### Southwest Clean Air Agency

5101 NE 82nd Ave., Ste. 102, Vancouver, WA 98662 Phone: (360) 574-3058

#### AIR DISCHARGE PERMIT ATTACHMENT

**Authority Use Only** 

### MOBILE AND STATIONARY SAND & GRAVEL AND CRUSHED STONE PLANTS PARTICULATE EMISSION AND REVIEW FEE WORKSHEET

Application Fee + Review Fee \_\_\_\_\_ = \$ \_\_\_\_ (to be submitted with application)<sup>1</sup>

Business Name:			Phone:	Date:		
Business Address:	Street	City	County	State	Zip	
Equipment Address:						
	Street	City	County	State	Zip	

Plant ID:

EMISSION POINTS AND ACTIVITIES	ESTIMATED THROUGHPUT (TPY)	PM EMISSION FACTOR (LB/TON)	NUMBER OF UNITS/POINTS/MILES	UNCONTROLLED PM EMISSIONS (TPY)	SUPPRESSION <sup>2</sup> EFFICIENCY (1-η <sub>c</sub> )	CONTROLLED PM EMISSIONS (TPY)
EQUIPMENT (Output Aggregate Size)	A	В	С	(A*B*C/2000)=D	Е	D*E=F
Primary Crushing (3" - 12")		0.0007 <sup>3</sup>			0.2	
Secondary Crushing (1" - 4")		0.006 3			0.2	
Tertiary Crushing (3/16" - 1")		0.006 3			0.2	
Screening		0.011 3			0.2	
Loading/Conveying/Piling (Per Transfer Point)		0.0007 3			0.2	
Hauling (miles)	N/A	6.2 lb/mile <sup>4</sup>	miles		0.2	
Blasting		0.0015 5			1.0	
TOTALS	N/A	N/A	N/A		N/A	

Notes on back

Pit Name:

TPY = Tons Per Year

LB = Pounds

TSP = Total Suspended Particulates (TSP = PM)

PM = Particulate Matter

**Type of Plant:** 

 $PM_{10} = Particulate Matter \le 10 \mu m diameter$ 

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☐ Stationary

**Authority Use Only** 

Date Fee Paid:

SWCAA ID #: \_\_\_\_\_

☐ Mobile

1 -	Submit application and fees by check or money order payable to: Southwest Clean Air Agency, 11815 NE 99th Street, Suite 1294, Vancouver, WA 98682. Fees to be submitted consist of
	an Application Fee of \$500 plus a Review Fee based on SWCAA Regulation 400-110 (1)(d)(x).

- 2 Efficiency shown is for wet suppression techniques. Adjust if using different techniques. Typical control efficiencies for fabric filter, 99 %; wet spray systems, 70 90 % (80% avg.).
- 3 Reference EPA AP-42 Table 11.19.2-2. Emission factors for PM were obtained by multiplying PM<sub>10</sub> by 2.1.
- 4 Reference FIRE Version 5.0 Source Classification Codes and Emission Factor Listing for Criteria Air Pollutants, EPA 454/R-95-012, August 1995, Page EF-67, SCC 3-05-020-11.
- 5 Reference EPA AP-42, Table 11.9-1. Calculation assumes blast area of 17,000 ft², blast depth of 20 ft, and average material density of 3,240 lb/yd³.

  Explain below where proposed installation is different than allowed for with the emission estimate.

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#### MOBILE AND STATIONARY SAND & GRAVEL AND CRUSHED STONE PLANTS PRODUCTION EQUIPMENT WORKSHEET

<b>Business Name</b>	:			Γ	Date:		_ Phone	e:
Contact Name	/ Title:						Fa	nx:
Production For	r This Job:	(to	ons total)					
Maximum Ann	nual Production:		(tons/year)					
	rating Schedule:pmdays p	er week	weeks per	year	total hours	per year		
	erating Schedule:							
am to	pm days p	er week	weeks per	year	total hours	per year		
PRODUCT INFORMA NAME / TY	ATION (e.g. pea grave	l, oil rock, rip-ra	p, ½, _, _, 1½, 3"-0, TONS/YEAR		MOISTURE CON	ГЕПТ	ORIGIN	(e.g. stream bed, dry pit, wet pit, etc.)
								(3 , 71 , 1 , )
				<del></del>				
				<del></del>				
				<del></del>				
				<del></del>				
		<del></del>		<del></del>				
EQUIPMENT INFOR	PMATION							
	Type/Configuration	Manufac	turer / Model #	Serial #		Date of 1	Mfg.	Capacity (tph)/Size
Primary Crusher								
Screen / Grade								
Secondary Crusher			<del> </del>					
Screen / Grade								
Tertiary Crusher			· · · · · · · · · · · · · · · · · · ·					
Screen / Grade			· · · · · · · · · · · · · · · · · · ·					
Quaternary Crusher _								
Screen / Grade								
Additional Crusher _								
Additional Crusher								
_								

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#### AIR DISCHARGE PERMIT ATTACHMENT

#### MOBILE AND STATIONARY SAND & GRAVEL AND CRUSHED STONE **PLANTS**

#### CONTROL EQUIPMENT WORKSHEET

			Date:			Phone:	
MISSION CONTROL EQUIPMENT							
'ype of Control Equipment:							
☐ Baghouse (provide detailed information on baghouse worksheet)							
Manufacturer: Mo	del #:		Size	:		Serial #:	
Scrubber (provide detailed information on scrubber worksheet)							
Manufacturer: Mo	del #:		Size	:		Serial #:	
☐ Wet Suppression (minimum water pressure to all points of application is 80 psig :							
Control Points: (e.g. exit of jaw, exit of roll, end of conveyor, roadway, etc ide		ıt sketch by	number)				
1.	, , ,		,	□ Nozzle(s)	□ Other	r	
2.			☐ Spray Bar	□ Nozzle(s)	☐ Other	r	
3.		□ Fog	☐ Spray Bar	□ Nozzle(s)	☐ Other	r	
4		☐ Fog	☐ Spray Bar	☐ Nozzle(s)	☐ Other	r	
5		☐ Fog	☐ Spray Bar	☐ Nozzle(s)	☐ Other	r	
6		☐ Fog	☐ Spray Bar	☐ Nozzle(s)	☐ Other	r	
7		☐ Fog	☐ Spray Bar	□ Nozzle(s)	☐ Other	r	
8		☐ Fog	☐ Spray Bar	□ Nozzle(s)	☐ Other	r	
9			☐ Spray Bar	☐ Nozzle(s)	☐ Other	r	
10						r	
Mfg. of Fogger:			Model: _			Flowrate:	(gpm)
Mfg. of Spray Bar:			Model: _			Flowrate:	(gpm)
Mfg. of Nozzle:			Model: _			Flowrate:	(gpm)
Mfg. of Other:			Model:			Flowrate:	(gpm)
Mfg. of Pump:	Mod	lel:		Size: (ht	o) Capac	ity:(gpm) &	nt 80 (psig)
(replaceable screen/filter with fine mesh to be installed down state (pressure gauges to be installed in water supply line at accessibn Source of Water:  Other (describe below)	ole points to verify	80 psig min	imum at spray no	zzles)			
Canacity of Water Truck	(gal)	Pron	osed Fred	mency.		(# time	es ner dav)
Capacity of Water Truck:  Alternate Dust Suppression Method / Material	(gal)	Prop	osed Freq	luency:		(# time	es per day)