

CLARK COUNTY
DEPARTMENT OF AIR QUALITY
4701 West Russell Road, Suite 200, Las Vegas, Nevada 89118
Portable Synthetic Minor Source Permit
Source: 17716
Issued in accordance with the
Clark County Air Quality Regulations
(Section 12.1)

ISSUED TO: **Fisher Sand & Gravel Company**
1302 West Drivers Way
Tempe, Arizona 85284

SOURCE: **Fisher Sand & Gravel Company**
1302 West Drivers Way
Tempe, Arizona 85284
(Check Portable Source Permit Move Notice)

RESPONSIBLE OFFICIAL:

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Permit Issuance: August 25, 2015

Expiration Date: August 24, 2020

Revision Date: **xxxxx**

ISSUED BY: CLARK COUNTY DEPARTMENT OF AIR QUALITY

Richard Beckstead
Permitting Manager, Clark County Department of Air Quality

SOURCE DESCRIPTION

Fisher Sand & Gravel Company is a portable aggregate plant which is categorized under SIC code 1442: Construction Sand and Gravel and NAICS code 212321: Construction Sand and Gravel Mining. This is a synthetic minor source of regulated air pollutants which consists of an aggregate processing plant made up of several crushers, screens, conveyor systems and stackers, a feed hopper associated with a wash plant, and a hot mix asphalt plant made up of a drum dryer, pugmill, two screens, two silos, two diesel-fired hot oil tanks, and several conveyors and feeders. The source also includes disturbed surfaces/stockpiles, an unpaved haul road, and five continuous duty diesel-powered generators, as well as a wash plant (a wet process), two aboveground diesel fuel storage tanks, an aboveground asphaltic cement storage tank, and a rubberized asphalt plant classified as insignificant emission units.

The source has taken a VAEL by limiting the throughput of material processed in the aggregate plant (EUs: A01 through A03, A06 through A13, A16, and A17) and the amount of asphalt produced by the HMA plant (EUs: D01 through D16) to avoid becoming a major source of PM₁₀. In addition, the source has taken a VAEL by limiting the hours of operation of the 945 kW diesel-powered generator (EU: C03) and the amount of asphalt produced by the HMA plant (EUs: D01 through D16) to avoid becoming a major source of NO_x. The source has also taken a VAEL by limiting the consecutive 12 month production of asphalt by the HMA plant (EUs: D01 through D16) to avoid becoming a major source of CO. This source is subject to 40 CFR Part 60, Subpart I, 40 CFR Part 60, Subpart OOO, 40 CFR Part 60, Subpart IIII, and 40 CFR Part 63, Subpart ZZZZ. By complying with 40 CFR Part 60, Subpart IIII, the source meets the requirements of 40 CFR Part 63, Subpart ZZZZ.

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PROPOSED

I. ACRONYMS

Table I-1: Acronyms and Abbreviations

Acronym	Term
Air Quality	Clark County Department of Air Quality
AQR	Clark County Air Quality Regulations
CFR	United States Code of Federal Regulations
CI	Compression Ignition
CO	Carbon Monoxide
DOM	Date of Manufacture
dscf	Dry Standard Cubic Foot
dscm	Dry Standard Cubic Meter
EU	Emission Unit
gr	Grains
HC	Hydrocarbons
HP	Horse Power
kW	kiloWatt
mg	Milligrams
NAICS	North American Industry Classification System
NMHC	Non Methane Hydrocarbons
NOA	Naturally Occurring Asbestos
NO _x	Nitrogen Oxides
PM _{2.5}	Particulate Matter less than 2.5 microns
PM ₁₀	Particulate Matter less than 10 microns
PTE	Potential to Emit
SIC	Standard Industrial Classification
SO ₂	Sulfur Dioxide
TBD	To Be Determined
VAEL	Voluntarily Accepted Emission Limitation
VE	Visible Emissions
VOC	Volatile Organic Compound

II. GENERAL CONDITIONS

A. ADMINISTRATIVE REQUIREMENTS

1. The Permittee must comply with all conditions of the permit. Any permit noncompliance constitutes a violation of the regulations and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *[AQR 12.1.4.1(r)]*
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 12.1.4.1(i)]*
3. The terms and conditions of this permit apply to any part or activity of the stationary source that emits or has the potential to emit any regulated air pollutant for which operating authority has been granted by this permit, including all third parties (i.e. lessees, contractors, etc.) conducting such activities. *[AQR 12.1.4.1(c) and AQR 12.1.4.1(w)]*
4. The Permittee shall pay fees to the Control Officer consistent with the approved fee schedule in Section 18. *[AQR 12.1.4.1(k)]*
5. The permit does not convey any property rights of any sort, or any exclusive privilege. *[AQR 12.1.4.1(s)]*
6. Any person who has been issued a permit pursuant to AQR Section 12 shall post such permit in compliance with the requirements of AQR Section 12.13. *[AQR 12.1.4.1(u)]*
7. The permit shall not waive, or make less stringent, any limitations or requirements contained in or issued pursuant to the Nevada SIP, or that are otherwise federally enforceable. *[AQR 12.1.4.1(v)]*
8. Except as provided in AQR Section 12.1.6, the Permittee shall not commence construction of, operate, or make a modification to the source except in compliance with a minor source permit that authorizes such construction, operation or modification. *[AQR 12.1.3.1]*
9. The Permittee's commencement of operation constitutes an acknowledgment that the Permittee assumes the responsibility of ensuring that the source's emission units and emission control equipment have been constructed and will be operated in compliance with all applicable requirements. *[AQR 12.1.4.2]*
10. It shall not be a defense for the Permittee 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 12.1.4.1(o)]*

B. MODIFICATION, REVISION, RENEWAL REQUIREMENTS

1. The permit may be modified, revoked, reopened and reissued, or terminated for cause by the Control Officer. The filing of a request by the Permittee for a permit modification, termination, or of a notification of planned changes or anticipated noncompliance, does not stay any permit condition. [AQR 12.1.4.1(p)]
2. Any revision of an emission limitation, monitoring, testing, reporting, or recordkeeping requirement shall be made consistent with the permit revision requirements in AQR Section 12.1.6. [AQR 12.1.4.1(e)]
3. A permit may be reopened and revised under any of the following circumstances: [AQR 12.1.4.1(q)]
 - a. Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Control Officer, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - b. The Control Officer determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - c. The Control Officer determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
 - d. Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.
4. The Permittee shall submit a timely application for a permit renewal to the Control Officer at least one hundred twenty (120) days, but no more than two hundred seventy (270) days, before the date of permit expiration. [AQR 12.1.3.2(b)]
5. The Permittee shall submit a complete application for a permit renewal to the Control Officer that contains all information required under AQR 12.1.3.6. If, while processing an application that is deemed complete, the Control Officer determines that additional information is necessary to evaluate or take final action on the application, he or she may request such information in writing and set a reasonable deadline for submission. Failure to provide the information by the deadline can result in denial of the application. [AQR 12.1.3.3]
6. Upon receipt of a timely and complete renewal application, failure to have the renewal issued prior to the permit expiration is not a violation of the regulations until the Control Officer takes final action on the application. This application shield shall cease to apply if, after a completeness determination, the Permittee fails to submit any additional information identified as needed to process the application by a deadline the Control Officer has specified in writing. [AQR 12.1.3.4]

C. REPORTING/NOTIFICATIONS/PROVIDING INFORMATION REQUIREMENTS

1. The Permittee is responsible for the applicable notification and reporting requirements of 40 CFR Part 60 and 40 CFR Part 63.
2. Any new minor source or any existing source that requires a significant permit revision shall provide a written notice to the Control Officer no later than thirty (30) days prior to commencing operation that: *[AQR 12.1.4.1(n)]*
 - a. The source as constructed or modified is the same as the source or modification authorized by the permit or revision; or
 - b. The source as constructed or modified differs from the source or modification authorized by the permit or revision issued, and the differences are listed and described.
 - c. Where a new or revised permit requires no additional construction, the thirty (30) day written notice requirement has been met at the time the application is deemed complete.
3. The Permittee shall submit to the Control Officer within fifteen days (15) days after commencing operation any outstanding identification and description that was not previously available for new emission unit(s), as noted in this permit with "TBD". *[AQR 12.1.3.6(a)(3)(B)]*
4. 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 modifying, 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. For records deemed confidential, the Permittee may furnish such records to the Control Officer along with a claim of confidentiality pursuant to AQR Section 12.6. *[AQR 12.1.4.1(t)]*
5. As a condition of the issuance of the permit, the owner or operator agrees to permit inspection of the premises to which the permit relates, including the location where records must be kept under the conditions of the permit, by any authorized representative of the Control Officer at any time during the Permittee's hours of operation without prior notice to perform the following: *[AQR 12.1.4.1(m)(2)]*
 - 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.

6. The Permittee shall submit an annual emission inventory report to the Control Officer, Compliance Division in accordance with the following: *[AQR 12.1.4.1(d)(3)(A)]*
 - a. reports shall be based on the preceding calendar year;
 - b. submitted on or before March 31 each year, even if there was no activity (if March 31st falls on a Saturday or Sunday, the submittal is due on the next regularly scheduled business day); and
 - c. reports shall include the calculated actual annual emissions from each emission unit, even if there was no activity, and the total calculated actual annual emissions for the source based on the emissions calculation methodology used to establish the PTE in the permit.
7. The Permittee shall submit semi-annual (i.e. twice annually) reports to the Control Officer, Compliance Division in accordance with the following: *[AQR 12.1.4.1(d)(3)(A)]*
 - a. reports shall be based on the preceding semi-annual calendar period, which includes partial periods;
 - b. reports shall be submitted within 30 calendar days after the semi-annual calendar period (i.e. July 30 or January 30), even if there was no activity.
 - c. reports shall include a summary of each recorded item listed in Section IV-E-2 of this document that is noted for semi-annual reporting purposes.
8. The Permittee shall report to the Control Officer (4701 West Russell Road, Suite 200, Las Vegas, Nevada 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.
9. The Permittee shall report deviations from permit requirements that do not result in excess emissions, including those attributable to upset conditions as defined in the permit, with the annual report. Such reports shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. *[AQR 12.1.4.1(d)(3)(B)]*
10. Any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this section, 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 12.1.4.1(m)(3)]*

D. RECORD KEEPING REQUIREMENTS

1. All records, logs, etc. shall be made available to the Control Officer during regular business hours. [AQR 12.1.4.1(m)(2)(A)]
2. All records, logs, etc., or a copy thereof, shall be kept on site for a minimum of 5 years from the date the measurement, or data was entered. [AQR 12.1.4.1(d)(2)(B)]
3. Records and data required by this permit to be maintained by Permittee may be audited at any time by a third party selected by the Control Officer. [AQR 4.4]

E. PORTABLE SOURCE REQUIREMENTS

1. The Permittee shall not operate the equipment listed in Table IV-A-1, under the authority of this Portable Minor Source Permit, at more than one location at a time. [AQR 12.1.1(d); AQR 12.1.3.1]
2. The Permittee shall not operate the equipment listed in Table IV-A-1 in combination with other equipment permitted through a separate Minor Source Permit or Portable Minor Source permit. Such work requires, before commencement of operations, a new permit or permit revision so one comprehensive permit includes all emission units. [AQR 12.1.1(d); AQR 12.1.3.1]
3. The Permittee shall provide prior written notice of any change in location where the source will operate as authorized by this permit, and may implement the change seven (7) days after the date of receipt of the written notice by the Control Officer. The notice shall be submitted to the Control Officer on the form entitled Portable Source Permit Move Notice. No change in location shall proceed if the Control Officer objects within the seven (7) day waiting period. [AQR 12.1.6(d)]
4. The Permittee shall provide written notice of any proposed location that is within 1,000 feet of the outer boundary of a school, hospital or residential area. The notice shall be provided to the Control Officer for the purpose of initiating a public participation process, consistent with AQR 12.1.5.3(a)(2), prior to moving to that location. The notice shall be submitted to the Control Officer on either the Portable Source Permit Move Notice submitted for that location, or on the Prior Notification Form. **Moving to that location shall not proceed until all comments from the thirty (30) day Notice of Proposed Action, if any, are addressed.** [AQR 12.1.6(d)]
5. The Permittee shall provide prior written notice of any operational period at a specific location that exceeds two (2) years duration. The notice shall be provided to the Control Officer no less than seven (7) days prior to exceeding such timeframe. The notice shall be submitted to the Control Officer on either the Portable Source Permit Move Notice submitted for that location, or subsequently on the Prior Notification Form. Extending the operational period at a specific location to greater than two (2) years shall not proceed if the Control Officer objects within the seven (7) day waiting period. [AQR 12.1.4.1(f); AQR 12.1.6(d)]

III. SOURCE-WIDE PTE SUMMARY

A. The source is a synthetic minor source of PM₁₀, NO_x, and CO and a minor source of PM_{2.5}, SO₂ and VOC.

Table III-A-1: Source PTE (tons per year)

Pollutant	PM ₁₀	PM _{2.5}	NO _x	CO	SO ₂	VOC	H ₂ S	Pb
Source PTE (excluding Fugitives)	68.05	4.01	64.76	40.38	1.23	8.76	0	0
Fugitive PTE	14.00	0	0	0	0	0	0	0
Total Source PTE	82.05	4.01	64.76	40.38	1.23	8.76	0	0

IV. EMISSION UNITS AND APPLICABLE REQUIREMENTS

A. EMISSION UNITS AND LIMITS

1. Emission Units

a. The stationary source is defined to consist of the emission units listed in Table IV-A-1. [AQR 12.1.4.1(b)]

Table IV-A-1: Summary of Emission Units

EU	Description	Capacity/Rating ¹	Make	Model No.	Serial No.
Aggregate Plant					
A01	Chain Feeder				
A02	Jaw Crusher	≤600 tons/hr	TBD	TBD	TBD
A03	Screen 1	800 tons/hr	JCI	3620	PO60327/ S061718
A10	Vibrating (Buzzer) Screen	600 tons/hr	Lippman	6224	1967-1654- 1980
A06	Twin Screen	≤500 tons/hr	TBD	TBD	TBD
A08	K400 Cone Crusher (Recirculation)	300 tons/hr	JCI	K400	CP-183- 614031
A07	Conveyor System (2 Belts – Recirculation)				
A09	Conveyor System (3 Belts)				
A11	Conveyor/Stacker System (2 Belts/1 Stacker)				
A12	Conveyor/Stacker System (4 Belts/1 Stacker)				
A13	Conveyor/Stacker System (3 Belts/1 Stacker)				

EU	Description	Capacity/Rating ¹	Make	Model No.	Serial No.
A16	Conveyor/Stacker System (2 Belts/1 Stacker)				
A17	Conveyor/Stacker System (3 Belts/1 Stacker)				
Wash Plant					
A18	Wash Plant Feed Hopper with Belt Conveyor				
A19	Wash Plant with Associated Conveyor/Stacker Transfers (All Wet Processes)	500 TPH			WP-86-613023
Miscellaneous Emission Units					
B01	Disturbed Surfaces/Stockpiles	15.0 Acres			
B02	Unpaved Haul Road	0.5 miles R.T.			
Continuous Duty Generators					
C01	Genset – Continuous Duty	725 kW	Caterpillar	C27	SCT00733
	Engine – Diesel; DOM: 2012	1,207 HP			
C02	Rental Genset – Continuous Duty	Various	Caterpillar	Various	Various
	Engine – Diesel; DOM: 2011 or Later	1,207 HP			
C03	Genset – Continuous Duty (HMA Plant)	945 kW	Caterpillar	SR4B	G5B00079
	Engine – Diesel; DOM: 2005	1,341 HP			
C04	Genset – Continuous Duty (HMA Plant)	ND ²	Marathon Electric	362PSL1606	MX200793
	Engine – Diesel; DOM: 2014	90 HP			
C05	Genset – Continuous Duty (Rubberized Asphalt Plant)	385 kW	Caterpillar	LC6	TBD
	Engine – Diesel; DOM: April 2006	500 HP			
Hot Mix Asphalt Plant					
D01	4-Bin Feeder with Underbelts	400 TPH	CMI	PAB432	188
D02	Conveyor Belt				
D03	2-Bin Feeder with Underbelts	400 TPH	CMI	CFB220	896214
D04	Conveyor Belt				
D05	Scalping Screen with Belt	400 TPH	CMI	SC-3030	114
D06	Lime Silo with Enclosed Screw Conveyor	75 TPH	75T		20740-97
D07	Pugmill with Belt	400 TPH	Davis	500-B	1220-500B
D08	2-Bin RAP Feeder with Underbelts	400 TPH	GSS	TWN 16 YD	6-30-2483-60832
D09	Conveyor Belt				
D10	RAP Screen with Belt	400 TPH	GSS	1410 BZR	P-410-116-60347
D11	Drum Dryer, Diesel-Fired	400 TPH	CMI	PTD-400 (Drum)	132 (Drum)
				RA-4186 (Plant)	120 (Plant)
D12	Asphalt Elevator				
D13	Storage Silo		CMI	MPS-700P4	150
D14	Asphaltic Cement Heated Tank, Diesel-Fired	25,000 gallons	CEI	1500A	H119296

EU	Description	Capacity/Rating ¹	Make	Model No.	Serial No.
		1.84 MMBtu/hr			
Rubberized Asphalt Plant					
D15	Hot Oil Heated Tank, Diesel-Fired	35,000 gallons	Heatec	HCS-250	H04-113/C04-048
		3.00 MMBtu/hr			
D16	Rubber Crumb Feed Hopper				
D17	Mixer (Enclosed)				
D18	Dual Compartment Split Blend Tank (Enclosed)	50 tons/compartment			

¹Where specific manufacturer rated capacities has not been provided, the installed equipment cannot exceed the values shown.

²No Data is available regarding the maximum electrical output rating of this genset (EU: C04).

- b. The following units or activities are present at this source, but are insignificant activities pursuant to AQR. The emissions from these units or activities, when added to the PTE of the source presented in Table III-A-1, will not make the source major for any pollutant.

Table IV-A-2: Insignificant Activities

IU Number	Description
Diesel Fuel Storage	
IU01	Diesel Fuel AST, 10,000 gallon capacity
IU02	Diesel Fuel AST, 15,000 gallon capacity
IU03	Diesel Fuel AST, 15,000 gallon capacity

2. Emission Limitations

- a. The Permittee shall not discharge into the atmosphere, from any emission unit, 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 and AQR 12.1.4.1(c)]
- b. The Permittee shall not exhibit fugitive emissions with an average opacity in excess of 7 percent, based on the average of five 6-minute averages, from screens, and transfer points on belt conveyors (except transfers to stockpiles) that commenced construction, modification or reconstruction after April 22, 2008 (EUs: A03, A06, A07, A09 through A13, A16, A17, and A18). [40 CFR 60.672]
- c. The Permittee shall not exhibit fugitive emissions with an average opacity in excess of 12 percent, based on the average of five 6-minute averages, from crushers that commenced construction, modification or reconstruction after April 22, 2008 (EUs: A02 and A08). [40 CFR 60.672]
- d. The Permittee shall not exhibit visible emissions from units specified in this document as a wet process (EU: A19). [40 CFR 60.672 and AQR 12.1.4.1(c)]
- e. The Permittee shall not exhibit visible emissions from units specified in this document as an enclosed process (EU: D06, D17, and D18). [AQR 12.1.4.1(c)]
- f. The Permittee shall comply with the emission standards set forth in Table 7 of 40 CFR 1039.102 and 1039.115 for new and in-use nonroad compression ignition

engines for the same model year and maximum engine power (EUs: C01 and C02). The emission standards are provided in Table IV-A-3: [40 CFR Part 60, Subpart III]

Table IV-A-3: Emission Standards for Generators (EUs: C01 and C02)

Max. Engine Power	PM (g/kW-hr)	NO _x (g/kW-hr)	NMHC (g/kW-hr)	CO (g/kW-hr)
560 ≤ kW < 900 (750 ≤ HP < 1,207)	0.10	3.5	0.40	3.5

- g. The Permittee shall comply with the emission standards set forth in 40 CFR 89.112 for new nonroad CI engines with a displacement of <10 liters per cylinder for the same model year and maximum engine power (EU: C03). The emission standards are provided in Table IV-A-4: [40 CFR Part 89]

Table IV-A-4: Emission Standards for Generator (EU: C03)

Max. Engine Power	PM (g/kW-hr)	NO _x (g/kW-hr)	HC (g/kW-hr)	CO (g/kW-hr)
560 ≤ kW (750 ≤ HP)	0.54	9.2	1.3	11.4

- h. The Permittee shall comply with the emission standards set forth in Table 4 of 40 CFR 1039.102 and 1039.115 for new and in-use nonroad compression ignition engines for the same model year and maximum engine power (EU: C04). The emission standards are provided in Table IV-A-5: [40 CFR 60 Part 1039]

Table IV-A-5: Emission Standards for Generator (EU: C04)

Max. Engine Power	PM (g/kW-hr)	NO _x (g/kW-hr)	NMHC (g/kW-hr)	CO (g/kW-hr)
56 ≤ kW < 75 (75 ≤ HP < 100)	0.02	0.40	0.19	5.0

- k. The Permittee shall comply with the emission standards set forth in 40 CFR 89.112 for new nonroad CI engines with a displacement of <10 liters per cylinder for the same model year and maximum engine power (EU: C05). The emission standards are provided in Table IV-A-6: [40 CFR Part 89]

Table IV-A-6: Emission Standards for Generator (EU: C05)

Max. Engine Power	NMHC + NO _x (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
225 ≤ kW < 450 (300 ≤ HP < 600)	4.0	3.5	0.20

- l. The Permittee shall not discharge into the atmosphere, from any emission unit or stack, any air contaminant in excess of an average of 20 percent opacity for a period of more than 6 consecutive minutes (EUs: D01 through D13). [40 CFR Part 60 Subpart I, AQR 26.1.1 and AQR 12.1.4.1(c)]
- m. The Permittee shall not allow the discharge of emissions into the atmosphere from any stack (EU: D11) which contains particulate matter in excess of 90 mg/dscm (0.04 g/dscf). [40 CFR Part 60, Subpart I]

3. Operational Limitations

- a. The Permittee shall limit the throughput of material of the aggregate plant (EUs: A01 through A03, A06 through A13, A16, and A17) to 1,800,000 tons per any consecutive 12 months. [AQR 12.1.7 (VAEL)]
- b. The Permittee shall limit the throughput of material to the wash plant (EU: A18 and A19) to 900,000 tons per any consecutive 12 months. [AQR 12.1.7 (VAEL)]
- c. The Permittee shall limit the total stockpile area (EU: B01) to 15.0 acres at any given time. [AQR 12.1.4.1(c)&(f)]
- d. The Permittee shall limit the Vehicle Miles Traveled on the unpaved haul road (EU: B02) to 25,000 miles per any consecutive 12 months. [AQR 12.1.4.1(c)&(f)]
- e. The Permittee shall limit the hours of operation of the generator set (EU: C01) to 4,200 hours per any consecutive 12 months. [AQR 12.1.7 (VAEL)]
- f. The Permittee shall limit the hours of operation of the rental generator set (EU: C02) to 4,200 hours per any consecutive 12 months. [AQR 12.1.7 (VAEL)]
- g. The Permittee shall limit the hours of operation of the generator set (EU: C03) to 2,000 hours per any consecutive 12 months. [AQR 12.1.7 (VAEL)]
- h. The Permittee shall limit the hours of operation of the generator set (EU: C05) to 1,000 hours per any consecutive 12 months. [AQR 12.1.7 (VAEL)]
- i. The Permittee shall not operate the generator set (EU: C03) at a location for more than 12 consecutive months. [AQR 12.1.4.1(c)&(f)]
- j. The Permittee shall not operate the generator set (EU: C04) at a location for more than 12 consecutive months. [AQR 12.1.4.1(c)&(f)]
- k. The Permittee shall not operate the generator set (EU: C05) at a location for more than 12 consecutive months. [AQR 12.1.4.1(c)&(f)]
- l. The Permittee shall limit the total asphalt production of the asphalt plant (EUs: D01 through D18) to 200,000 tons per any consecutive 12 months. [AQR 12.1.7 (VAEL)]

B. CONTROL REQUIREMENTS

Aggregate Plant, Wash Plant, Disturbed Surfaces/Stockpiles, and Cold Aggregate Handling in the Asphalt Plant [AQR 12.1.4.1(c)&(f)]

1. The Permittee shall incorporate, and maintain in good operating condition at all times, an effective water suppression system to control visible emissions within allowable opacity limits for the following EUs: A01 through A03, A06 through A13, A16, A17, A18, A19, B01, D01 through D05, and D07 through D10.

Haul Roads [AQR 12.1.4.1(c)&(f)]

2. The Permittee shall treat unpaved roads located on the stationary source to control visible emissions within the allowable opacity limits. Treatment shall consist of

watering, chemical or organic dust suppression, paving, gravelling, or equivalent control measures (EU: B02).

Generators/Engines [AQR 12.1.4.1(c)&(f)]

3. The Permittee shall operate the engine powering each generator set with a turbocharger and an aftercooler (EUs: C01 through C05).
4. The Permittee shall operate and maintain each of the generators in accordance with the manufacturer's specifications (EUs: C01 through C05).

Asphalt Plant [AQR 12.1.4.1(c)&(f)]

5. The Permittee shall utilize a binvent(s) with filtration on the lime silo (EU: D06) to control particulate emissions at all times the process equipment is operating.
6. The Permittee shall combust only diesel fuel in the drum dryer and in each asphaltic cement/oil heated tank (EU: D11, D14, and D15).
7. The Permittee shall direct particulate emissions from the drum dryer to a baghouse at all times the processing equipment is operating (EU: D11).
8. The Permittee shall maintain and operate the baghouse on the drum dryer to effectively control particulate emissions at all times the processing equipment is operating (EU: D11).
9. The Permittee shall maintain the pressure drop across the baghouse within the range of 1.0 and 8.0 inches of water column at all times the process equipment is operating, excluding start up and shut down (EU: D11).
10. The Permittee shall operate each asphaltic cement/oil heated tank in accordance with the manufacturer's specifications (EUs: D14 and D15).
11. The Permittee shall enclose the rubberized asphalt mixer and split blend tank to control all fugitive emissions (EUs: D17 and D18).

General

12. The Permittee shall not cause, suffer or allow the discharge from any source whatsoever such quantities of air contaminants or other material which cause a nuisance, including excessive odors. [AQR 40 and AQR 43]
13. The Permittee shall operate emissions control devices for individual emission units as indicated in Table IV-B-1, and in accordance with the control requirements listed in this permit.

Table IV-B-1: Summary of Add-On Control Devices

EU	Device Type	Pollutant
D11	Baghouse	PM ₁₀

C. MONITORING

Visible Emissions [AQR 12.1.4.1(d)]

1. The Permittee shall conduct a daily visual emissions check for visible emissions from the facility while it is in operation. [AQR 12.1.4.1(d)]
2. 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 observation was made, the location, and the results of the observation. [AQR 12.1.4.1(d)]
3. If the Permittee sees a plume that, on an instantaneous basis, appears to exceed the opacity standard, the Permittee shall: [AQR 12.1.4.1(d)]
 - a. take immediate action to correct causes of fugitive/stack 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.
4. 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. [AQR 12.1.4.1(d)]

Aggregate Plant, Wash Plant, Disturbed Surfaces/Stockpiles, Haul Road, and Cold Aggregate Handling in the Asphalt Plant [AQR 12.1.4.1(d)]

5. The Permittee shall visually inspect the water spray system daily at all emission units controlled through water suppression, and monitor its effectiveness. Inspections shall include, but not be limited to, flow rates, leaks and nozzle conditions, as applicable. The Permittee shall either replace ineffective spray nozzles immediately, or shut-down the subject processing equipment until such time repairs can be completed to the water spray suppression system (EUs: A01 through A03, A06 through A13, A16, A17, A18, A19, B01, B02, D01 through D05, and D07 through D10).
6. The Permittee shall monitor the throughput of all mineral products processed in the aggregate plant in tonnage and calculate, on a monthly basis, the throughput as a consecutive 12-months total (EUs: A01 through A03, A06 through A13, A16, and A17).
7. The Permittee shall monitor the throughput of all mineral products processed in the wash plant in tonnage and calculate, on a monthly basis, the throughput as a consecutive 12-months total (EU: A18 and A19).
8. The Permittee shall monitor the total area of disturbed surfaces/stockpiles at each location (EU: B01).
9. The Permittee shall monitor the number of vehicle miles traveled onsite by haul trucks entering and leaving, on a monthly basis, as a consecutive 12-months total (EU: B02).

Generators/Engines [AQR 12.1.4.1(d)]

10. The Permittee shall operate the engine powering each generator set with a nonresettable hour meter, monitor the hours of operation of each generator, and calculate, on a monthly basis, the hours of operation of each generator as a consecutive 12-months total (EUs: C01, C02, C03, and C05).

Asphalt Plant [AQR 12.1.4.1(d)]

11. The Permittee shall monitor the total amount of asphalt produced by the asphalt plant in tonnage (EUs: D01 through D18), and calculate, on a monthly basis, the production as a consecutive 12 month total.
12. The Permittee shall conduct daily visual observations of baghouse, binvent, and/or stack discharges to verify that visible emissions are not present in excess of allowable opacity limits. If they are, the Permittee shall cease operations producing the emissions until the problem is corrected (EUs: D06 and D11).
13. The Permittee shall visually inspect the baghouse interior and binvent(s) at least monthly for air leaks. Defective components shall be repaired or replaced within 5 working days of the discovery of the malfunction. Should the malfunction cause the baghouse and/or binvent(s) to be ineffective in controlling particulate emissions, the processing of material shall cease until such repairs to the baghouse and/or binvent(s) are completed (EUs: D06 and D11).
14. The Permittee shall develop and follow a preventative maintenance schedule that is consistent with the binvent manufacturer's specifications for routine and long-term maintenance (EU: D06).
15. The Permittee shall conduct daily monitoring of the pressure drop across each baghouse cell with the installation and operation of a pressure differential (Magnehelic) gauge per manufacturer's specifications (EU: D11).
16. The Permittee shall have a standard operating procedures (SOP) manual for the baghouse. The procedures specified in the manual for maintenance shall, at a minimum, include a preventative maintenance schedule that is consistent with the baghouse manufacturer's instructions for routine and long-term maintenance (EU: D11).

D. TESTING

Mineral Processing and Asphalt Plant [AQR 12.1.4.1(d)&(m)]

3. The Permittee shall demonstrate compliance with the particulate matter concentration and opacity standards in Section IV-A-2 of this permit in accordance with 40 CFR 60 Subpart A; 40 CFR 60, Subpart I; 40 CFR 60, Subpart OOO; 40 CFR 60 Reference Method 5 (Particulate Matter); and 40 CFR 60 Reference Method 9 (Standards for Opacity) according to the following conditions: [AQR 12.1.4.1(m)(1)]
 - a. Initial performance tests on affected emission units shall be conducted within 60 days after achieving the maximum production rate at which the source will be operated but no later than 180 days after initial start-up (EUs: A02, A06, and A18).

- b. Subsequent Method 9 performance testing shall be conducted upon written notification from the Control Officer (EUs: A02, A03, A06 through A13, A16, A17, A18, and D01 through D13). [AQR 4.5]
 - c. Subsequent Method 5 performance tests shall be conducted once every five years, within 90 days of the anniversary date of the last performance test (EU: D11). [Air Quality Guideline for Source Testing]
4. The Permittee shall utilize performance testing methodologies for individual emission units as indicated in Table IV-D-1. The Control Officer will consider approving a request for alternative performance test methods if proposed in writing in the performance test protocols: [AQR 12.1.4.1(d)(2)(B)]

Table IV-D-1: Performance Testing Protocol Requirements

EU	Test Point	Pollutant	Method	Frequency
A02, A06, and A18	Aggregate Plant and Wash Plant	Visible Emissions	EPA Method 9	Initial
D11	Baghouse Stack	PM	EPA Method 5	5 years

General [AQR 12.1.4.1(d)&(m)]

- 5. Performance testing is subject to 40 CFR 60 (as amended), and Air Quality Guideline for Source Testing (as amended). Performance testing shall be the instrument for determining initial and subsequent compliance with emission limitations set forth in this permit. [AQR 12.1.4.1(m)(1)]
- 6. The Permittee shall submit for approval a performance testing protocol which contains test, reporting, and notification schedules, test protocols, and anticipated test dates to the Control Officer at least 45 days prior to the anticipated test date but not more than 90 days prior to the anticipated test date. [AQR 12.1.4.1(m)(1)]
- 7. The Control Officer will consider approving the Permittee's request for alternative performance test methods if proposed in writing in the performance test protocols. [AQR 12.1.4.1(m)(1)]
- 8. A report describing the results of the performance test shall be submitted to the Control Officer, Compliance Division within 60 days from the end of the performance test. [AQR 12.1.4.1(m)(1)]
- 9. The Permittee of any stationary source or emission unit(s) that fails to demonstrate compliance with the emissions standard or limitations during any subsequent performance test shall submit a compliance plan to the Control Officer, Compliance Division, within 90 days from the end of the performance test. [AQR 10.1]
- 10. Additional performance testing may be required by the Control Officer. [AQR 4.5 and 12.1.4.1(m)(1)]

E. RECORD KEEPING

- 1. The Permittee shall maintain onsite the following records: [AQR 12.1.4.1(d)(2)]

- a. dates and time when visible emissions checks and observations are taken and the steps taken to make any necessary corrections to bring opacity into compliance;
 - b. daily production of materials processed in the aggregate plant (EUs: A01 through A03, A06 through A13, A16, and A17);
 - c. daily production of materials processed in the wash plant (EU: A18 and A19);
 - d. daily production of asphalt by the asphalt plant (EUs: D01 through D18);
 - e. equipment and or control device inspections, maintenance and repair;
 - f. manufacturer specification sheets for the generator sets (EUs: C01 through C05), binvent (EU: D06), baghouse (EU: D11), and asphaltic cement/oil heated tanks (EUs: D14 and D15);
 - g. preventative maintenance schedule for the binvent (EU: D06);
 - h. SOP manual for the baghouse (EU: D11);
 - i. pressure drop readings for the baghouse (EU: D11);
 - j. length of the on-site haul road(s); and
 - k. performance test results, (reported as required in Section IV-D).
2. The Permittee shall maintain onsite the following records for reporting: *[AQR12.1.4.1(d)(2)&(3)]*
- a. location specific, but no less than monthly, total 12-month material throughput of the aggregate plant (EU: A01 through A03, A06 through A13, A16, and A17) (reported semi-annually);
 - b. location specific, but no less than monthly, total 12-month material throughput of the wash plant (EU: A18 and A19) (reported semi-annually);
 - c. location specific, but no less than monthly, total 12-month vehicle miles traveled by haul trucks on the unpaved haul road (EU: B02) (reported semi-annually);
 - d. location specific, but no less than monthly, total 12-month hours of operation of each generator set with an operational limitation (EUs: C01, C02, C03 and C05) (reported semi-annually);
 - e. dates that the generator set is brought to and from the source site (EU: C03);
 - f. dates that the generator set is brought to and from the source site (EU: C04);
 - g. dates that the generator set is brought to and from the source site (EU: C05);
 - h. location specific, but no less than monthly, total 12-month asphalt production by the asphalt plant (EUs: D01 through D18) (reported semi-annually);
 - i. location changes with start and end date;
 - j. deviations from permit requirements that result in excess emissions (reported as required in Section II-C of this permit);

- k. deviations from permit requirements that do not result in excess emissions (reported semi-annually); and
- l. annual emissions calculated for each emission unit and the entire source (reported annually).

F. REQUIREMENTS PERTAINING TO AREAS OF NATURALLY OCCURRING ASBESTOS (NOA)

1. The following conditions shall apply to the source when located at a site, or processing materials obtained from a location, that has been designated as containing Natural Occurring Asbestos (NOA):
 - a. The Permittee shall comply with all terms and conditions contained in the Natural Occurring Asbestos Management Plan for controlling fugitive dust emissions.
 - b. The Permittee shall limit visible dust emissions within the designated right-of-way to not exceed the following opacity limitations:
 - i. from any emission unit – an average of 20 percent opacity for a period of more than 6 consecutive minutes; *[AQR 26.1.1 and AQR 12.1.4.1(c)]*
 - ii. from screens, conveyors and transfer points that commenced construction, modification or reconstruction after April 22, 2008 (EUs: A03, A06, A07, A09 through A13, A16, A17, and A18) – an average of 7 percent opacity for a period of more than 6 consecutive minutes; and *[40 CFR 60.672 and AQR 12.1.4.1(c)]*
 - iii. from crushers (EUs: A02 and A08) – an average of 12 percent opacity for a period of more than 6 consecutive minutes. *[40 CFR 60.672 and AQR 12.1.4.1(c)]*
 - c. The Permittee shall ensure no visible emissions leave the property line or outer boundary of the designated work area. *[AQR 12.1.4.1(c)]*
 - d. The Permittee shall install trackout control device(s) if trackout is observed on paved surfaces at any egress point. The trackout device shall consist of a wheel washer or alternative control as approved by the Control Officer. *[AQR 12.1.4.1(c)]*
 - e. The Permittee shall ensure that sufficient water spray suppression systems are installed and operated on all crushing, screening, and conveying equipment to comply with the allowable opacity limits referenced in subsection IV-F-1(b). *[AQR 12.1.4.1(c)]*
 - f. The Permittee shall limit the height of the stockpile areas to a height that allows sufficient watering of the stockpiled materials. *[AQR 12.1.4.1(c)&(f)]*
 - g. The Permittee shall ensure all stockpiles are in a stable condition to prevent fugitive dust from blowing from the stockpiles. The stockpiles shall be wetted to create a crust or a dust palliative shall be applied for long term control of fugitive dust emissions (EU: B01).
 - h. The Permittee shall maintain onsite the following records: *[AQR 12.1.4.1(d)(2)]*

- i. maintenance performed on water suppression systems; and
- ii. purchase records of dust palliative (if applicable).

PROPOSED