt
BS03	Splitter to Alt Stacker (pugmill bypass)
D013d	Pugmill Mixer (mixes supplement, water, and aggregate)
BS05A	Belt to Pugmill
D013e	Belt Conveyor to Stacker
Cyclone Sand Loadout System	
CS01	Loader to Masterscreen Feed Hopper w/ Static Grizzle

43. The Permittee shall not allow visible emissions from crushers that commenced construction modification, or reconstruction after April 22, 2008, not connected to baghouses, to exhibit an average opacity greater than 12 percent. This is applicable to the units listed in Table III-A-36. *[40 CFR 60.672(b)]*

Table III-A-36: OOO Applicable Emission Units, post April 22, 2008.

EU	Description
Wash Plant #1	
A103a	VSI CR7a and associated transfers
A106a	VSI Crusher 6a and associated transfers
A120	VSI Crusher CR9 and associated transfers

44. The Permittee shall not allow visible emissions from baghouses at the crushing and screening plants to exhibit an average opacity greater than 7 percent. *[40 CFR 60.672(b)]*

45. The Permittee shall not discharge into the atmosphere emissions from any stack subject to 40 CFR 60 Subpart OOO which contains particulate matter in excess of 0.05 g/dscm. *[40 CFR 60.672(a)]*
46. The Permittee shall not discharge from any source whatsoever quantities of air contaminants or other material which cause a nuisance. *[AQR 40.1]*

B. Production Limits

Aggregate/Asphalt Processing

1. The Permittee shall limit the amount of material mined and processed through the primary feed (EU: A02a) at this source to 5,000,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC/OP Modification 3, Section III-A, Condition 3 (11/09/05)]*
2. The Permittee shall limit the amount of material processed at the secondary plant (EU: A040) to 5,000,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC/OP Modification 3, Section III-A, Condition 3 (11/09/05)]*
3. The Permittee shall limit the blasting to area (EU: A001a) to 1,109,836 square feet in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR - ATC/OP Modification 6, Section III-A, Table III-A-12 & Condition (06/25/08)]*
4. The Permittee shall limit the amount of blasting agent (EU: A001a) used to 1,500 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR - ATC/OP Modification 6, Section III-A, Table III-A-13 & Condition (06/25/08)]*
5. The Permittee shall limit the throughput of Wash Plant 1 (EU: A080) to 2,000,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC/OP Modification 3, Section III-A, Condition 5 (11/09/05)]*
6. The Permittee shall limit the throughput of Wash Plant 2 plant (EU: A048) to 1,500,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR - ATC/OP Modification 10, Section IV-B, Condition 5 (04/30/10)]*
7. The Permittee shall limit the throughput of the Canica VSI Circuit (EU: A117) to 200,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC/OP Modification 4, Section II, Table II-A-1 & Condition (12/11/06)]*
8. The Permittee shall limit the throughput of the Rip Rap Plant and Trommel Screen System (EU: H05c) to 150,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR ATC Section IV-B, Condition 3 (01/27/11)]*
9. The Permittee shall limit the throughput of the West Screen Plant (EU: B001) to 1,500,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC/OP Modification 5, Section III-A, Condition 6 (11/05/07)]*
10. The Permittee shall limit the throughput of material mined and processed through the Type II Plant (Virgin and Recycle) (EU: C001) to 700,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC/OP Modification 4, Section III-A, Conditions 7&8 (12/11/06)]*
11. The Permittee shall limit the amount of material mined for the Type II Plant (EU: C001a) to 500,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC/OP Modification 4, Section III-A, Condition 7 (12/11/06)]*
12. The Permittee shall limit the throughput in the Asphalt Plant (EU: D014) to 660,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC/OP Modification 4, Section III-A, Condition 9 (12/11/06)]*

13. The Permittee shall limit the throughput in the Road Runner Portable Screen Plant (EU: RS01) to 50,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR - ATC Modification 9, Section IV-B, Condition 2 (05/11/09)]*
14. The Permittee shall limit the throughput in the Blending System (EU: BS01) to 500,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR ATC Section IV-B, Condition 4 (01/27/11)]*
15. The Permittee shall limit the throughput of washed cyclone sand (EU: CS01) to 15,000 tons in the cyclone sand loadout system in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR - ATC Modification 7, Section IV-A, Condition 2 (11/25/08)]*
16. The Permittee shall limit the hauling to not exceed the limits in Table III-A-22 in any consecutive twelve month period (EU: H06). *[NSR – ATC Modification 10, Section IV-A, Table IV-A-20 (4/30/10)]*
17. The Permittee shall limit the stockpile area to not exceed 45.0 acres (EU: G01) in any consecutive twelve month period. *[NSR ATC/OP Modification 6, Section III-A, Table III-A-20 & Condition (06/25/08)]*

Southern Nevada Ready Mix Plant

18. The Permittee shall limit the throughput in the Southern Nevada Ready Mix Plant (EU: F001) to 411,625 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR ATC/OP Modification 6, Section III-A, Table III-A-17 & Condition (06/25/08)]*
19. The Permittee shall limit the operation of the Fire-Storm water heater to 1,200 hours in any consecutive twelve month period (EU: F023). *[NSR ATC/OP Modification 6, Section III-A, Table III-A-17 & Condition (06/25/08)]*

Con-E-Co Concrete Batch Plant

20. The Permittee shall limit the amount of concrete processed through the Con-E-Co Concrete Batch Plant to 50,000 yards in any consecutive twelve month period, monitored and calculated at the end of each month. Washed aggregate and rock usage (EU: F025) shall be limited to 80,850 tons in any consecutive twelve month period. *[NSR ATC Section IV-B, Condition 1 (03/08/11)]*

Precast Management Mobile Mixer

21. The Permittee shall limit the throughput of material processed at the Precast Management Mobile Mixer (EU: MM01) to 23,700 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC Modification 10, Section IV-A, Table IV-A-24 (4/30/10)]*

CalPortland Plant One

22. The Permittee shall limit the throughput of material processed at CalPortland Plant One to 725,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR - ATC Modification 10, Section IV-B, Condition 13 (04/30/10)]*

CalPortland Plant Three

23. The Permittee shall limit the production of concrete products to 600,000 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR - ATC Modification 10, Section IV-B, Condition 14 (04/30/10)]*

Aggregate/Cement Products Wet-Cast

24. The Permittee shall limit the production of wet cast pavers (EU: AP27) to 133,560 tons in any consecutive twelve month period, monitored and calculated at the end of each month. *[NSR – ATC/OP Modification 4, Section III-A, Condition 25, (12/11/06)]*

Diesel-Powered Units

25. The Permittee shall limit the operation of each generator and of each fire pump to the hour limitations , in any consecutive twelve month period, as specified in Table III-B-1. *[NSR- ATC Mod 7, Section IV-A, Condition 4, (11/25/08), ATC Mod 9, Section IV-B, Condition 3 & 4, (05/11/09)]*

Table III-B-1: Maximum Allowable Operational Limits

EU	Hours/Year
A123, Caterpillar Diesel Generator, 306 hp	2,000
STM39, Caterpillar Generator, 306 hp	2,187
GW01, MultiQuip 75 hp	2,560
RS10, Duetz 63 hp	500
MM06, Perkins Diesel Genset 21 hp	500
MM08, MQ Power Genset 30 hp	1,200
STM68, 490 hp Genset (Caterpillar Engine)	2,000

Media Blasting Unit

26. The Permittee shall limit the operation of the media blasting unit (EU: MB01) to 1,000 hours in any consecutive twelve month period. *[Minor Title V Revision (00372_20110526_APP) incorporated into the Initial Title V]*

Gasoline Dispensing/Storage

27. The Permittee shall limit the combined throughput of gasoline for the fuel tanks (EUs: FT01 and FT02) to 12,000 gallons in any consecutive twelve month period . *[Minor Title V Revision (00372_20110825_APP) incorporated into the Title V]*

C. Emission Controls

Aggregate, Concrete, and Asphalt Processing:

1. Except as otherwise provided by Condition III-C-1, wherever a baghouse is used to control emissions from process equipment, the Permittee shall ensure said baghouse is in use at all times the process equipment is operating. (For clarification purposes, Table III-C-1 identifies applicable baghouse control devices): *[NSR – ATC/OP Modification 4, Section III-B, Condition 1, (12/11/06)]*

Table III-C-1: List of Emission Units with Baghouse Control

EU	Description	Baghouse ID
A015	Jaw Crusher CR-1 (Nordberg)	DC1
A016	VGF drop to Belt 4	DC1
A018	Belt 4 to Screen S-1 Screen S-1 (Simplicity)	DC1
A020	Screen to Crusher CR-2 Crusher CR-2 (Hazemag) Crusher CR-2 to Belt 6	DC1
A025	Belt 45 to Screen S-2	DC1

EU	Description	Baghouse ID
	Screen S-2 (JCI 8x20) Screen S-2 to Belt 46	
A026	Belt 45 to Screen S-3 Screen S-3 (JCI 8x20) Screen S-3 to Belt 47	DC1
A029	Belt 46 to Belt 8 Belt 47 to Belt 8	DC1
A032	Belt 8 to Crusher CR-3 Crusher CR-3 (Canica VSI) Crusher CR-3 to Belt 6	DC1
A040	Stacker 9 to Surge pile 2	DC1
A041	Belt 10 to Overland Belt 48 Belt 48 to Belts 11 and 50	LMC West 2 hp model 5x4 VSD6
B001	Belt 3 to Splitter Splitter to Belt 4 Splitter to Belt 5	DC2
B006	Screen 1 (ElJay)	DC2
B008	Screen 2 (ElJay)	DC2
B013	Screen 3 (JCI)	DC2
B035	Cone Crusher	DC2
D009	Screen to Conveyor 8	Astec 200 hp (twin) Pulsejet
D014	Drum Mixer	Astec 200 hp (twin) Pulsejet
F014a	Batcher 18 to Truck	Donaldson 10 hp
F031	Transit Truck Loading	Donaldson 10 hp

DC1 – Fabric Filter Air Systems 200 hp Pulsejet SN5316
DC2 – Fabric Filter Systems 125 hp Pulsejet SN 5315

2. The Permittee shall ensure than an effective seal is installed around the baghouses and binvents, and the pressure drop across each baghouse cell and binvents shall be maintained between 1" and 6" water column. *[NSR – ATC/OP Modification 4, Section III-B, Condition 41, (12/11/06)]*

3. The Permittee shall operate fly ash silo loading, cement silo loading, and weigh batcher loading associated with the concrete batch plant, with a bin vent dust filter with a manufacturer's minimum control efficiency of 99.5 percent. *[NSR ATC 372 Condition IV-C-10 (01/27/11)]*

4. The Permittee shall utilize an automated air-to-fuel ratio control system that optimizes burner performance in the asphalt plant drum mixer. The system shall be maintained and calibrated according to the specifications of the manufacturer and the control system shall be employed at all times the drum mixer is operated (EU: D014). *[NSR – ATC/OP Modification 4, Section III-B, Condition 28, (12/11/06)]*

5. The Permittee shall maintain a water spray system in good operating condition, as verified by a daily inspection, and be used at all times during the processing of the material as need to mitigate fugitive emissions. This shall include but not be limited to crushing, screening, transfer points, drop points and stacker points excluding washed product processing. The Permittee shall investigate and correct any problems with the control equipment before resuming operations. The Control Officer at any time may require additional watersprays at pertinent locations if an inspection by the Control Officer indicates that the opacity limit is being exceeded. *[NSR – ATC/OP Modification 6, Section IV-B, Condition 46, (06/25/08)]*

Fugitive Emissions:

6. The Permittee shall take continual measures to control fugitive dust (e.g. wet, chemical or organic suppression, enclosures, etc.) at all mining and aggregate processing operations, material transfer points, stockpiles, truck loading stations and haul roads throughout the source. The Control Officer may at any time require additional water sprays or other controls at pertinent locations if an inspection indicates that opacity limits are being exceeded. *[NSR – ATC/OP Modification 4, Section III-B, Condition 19, (12/11/06)]*
7. The Permittee shall sweep and/or rinse roads accessing or located on the site as necessary to remove all observable deposits and so as not to exhibit an average opacity in excess of 20 percent. *[NSR – ATC/OP Modification 4, Section III-B, Condition 35, (12/11/06)]*
8. The Permittee shall control fugitive emissions on unpaved roads accessing or located on the site by treating with chemical or organic dust suppressant and watered as necessary, or paved, or graveled, or have an alternate, Control Officer approved, control measure applied, so as not to exhibit an average opacity in excess of 20 percent. *[NSR – ATC/OP Modification 4, Section III-B, Condition 36, (12/11/06)]*
9. The Permittee shall control fugitive dust emissions from screens, crushers, conveyors, storage piles, transfer points, and nonmetallic mineral processing equipment not connected to baghouse controls or part of the wet process by operational water sprays as needed to prevent exceeding opacity standards. *[NSR – ATC/OP Modification 4, Section III-B, Condition 23, (12/11/06)]*
10. The Permittee shall not cause or allow controllable fugitive dust to become airborne without taking reasonable precautions. *[NSR – ATC/OP Modification 5, Section IV-B, Condition 20, (11/05/07)]*
11. The Permittee shall not cause or allow the discharge of controllable fugitive dust in excess of 100 yards from the point of origin or beyond the lot line of the property on which the emissions originate, whichever is less. *[NSR – ATC/OP Modification 4, Section III-B, Condition 20, (12/11/06)]*
12. The Permittee shall control fugitive dust emissions from any disturbed open area or disturbed vacant lot that are owned or operated by the Permittee by paving, applying gravel, applying a dust palliative or applying water to form a crust. *[NSR – ATC/OP Modification 5, Section IV-B, Condition 51, (11/05/07)]*
13. The Permittee shall control particulate matter emissions from any unpaved parking lot owned or operated by the Permittee by paving, applying a dust palliative or by an alternate method approved by the Control Officer regardless of the number of days of use. *[NSR – ATC/OP Modification 4, Section III-B, Condition 43, (12/11/06)]*
14. Where a stationary source, or a portion thereof, is to be closed or idled for a period of 30 days or more, long-term stabilization of disturbed areas shall be implemented within 10 days following the cessation of active operations. Long-term stabilization includes, but is not limited to one or more of the following: applying water to form a crust, applying palliatives, applying gravel, paving, denying unauthorized access or other effective control measure to prevent fugitive dust from becoming airborne. *[NSR – ATC/OP Modification 4, Section III-B, Condition 44, (12/11/06)]*

Water Heaters:

15. The Permittee shall maintain and operate the propane-fired water heater (EU: F023) with burners rated for emission rates of 30 ppm NOx, corrected to 3 percent oxygen. *[NSR – ATC/OP Modification 6, Section IV-B, Condition 51, (06/25/08)]*

16. The Permittee shall maintain and operate the propane-fired water heater (EU: F023) with burners rated for emission rates of 100 ppm CO, corrected to 3 percent oxygen. *[NSR – ATC/OP Modification 6, Section IV-B, Condition 51, (06/25/08)]*

Diesel Engines:

17. The Permittee shall operate each of the Caterpillar diesel generators with turbochargers and aftercoolers (EUs: A123, STM39, and STM68). *NSR – ATC Section IV-C, Condition 17 (10/18/12)]*

18. The Permittee shall use only low sulfur diesel fuel (0.05 percent or less sulfur by weight) in any diesel engine. *[NSR – ATC Section IV-C, Condition 18 (10/18/12); 40 CFR 63.6604]*

19. The Permittee shall use only diesel fuel with a maximum sulfur content of 500 ppm and either a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume in diesel engines subject to 40 CFR 63 Subpart ZZZ that are greater than 300 hp (EU: A123). *[NSR – ATC Section IV-C, Condition 19 (10/18/12); 40 CFR 63 .6604]*

20. The Permittee shall maintain each generator (EUs: A123, MM06, MM08, STM39, STM68, GW01, and RS10) as follows, unless the manufacturer's specifications are more stringent: *[NSR – ATC Section IV-C, Condition 20 (10/18/12); 40 CFR 63.6625(i)]*

    a. Change oil and filter every 500 hours of operation or annually, whichever comes first;

    b. Inspect air cleaners every 1,000 hours of operation or annually, whichever comes first; and

    c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

Media Blasting Unit

21. The Permittee shall control media blasting operations by performing all blasting in an enclosure and venting the enclosure to a dust collector. *[NSR – ATC Section IV-C, Condition 21 (10/18/12)]*

Gasoline Dispensing/Storage

22. The Permittee shall implement control technology requirements pursuant to 40 CFR 63 Subpart CCCCCC as follows:
    a. The Permittee shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Preventative measures to be taken include, but are not limited to, the following: *[NSR – ATC Section IV-C, Condition 22 (10/18/12); 40 CFR 63.11116]*

        i. Minimize gasoline spills;

        ii. Clean up spills as expeditiously as practicable;

        iii. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;

        iv. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

General Emission Controls:

23. The Permittee must comply with control requirements contained in this section. If there is inconsistency between standards or requirements, the most stringent standard or requirement shall apply. *[NSR – ATC Section IV-C, Condition 23 (10/18/12)]*

D. Monitoring

Water Heater:

1. The Permittee shall conduct burner efficiency tests in accordance with the manufacturer's specifications and specifications for good combustion practices at least once per calendar year (EU: F023). *[NSR – ATC Section IV-D, Condition 1 (10/18/12)]*
2. The Permittee shall operate the boiler with a nonresettable hour meter, or other device approved in advance by the Control Officer, and monitor its hours of operation (EU: F023) *[NSR – ATC Section IV-D, Condition 2 (10/18/12)]*.
3. The Permittee shall not be required to perform a burner efficiency test if the actual hours of operation are zero. This requires that an hour meter be installed and written records must begin to be kept prior to the beginning of the calendar year for which the option is to be exercised. (EU: F023). *[NSR – ATC Section IV-D, Condition 3 (10/18/12)]*

Aggregate, Concrete, and Asphalt Processing:

4. The Permittee shall use EPA Method 9 to comply with the opacity requirements of 40 CFR 60, Subpart OOO and Subpart I. *[40 CFR 60.93(b)(2) and 60.675(b)(2)]*
5. The Permittee shall use EPA Method 5 to comply with the particulate matter standards of 40 CFR 60, Subpart OOO and Subpart I. *[40 CFR 60.93(b)(1) and 60.675(b)(1)]*
6. The Permittee shall maintain a weigh belt immediately after the primary crusher (EU: A015) to monitor throughput. This weigh belt shall conform to ASTM standards and be operated, maintained and calibrated according to the specifications of the manufacturer. *[NSR – ATC Section IV-D, Condition 5 (10/18/12)]*
7. Permittee shall monitor the material throughput of each process that has a production limit identified in Section III-B of this permit. The throughput shall be monitored and recorded at least monthly. *[NSR – ATC Section IV-D, Condition 6 (10/18/12)]*
8. The Permittee shall operate a continuous automated particle sampler (Beta Attenuation or EPA approved equivalent) pursuant to 40 CFR Part 53. The automated particle sampler shall be capable of speciation and located in a site approved by the Control Officer. *[NSR - ATC Modification 10, Section IV-D, Condition 7 (04/30/10)]*
9. The Permittee shall conduct daily monitoring of the pressure drop across each baghouse cell and each binvent with the installation and operation of a pressure differential (Magnehelic) gauge per manufacturer's specifications. *[NSR - ATC Modification 10, Section IV-D, Condition 8 (04/30/10)]*
10. The Permittee shall conduct daily visual observations of binvents, baghouse and/or stack discharges to verify that visible emissions are not present. If there are visual emissions, the Permittee shall cease operations producing the emissions until the problem is corrected. *[NSR - ATC Modification 10, Section IV-D, Condition 9 (04/30/10)]*
11. The Permittee shall conduct monthly visual inspection of the baghouse and binvent interior for air leaks. Defective baghouse compartments shall be sealed off and repairs completed within 5 working days of the discovery of the malfunction. Should the malfunction cause the baghouse to be ineffective in controlling particulate emissions, the processing of material shall cease until such repairs to the baghouse are completed. *[NSR - ATC Modification 10, Section IV-D, Condition 10 (04/30/10)]*

12. The Permittee shall conduct a daily visual emissions check for visible emissions from emissions units while they are in operation. *[NSR – ATC Section IV-D, Condition 11 (10/18/12)]*
13. If the Permittee, during the visible emissions check, does not see any plume that, on an instantaneous basis, appears to exceed the opacity standard, then the observer shall keep a record of the name of the observer, the date on which the check was made, the location, and the results of the visible emissions check. *[NSR – ATC Section IV-D, Condition 12 (10/18/12)]*
14. If the Permittee sees a plume that, on an instantaneous basis, appears to exceed the opacity standard, the Permittee shall: *[NSR – ATC Section IV-D, Condition 13 (10/18/12)]*
    a. take immediate action to correct causes of fugitive emissions that appear to exceed allowable opacity limits; or
    b. if practical, have a certified VE observer take an EPA Method 9 observation of the plume and record the results, and take immediate action to correct causes of fugitive emissions in excess of allowable opacity limits in accordance with 40 CFR 60 Appendix A: Reference Method 9.
15. Visible emissions checks do not require a certified VE observer, except where visible emissions appear to exceed the allowable opacity limit and exceed 30 seconds in duration, and an EPA Method 9 observation is made to establish it does not exceed the standard. *[NSR – ATC Section IV-D, Condition 14 (10/18/12)]*
16. The Permittee shall conduct daily inspections on all water spray systems used during the processing of the material to verify they are working effectively and to make corrections here spray systems are not operating effectively. *[NSR – ATC Section IV-D, Condition 15 (10/18/12)]*
17. Post construction monitoring activities shall be subject to DAQ Ambient Monitoring Policy, the EPA interim document for continuous PM_{10} monitoring and the relevant provisions of 40 CFR, Parts 50, 51, 52, 53 and 58. *[NSR – ATC Section IV-C, Condition 16 (10/18/12)]*

CAM

18. Only emission units at the source with pre-control emissions exceeding 100 tons per year are subject to the CAM rule. Table III-D-1 lists the emission unit at the facility that is subject to the CAM rule. *[AQR 12.5.2.6(d)]:*

Table III-D-1: Emission Units Subject to CAM

EU	Description	Control Device	Pre-control PM_{10} Emissions (tpy)
D014	Astec Drum Mixer	Baghouse	161.70

19. Measurements of baghouse pressure drop and a daily Method 9 were chosen as CAM indicators. The key elements of the monitoring approach are presented in Table III-D-2 *[AQR 12.5.2.6(d)]:*

Table III-D-2: CAM Monitoring Approach – PM_{10}

CAM Element	Indicator 1	Indicator 2
Indicator	Pressure Drop (Δp) Across Baghouse	Daily Method 9 (Opacity)
Measurement Approach	Pressure drop is measured each operating day. An internal inspection of the baghouse is performed monthly.	An EPA Method 9 is conducted daily.
Indicator Range	The baghouse pressure drop will be monitored for compliance and be	Opacity is limited to 10% for an aggregate 6 minute period during any

CAM Element	Indicator 1	Indicator 2
	between 2.0 and 6.0 inches of water when the drum mixer is operating.	60 minute period.
Action Threshold	The action threshold for Δp is between 2.0 and 6.0 inches of water. Action thresholds trigger an inspection and corrective action, or documentation that the system is operating normally.	Not applicable
QIP Thresholds	None selected	More than three (3) excursions within a quarterly reporting period
Performance Criteria Data Representativeness	Filterable PM_{10} emissions are measured every 5 years using a Method 5.	Observations are made at the baghouse exhaust.
Verification of Operational Status	Not applicable	Not applicable
QA/QC Practices and Criteria	The pressure gauge will be calibrated or replaced annually.	The VE observer will be familiar with baghouse operations and visible emissions.
Monitoring Frequency	Daily	Daily
Data Collection Procedures	The pressure drop is measured each operating day and the baghouse exterior. An internal inspection of the baghouse is performed monthly.	A Method 9 is performed and documented daily.
Averaging Period	Not applicable	Opacity is limited to 10% for an aggregate 6 minute period during any 60 minute period.

E. Testing

1. Performance testing is subject to 40 CFR 60 (as amended) and DAQ Guideline on Performance Testing (as revised). Performance testing shall be the instrument for determining compliance with emission limitations set forth in this OP. *[NSR – ATC/OP Modification 4, Section III-F, Condition 1, (12/11/06)]*
2. Compliance with the PM_{10}, NO_x and CO emissions standards specified in this permit for the asphalt plant drum mixer shall be demonstrated at least once every 5 years for PM_{10}, NO_x, and CO with the EPA methods referenced in Table III-E-1 (EU: D014). The automated burner optimizing system shall be calibrated at least during every performance test. *[AQR 12.5.2.6(d) and 40 CFR 60.93]*

Table III-E-1: Asphalt Drum Mixer Performance Testing Requirements (EU: D014)

Test Point	Pollutant	Method	Frequency
Exhaust Outlet Stack	PM	EPA Method 5	Every 5 Years
Exhaust Outlet Stack	NOx	EPA Method 7E	Every 5 Years
Exhaust Outlet Stack	CO	EPA Method 10 analyzer	Every 5 Years
Stack Gas Parameters	-	EPA Methods 1, 2, 3 or 3A, and 4	Every 5 Years

Refer to Table III-C-1 for baghouse identification.

3. Compliance with the opacity and particulate matter standards specified in Table III-E-3 for baghouse stacks shall be demonstrated in accordance with 40 CFR 60 Appendix A: Method 9 (Standards for Opacity) conducted and recorded every 5 years and 40 CFR 60 Appendix A: Reference Method 5 or 17 (concentration) conducted and recorded initially and at least once every 5 years. *[AQR 12.5.2.6(d) and 40 CFR 60.93 and 60.675]*

Table III-E-2: Baghouse Performance Testing Methods

Test Point	Pollutant	Test Type	Frequency
Exhaust Outlet Stack	PM	EPA Method 5 or 17	Every 5 Years
Stack Gas Parameters	-	EPA Methods 1, 2, 3 or 3A, and 4	Every 5 Years

Refer to Table III-C-1 for baghouse identification.

Table III-E-3: Opacity and PM Testing Standards and Frequencies

Baghouse ID	Applicable Limits		Stack Test Frequency
	Opacity	PM Limit	
DC1	7% Subpart OOO	0.05 g/dscm Subpart OOO	Every 5 Years
LMC West 2 hp model 5x4 VSD6	7% Subpart OOO	0.05 g/dscm Subpart OOO	Every 5 Years
DC2	7% Subpart OOO	0.05 g/dscm Subpart OOO	Every 5 Years
Astec 200 hp (twin) Pulsejet	20% Subpart I	0.04gr/dscf Subpart I	Every 5 Years
Donaldson 10 hp	20%	(not subject to NSPS)	Every 5 Years

4. The Permittee shall conduct additional performance tests when any emission unit increases its hourly production rate beyond the rate permitted and at which performance testing was conducted, or when any equipment addition or modification increases the potential to emit. *[NSR – ATC Section IV-E, Condition 4 (10/18/12)]*

F. Record Keeping

1. All records and logs required by this document shall be kept by the Permittee and made available to the Control Officer for inspection immediately upon request. *[NSR – ATC Section IV-F, Condition 1 (10/18/12)]*
2. All records and logs, or a copy thereof, shall be kept on site for a minimum of 5 years from the date the measurement or data was entered. *[NSR – ATC Section IV-F, Condition 2 (10/18/12)]*
3. The Permittee shall maintain onsite the following records for reporting*: [NSR – ATC Section IV-F, Condition 3 (10/18/12)]*
    a. monthly and rolling 12 months total production of materials by each process/plant as listed in Section III-B of this permit;
    b. hours of operation of each engine/generator in a daily log with monthly summations (EUs: A123, MM06, MM08, STM39, STM68, GW01, and RS10);
    c. amount of blasting agent used per year and the square feet per year of area blasted as listed in Tables III-A-4 and III-A-5;
    d. hours of operation of the propane-fired water heater (EU: F023);
    e. hours of operation of the diesel-powered units (EUs: A123, STM39, STM68, GW01, RS10, MM06, and MM08) with monthly summations;
    f. length of on-site haul roads as listed in Table III-A-22;
    g. area of stockpiles as listed in Table III-A-23;
    h. hours of operation of the media blasting unit (EU: MB01);
    i. monthly throughput of gasoline (EUs: FT01 and FT02); and

j. annual emissions for each unit and for each plant in tons per year (consecutive 12-month total).

4. The Permittee shall maintain records on-site that include, at a minimum: *[NSR – ATC Section IV-F, Condition 4 (10/18/12)]*
   a. sulfur content of diesel fuel;
   b. inspection logs from Method 9 observations *[40 CFR 60.676(f)]*;
   c. logs from daily water spray inspections;
   d. log of dust control measures applied to roads, surfaces, lots, etc.;
   e. cetane index or aromatic content (in percent by volume) of diesel fuel;
   f. manufacturer's engine data showing compliance with the emission standards;
   g. daily readings of pressure drop across each baghouse;
   h. monthly baghouse and binvent inspections;
   i. instances of the required daily opacity readings on bin vents, baghouses and/or stack discharges where visible emissions were observed and description of any action taken;
   j. a minimum of hourly readings of the automated air-to-fuel ratio control system that optimizes burner performance on the asphalt plant drum mixer (EU: D014) during operation;
   k. maintenance on all emission control devices;
   l. ambient air monitoring station data;
   m. records of burner efficiency tests;
   n. monthly throughput on the weighbelt after the primary crusher (EU: A015);
   o. annual emissions for each emission unit in tons per year; and
   p. results of performance testing.

5. For all inspections, visible emission checks, and testing required under monitoring, logs, reports, and records shall include at least the date and time, the name of the person performing the action, the results or findings, and the type of corrective action taken (if required). *[NSR – ATC Section IV-F, Condition 5 (10/18/12)]*
6. The Permittee is required to comply with the record keeping requirements of 40 CFR 60, Subpart OOO. *[40 CFR 60.676]*
7. Records and data required by this permit and maintained by Permittee may be audited, at the Permittee's expense, at any time by a third party selected by the Control Officer. *[NSR – ATC Section IV-f, Condition 7 (10/18/12)]*

G. Reporting

1. All report submissions shall be addressed to the attention of the Control Officer. *[AQR 12.5.2.8(e)(4)]*
2. All reports shall contain the following: *[AQR 12.5.2.6(d)]*
   a. a certification statement on the first page, i.e., "I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this document is true, accurate and complete." (A sample form is available from DAQ); and

b. a certification signature from a responsible official of the company and the date certification.

3. The Permittee shall submit semi-annual reports to the Control Officer. *[AQR 12.5.2.6(d)]*

4. The following requirements apply to semi-annual reports: *[AQR 12.5.2.6(d)]*

   a. The report shall include a semi-annual summary of each item listed in Section III-F-2.

   b. The report shall include semi-annual summaries of any permit deviations, their probable cause, and corrective or preventative actions taken.

5. The Permittee shall report to the Control Officer (4701 W. Russell Road, Suite 200, Las Vegas, NV 89118) any upset, breakdown, malfunction, emergency or deviation which cause emissions of regulated air pollutants in excess of any limits set by regulation or by this permit. The report shall be in two parts as specified below *[AQR 25.6.1 and AQR 12.1.4.1(d)(3)(B)]:*

   a. within twenty-four (24) hours of the time the Permittee learns of the event, the report shall be communicated by phone (702) 455-5942, fax (702) 383-9994, or email.

   b. within seventy-two (72) hours of the notification required by paragraph (a) above, the detailed written report containing the information required by AQR Section 25.6.3 shall be submitted.

6. The Permittee shall report to the Control Officer deviations that do not result in excess emission, with the semi-annual reports. Such reports shall include the probable cause of deviations and any corrective actions or preventative measures taken. *[AQR 12.5.2.6(d)4(B)]*

7. Regardless of the date of issuance of this permit, the source shall comply with the schedule for report submissions outlined in Table III-G-1 *[AQR 12.5.2.6(d)]*:

Table III-G-1: Required Report Submission Dates

Required Report	Applicable Period	Due Date[1]
Semi-annual Report for 1st Six-Month Period	January, February, March, April, May, June	July 30 each year
Semi-annual Report for 2nd Six-Month Period, Any additional annual records required.	July, August, September, October, November, December	January 30 each year
Annual Compliance Certification Report	Calendar Year	January 30 each year
Annual Emission Inventory Report	Calendar Year	March 31 each year
Notification of Malfunctions, Startup, Shutdowns or Deviations with Excess Emission	As Required	Within 24 hours of the Permittee learns of the event
Report of Malfunctions, Startup, Shutdowns or Deviations with Excess Emission	As Required	Within 72 hours of the notification
Deviation Report without Excess Emissions	As Required	Along with semi-annual reports
Performance Testing	As Required	Within 60 days from the end of the test.

[1] If the due date falls on a Saturday, Sunday or a Federal or Nevada holiday, then the submittal is due on the next regularly scheduled business day.

8. The Control Officer reserves the right to require additional reports and reporting to verify compliance with permit conditions, permit requirements, and requirements of applicable federal regulations. *[AQR 4.4 and AQR 12.5.2.6(d)]*

9. This source is required to comply with the reporting and notification requirements of 40 CFR 60, Subpart OOO. *[40 CFR 60.676]*

H. Mitigation

1. The source has no federal offset requirements associated with this permitting action. *[AQR 59.1.1]*

IV. OTHER REQUIREMENTS

1. The Permittee shall not use, sell, or offer for sale any fluid as a substitute material for any motor vehicle, residential, commercial, or industrial air conditioning system, refrigerator freezer unit, or other cooling or heating device designated to use a CFC or HCFC compound as a working fluid, unless such fluid has been approved for sale in such use by the Administrator. The Permittee shall keep record of all paperwork relevant to the applicable requirements of 40 CFR 82 on site. *[40 CFR 82]*

V. PERMIT SHIELD

Compliance with the terms contained in this permit shall be deemed compliance with the following applicable requirements in effect on the date of permit issuance: *[AQR 12.5.2.9]*

Table VI-1: Applicable Requirements Related to Permit Shield

Citation	Title
40 CFR 60 Subpart IIII	NSPS – Stationary Compression Ignition Internal Combustion Engines
40 CFR 63 Subpart *ZZZZ*	NESHAP – Stationary Reciprocating Internal Combustion Engines
40 CFR 60 Subpart OOO	NSPS – Standards of Performance for Nonmetallic Mineral Processing Plants
40 CFR 60 Subpart I	NSPS – Standards of Performance for Hot Mix Asphalt Facilities
40 CFR 64.2	Compliance Assurance Monitoring
40 CFR 98 Subpart C	Mandatory Greenhouse Gas Reporting – General Stationary Fuel Combustion Sources
AQR Section 26.1.1	Emission of Visible Air Contaminants
AQR Section 45.1	Idling of Diesel Powered Motor Vehicles

ATTACHMENT 1

APPLICABLE REGULATIONS

REQUIREMENTS SPECIFICALLY IDENTIFIED AS APPLICABLE:

- NRS, Chapter 445B.
- Applicable AQR Sections:

Citation	Title
AQR Section 0	Definitions
AQR Section 4	Control Officer
AQR Section 5	Interference with Control Officer
AQR Section 8	Persons Liable for Penalties – Punishment: Defense
AQR Section 9	Civil Penalties
AQR Section 10	Compliance Schedule
AQR Section 11	Ambient Air Quality Standards
AQR Section 12.4	Authority to Construct Application and Permit Requirements for Part 70 Sources
AQR Section 12.5	Part 70 Operating Permit Requirements
AQR Section 18	Permit and Technical Service Fees
AQR Section 25	Upset/Breakdown, Malfunctions
AQR Section 26	Emissions of Visible Air Contaminants
AQR Section 28	Fuel Burning Equipment
AQR Section 29	Sulfur Contents of Fuel Oil
AQR Section 40	Prohibition of Nuisance Conditions
AQR Section 41	Fugitive Dust
AQR Section 42	Open Burning
AQR Section 43	Odors in the Ambient Air
AQR Section 60	Evaporation and Leakage
AQR Section 70	Emergency Procedures
AQR Section 80	Circumvention

1. CAAA, Authority: 42 U.S.C. § 7401, et seq.
2. Applicable 40 CFR Subsections:

Citation	Title
40 CFR 52.21	Prevention of Significant Deterioration (PSD)
40 CFR 52.1470	SIP Rules
40 CFR 60, Subpart A	Standards of Performance for New Stationary Sources (NSPS) – General Provisions
40 CFR 60, Subpart I	Standards of Performance for Hot Mix Asphalt Facilities
40 CFR 60, Subpart OOO	Standards of Performance for Nonmetallic Mineral Processing Plants
40 CFR 60	Appendix A, Method 9 or equivalent, (Opacity)
40 CFR 70	Federally Mandated Operating Permits
40 CFR 82	Protection of Stratospheric Ozone

Rose Webster

From: Mark.Miller@aggregate-us.com
Sent: Friday, November 30, 2012 12:19 PM
To: Rose Webster
Cc: Doug.Barrowman@aggregate-us.com
Subject: Re: Department of Air Quality Part 70 Operating Permit , Technical Support Document and Final Action Report for Source #372_Aggregate Industries Sloan Quarry

Got It -Thanks Rose!

Mark Miller
Environmental and Land Services Manager
Aggregate Industries-SWR, Inc.
3101 East Craig Road
North Las Vegas, NV 89030
United States
Phone: 702-649-6250
Fax Number: 702-649-9275
Cell Number 702-358-7280
Email: mark.miller@aggregate-us.com
www.aggregate-us.com

An Aggregate Industries US Company
A member of the Holcim Group

From: "Rose Webster" <rwebster@ClarkCountyNV.gov>
To: "'DOUG.BARROWMAN@AGGREGATE-US.COM'" <DOUG.BARROWMAN@AGGREGATE-US.COM>, "'MARK.MILLER@AGGREGATE-US.COM'" <MARK.MILLER@AGGREGATE-US.COM>
Date: 11/30/2012 12:04 PM
Subject: Department of Air Quality Part 70 Operating Permit , Technical Support Document and Final Action Report for Source #372_Aggregate Industries Sloan Quarry

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Good afternoon gentlemen,

Attached is the Permit, TSD and FAR for the above source.

You should print the document and maintain a copy in/on site.

If you have any questions, please contact Mike Rael at 702-455-5942.

Please confirm receipt of this email.

Thank you,

Rosie Webster

Senior Office Specialist
Permitting Division

702-455-5913
rwebster@clarkcountynv.gov
[attachment "00372_20121130_TSD.pdf" deleted by Mark Miller/AIUS/Aggregate] [attachment "00372_20121130_FAR.pdf" deleted by Mark Miller/AIUS/Aggregate] [attachment "00372_20121130_PER.pdf" deleted by Mark Miller/AIUS/Aggregate]