Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Page 1 of 70

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 2 of 70

Disconnection Liquid Leaks	Organic Compounds	Type of Limit	
CARB EO G-70-116-F, paragraph 12	BAAQMD 8-7-301.13	Emission Limit Citation	
10 ml per disconnect, averaged over 3 disconnect operations	1.0 ml per nozzle per test or the quantity specified in CARB Certification Procedure CP-201, whichever is less	Emission Limit	
CARB EO G-70-116-F, paragraph 19 and (effective 6/1/03) BAAQMD 8-7-301.13 and 8- 7-407	BAAQMD 8-7-301.13 and 8-7-407	Monitoring Monitoring Requirement Frequency Citation (P/C/N)	S-1 G/
P/A	P/A	Monitoring Frequency (P/C/N)	Tab SOLINE DI
Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System	Monitoring Type	Table - A S-1 Gasoline Dispensing Station
		Affected Source	ATION
NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)	
		Actual Excess	:
		Comments (causes, corrective actions, etc.)	

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 3 of 70

Table - B S-17 Clinker Transfer Area abated by A-436 Dust Collector (6-DC-49)

					# 20751, part 3b		3	
REPORT			monitoring		BAAQMD cond	ottoro Bridger	16109, part	1 1110
NONE TO		•	Pressure drop	B O	# 16109, part 2	0 006 or/deef	cond#	PMIO
					BAAQMD cond		BAAQMD	
REPORT				-	,	is process weight, ton/hr	6-311	limit
NONE TO				Z		4.10P ^{0.67} lb/hr, where P	BAAQMD	Process weight
					# 20751, part 3b			
REPORT			monitoring	Ž	BAAQMD cond	0.10 gr/daci	6-310	3
NONE TO			Pressure drop	D/Q	# 16109, part 2	0.15 m/deef	BAAQMD	DM
					BAAQMD cond			
REPORT			test (M9)	years	300.10.0(6)			
NONE TO			Periodic source	P/cvery 5	863 1349(c)		805.1540	
				appropriate			862 1348	
No.			(M22)	as	•	10%	1111	Opacity
TROGER			inspection	y, annually,	§63.1350(a) (4)		Submin	
NONE TO			Visual	semiannuall			An CEB	
				P/Monthly,				
					# 20751, part 3b		_	
REPORT			monitoring	Ž	BAAQMD cond	opacity	16109, part	Obacity
NONE TO			Pressure drop	Ö	# 16109, part 2	Ringelmann 0.5 or 10%	cond#	Operation
					BAAQMD cond		BAAQMD	
REPORT			monitoring	Ž	# 16109, part 2	Ningchilaili 1.0	6-301	Opacity
NONE TO			Pressure drop	O/d	BAAQMD cond	Dincolman 10	BAAQMD	
(Date and Time)	rce	Source	Type .	(P/C/N)	Citation		Citation	
Affected Period of Excess	ected	Affa	Monitoring	Monitoring Frequency	Monitoring Requirement	Emission Limit	Emission Limit	Type of Limit

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 4 of 70

		Ŧ
BAAQMD cond#	Emission Limit Citation	
Cement loads not to exceed 70,000	Emission Limit	S-17 CLINKE
BAAQMD cond	Monitoring Requirement Citation	R TRANSFER A
P/M	Monitoring Frequency (P/C/N)	Ts
Log/ Record	Monitoring Type	Table - B
	Affected Source	UST COLLE
NONE TO	Period of Excess (Date and Time)	Table - B S-17 CLINKER TRANSFER AREA ABATED BY A-436 DUST COLLECTOR (6-DC-49)
	Actual Excess))

(causes, corrective actions, etc.) Comments

Type of Limit

Note: (M#) means 'EPA Test Method #'.

Throughput

16109, part

trucks/year

16109, part 6

keeping

REPORT

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 5 of 70

PM 6-310 BAAQMD cond # 18475, part 2 & Pressure drop BAAQMD cond # 20751, part 3b	Opacity Subpart 10% §63.1350(a) (4) semiannuall Visual semiannually, inspection as (M22) LLL \$63.1348 \$63.1349(c) \$9/every 5 Periodic source years test (M9)	Opacity BAAQMD Cond # Ringelmann 0.5 or 10% 18475, parts 2 Opacity Pressure drop 8AAQMD cond # 18475, parts 2 BAAQMD cond # 20751, part 3b	Opacity BAAQMD cond Visual Visual 4 20753, part 1 For A-10 Visual Visual (M22)	Ringelmann I.0 # 18	Type of Limit Emission Limit Requirement Frequency Type Citation Citation (P/C/N) Monitoring Monitoring Monitoring (P/C/N)	S-19 CLINKER STORAGE AREA ABATED BY A-10 (6-DC-45-48), A-447 (6-DC-51), A-448 (6-D-54) DUST COLLECTORS
NONE TO REPORT	NONE TO REPORT NONE TO NESIIAP Test report REPORT Nov / Dec 2012	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	Affected Period of Actual Comments Source (Date and Time) Excess actions, etc.)	A-448 (6-DC-52), A-449 (6-DC-53), AND A-450 (6-DC-

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 **Page 6 of 70**

S-19 CLINKER STORAGE AREA ABATED BY A-10 (6-DC-45-48), A-447 (6-DC-51), A-448 (6-DC-52), A-449 (6-DC-53), AND A-450 (6-DC-Table - C

9-17 CLIN	AER STOR	S-19 CLINKER STORAGE AREA ABATED BY A-10 (6-DC-45-46), A-44/ (6-DC-51), A-448 (6-	8Y A-10 (0-DC	54) ĐƯỢT	54)-BUST COLLECTORS	, A-448 (0-	DC-52), A-449 ((b-DC-53),	ルC-52), A-449 (6-ルC-53), AND A-450 (6-ルC-
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		. Z			NONE TO REPORT		
Throughput	BAAQMD cond # 18475, part 1	Material stored not to exceed 1.75 million tons/year	BAAQMD cond # 18475, part 6	P/M	Log/ Record keeping		NONE TO REPORT	·	

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Major Facility Review Permit - BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date January 29, 2013 Page 7 of 70

S-48 BULK CEMENT LOADOUT TANK #1 &2 ABATED BY A-420, A-421. A-422, AND A-428 DUST COLLECTORS, S-49 BULK CEMENT LOADOUT TANK #28 ABATED BY A-423, A-424, A-427, AND A-429 DUST COLLECTORS, S-50 Bulk Cement Loadout Tank #29 abated by A-425, A-426. A-427, and A-429 Dust Collectors, S-45 WEST SILO TOP CEMENT DISTRIBUTION TOWER ABATED BY A-433 DUST COLLECTOR (7-DC-05), S-46 MIDDLE SILO TOP DISTRIBUTION TOWER ABATED BY A-434 DUST COLLECTOR (7-DC-06), S-47 EAST SILO TOP DISTRIBUTION TOWER ABATED BY A-435 DUST COLLECTOR (7-DC-07), S-54 CEMENT PACKER #1 ABATED BY A-430 DUST COLLECTOR (7-PDC-01), S-55 CEMENT PACKER #2ABATED BY A-431 DUST COLLECTOR (7-PDC-02), Table - D

			Opacity					Opacity	Opposito		Opacity	Opacity	Type of Limit
	903.1348	862 1249	111	Subnar	40 CEB		_	16109, part	cond #	BAAQMD	6-301	BAAQMD	Emission Limit Citation
			10%					opacity	Ringelmann 0.5 or 10%		Kingcinianii 1.0	Pingalmann I O	Emission Limit
300.1049(6)	863 1340(c)	ī		§63.1350(a) (4)			# 20751, part 3b	BAAQMD cond	# 16109, part 2	BAAQMD cond	# 16109, part 2	BAAQMD cond	Monitoring Requirement Citation
years	P/every 5	appropriate	as	y, annually,	semiannuall	P/Monthly,		Ž	8 /0		Ž	Ρ/O	Monitoring Frequency (P/C/N)
test (M9)	Periodic source		(M22)	inspection	Visual			monitoring	Pressure drop		monitoring .	Pressure drop	Monitoring Type
												,	Affected Source
reporting period	N/A for this			REPORT	NONE TO			REPORT	NONE TO		REPORT	NONE TO	Period of Excess (Date and Time)
													Actual Excess
Nov / Dec 2012	NESHAP Test report				-								Comments (causes, corrective actions, etc.)

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date January 29, 2013 Page 8 of 70

Table - D

S-48 BULK CEMENT LOADOUT TANK #1 &2 ABATED BY A-420, A-421. A-422, AND A-428 DUST COLLECTORS, S-50 BULK CEMENT LOADOUT TANK #29 ABATED BY A-425, A-426. A-427, AND A-429 DUST COLLECTORS, S-49 BULK CEMENT LOADOUT TANK #28 ABATED BY A-423, A-424, A-427, AND A-429 DUST COLLECTORS, S-45 WEST SILO TOP CEMENT DISTRIBUTION TOWER ABATED BY A-433 DUST COLLECTOR (7-DC-05), S-46 MIDDLE SILO-TOP DISTRIBUTION TOWER ABATED BY A-434 DUST-COLLECTOR (7-DC-06), S-47 EAST SILO TOP DISTRIBUTION TOWER ABATED BY A-435 DUST COLLECTOR (7-DC-07), S-54 CEMENT PACKER #1 ABATED BY A-430 DUST COLLECTOR (7-PDC-01), S-55 CEMENT PACKER #2ABATED BY A-431 DUST COLLECTOR (7-PDC-02),

5	16109, part	Throughput cond # Ce	BAAQMD	3	16109, part	pM10 cond #	BAAQMD	limitation 6-311 is pro	BAAQMD		6-310	BAAQMD		Type of Emission Limit Limit Citation
trucks/year	exceed 70,000	Cement loads not to			0.000 81/0301	0 006 a#/deef		is process weight, ton/hr	4.10P ^{0.67} lb/hr, where P		o. 10 gi/usci	0 15 gr/deef		Emission Limit
	# 16109, part 6	BAAQMD cond		# 20751, part 3b	BAAQMD cond	# 16109, part 2	BAAQMD cond			# 20751, part 3b	BAAQMD cond	# 16109, part 2	BAAQMD cond	Monitoring Requirement Citation
		P/M			Ž	B)		2	Z		2	B)		Monitoring Frequency (P/C/N)
	keeping	Log/ Record			monitoring	Pressure drop					monitoring	Pressure drop		Monitoring Type
														Affected Source
	REPORT	NONE TO			REPORT	NONE TO		REPORT	NONE TO		REPORT	NONE TO		Period of Excess (Date and Time)
	_	_												Actual Excess
														Comments (causes, corrective actions, etc.)

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 9 of 70

		NONE TO REPORT		Log / Record keeping	P/ID	BAAQMD cond # 6655, part 9	Cement throughput not to exceed 1.6 MM tons/yr	BAAQMD cond # 6655,	Throughput
·		NONE TO REPORT		Pressure drop	Р/Q	# 6655, part 3 BAAQMD cond BAAQMD cond # 20751, part 3b	0.006 gr/dscf	BAAQMD cond # 6655, part 4	PM10
		NONE TO REPORT			Z		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	BAAQMD 6-311	Process weight limit
		NONE TO REPORT		Pressure drop monitoring	P/Q	BAAQMD cond # 20751, part 3b	0.15 gr/dscf	BAAQMD 6-310	PM
		NONE TO REPORT		Pressure drop monitoring	P/Q	# 6655, part 2 BAAQMD cond BAAQMD cond # 20751, part 3b	Ringelmann 0.5 or 10% opacity	BAAQMD cond # 6655, part l	Opacity
NESHAP Test report		NONE TO REPORT NONE TO REPORT		Visual inspection (M22) Periodic source test (M9)	P/Monthly, semiannuall y, annually, as appropriate P/every 5 years	§63.1350(a) (4)	10%	40 CFR Subpart LLL §63.1348	Opacity
		NONE TO REPORT		Pressure drop monitoring	P/Q	# 20751, part 3b	Ringelmann I.0	BAAQMD 6-301	Opacity
Comments (causes, corrective actions, etc.)	Actual Excess	Period of Excess (Date and Time)	Affected Source	Monitoring Type	Monitoring Frequency (P/C/N)	Monitoring Requirement Citation	Emission Limit	Emission Limit Citation	Type of Limit
	7-DC-8)	r Collector (7-DC-8)	v A-58 Dusi	Table - F STEM ABATED B	Ta SFER SYST	HANICAL TRAN	Table - F S-74 Type II Mechanical transfer System abated by A-58 Dust		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 10 of 70 Lehigh Southwest Cement Company - Permanente Plant Major Facility Review Permit - BAAQMD Facility ID # A0017

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 11 of 70 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

S-113 ADDITIVE BIN TRANSFER FACILITIES ABATED BY A-113 (1-DC-3) AND A-114 (1-DC-4) DUST COLLECTORS, S-115 ADDITIVE STORAGE ABATED BY A-115 (1-DC-5) DUST COLLECTOR	S-111 RAIL UNLOADING SYSTEM ABATED BY A-111 DUST COLLECTOR (1-DC-1), S-112 ADDITIVE HOPPER TRANSFER SYSTEM ABATED BY A-112 DUST COLLECTOR (1-DC-2),	Table – G
--	---	-----------

							art D tons/year	٦	
		REPORT		Record keeping	D	# 2786 part D	to exceed 1.6 million	cond # 2786	Through-put
		OT. FNON	ē			RAAOMD cond	Clinker production not	BAAQMD	
		(ton/hr	0,011	limitation
		REPORT		,	z		is process weight,	1112-9	weight
		NONE TO					4.10P ^{0.67} lb/hr, where P	BAAOMD	Process
		REPORT		Monitoring	À	# 20751, part 3b	0.10 Birasci	6-310	1 141
		NONE TO		Pressure Drop	D/\0	BAAQMD cond	0 16 m/deef	BAAQMD	BM
-			·					§60.252 (c)	*******
		REPORT			z		20% opacity	Subpart Y,	Opacity
		NONE TO						40 CFR,	
		REPORT		(M22)	,	# 20753, part 1	d	6-301	
		NONE TO		Visual	P/O	BAAQMD cond	Ringelmann I O	BAAQMD	Opacity
		REPORT		Monitoring	Ž	# 20751, part 3b	Kingeimann	6-301	Opacity
		NONE TO		Pressure Drop	P/O	BAAQMD cond	Pingelmonn I O	BAAQMD	Openity
actions, etc.)		(Date and Time)	000	ı ype	(P/C/N)	Citation	E-mission Limit	Citation	Fillill
(causes, corrective	Excess	Excess	Source	Tung	Frequency	Requirement		Limit	1 just
Comments	Actual	Period of	3	Applitation	Monitoring	Monitoring		Emission	Tuna of

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 12 of 70

S-131 ROCK SAMPLING SYSTEM ABATED BY A-131 DUST COLLECTOR, S-132 PREBLEND ABATED BY A-132 DUST COLLECTOR,S-134 PREBLEND STORAGE BIN (4-S-1-2) ABATED BY A-134 DUST COLLECTOR	S-122 TERTIARY CRUSHER (2-CR-1) ABATED BY A-121 AND A-122 DUST COLLECTORS, S-123 ROCK CONVEYING SYSTEM ABATED BY A-122 AND A-123 DUST COLLECTORS,	Table – H S-121 TERTIARY SCALPING SCREEN (2-VS-1-2) ABATED BY A-121 DUST COLLECTOR,
--	---	---

	1							
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	od of ess d Time)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20751, part 3b	P/Q	Pressure Drop Monitoring		NONE TO	NONE TO REPORT
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1	P/Q	Visual inspection (M22)		NON REI	NONE TO
М	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 20751, part 3b	P/Q	Pressure Drop Monitoring		NO RE	NONE TO REPORT
Process weight limitation	BAAQMD	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		z			RI NC	NONE TO REPORT
Through-put	BAAQMD ut cond # 2786 part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 2786 part D	P/D	Record keeping			NONE TO REPORT

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 13 of 70

BAAQMD cond # 2786	Process BAAQMD weight 6-311	PM BAAQMD 6-310	803,1340	40 CFR Opacity Subpart LLL	Opacity 6-301	Opacity BAAQMD 6-301	Type of Emission Limit Citation	
Clinker production not to exceed 1.6 million tons/year	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	0.15 gr/dscf		10%	Ringelmann 1.0	Ringelmann 1.0	Emission Limit	S-135 Нісн S-151 Номо S-1
BAAQMD cond # 2786 part D		BAAQMD cond # 20751, part 3b	§63.1349(c)	§63.1350(a) (4)	BAAQMD cond # 20753, part 1	BAAQMD cond # 20751, part 3b	Monitoring Requirement Citation	Table – I GHGRADE STORAGE BIN (4-S-3-4) ABATED BY A-135 DU MOGENIZER (5-S-1-2) ABATED BY A-151 AND A-152 DU S-153 KILN FEED SYSTEM ABATED BY A-153 DUST COL
P/D	z	P/Q	P/every 5 years	P/Monthly, scmiannuall y, annually, as appropriate	P/Q	P/Q	Monitoring Frequency (P/C/N)	T: GE BIN (4-S 1-2) ABATE SYSTEM AB
Record keeping		Pressure Drop Monitoring	Periodic source test (M9)	Visual inspection (M22)	Visual inspection (M22)	Pressure Drop Monitoring	Monitoring Type	Table – I -S-3-4) ABATED FED BY A-151 AI BATED BY A-15
							Affected Source	BY A-135 D ND A-152 DI 33 DUST COI
NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)	Table – I S-135 Highgrade Storage Bin (4-S-3-4) abated by A-135 Dust Collector, S-151 Homogenizer (5-S-1-2) abated by A-151 and A-152 Dust Collectors, S-153 Kiln Feed System abated by A-153 Dust Collector
							Actual Excess	NR,
			NESHAP Test report Nov / Dec 2012				Comments (causes, corrective actions, etc.)	

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 14 of 70 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

Process BAAQMD weight 6-311	PM BAAQMD 6-310	40 CFR, Subpart LLL, §63.1343 (b)(2)	Opacity 6-301	Opacity BAAQMD 6-301	Type of Emission Limit Limit Citation	
4.10P ^{0 67} lb/hr, where P is process weight, ton/hr	0.15 gr/dscf	20% opacity	Ringelmann 1.0	Ringelmann I.0	Emission Limit	8-4 S-14
	BAAQMD cond #11780 part E BAAQMD cond # 20751, part 3a	\$63.1350(c)(2) \$63.1349(c)	BAAQMD cond # 20753, part 1 for A-171 & A- 172	BAAQMD cond # 20751, part 3a	Monitoring Requirement Citation	41 RAW MILL (12 RAW MILL 2
z	P/M	P/D P/every 5 years	P/Q	P/M	Monitoring Frequency (P/C/N)	1-4-GM-1)-A1 (4-GM-2)-A
	Pressure drop monitoring	Visual inspection (M9) Periodic source test (M9)	Visual inspection (M22)	Pressure drop monitoring	Monitoring Type	S-141 RAW MILL (4-GM-1) ABATED BY A-141 DUST COLLECTOR, S-142 RAW MILL 2 (4-GM-2) ABATED BY A-142 DUST COLLECTOR
					Affected Source	1 Dest Cor 42 Dust Co
NONE TO REPORT	NONE TO REPORT	NONE TO REPORT NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)	LECTOR,
					Actual Excess	
		NESHAP Test report			Comments (causes, corrective actions, etc.)	

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 15 of 70

Table - J

	. NOx	_	S02	SO2	Type of Limit	
	puis (()	BAAQMD cond #11780,	BAAQMD 9-1-302	BAAQMD 9-1-301	Emission Limit Citation	
Emission Limit Citation BAAQMD 9-1-301 BAAQMD	hr	All kiln emission points not to exceed 1158 lb/hr or 615 ppm averaged for 2	300 ppm (dry)	0.5 ppm continuously for 3 consecutive minutes or 0.25 ppm avcraged over 60 consecutive minutes, or 0.05 ppm avcraged over 24 hours	Emission Limit	S-1 S-1
Emission Lim 0.5 ppm continuo for 3 consecutiv minutes or 0.25 paveraged over (consecutive minu or 0.05 ppm averaged over 2 hours 300 ppm (dry) All kiln emission		BAAQMD cond #11780, part E			Monitoring Requirement Citation	41 RAW MILL (42 RAW MILL 2
Emission Lim 0.5 ppm continuo for 3 consecutive minutes or 0.25 paveraged over (consecutive minute or 0.05 ppm averaged over (hours 300 ppm (dry) All kiln emission	C	C	z z	z .	Monitoring Frequency (P/C/N)	4-GM-1) AB (4-GM-2) A
Emission Lim 0.5 ppm continuo for 3 consecutiv minutes or 0.25 p averaged over (consecutive minu or 0.05 ppm averaged over 2 hours 300 ppm (dry)	Instack monitoring	CEMS/ Record keeping			Monitoring Type	ATED BY A-14 BATED BY A-1
Emission Lim 0.5 ppm continuo for 3 consecutiv minutes or 0.25 p averaged over (consecutive minu or 0.05 ppm averaged over 2 hours 300 ppm (dry)					Affected Source	1 DUST COL 42 DUST CO
Emission Lim 0.5 ppm continuo for 3 consecutiv minutes or 0.25 p averaged over (consecutive minu or 0.05 ppm averaged over 2 hours 300 ppm (dry)	NONE TO	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)	LECTOR,
S-141 RAW MILL (4-GM-1) ABATED BY A-141 DUST COL S-142 RAW MILL 2 (4-GM-2) ABATED BY A-142 DUST COL S-142 RAW MILL 2 (4-GM-2) ABATED BY A-142 DUST COL Monitoring Monitoring Frequency (P/C/N) O.5 ppm continuously for 3 consecutive minutes or 0.25 ppm averaged over 60 consecutive minutes, or 0.05 ppm averaged over 24 hours 300 ppm (dry) All kiln emission					Actual Excess	
S-141 RAW MILL (4-GM-1) ABATED BY A-141 DUST COLLECTOR, S-142 RAW MILL 2 (4-GM-2) ABATED BY A-142 DUST COLLECTOR Monitoring Emission Limit Requirement Citation (P/C/N) Type Source (Date and Time) 0.5 ppm continuously for 3 consecutive minutes or 0.25 ppm averaged over 60 consecutive minutes, or 0.05 ppm averaged over 24 hours 300 ppm (dry) N N N N N N N N N N N N N	,				Comments (causes, corrective actions, etc.)	

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 16 of 70 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

Type of Limit Citation PM Limit Citation PM Limit Citation PM Limit Citation PM Requirement Requirement Requirement Pressure drop PAMD Record REPORT Pressure drop RAQMD cond Affected Limit Citation PM Record Citation PM REPORT NONE TO REPORT REPORT NONE TO REPORT NONE TO REPORT NONE TO REPORT NONE TO REPORT REPORT										
BAAQMD cond #2786 cond #2786 part B (1) BAAQMD cond part B (1) Emission not to cond #11780, part C (3) BAAQMD cond cond #2786, part C (3) BAAQMD cond cond #2786, part D not to exceed 1.6 cond #11780, million tons/year part D million tons/year	Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
BAAQMD cond #11780, clinker on 24 hour part C (3) BAAQMD cond #11780, clinker on 24 hour basis BAAQMD cond #2786, Clinker production part D not to exceed 1.6 cond #11780, million tons/year part D BAAQMD million tons/year point D	PZ	BAAQMD cond #2786 part B (1)	36 lb/hr and 0.02 gr/SDCF	BAAQMD cond #2786 part C BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		
BAAQMD cond #2786, Clinker production part D cond #11780, million tons/year part D part D million tons/year part D	Emission	BAAQMD cond #11780, part C (3)	Emission not to exceed 6.4 lb/ton of clinker on 24 hour basis	BAAQMD cond #11780, part E (1 & 2)	P/D	CEMS/ Record keeping		NONE TO REPORT		
	Throughput	BAAQMD cond #2786, part D cond #11780, part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond #11780 part E	P/D	Record keeping		NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date January 29, 2013 Page 17 of 70

Table - J S-141 RAW MILL (4-GM-1) ABATED BY A-141 DUST COLLECTOR, S-142 RAW MILL 2 (4-GM-2) ABATED BY A-142 DUST COLLECTOR

Note: (M	Temperature	Type of Limit
Note: (M#) manns 'EDA Test Mathod #	40CFR63.1343 (b)(3)(ii), 40CFR63.1344 (a),(b) and 40CFR63.1349 (b)(3)(ii)	Emission Limit Citation
set Mathod #?	≤ 194.3°C RM on ≤ 197.5°C RM off	Emission Limit
	40CFR63.1350(f)	Monitoring Requirement Citation
	, c	Frequency (P/C/N)
	Temperature Readings	Monitoring Type
	S-141 S-142 S-154	Affected Source
	Temperature exceedance reported in NESHAP semi annual summary report for reporting period Jan 1, 2012 to June 30, 2012. Next report for period due July 2012.	Period of Excess (Date and Time)
		Actual Excess
	NESHAP VEE Test report and PM test conducted in Nov / Dec 2012 and submitted to BAAQMD	Comments (causes, corrective actions, etc.)

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 18 of 70

							ton/hr	i i	limitation
		NONE IC			z		P is process weight,	6-311	weight
						·	4.10P ^{0.67} lb/hr, where	RAAOMD	Process
		N/A		Triboflow leak detector	P/Q	BAAQMD cond #2786, part F	0.15 gr/dscf	BAAQMD 6-310	PM
		N/A		Triboflow leak detector	P/Q	BAAQMD cond # 2786, part F	Ringelmann 0.5	BAAQMD cond # 2786, part F	Opacity
NESHAP Test report Nov / Dec 2012		NONE TO REPORT		Periodic source test (M9)	P/every 5 years	§63.1349(c)		800.1047	-
		NONE TO REPORT		Visual inspection (M22)	P/D	§63.1350(e)	10%	40 CFR Subpart LLL	Opacity
		NONE TO REPORT		Visual inspection (M22)	P/Q	BAAQMD cond # 20753, part 1	Ringelmann 1.0	BAAQMD 6-301	Opacity
		N/A		Triboflow leak detector	P/Q	BAAQMD cond # 2786, part F	Ringelmann 1.0	BAAQMD 6-301	Opacity
Comments (causes, corrective actions, etc.)	Actual Excess	Period of Excess (Date and Time)	Affected Source	Monitoring Type	Monitoring Frequency (P/C/N)	Monitoring Requirement Citation	Emission Limit	Emission Limit Citation	Type of Limit
	TOR,	Table - K S-143 Raw mill 1 Separator system (4-se-3) abated by A-143 Dust Collector, S-144 Raw mill 2 Separator Circuit (4-se-4) abated by A-144 Dust Collector	ED BY A-143	Table - K S-143 Raw mill 1 Separator system (4-se-3) abated by A-143 B S-144 Raw mill 2 Separator Circuit (4-se-4) abated by A-144 I	T OR SYSTEM OR CIRCUIT	LL 1 SEPARATI	S-143 RAW-MI S-144 RAW MI		-

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Lehigh Southwest Cement Company - Permanente Plant Major Facility Review Permit - BAAQMD Facility ID # A0017 Page 19 of 70

	Table - L	
191		

							ton/hr		limitation
	٠	REPORT			Z		P is process weight,	6-311	weight
		NONE TO					4.10P ^{0.67} lb/hr, where	ВААОМО	Process
						# 20751, part 3a			
		REPORT		monitoring		BAAQMD cond	orro Birasor	6-310	3
		NONE TO		Pressure drop	₽/ Ճ	#11780 part E	0 15 ar/decf	BAAQMD	Z A
				1		BAAQMD cond			
/ Dec 2012		REPORT		test (M9)	years	305.1577(0)		(b)(2)	
NESHAP Test report Nov		NONE TO		Periodic source	P/every 5	863 1349(5)	2070 opacity	§63.1343	Opacity
		REPORT		(M9)	1/0	300.1000(c)(z)	200/ marily	Subpart LLL,	
		NONE TO		Visual inspection	P/D	862 1250(A)(2)		40°CFR,	
	20% opacity					142			
Secondary Plume > 20%	greater than	@ 10:37 am.		(M9)		for A-141 & A-	Kingemann 1.0	6-307	Change
Sept 14, 2012 for	plume .	August 16, 2012		Visual inspection	P/D	# 20753, part 2	Ringelmann I A	BAAQMD	Opacity
NOV # A51573, issued on	Secondary					BAAQMD cond			
						172			
		REPORT		(M22)	Ž	for A-171 & A-	Kiiigeiiiiaiii 1.0	6-301	Opacity
		NONE TO		Visual inspection	P/O	# 20753, part I	Ringelmann I O	BAAQMD	Onacity
		٠				BAAQMD cond			
		REPORT		monitoring		# 20751, part 3a	kingenitalii 1.0	6-301	Spacity
		NONE TO		Pressure drop	₽/≰	BAAQMD cond	Ringelmann 10	BAAQMD	Onscitu
actions, etc.)	Excess	(Date and Time)	Source	Туре	(P/C/N)	Citation	Linksyon Lians	Limit Citation	Limit
Comments	Actual	Period of	Affected	Monitoring	Monitoring	Monitoring		Emission	Type of
HOUSES	A-172 BAG	ND A-171 AND A-172 BAGHOUSES	LECTORS, A	142 Dust Col	141 AND A-	ABATED BY A-	S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND	S-154 PRI	=======================================

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 20 of 70

S02	S02	Нg	Нв	Type of Limit
9-1-302	BAAQMD 9-1-301	BAAQMD cond # 603, part 18	BAAQMD cond # 603, part 16	Emission Limit Citation
300 ppm (dry)	0.5 ppm continuously for 3 consecutive minutes or 0.25 ppm averaged over 60 consecutive minutes, or 0.05 ppm averaged over 24 hours	0.064 lb/hr of total mercury on a 30 days rolling average	Emission not to exceed 261 lb/yr (12-month rolling average) and 0.064 lb/hr (3-hour rolling average) of total nercury	Emission Limit
		BAAQMD cond # 603, part 19b	BAAQMD cond # 603, part 19b	Monitoring Requirement Citation
Z	z	С	С	Monitoring Frequency (P/C/N)
		CEMS/ Record keeping	CEMS/ Record keeping	Monitoring Type
				Affected Source
NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)
•				Actual Excess
			·	Comments (causes, corrective actions, etc.)

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Page 21 of 70

Table - I

- 1			r	
	NOx	NOx	Type of Limit	
	BAAQMD cond #11780, part C (3)	BAAQMD cond #11780, part C (1)	Emission Limit Citation	S-154 Pri
	Emission not to exceed 6.4 lb/ton of clinker on 24 hour basis	All kiln emission points not to exceed 1158 lb/hr or 615 ppm averaged for 2 hr	Emission Limit	S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND
	BAAQMD cond #11780, part E (1 & 2)	BAAQMD cond #11780, part E	Monitoring Requirement	ABATED BY A-
,	P/D	С	Monitoring Frequency (P/C/N)	141 AND A-
	CEMS/ Record keeping	CEMS/ Record keeping	Monitoring Type	142 DUST COL
			Affected Source	LECTORS, A
	NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)	ND A-171 AND A-172 BAGHOUSES
•			Actual Excess	A-172 BAG
	1		Comments (causes, corrective actions, etc.)	HOUSES

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 22 of 70

Tab	
le - L	

70	Š	Ty.	
PM ·	SO2	Type of Limit	
BAAQMD cond #2786	BAAQMD cond # 2786, part A(1)	Emission Limit Citation	S-15
786		on ation	PRE
36 lb/hr and 0.02 gr/SDCF for S-111, 112, 113, 115, 121, 122, 123, 132,	Rejection of 90% of the sulfur in the raw feed plus fuel, not requiring 0.6% sulfur coal as the fuel or 481 lb/hr averaged over the 24 hour day. As to the alternative limitation of 481 lbs/hr, sp long as the coal mill emissions are not monitored, SO2 emissions from the kiln mill shall not exceed 423 lbs/hr, and from the coal mill 58 lbs/hr.	Emission Limit	Table - L S-154 Precalciner Kiln abated by A-141 and A-142 Dust Collectors, and
BAAQMD cond #2786 part C BAAQMD cond # 20751, part 3a	BAAQMD cond # 2786, part A (3)	Monitoring Requirement Citation	ABATED BY A-1
P/M	C	Monitoring Frequency (P/C/N)	T 141 AND A-1
Pressure drop monitoring	In stack monitoring system	Monitoring Type	Table - L -142 Dust Col
		Affected Source	LECTORS, A
NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)	ND A-171 AND A-172 BAGHOUSES
		Actual Excess	A-172 BAG
		Comments (causes, corrective actions, etc.)	HOUSES

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Major Facility Review Permit - BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date January 29, 2013 Page 23 of 70

Temperature Throughput Type of Limit DÆ ž 40CFR63.1344 40CFR63.1349 40CFR63.1343 **Limit Citation** 63.1343(b)(3) cond #11780, Subpart LLL Subpart LLL cond #2786, (a),(b) and BAAQMD (b)(3)(ii),Emission §63.1343 40 CFR, part D S-154 Precalciner Kiln abated by A-141 and A-142 Dust Collectors, and A-171 and A-172 Baghouses 40 CFR part D (b)(1) ≤ 194.3°C RM on Clinker production ≤ 197.5°C RM off 0.3 lb/ton dry feed 8.7×10⁻¹¹ gr/dscf million tons/year not to exceed 1.6 **Emission Limit** @ 7% 02 40CFR63.1350(f) BAAQMD cond #11780 part E Requirement Monitoring §63.1349(d) §63.1349(c) Citation Monitoring Frequency P/cvcry 2.5 P/cvcry 5 (P/C/N) years years P/D C Table - L Periodic source Record keeping Periodic source Temperature Monitoring test (M23) Readings test (M5) Affected Source reporting period annual summary (Date and Time) NESHAP semi Jul 1, 2012 to Dec 31 2012 Temperature report for exceedance reported in NONE TO NONE TO NONE TO REPORT REPORT REPORT Period of Actual Excess Dec 2012 and submitted to NESHAP VEE Test report Dec 2012 and submitted to and PM test conducted in submitted to BAAQMD Test conducted in Nov / Test conducted in Nov / Nov / Dec 2012 and (causes, corrective actions, etc.) BAAQMD BAAQMD Comments

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 24 of 70

	:	REPORT		monitoring		BAAQMD cond # 20751, part 3a	gr/dscf	part B (3)	:
		NONE TO		Pressure drop	P⁄Μ	BAAQMD cond #2786, part C	8 lb/hr and 0.01	BAAQMD cond #2786.	Ŧ
		REPORT					ton/hr	6-311	limitation
		NONE 10			Z	• .	P is process weight,	\211 DAM\IMD	weight
		NONE TO					4.10P ^{0.67} lb/hr, where	BA AOMD	Process
		REPORT		monitoring	1417.1	# 20751, part 3a	0.10 Bivasci	6-310	
		NONE TO		Pressure drop		BAAQMD cond	O 15 orldoof	BAAQMD	D
Nov / Dec 2012		REPORT		test (M9)	years	300.1017(0)		(2)	
NESHAP Test report		NONE TO		Periodic source	P/every 5	863 1349(c)	1070	§63.1345(a)	Opacity
		REPORT	·	(M9)	P/D	863.1330(d)(2)	10%	Subpart LLL	Onacity
		NONE TO		Visual inspection	7	102VF/03C1 C73		40 CFR	
		REPORT		(M9)	•	for A-161	. 0	6-301	
		NONE TO		Visual inspection	P/D	BAAQMD cond # 20753, part 2	Ringelmann 1.0	BAAQMD	Opacity
Ringelmann 1									
emissions exceed	20% opacity					101 21-170			
Cooler. Fugitive dust	greater than	12:33 pm.		(M22)		for A-190	5	6-301	Change.
Clinker Gravity (G)	emission	Aug 17, 2012 @	S-161	Visual inspection	Ρ/Ο	# 20753 nart l	Ringelmann 1.0	BAAQMD	Onacity
Sept 14, 2012	Visible					BAAOMD cond			
NOV # A51575, issued on	Excess								
		REPORT		monitoring	14(/1	# 20751, part 3a	Killgellialii 1.0	6-301	Opacity
:		NONE TO		Pressure drop	D/M	BAAQMD cond	Dincolmann I O	BAAQMD	Omacity
actions, etc.)	Excess	(Date and Time)	Source	Type	(P/C/N)	Citation		Limit Citation	Limit
(causes, corrective	Actual	Excess	Affected	Shrioning	Frequency	Requirement	Emission Limit	HORSEHILE	1 y pe or
Comments		Period of		Monitorina	Monitoring	Monitoring			Type of
			IED BY A-I	S-161 Clinker Cooler (S-CC-1) ABATED BY A-16	Ker Cooler	3-101 CIII			
	The state of the s	-		Table - M	T	2 424 216			

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 25 of 70

								(E)	
		REPORT		test (M5)	years	803.1347(0)	ט.ו ושונטוו מוץ וככם	§63.1345(a)	1 141
Nov / Dec 2012		NONE TO		Periodic source	P/every 2.5	863 13/0/c)	0.1 lb/ran dry facd	Subpart LLL,	D'A
NESHAP Test report								40 CFR	
						05.1350	or iced (dry basis)	§ 63.1345	
		REPORT		Somes was (mo)	years	63 1350	of food (dry basis)	§ 63.1342 &	limit
Nov / Dec 2012		NONE TO		Source test (MS)	P/ every 2.5	111.8 63 1349 8	0.050 ke/metric ton	Subpart LLL,	Emission
NESHAP Test report			•			40 CFR Submart	PM not to exceed	40 CFR,	
		WEI ON I				"Zioo, part D	million tons/year	part D	
		REPORT		Record keeping	P/D	#2786 nart D	not to exceed 1.6	cond #2786,	Throughput
		NONE TO				Ba a OMD cond	Clinker production	BAAQMD	
actions, etc.)		(Date and Time)		i ypc .	(P/C/N)	Citation		Citation	THILL
(causes, corrective	Excess	Excess	Source	T	Frequency	Requirement	Emission Limit	I imit Citation	I imit
Comments	Actual	Period of	A STATE OF THE PARTY OF THE PAR	Monitorino	Monitoring	Monitoring		Emission	Type of
		61	TED BY A-10	S-161 Clinker Cooler (5-CC-1) ABATED BY A-161	ker Cooler	S-161 Clin			
				Table - M	Ħ				

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 26 of 70

		NEI ON I				" 2100, put 2	million tons/year	part D	
		Tangag		Record keeping	P/D	# 7786 nart D	not to exceed 1.6	cond # 2786,	Throughput
		OT BUON				BAAOMD cond	Clinker production	BAAQMD	
		REPORT					ton/hr	6-311	limitation
		NONE 10			z		P is process weight,	DAAQMD	weight
							4.10P ^{0.67} lb/hr, where	BAAOME	Process
		REPORT		monitoring	172	# 20751, part 3b	o. 10 Bildaei	6-310	
		NONE TO		Pressure drop	P/O	BAAQMD cond	0 15 or/dscf	BAAQMD	Š
Nov / Dec 2012		REPORT		test (M9)	years	800:1040(0)			
NESHAP Test report		NONE TO		Periodic source	P/every 5	863 1349(c)		30	
					appropriate			863 1348	(Pro-01)
				(M22)	as		10%	Subpart I.I.I.	Opacity
		REPORT		Visual inspection	y, annually,	§63.1350(a)(4)		40 CFR	
		NONE TO			semiannuall				
					P/Monthly,				
		REPORT		(M22)	Ž	# 20753, part 1	g	6-301	(Page 1
		NONE TO		Visual inspection	P/O	BAAQMD cond	Ringelmann I ()	BAAQMD	Onacity
		REPORT		monitoring	Ž	# 20751, part 3b	6	6-301	· · · · ·
		NONE TO		Pressure drop	P/O	BAAQMD cond	Ringelmann I O	BAAQMD	Onacity
actions, etc.)	Excess	(Date and Time)	Source	Туре	(P/C/N)	Citation		Limit Citation	Limit
(causes, corrective	Actual	Excess	Affected	320000000000000000000000000000000000000	Frequency	Requirement	Emission Limit		. Joe or
Comments	_	Period of	3	Mositoring	Monitoring	Monitoring		Faiggion	Type of
ORS	COLLECTO	ND A-190 DUST	LLECTOR A	165 DUST CO	BATED BY A	FER SYSTEM A	S-165 CLINKER TRANSFER SYSTEM ABATED BY A-165 DUST COLLECTOR AND A-190 DUST COLLECTORS	S-165	
		OLLECTOR	-164 DUST C	ABATED BY A-	ORAGE BIN	S-164 Freelime Storage Bin abated by A-164 Dust Collector	S-164		
		OLLECTOR,	63 Dust Co	ABATED BY A-1	.0 (5-s-12) /	S-163 CLINKER SILO (5-S-12) ABATED BY A-163 DUST COLLECTOR,	S-16		
		ollector,	62 Bust Co	ABATED BY A-1	0 (5-s-11) /	S-162 CLINKER STEO (5-S-11) ABATED BY A-162 DUST COLLECTOR,	S-16		
				Table – N	Ţ.				

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 27 of 70

				5		20751, part 3b	Brasei	part B (2)	
		REPORT		monitoring	P/Q	2/86, part C	6.6 lb/hr and 0.02	cond # 2786,	PM10
						BAAQMD cond #		валомп	
		NONE TO REPORT		Pressure drop monitoring	P/Q	BAAQMD cond # 20751, part 3b	Particulates not to exceed 3.3 lbs/hr	BAAQMD cond # 804,	PM10
		NONE TO REPORT			z		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	BAAQMD 6-311	Process Weight
		NONE TO REPORT		Pressure drop . monitoring	P/Q	BAAQMD cond # 804, part 1 BAAQMD cond # 20751, part 3b	0.15 gr/dscf	BAAQMD 6-310	
		NONE TO REPORT			Z		20% opacity	40 CFR, Subpart Y, § 60.252 (c)	Opacity
		NONE TO REPORT		Visual inspection (M22)	P/Q	BAAQMD cond # 20753, part I	Ringelmann 1.0	BAAQMD 6-301	Opacity
		NONE TO REPORT		Pressure drop monitoring	P/Q	BAAQMD cond # 804, part 1 BAAQMD cond # 20751, part 3b	Ringelmann 1.0	BAAQMD 6-301	Opacity
Comments (causes, corrective actions, etc.)	Actual Excess	Period of Excess (Date and Time)	Affected Source	Monitoring Type	Monitoring Frequency (P/C/N)	Monitoring Requirement Citation	Emission Limit	Emission Limit Citation	Type of Limit
	CTOR	Table - O S-171 Kiln Coal System abated by A-171 Baghouse, Pulse Jet Dust Collector	:E, Pulse Je	Table - O A-171 Baghous	Tal	AL SYSTEM ABA	S-171 Kiln Co		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 28 of 70 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

		S-171 KILN Co	Table - O S-171 KILN COAL SYSTEM ABATED BY A-171 BAGHOUSE, PULSE JET DUST COLLECTOR	Ta TED BY A-	Table - O A-171 Baghous	E, PULSE JE	T DUST COLLE	CTOR	
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 2786,	Clinker production not to exceed 1.6	BAAQMD cond #	P/D	Record keeping	:	NONE TO		
	part D	million tons/year	2/80, pan 13				REPORT		

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 29 of 70

S-172 Precalciner Coal Mill abated by A-172 Baghouse, Pulse Jet Dust Collector	Table - P	

PM10	PM10	Process Weight	РМ	Opacity	Opacity	Opacity	Type of Limit	
BAAQMD cond # 2786, part B (2)	BAAQMD cond # 1004, part 2	BAAQMD 6-311	BAAQMD 6-310	40 CFR, Subpart Y, § 60.252 (c)	BAAQMD 6-301	BAAQMD 6-301	Emission Limit Citation	700
6.6 lb/hr and 0.02 gr/dscf	Particulates not to exceed 3.3 lbs/hr	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	0.15 gr/dscf	20% opacity	Ringelmann 1.0	Ringelmann 1.0	Emission Limit	Table - P S-172 Precalciner Coal Mill abated by A-172 Baghouse, Pulse Jet Dust Collector
BAAQMD cond # 2786, part C BAAQMD cond # 20751, part 3b	BAAQMD cond # 20751, part 3b		BAAQMD cond # 1004, part 1 BAAQMD cond # 20751, part 3b		BAAQMD cond # 20753, part 1	BAAQMD cond # 1004, part 1 BAAQMD cond # 20751, part 3b	Monitoring Requirement Citation	ER COAL MILL
P/Q	P/Q	Z	Р/Q	Z	P/Q	P/Q	Monitoring Frequency (P/C/N)	T: ABATED BY
Pressure drop monitoring	Pressure drop monitoring		Pressure drop monitoring		Visual inspection (M22)	Pressure drop monitoring	Monitoring Type	Table - P BY A-172 BAGHC
							Affected Source	use, Puls
NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)	E JET DUST CO
							Actual Excess	LLECTOR
			·				Comments (causes, corrective actions, etc.)	

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 30 of 70

S-172 PRECALCINER COAL MILL ABATED BY A-172 BAGHOUSE, PULSE JET DUST COLLECTOR Table - P

		A comment of the second		to be and a first of the second of the secon				
Type of Emission Limit Limit Citation	on Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
BAAQMD PM10 cond # 2786 part B (2)	786, gr/dscf	BAAQMD cond # 2786, part C BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Throughput cond # 2786.	O Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 2786, part D	P/D	Record keeping		NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 31 of 70 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

Opacity	Type of Limit	
BAAQMD 6-301	Emission Limit Citation	
Ringelmann 1.0	Emission Limit	
	Monitoring Requirement Citation	S-17
Z	Monitoring Frequency (P/C/N)	Ta 6 ROCK PLA
	Monitoring Type	Table - R S-176 ROCK PLANT 1 STORAGE PILE
	Affected Source	E PILE
NONE TO	Period of Excess (Date and Time)	
ļ	Actual Excess	
	Comments (causes, corrective actions etc.)	

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company - Permanente Plant Major Facility Review Permit - BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 32 of 70

			-S-187	Ta (S-387) Hori	Table - S -S-187 (S-387) Hopper and Storage Bin	AGE BIN			
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency. (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0		Z			NONE TO REPORT		
Opacity	40 CFR Subpart OOO §60.672 (b)	10% opacity	N/A	Z	Z		NONE TO REPORT		
РМ	40 CFR Subpart OOO §60.672 (a) (1)	0.022 grains/dscf	N/A	Z	Z		NONE TO REPORT		
РМ	BAAQMD 6-310	0.15 gr/dscf	,	N			NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10p ^{0.67} lb/hr, where P is process weight, ton/hr		z			NONE TO REPORT		
	Note: (M#) mear	Note: (M#) means 'EPA Test Method #'.							

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Lehigh Southwest Cement Company - Permanente Plant Major Facility Review Permit - BAAQMD Facility ID # A0017 Page 33 of 70

S-201 Primary Crusher, S-202 Secondary Crusher	
--	--

	7			1	r
Process weight limitation	Nd	Opacity	Opacity	Type of Limit	
BAAQMD 6-311	6-310	BAAQMD cond # 805, part 1	BAAQMD 6-307	Emission Limit Citation	
4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	0.15 gr/dscf	Ringelmann 1.0 (20% Opacity)	Ringelmann 1.0 (20% Opacity)	Emission Limit	
:				Monitoring Requirement Citution	S-201 PRIMAR
z	z	Z	. z	Monitoring Frequency (P/C/N)	RY CRUSHER
			·	Monitoring Type	S-201 PRIMARY CRUSHER, S-202 SECONDARY CRUSH
			S-202	Affected Source	DARY CRU
NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	August 17, 2012 @ 11:42 am in excess of 6 minutes	Period of Excess (Date and Time)	SHER
			Excess Visible emission greater than 20% opacity	Actual Excess	
			NOV # A51574, issued on Sept 14, 2012. Secondary Crusher belt conveyor – VE exceed Ringelmann 1	Comments (causes, corrective actions, etc.)	

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 34 of 70

		S-210 Fin	Table – U S-210 Finish Mill (6-GM-1) ABATED BY A-210 DUST COLLECTOR (6-DC-17)	Та И-1) авате	Table – U TED BY A-210 DU	ST COLLEC	TOR (6-DC-1)	:
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 779, parts 1 & 4	Ċ	COMS		NONE TO REPORT		
Opacity	40 CFR	10%	§63.1350(c)	P/D	Visual inspection (M22)		NONE TO REPORT		
	\$63.1347		\$63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 779, parts 1 & 4	С	COMS		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ⁰⁶⁷ lb/hr, where P is process weight, ton/hr		Z			NONE TO REPORT		
Opacity	BAAQMD cond # 779, parts 1 & 4	No visible fugitive emission from circuit	BAAQMD cond # 779, parts 1 & 4	С	COMS		NONE TO REPORT		
Emission limit	BAAQMD cond # 779, part 2	0.006 gr/dscf or 0.9 lbs/hr	BAAQMD cond # 779, part 5	С	COMS		NONE TO REPORT		
Throughput	BAAQMD cond # 779,	Clinker production not to exceed 1.6 million tons/year		P/D	Record keeping		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 35 of 70

						,	million tons/year	part 3	
		REPORT		Record keeping	P/D	#11780 part E	not to exceed 1.6	cond # 1545,	Throughput
		NONE TO				BAAOMD cond	Clinker production	BAAQMD	
		KEFORI	i			1545, parts 1 & 4	ios/nr	part 2	
	•	BEBOBT		COMS	С	1545 1 0.4	11/t.	cond # 1545,	PM10
		NONE TO				BAAOMD cond #	0.006 er/dscf or 3.6	BAAQMD	
							ton/hr		limitation
		REPORT			Z		P is process weight,	ر 11.	weight
		NONE TO					4.10P ^{0.67} lb/hr, where	BAAOMD 6-	Process
		REPORT		COMIS	,	1545, parts 1 & 4	0.13 g1/dsc1	310	1/41
		NONE TO		COMS	כ	BAAQMD cond #	0 15 02/2007	BAAQMD 6-	C C
Dec 2012		REPORT		test (M9)	years	800.1047(c)			
NESIIAP Test report Nov /		NONE TO		Periodic source	P/every 5	863 13/0(4)	•	§63.1347	
		REPORT		(M22)			10%	Subpart LLL	Opacity
		NONE TO		Visual inspection	P/D	§63.1350(e)		40 CFR	
		REPORT		COMO		1545, parts 1 & 4	Nui Bennami 1.0	6-301	Opacity
		NONE TO		COMS	כ	BAAQMD cond #	Ringelmann I A	ВЛАОМО	Opacity
etc.)	Extess	Time)	Source	Туре	(P/C/N)	Citation		Limit Citation	Limit
(causes, corrective actions,	Actual	Date and	Affected	Surtemont	Frequency	Requirement	Emission Limit	E-1111331011	Type of
Comments	*	Period of	3	Monitoring	Monitoring	Monitoring		Emission	Tunant
	6, 18)	(6-DC-12, 14, 16, 18)		-211 Dust Co	BATED BY A	S-211 SEPARATOR (6-SE-2) ABATED BY A-211 DUST COLLECTOR	S-211 SEPAR		
		,		Table - V	1				
						•			

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 36 of 70

Type of Limit	
Emission Limit Citation	·
Emission Limit	S-216 CLIN S-217 CLIN S-221 CL S-231 CLINH (6-SS-2), S-24
Monitoring Requirement Citation	Table - W S-216 CLINKER CAKE CONVEYOR (6-BC-13) ABATED BY A-216 DUST COLLECTOR, S-217 CLINKER CAKE CONVEYOR (6-BC-15) ABATED BY A-217 DUST COLLECTOR S-221 CLINKER CAKE FEEDER (6-WF-2) ABATED BY A-221 DUST COLLECTOR, S-231 CLINKER CEMENT PRESSSED CAKE BIN ABATED BY A-231 DUST COLLECTOR (6-SS-2), S-242 CLINKER CAKE FEEDER (6-WF-3) ABATED BY A-242 DUST COLLECTOR
Monitoring Frequency (P/C/N)	Tal WEYOR (6-B WEYOR (6-WF EEDER (6-WF RESSSED CAI KE FEEDER (
Monitoring Type	Table - W 6-BC-13) ABATED 6-BC-15) ABATED -WF-2) ABATED BY CAKE BIN ABATEI ER (6-WF-3) ABATI
Affected Source	BY-A-216 DU BY A-217 DU A-221 DUS BY A-231 I ED BY A-242
Period of Excess (Date and Time)	IST COLLECTOR, UST COLLECTOR I COLLECTOR, OUST COLLECTOR DUST COLLECTOR
Actual Excess	TOR R, ECTOR
Comments (causes, corrective actions, etc.)	

limitation	weight	Process		:	Š				Onacity				-	Opacity				Opacity	Figure		Type of	
	6-311	RAAOMD		6-310	BAAQMD		part			BAAOMD		30	863 1348	Subpart LLL	40 CFR		6-301	BAAQMD	Man Changn		Emission	
ton/hr	P is process weight,	4.10P ^{0.67} lb/hr, where		Q. Co	0 15 or/decf			G	Ringelmann 0 5				,	10%			ď	Ringelmann 1.0		Emission Limit		(6-SS-2), S-2
			20751, part 3b	BAAQMD cond #	4996, part 2	BAAQMD cond #	20751, part 3b	BAAQMD cond #	4996, part 2	BAAQMD cond #	300.00.00	863 1349(c)		300000000000000000000000000000000000000	863 1350(a)(4)		4996, part 2	BAAQMD cond #	Citation	Requirement	Monitoring	(6-SS-2), S-242 CLINKER CAKE FEEDER (6-WF-3) ABATED BY A-242
	z			Ž	P/O			Ž	P/O		years	P/every 5	appropriate	annually, as	semiannually,	P/Monthly,	1	P/O	(P/C/N)	Frequency	Monitoring	KE FEEDER
	-			manometer	Pressure drop			manometer	Pressure drop		test (M9)	Periodic source		(M22)	Visual inspection		manometer	Pressure drop	Lype		Monitoring	(6-WF-3) ABAT
																			Source	Affected	8	ED BY A-242
NEFOR	Tagana	OT THOM		REPORT	NONE TO			REPORT	NONE TO		REPORT	NONE TO		REPORT	NONE TO		REPORT	NONE TO	Time)	(Date and	Period of	DUST COLLECTOR
																		·	ALIAN WAY	Actual	A	ECTOR
						:			~		Dec 2012	NESHAP Test report Nov /							etc.)	(causes, corrective actions,	Comments	

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Major Facility Review Permit - BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date January 29, 2013 Page 37 of 70

Table - W

(6-SS-2), S-242 CLINKER CAKE FEEDER (6-WF-3) ABATED BY A-242 DUST COLLECTOR S-231 CLINKER CEMENT PRESSSED CAKE BIN ABATED BY A-231 DUST COLLECTOR S-217 CLINKER CAKE CONVEYOR (6-BC-15) ABATED BY A-217 DUST COLLECTOR S-216 CLINKER CAKE CONVEYOR (6-BC-13) ABATED BY A-216 DUST COLLECTOR, S-221 CLINKER CAKE FEEDER (6-WF-2) ABATED BY A-221 DUST COLLECTOR,

		REPORT		keeping		4996, part 5	modes of obstation	2-6-503	keeping
		NONE TO		Log/ Record	P/D	BAAQMD cond #	House of operation	BAAQMD	Record
		REPORT		monitoring	****	4996, part 2	1 0.000 Braser	part 3	limitation
		NONE TO		Pressure drop	D/F	BAAQMD cond #	0 00k or/dsof	BAAQMD	Emission
etc.)		Time)	Source	Туре	(P/C/N)	Citation		Limit Citation	Limit
(causes, corrective actions,	Actual	(Date and	Affected	ivionitoring	Frequency	Requirement	Emission Limit	Emission	I ype or
Comments	,	Period of			Monitoring	Monitoring			

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 38 of 70

· · · · · ·		S-218	Table - X S-218 AIR SEPARATOR (6-SE-1) ABATED BY A-218 DUST CC	Ta)R (6-SE-1)	Table - X 1) ABATED BY A-2	218 Dust Co	OLLECTOR		
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6- 301	Ringelmann 1.0	BAAQMD cond # 4997, parts 1 & 4 BAAQMD cond # 20752, part 1	С	Triboflow leak detector	•	NONE TO REPORT		
Opacity	40 CFR	10%	\$63.1350(e) BAAQMD cond # 20752, part 2(D)	P/D	Visual inspection (M22)		NONE TO REPORT		
	§63.1347		§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 4997, part 2	Ringelmann 0.5	BAAQMD cond # 4997, parts 1 & 4 BAAQMD cond # 20752, part 1	C .	Triboflow leak detector		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 4997, parts 1 & 4 BAAQMD cond # 20752, part 1	С	Triboflow leak detector		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		Z			NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Page 39 of 70

Table - X
S-218 Air Separator (6-SE-1) abated by A-218 Dust Collector

		;							•
Type of	Emission	Emission Limit	Monitoring Requirement	Monitoring Frequency	· Monitoring	Affected	Period of Excess	Actual	Comments (causes, corrective actions,
Limit	Limit Citation		Citation	(P/C/N)	Туре	Source	Time)	DACCOS	e(c.)
	BAAOMD		BAAQMD cond#				NOME TO		
PM IO	Sond # 4007	0 006 ar/deaf	4997, parts 1 & 4	D/E	Triboflow leak		NONE 10		
1 3110	Colle # 4777	0.000 grusci	BAAQMD cond #	171	detector		REPORT		
	parto		20752, part 1						
Record	BAAQMD		BAAOMD cond #		Log/ Record		NONE TO		
Neccold of	cond # 4997,	Hours of operation	4007 7	P/D	liannina Irannina		Tanaga		
Kechei	part 7		477/, pail /		vechille		NEI ON I		
	BAAQMD	Clinker production	BAAOMD cond #				NONE TO		
Throughput	cond # 4997,	not to exceed 1.6	A007 pert 7	P/D	Record keeping		Tacada		
	part 5	million tons/year	477/, pail /				NEI ON I		
								1	

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 40 of 70

		S-220 Fi	Table - Y S-220 Finish Mill (6-GM-2) Abated by A-220 Dust Collector (6-DC-8)	Та м-2) авате	Table - Y TED BY A-220 Du	ST COLLEC	ror (6-DC-8)		
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 4998, parts 1 & 4 BAAQMD cond # 20752, part 1	O	Triboflow leak detector		NONE TO REPORT		
Opacity	40 CFR	701	§63.1350(c) BAAQMD cond # 20752, part 2(D)	P/D	Visual inspection (M22)		NONE TO REPORT		
	\$63.1347		\$63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 4998, part 2	Ringelmann 0.5	BAAQMD cond # 4998, parts 1 & 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 4998, parts 1 & 4 BAAQMD cond # 20752, part 1	С	Triboflow leak detector		NONE TO REPORT		·
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		z			NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 41 of 70

Table - Y S-220 FINISH MILL (6-GM-2) ABATED BY A-220 DUST COLLECTOR (6-DC-8)

		757 081				7777, part /	million tons/year	part 5	
		Tanada		Record keeping	P/D	1007 part 7	not to exceed 1.6	cond # 4998,	Throughput
		OF FIGURE				RAAOMD cond #	Clinker production	BAAQMD	
							days	partu	
		REPORT		Operation	į	4998, part 7	down in excess of 45	cond # 4226,	I iii ougiiput
		NONE TO		Log/ Hours of	P)	BAAQMD cond #	each day the kiln is	cond # 4998	Throughput
							Import 5000 tons for	RAAOMD	
						20752, part 1		parto	
		REPORT		detector	ì	BAAQMD cond#	0.000 8174001	2014 1 1776	
		NONE TO		Triboflow leak	P/F	4998, parts 1 & 4	0.006 ar/dect	cond # 4998	PMIO
			•			BAAQMD cond #		RAAOMD	•
etc.)		Time)		. Jpc	(P/C/N)	Citation		Change	- Commit
(causes, corrective actions,	Excess	(Date and	Source	Tuna	Frequency	Requirement	Emission Limit	I imit Citation	I imit
Comments	À	Period of		Monitoring	Monitoring	Monitoring		Emission	Type of

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 42 of 70

		NONE TO REPORT			z		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	BAAQMD 6-311	Process weight limitation
:		NONE TO REPORT		Pressure drop manometer	P/Q	BAAQMD cond # 4995, part 2	0.15 gr/dscf	BAAQMD 6-310	PM
		NONE TO REPORT		Pressure drop manometer	P/Q	BAAQMD cond # 4995, part 2	Ringelmann 0.5	BAAQMD cond # 4995, part 1	Opacity
NESHAP Test report Nov		NONE TO REPORT		Periodic source test (M9)	P/every 5 years	\$63.1349(c)		§63.1348	
		NONE TO REPORT		Visual inspection (M22)	P/Monthly, semiannually, annually, as appropriate	§63.1350(a) (4)	10%	40 CFR Subpart LLL	Opacity
		NONE TO REPORT		Visual inspection (M22)	P/Q	BAAQMD cond # 20753, part 1	Kingelmann 1.0	BAAQMD 6-301	Opacity
		NONE TO REPORT		Pressure drop manometer	P/Q	BAAQMD cond # 4995, part 2	Ringelmann 1.0	BAAQMD 6-301	Opacity
Comments (causes, corrective actions, etc.)	Actual Excess	Period of Excess (Date and Time)	Affected Source	Monitoring Type	Monitoring Frequency (P/C/N)	Monitoring Requirement Citation	Emission Limit	Emission Limit Citation	Type of Limit
 - - -	4), 21), -9), -7),	ECTOR (6-DC-4), ECTOR (6-DC-21), ECTOR (6-DC-9), LECTOR (6-DC-7), CTOR (6-DC-5)		Table - Z KATED BY A-222 T KATED BY A-240 E BATED BY A-243 I KATED BY A-244 ATED BY A-245 D	Ta-WF-4)-ABA7 R/BINS ABA7 -WF-9) ABA7 6-WF-7) ABA	Table - Z S-222-Gypsum feeder (6-wf-4)-abated by A-222-Dust-Collector (6-DC-4), S-240 Additive Conveyor/bins abated by A-240 Dust Collector (6-DC-21), S-243 Gypsum Feeder (6-WF-9) abated by A-243 Dust Collector (6-DC-9), S-244 Pozzolan Feeder (6-wf-7) abated by A-245 Dust Collector (6-DC-7), S-245 Clay Feeder (6-wf-5) abated by A-245 Dust Collector (6-DC-5)	.8-222-Gyp S-240 Addi S-243 Gyps S-244 Pozz S-245 Cl		

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 43 of 70

		REPORT		keeping	į	4995, part 6	· · · · · · · · · · · · · · · · · · ·	2-6-503	keeping
		NONE TO		Log/ Record	P ()	BAAQMD cond #	Hours of operation	BAAQMD	Record
		NONE TO REPORT		Log/ Record keeping	P/Q	BAAQMD cond # 4995, part 6	Pressure Drop	BAAQMD cond # 4995, part 3	Record keeping
		NONE TO REPORT		Pressure drop monitoring	P/E	HAAQMD cond # 4995, part 2 BAAQMD cond # 20751, part 3b	0.0013 gr/dscf	BAAQMD cond # 4995, part 3	PM10
Comments (causes, corrective actions, etc.)	Actual Excess	Period of Excess (Date and Time)	Affected Source	Monitoring Type	Monitoring Frequency (P/C/N)	Monitoring Requirement Citation	Emission Limit	Emission Limit Citation	Type of Limit
	-4), -21), (-9), (-7),	ECTOR (6-DC-4), ECTOR (6-DC-21), ECTOR (6-DC-9), LECTOR (6-DC-7)	DUST COLLE DUST COLLE DUST COLLE DUST COLLE	Table - Z RATED BY A-222 I RATED BY A-240 I RATED BY A-243 I RATED BY A-244 ATED BY A-245 D	Ta -WF-4) ABAT R/BINS ABAT -WF-9) ABAT 6-WF-7) ABATI	Table - Z S-222 GYPSUM FEEDER (6-WF-4) ABATED BY A-222 DUST COLLECTOR (6-DC-4), S-240 ADDITIVE CONVEYOR/BINS ABATED BY A-240 DUST COLLECTOR (6-DC-21). S-243 GYPSUM FEEDER (6-WF-9) ABATED BY A-243 DUST COLLECTOR (6-DC-7), S-244 POZZOLAN FEEDER (6-WF-7) ABATED BY A-245 DUST COLLECTOR (6-DC-7) S-245 CLAY FEEDER (6-WF-5) ABATED BY A-245 DUST COLLECTOR (6-DC-5)	S-222 GYI S-240 ADDI S-243 GYP S-244 POZZ S-245 CI		

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 44 of 70

		Table - AA S-230 HYDRAULIC ROLLER PRESS (6-RP-1) ABATED BY A-230 DUST COLLECTOR (6-DC-2)	IC ROLLER PRI	Tab SS (6-RP-1)	Table - AA =1) ABATED BY A=	230 Dust C	OLLECTOR (6	-DC-2)	
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1	. С	Triboflow leak detector		NONE TO		
Opacity	40 CFR Subpart LLL	10%	\$63.1350(e) BAAQMD cond # 20752, part 2(D)	P/D	Visual inspection (M22)		NONE TO REPORT		
	§63.1347		§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 4999, part l	Ringelmann 0.5	BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1	· c	Triboflow leak detector		NONE TO REPORT		
РМ	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		z			NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 45 of 70

		S-230 HÝDRAU	Table - AA S-230 HYDRAULIC ROLLER PRESS (6-RP-1) ABATED BY A-230 DUST C	Tat ESS (6-RP-1)	Table - AA -1) ABATED BY A-	230 Dust C	OLLECTOR (6-DC-2)	-DC-2)	
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
PM10	BAAQMD cond # 4999 part 3	0.006 gr/dscf	BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1	P/E	Triboflow leak detector		NONE TO REPORT		
Throughput	BAAQMD cond # 4999, part 5	Import 5000 tons for each day the kiln is down in excess of 45	BAAQMD cond # 4999, part 7	P/D	Log/ Hours of Operation	,	NONE TO REPORT		
Throughput	BAAQMD cond # 4999, part 5	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 4999, part 7	P/D	Log/ Record kccping		NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 46 of 70

Type of Limit Opacity Opacity	Emission Limit Citation BAAQMD 6-301 40 CFR Subpart OOO 60.672 (b) 40 CFR Subpart OOO 60.672 (a) (1) BAAQMD	S-300 ROCKPLANT WET AGGREGATE STORAGE PILES ABATED BY A-31 Monitoring Monitoring Monitoring Monitoring Affected	WET AGGREGA Monitoring Requirement Citation BAAQMD cond # 7252, part 2 & 4 40 CFR Subpart 000 §60.674	Tat NTE STORAG Monitoring Frequency (P/C/N) C	Table - BB RAGE PILES ABATI ng	Affected Source	Period of Excess (Date and Excess Time) NONE TO REPORT NONE TO REPORT NONE TO REPORT	Actual Excess	Comments (causes, corrective actions, etc.)
	40 CFR		800.074						
PM	Subpart OOO 60.672 (a) (1)	0.022 grains/dscf	N/A	Z	z		NONE TO REPORT		
Opacity	BAAQMD cond # 7252, part 1	Ringelmann 0.5	BAAQMD cond # 7252, part 6	P/D	Log/Record keeping		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7252, part 6	P/,D	Log/Record keeping		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		z			NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 47 of 70

						, 200	million tons/year	part 5	
		REPORT		Record keeping	P/D	7252. part 6	not to exceed 1.5	cond # 7252,	Throughput
		NONE TO				BA AOMD cond #	Stockpiles product	BAAQMD	
		NEI ON I		Keebing		, 202, part o	*6	part 4	Colldition
	٠	Tangaga		Log Record	· P/D	7757 20# 6	Compicion surace-	cond # 7252,	Condition
		NONE TO		I oa/ Record		RAAOMD cond#	Completely "surface.	BAAQMD	Wet Surface
							storage piles.		
			,				moisture of the		
							maintain the surface		
		1				i man a sum of the care	frequently enough to	part 3	
•		REPORT		system.	С	7757 nart 2 & 4	shall operate	cond # 7252,	rate
		OF TOO		Water enroy		RAAOMD cond #	piles and the system	BAAQMD	Water flow
					·•		over the four storage		
							be of such quantity		
							Water flow rate shall		
etc.)		Time)	5000	ı yır	(P/C/N)	Citation		Lillar Charlon	
(causes, corrective actions,	Excess	(Date and	Allected	Tuno	Frequency	Requirement	Emission Limit	I imit Citatian	I jpc of
Comments	<u> </u>	Period of	3	Monitorino	Monitoring	Monitoring		Finiscion	Type of
M	AY SYSTE	10 WATER SPRAY SYSTEM		E PILES ABATI	ATE STORAC	WET AGGREG	S-300 ROCKPLANT WET AGGREGATE STORAGE PILES ABATED BY A-30	S	
				Table - BB	Tal				

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 48 of 70

PM10		limitation	weight	Process	1 141	M		Opmonj	Opacity	,			(busine)	Onacity				Opacity	Orgoity		Limit	Type or			
cond # 7837 part 5	BAAOMD	0-511	6-311	RAAOMD	6-310	BAAQMD	part 2	, and a	cond # 7837	BAAOMD		§63.1348	Subpart LLL	40 CFR				6-301	BAAQMD		Limit Citation	EJIIISJOII			
0.01 gr/dscf		ton/hr	P is process weight,	4.10P ^{0.67} lb/hr, where	0.10 81/4361	0 15 ar/deef		- Contraction of	Ringelmann 0.5					10%				Will Belliamin 1.0	Ringelmann 1 0		Cintosoco	Emission Limit		S-301 RAIL LOADOUT SYSTEM ABATED BY A-301 RAIL LOADOUT DUST	
7837, part 4 BAAQMD cond # 20751, part 3b	BAAQMD cond #				7837, part 4	BAAQMD cond #	20751, part 3b	BAAQMD cond #	7837, part 4	BAAQMD cond #	300.1010(0)	863 1349(-)		3	863 1350(a) (4)		20751, part 3b	BAAQMD cond #	7837, part 4	BAAQMD cond #	Citation	Requirement	Monitoring	OUT SYSTEM A	
P/E			z		172	B/O		Ž	P/O		years	P/every 5	appropriate	annually, as	semiannually,	P/Monthly,			P/Ω		(P/C/N)	Frequency	Monitoring	BATED BY A	Tal
Pressure drop monitoring					monitoring	Pressure drop		monitoring	Pressure drop		test (M9)	Periodic source		(M22)	Visual inspection			monitoring	Pressure drop		Туре	Surronnotal		-301 KAIL LOA	Table - CC
		i																		•	Source	Affected		DOUT DUST	j
NONE TO REPORT		NEI ON	NONE TO		REPORT	NONE TO		REPORT	NONE TO		REPORT	NONE TO		REPORT	NONE TO	j		REPORT	NONE TO		(Date and Time)	Excess	Period of	COLLECTOR (7-DC-9)	
																					Excess	Actual	•	(7-DC-9)	
						į					Dec 2012	NESHAP Test report Nov /									etc.)	frances corrective actions	Comments		

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 49 of 70

		S-301 RAIL LOADOUT SYSTEM ABATED BY A-301 RAIL LOADOUT DUST COLLECTOR (7-DC-9)	OUT SYSTEM AI	BATED BY A.	A-301 RAIL LOA	DOUT DUST	COLLECTOR	(7-DC-9)	
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 7837, part 1	Cement at source not to exceed 312,000 tons/year	BAAQMD cond # 7837, part 7	P/D	Log/ Record keeping		NONE TO REPORT		
Record kccping	BAAQMD cond # 7837, part 6	2,080 hours of operation/year	BAAQMD cond # 7837, part 7	P/D	Record keeping		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 50 of 70

PM10	FP	PM.	Opacity	PM	Opacity	Opacity	Type of Limit	
BAAQMD cond # 7247 part 3	BAAQMD 6-311	BAAQMD 6-310	BAAQMD cond # 7247, part 1	40 CFR Subpart OOO 60.672 (a) (1)	40 CFR Subpart OOO 60.672 (b)	BAAQMD 6-301	Emission Limit Citation	
0.0013 gr/dscf	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	0.15 gr/dscf	Ringelmann 0.5	0.022 grains/dscf	10% opacity	Ringelmann 1.0	Emission Limit	S-340 COARS S-343 CI
BAAQMD cond # 7247, part 2		BAAQMD cond # 7247, part 2b BAAQMD cond # 20751, part 3b	BAAQMD cond # 7247, part 2b BAAQMD cond # 20751, part 3b	40 CFR Subpart OOO §60.675	40 CFR Subpart OOO §60.674	BAAQMD cond # 7247, part 2b BAAQMD cond # 20751, part 3b	Monitoring Requirement Citation	Table - DD S-340 COARSE ROCK WITHDRAWAL SYSTEM: ABATED BY A:340-BWGHOUSE (8-DC-50), S-341 SCREENS ABATED BY A-341 BAGHOUSE (8-DC-51), S-343 CRUSHED ROCK CONVEYORS ABATED BY A-390 BAGHOUSE (8-DC-30) S-390 CONVEYOR ABATED BY A-390 BAGHOUSE (8-DC-30)
P/E	z	P/Q	P/Q	P/E	P/Q	P/Q	Monitoring Frequency (P/C/N)	Tal RAWAL SYSS S ABATED BY ONVEYORS OR ABATED
Pressure drop monitoring		Pressurc drop monitoring	Pressure drop monitoring	(M5) or (M17)	Pressure Drop monitoring	Pressure drop monitoring	Monitoring Type	Table - DD SYSTEM:ABATED:B D BY A-341 BAGHO RS ABATED BY A- TED BY A-390 BAG
							Affected Source	Y. A. 340. BAG DUSE (8-DC- 341 BAGHOU THOUSE (8-D
NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	N/A for this reporting period	NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)	GHOUSE (8-D -51), USE (8-DC-51 DC-30)
							Actual Excess	C-50),
							Comments (causes, corrective actions, etc.)	

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 51 of 70

		NONE TO REPORT		Log/ Record keeping	P/I)	BAAQMD cond # 7247, part 8 & 9	Total hours of operation 5,660/year	BAAQMD cond # 7247, part 7	Hours of Operation
,		NONE TO		Log/ Record keeping	P/D	BAAQMD cond # 7247, parts 8 & 9	Total of combined overburden coarse rock, sub-base rock and class 2 rock processed 2.5 million tons/year	BAAQMD cond # 7247, part 6	Log record keeping
		NONE TO REPORT		Record keeping	CI/d	BAAQMD cond # 7247, parts 8 & 9	Total of overburden. coarse rock processed 1.5 million tons/year	BAAQMD cond # 7247, part 5	Throughput
Comments (causes, corrective actions, etc.)	Actual Excess	Period of Excess (Date and Time)	Affected Source	Monitoring Type	Monitoring Frequency (P/C/N)	Monitoring Requirement Citation	Emission Limit	Emission Limit Citation	Type of Limit
	C-50),),	HOUSE (8-D) 51), SE (8-DC-51 C-30)	Y A-340 BAG DUSE (8-DC-: 341 BAGHOUS HOUSE (8-D	Table - DD SYSTEM ABATED B BY A-341 BAGHO DRS ABATED BY A- TED BY A-390 BAG	Tal RAWAL SYS' S ABATED BY ONVEYORS, OR ABATED	Table - DD S-340 COARSE ROCK WITHDRAWAL SYSTEM ABATED BY A-340 BAGHOUSE (8-DC-50), S-341 SCREENS ABATED BY A-341 BAGHOUSE (8-DC-51), S-343 Crushed Rock Conveyors abated by A-341 Baghouse (8-DC-51), S-390 CONVEYOR ABATED BY A-390 BAGHOUSE (8-DC-30)	S-340 COARSI S-343 CR S		,

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 52 of 70

S-342 ROCK CRUSHERS-ABATED BY A-342 BACHOUS	Table - EE	
E (8-DC-52)		
E (8-DC-52)		
E (8-DC-52)		
7		

FP	PM	Opacity	PM	Opacity	Opacity	Opacity	Type of Limit
BAAQMD 6-311	BAAQMD 6-310	BAAQMD cond # 7246, part l	40 CFR Subpart OOO 60.672 (a) (1)	40 CFR Subpart OOO 60.672 (b)	BAAQMD 6-301	BAAQMD 6-301	Emission Limit Citation
4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	0.15 gr/dscf	Ringelmann 0.5	0.022 grains/dscf	10% opacity	Ringelmann 1.0	Ringelmann 1.0	Emission Limit
	BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1	BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1	N/A	40 CFR Subpart OOO §60.674	BAAQMD cond # 20752, part 2(D)	BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1	Monitoring Requirement Citation
z	С	С	Z	P/Q	P/D	C	Monitoring Frequency (P/C/N)
	Triboflow leak detector	Triboflow leak detector	Z	Pressure drop monitoring	Visual inspection (M22)	Triboflow leak detector	Monitoring Type
							Affected Source
NONE TO REPORT	NONE TO REPORT	NONE TO	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)
			i				Actual Excess
							Comments (causes, corrective actions, etc.)

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 53 of 70 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

		NONE TO REPORT		,Log/Record keeping	P/D	BAAQMD cond # 7246, part 9	Total hours of operation 5,660/year	BAAQMD cond # 7246,	Hours of Operation
		NONE TO		Log/ Record keeping	P/D	BAAQMD cond # 7246, part 9	Overburden coarse rock, Aggregate subbase and Class 2 base rock processed 2.5 million tons/year	BAAQMD cond # 7246, part 6	Log record
		NONE TO REPORT		Log/ Record keeping	P/D	BAAQMD cond # 7246, part 9	Overburden coarse rock processed 1.5 million tons/year	BAAQMD cond # 7246, part 5	Throughput
		NONE TO REPORT		Triboflow leak detector	С	BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1	0.0013 gr/dscf	BAAQMD cond # 7246 part 2	PM10
Comments (causes, corrective actions, etc.)	Actual Excess	Period of Excess (Date and Time)	Affected Source	Monitoring Type	Monitoring Frequency (P/C/N)	Monitoring Requirement Citation	Emission Limit	Emission Limit Citation	Type of Limit

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 54 of 70

3 2	
vevor-abated by A=350 water Spray System	

		REPORT		keeping		7248, part 5	tons/year	part 4	ougulyan
		NONE TO		Log/ Record	D/Q	BAAQMD cond#	Rock processed not	BAAQMD	Throughput
		NONE TO REPORT		Log/ Record keeping	P/D	BAAQMD cond # 7248, part 5	Completely "surface- wet"	BAAQMD cond # 7248, part 3	Wet Surface Condition
		NONE TO REPORT			z	·	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	BAAQMD 6-311	FP
		NONE TO REPORT		Log/Record · keeping	P/D	BAAQMD cond # 7248, part 5	0.15 gr/dscf	BAAQMD 6-310	РМ
		NONE TO REPORT		Log/Record kecping		BAAQMD cond # 7248, part 5	Ringelmann 0.5	BAAQMD cond # 7248, part l	Opacity
		NONE TO REPORT		z	Z	N/A	0.022 grains/dscf	40 CFR Subpart OOO 60.672 (a) (1)	PM
		NONE TO REPORT		Z	Z	N/A	10% opacity	40 CFR Subpart OOO 60.672 (b)	Opacity
		NONE TO REPORT		Log/Record keeping	P/D	BAAQMD cond # 7248, part 5	Ringelmann 1.0	BAAQMD 6-301	Opacity
Comments (causes, corrective actions, etc.)	Actual Excess	Period of Excess (Date and Time)	Affected Source	Monitoring Type	Monitoring Frequency (P/C/N)	Monitoring Requirement Citation	Emission Limit	Emission Limit Citation	Type of Limit

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 55 of 70

S-350 ROCK PLANT WET SCREEN AND CONVEYING ABATED BY A-350 WATER SPRAY SYSTEM Table - GG

							F
Wet Surface Condition	FP	РМ	Opacity	РМ	Opacity	Opacity	Type of Limit
BAAQMD cond # 7249,	BAAQMD 6-311	BAAQMD 6-310	BAAQMD cond # 7249, part I	40 CFR Subpart OOO 60.672 (a) (1)	40 CFR Subpart OOO 60.672 (b)	BAAQMD 6-301	Emission Limit Citation
Completely "surface- wet"	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	0.15 gr/dscf	Ringelmann 0.5	0.022 grains/dscf	10% opacity	Ringelmann 1.0	Emission Limit
BAAQMD cond #		BAAQMD cond# 7249, part 5	BAAQMD cond # 7249, part 5	N/A ·	N/A	BAAQMD cond# 7249, part 5	Monitoring Requirement Citation
P/D	z	P/D	P/D	Z	Z	P/D	Monitoring Frequency (P/C/N)
Log/ Record keeping		Log/Record keeping	Log/Rccord keeping	Z	Z	Log/Record Kccping	Monitoring Type
			·				Affected Source
NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	Period of Excess (Date and Time)
							Actual Excess
							Comments (causes, corrective actions, etc.)

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 56 of 70

S-360 ROCKPLANT WET AGGREGATE LOADOUT SYSTEM ABATED BY A-360 WATER SPRAY SYSTEM	Table - HH
---	------------

		NONE TO REPORT		Log/ Record keeping	P/D	BAAQMD cond # 7250, part 5	Completely "surface- wet"	BAAQMD cond # 7250, parts 3 & 4	Wet Surface Condition
		NONE TO REPORT			Z		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	BAAQMD 6-311	FP
·		NONE TO REPORT		Log/Record keeping	P/D	BAAQMD cond # 7250, part 5	0.15 gr/dscf	BAAQMD 6-310	PM
		NONE TO REPORT		Log/Record keeping	P/D	BAAQMD cond # 7250, part 5	Ringelmann 0.5	BAAQMD cond # 7250, part 1	Opacity
		NONE TO REPORT		Z	Z	N/A	0.022 grains/dscf	40 CFR Subpart OOO 60.672 (a) (1)	PM
		NONE TO REPORT		. Z	Z	N/A	10% opacity	40 CFR Subpart OOO 60.672 (b)	Opacity
		NONE TO REPORT		Log/Record keeping	P/D	BAAQMD cond # 7250, part 5	Ringelmann 1.0	BAAQMD 6-301	Opacity
Comments (causes, corrective actions, etc.)	Actual Excess	Period of Excess (Date and Time)	Affected Source	Monitoring Type	Monitoring Frequency (P/C/N)	Monitoring Requirement Citation	Emission Limit	Emission Limit Citation	Type of Limit

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 57 of 70

S-370 AGGREGATE ADDITIVE TRANSFER SYSTEM WITH SILO ABATED BY A-370 WATER SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY A-370 WATER SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY A-370 WATER SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY A-370 WATER SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM WITH SILO ABATED BY HAUL ROAD SPRASAND STORAGE PILE	S-370, S-380 Emission Limit	SAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM S-370, S-380, S-381, AND S-382 ALSO ABATED BY HAUL ROAD SPRINKLER SYSTEM Monitoring Monitoring Monitoring Affected Excess Source (Date and Excess Surface) Citation (P/C/N) Type Source Time)	H SILO ABA ILE, S-382 W 382 ALSO A Monitoring Frequency (P/C/N)	FED BY A-370 VATER CLARIF BATED BY HAU Monitoring Type	WATER SPRATER FINES SYLL ROAD SPRAME Affected Source	YSTEM YSTEM Period of Excess (Date and Time)	ND TRANS TEM Actual Excess	AY, S-380 SAND TRANSFER HOPPER, S-381 VSTEM Period of Excess (Comments (Co
			Tal	Table - II				
Type of Emission	S-370, S-380 Emission Limit	ND STORAGE P), S-381, AND S- Monitoring Requirement	HLE, S-382 V 382 ALSO A Monitoring Frequency	VATER CLARIF BATED BY HAU Monitoring	IER FINES STIL ROAD SPR	YSTEM INKLER SYS Period of Excess (Date and	TEM Actual Excess	Comments (causes, corrective actions,
		# Purch CINCY Y G		I og/Becord		NONE TO		

		20012	, , , , , , , , , , , , , , , , , , ,						
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 7251, part 5	P/D	Log/Record keeping		NONE TO REPORT		
Opacity	40 CFR Subpart OOO 60.672 (b)	10% opacity	N/A	z ·	z		NONE TO REPORT		
PM	40 CFR Subpart OOO 60.672 (a) (1)	0.022 grains/dscf	N/A	Z .	Z	,	NONE TO REPORT		
Opacity	BAAQMD cond # 7251,	Ringelmann 0.5	BAAQMD cond # 7251, part 5	P/D	Log/Record keeping	,	NONE TO REPORT		·
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7251, part 5	P/D	Log/Record keeping		NONE TO REPORT		
FP .	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		z			NONE TO REPORT		
Wet Surface Condition	BAAQMD . cond # 7251, parts 3 & 4	Completely "surface- wet"	BAAQMD cond # 7251, part 5	P/D	Log/ Record keeping		NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 58 of 70 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

		S-383-R S-384	Table – JJ S-383 ROCK PLANT 2 CONVEYORS ABATED BY A-384 BAGHOUSE (8-DC-31); S-384 ROCK PLANT 2 SCREENS ABATED BY A-384 BAGHOUSE (8-DC-31)	Tal ONVEYORS A	Table – JJ RS ABATED BY A-38 ABATED BY A-38	84 BACHOUSE	E-(8-DC-31)		
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond. # 7246 (1)	P/Q	Visual inspection (M22)		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf		Z			NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		Z	,		NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 59 of 70 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

,	S-412 FINISH MILL ADDITIVE BIN (6-GM-3) ABATED BY A-218 DUST COLLECTOR (6-DC-19)	Table - KK	The same of the sa
---	--	------------	--

PM10	FP	PΜ	Opacity		Opacity	Opacity	Type of Limit	
BAAQMD cond # 13900, part 3	BAAQMD 6-311	BAAQMD 6-310	BAAQMD cond # 13900, part 2	§03.1347	40 CFR Subpart LLL	BAAQMD 6-301	Emission Limit Citation	
0.006 gr/dscf	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	0.15 gr/dscf	Ringelmann 0.5		10%	Ringelmann 1.0	Emission Limit	Table - KK S-412 Finish Mill Additive Bin (6-gm-3) abated by A-218 Dust Co
BAAQMD cond# 13900, part 4		BAAQMD cond # 13900, parts 1 & 4	BAAQMD cond # 13900, parts 1 & 4	\$63.1349(c)	§63.1350(e) BAAQMD cond # 20752, part 2(D)	BAAQMD cond # 13900, parts 1 & 4 BAAQMD cond # 20752, part 1	Monitoring Requirement Citation	ILL ADDITIVE B
P/E	Z	С	С	P/every 5 years	P/D	С	Monitoring Frequency (P/C/N)	Tat IN (6-GM-3)
Triboflow leak detector		Triboflow leak detector	Triboflow leak detector	Periodic source test (M9)	Visual inspection (M22)	Triboflow leak detector	Monitoring Type	Table - KK 1-3) ABATED BY A-
	i :						Affected Source	218 Dust Co
NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO REPORT	NONE TO	NONE TO REPORT	Period of Excess (Date and Time)	DLLECTOR (6-DC-19)
						-	Actual Excess	5-DC-19)
				NESHAP Test report Nov / Dec 2012			Comments (causes, corrective actions, etc.)	·

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Major Facility Review Permit - BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date January 29, 2013 Page 60 of 70

S-412 FINISH MILL ADDITIVE BIN (6-GM-3) ABATED BY A-218 DUST COLLECTOR (6-DC-19) Table - KK

							And a formal majoritation of the con-	accompany of the co	
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
	BAAQMD	Clinker production	BAAOMD cond#		I og/ Boom!		NONE TO		
Throughput	Throughput cond # 13900,	not to exceed 1.6	BAAQMD cond #	P/D	Log/ Record		NONE TO		
	part 5	million tons/year	13900, part 6		keeping		REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 61 of 70

		Table - LL S-414 Kiln Dust Additive Bin (6-SS-13) abated by A-414 Dust	T ADDITIVE BII	Tal v (6-SS-13)	Table - LL 13) ABATED BY A-4		COLLECTOR (6-DC-25)	DC-25)	
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer	•	NONE TO REPORT		
Opacity	40 CFR Subpart LLL	. 10%	§63.1350(a)(4)	P/Monthly, semiannually, as annually, as appropriate	Visual inspection (M22)		NONE TO	·	
	§63.1348		\$63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 13982, part 1	Ringelmann 0.5	BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer		NONE TO REPORT		
PM .	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer	·	NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		z			NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 62 of 70 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

		Table - LL S-414 KILN DUST ADDITIVE BIN (6-SS-13) ABATED BY A-414 DUST COLLECTOR (6-DC-25)	ST ADDITIVE BII	Tat v (6-SS-13) /	Table - LL 13) ABATED BY A	114 Dust Co	LLECTOR (6-	DC-25)	
Type of E	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
PMIO con	BAAQMD cond # 13982, part 5	0.01 gr/dscf	BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer		NONE TO REPORT		
Throughput com	BAAQMD cond # 13982, part 4	Cement kiln dust shall not exceed 24,000 tons/year	BAAQMD cond # 13982, part 5	P/Q	Record keeping		NONE TO REPORT	:	

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 63 of 70

							consecutive period		
		KEPORI				21345, part 4	any 12 month	part 4	operation
•		DEBONE O		Record keeping	P/Q	DAAQIND COILG #	2,200 rons during	cond # 21345,	1100115 01
		OUE TOO				BAAOMD cond #	Shall not exceed	BAAQMD	Ligura
							consecutive period	•	
		NEI ONI				21040, part 1	any 12 monut	part 1	
		Tangag		Record keeping	P/Q	71245 mart 1	any 13 month	cond # 21345,	Throughput
		NONE TO			,	BAAOMD cond #	9.900 tons during	BAAQMD	••••
							Shall not exceed		
				manometer		21040, pair 5		part 3	
		REPORT	•	Pressure drop	P/Q	212/5 204 3	0.006 gr/dscf	cond # 21345,	PM10
		NONE TO				RAAOMD cond #		BAAQMD	
							ton/hr		limitation
		REPORT			7		i is process weight,	6-311	
		NONE TO			Z		D is process weight	BAAQMD	· ·
							4.10P ^{0.67} lb/hr, where	;	Process
		REPORT		manometer	1/2		0.10 81/0301	6-310	1 141
		NONE TO		Pressure drop	B/O		n 14 an/deaf	BAAQMD	3
Dec 2012		REPORT		test (M9)	years	300.1017(6)			
NESHAP Test report Nov /		NONE TO	•	Periodic source	P/every 5	863 1340(c)			
					appropriate			863 1348	, P
		REPORT		(M22)	annually, as		10%	Subpart I I I	Opacity
		NONE TO		Visual inspection	semiannually,	863.1350(a)(4)		40 CFR	•
					P/Monthly,		•		
		REPORT		manometer	17.2		Kingennami 130	6-301	Opacity
		NONE TO		Pressure drop	P/O		Ringelmann I O	BAAQMD	Onacity
etc.)		Time)		ı yipe	(P/C/N)	Citation			1/1111
(causes, corrective actions,	Excess	(Date and	Villecten	-	Frequency	Requirement	Emission Limit	Lanission .	1) 500
Comments	A 24 1 2	Period of	8	Monitoring	Monitoring	Monitoring		Finiscion	Type of
20)	OK (0-DC-	USI CULLECTOR (0-DC-20)	Y A-413 DUS	,-43) ABA (ED B	EYOK (0-DC	SOILDING CONV	S-413 FINISH MILL BUILDING CONVEXOR (0-DC-23) ABATED BY A-413 D	3-4	
76	ob (&_DC_;		v A_415 Dire	RC-23) ABATED B	Lab	THE PLANT COME	15 Finish Mili I	2	*****
				7 7 7 7	777				

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 64 of 70

NOV # NOV # NOV #
Comments corrective etc.) A51569 is: arch 15, 20 P Test repu Dec 2012 A51569 is: arch 15, 20

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report Date January 29, 2013 Page 65 of 70

			S-501 S-502	Tab EMERGENC EMERGENC	Table – OO S-501 EMERGENCY DIESEL GENERATOR S-502 EMERGENCY DIESEL GENERATOR	ERATOR ERATOR	Datie I		
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source		Period of Excess (Date and Time)	Period of Excess Actual (Date and Excess Time)
		Ringelmann 2.0 for >							
	BAAQMD	3 minutes in any		≱				NONE TO	NONE TO
Opacity	6-303	hour or equivalent		7				REPORT	REPORT
		Opacity							
PM	BAAQMD 6-310	0.15 gr/dscf		z				NONE TO REPORT	NONE TO REPORT
		Sulfur content of	BAAOMD cond #						
Sulfur	наломп	liquid fuel <u>not to</u>	DYVYCIAID COIM #	p/F	Fuel Certification			NONE TO	NONE TO
content limit	9-1-304	exceed 0.5% by	nari I	Ē	i dei Celanienien			REPORT	REPORT
		weight							
Sulfur	BAAQMD	liquid fuel <u>not to</u>	BAAQMD cond #	D/E	Fuel Cartification			NONE TO	NONE TO
content limit	part 1	exceed 0.05% by	part i	į				REPORT	REPORT
	put i	weight	P	,					

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 66 of 70

,		i	S-503 S-504 S-504	Tal DIESEL PO DIESEL PO -505 DIESEL	S-505 DIESEL PORTABLE COMPRESSOR S-505 DIESEL PORTABLE COMPRESSOR	LESSOR LESSOR			
Type of Limit	Émission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Hours	"Portable Diesel Engine ATCM"	80 hours per year	Section 93116.2(a)(22)	P/Annual	Hours log		NONE TO REPORT		
Opacity	BAAQMD 6-1	Ringelmann 2.0 for > 3 minutes in any hour or equivalent Opacity		Z			NONE TO REPORT		
Replace	"Portable Diesel Engine ATCM"	Replace engine w/in 2 years of Tier 4 availability	Section 93116(b)(1)(B)	Z			NONE TO REPORT		
Operate	"Portable Diesel Engine ATCM"	Op Hour Totalizing meter	Section 93116.4(c)(2)(A)	Z			NONE TO REPORT		
Records	BAAQMD 2 - 6 - 501 "Portable Diesel Engine ATCM"	Hours of operation	Section 93116.4(c)(2)(A)	W/d	Hours / fuel usage log, nature of activity		NONE TO REPORT		

Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Page 67 of 70

Table – QQ S-600 LIMESTONE QUARRY OPERATION

		NEI ON I				#21025(5)		#21025(3)	Osage
		REPORT		Recordkeeping	P/Monthly	#21025(3)	80 hours per year	Cond.	leagn
		NONE TO		:		BAAQMD Cond.		ВЛАОМО	Explosives
		REPORT				#21025(2)	8.11.6VIII.00	6-301	Opavity
		NONE TO			Z	BAAQMD Cond.	Ringelmann I O	BAAQMD	Opacity
		REPORT			2	#21025(1)	LIIISSIOIIS	1-301	ivulsance
•••••		NONE TO			Z	BAAQMD Cond.		BAAQMD	X
etc.)		(Date and Time)		. Jpc	(P/C/N)	Citation		Citation	
(causes, corrective actions	Excess	Excess	Source	Type	Frequency	Requirement	Emission Limit	imit Citation	I imit
Comments	A	Period of	3	Monitoring	Monitoring	Monitoring		Francian	Type of
						=			

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 68 of 70

	S-601 (9-DH-1) LIMESTONE QUARRY HOPPER ABATED BY A4501 WAITER SPRAY SYSTEM	Table RR
1	7	

Type of	Emission		Monitoring	Monitoring	Monitoring	3	Period of		Comments
Limit	Limit Citation	Emission Limit	Requirement	Frequency	Type	Source	Excess	Excess	(causes, corrective actions,
			Citation	(P/C/N)	ı ypc	2001.00	(Date and Time)		etc.)
Onacity	ваармі	Ringelmann 10	BAAQMD cond #	Z			NONE TO		
Opueit	6-301	Kingermann 1.0	23896, part 2	2		•	REPORT		
	40 CFR))		
Opacity	Subpart OOO	10% opacity	N/A	z	z		NONETO		
	§60.672 (b)						KEPOKI		
-	40 CFR								
PM	Subpart OOO	0.022 grains/dscf	N/A	z	Z		NONETO		
	§60.672 (a) (1)						REPORT		
D.	BAAQMD	0 16 0-140-5		1			NONE TO		
1 141	6-310	0.15 gr/dsci		2			REPORT		
Process	BAAOMD	4.10P ^{0,67} lb/hr, where					NO.		
weight	6-311	P is process weight,		z			DEBORT		
limitation		ton/hr					NEFONI		
	Note: (M#) mear	Note: (M#) means 'FPA Test Method #'							

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 69 of 70

	S-606 S	Table - SS S-606 Storage Piles Area #1 abated by A-606 Water Spray System S-607 Storage Piles Area #2 abated by A-607 Water Spray System	Tal AREA #1 AB AREA #2 AB	Table - SS ABATED BY A-600 ABATED BY A-600	5 WATER SPI	RAY SYSTEM RAY SYSTEM		
Emission nit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	A ffected Source	Period of Excess (Date and Time)	Actual Excess	(causes,
3AAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 24274, part 2	С	Water spray system		NONE TO REPORT		
3AAQMD nd # 24274, part 2	Ringelmann 0.5	BAAQMD cond # 24274, part 2	P/I)	Log/Record keeping		NONE TO REPORT	,	
RA A DMD		RAAOMD cond #		Log/Record		NONE TO		

ay Affected Source	Emission Limit Monitoring Requirement Citation Monitoring (P/C/N) Monitoring Type Affected Excess Actual Excess (Date and Excess Time) Period of Excess Actual Excess (Date and Excess Time) Ringelmann 1.0 BAAQMD cond # Ringelmann 0.5 C Water spray Source System NONE TO REPORT Ringelmann 0.5 BAAQMD cond # Affected Citation P/ID Log/Record Report Report NONE TO REPORT 0.15 gr/dsef BAAQMD cond # Affected Citation P/ID Log/Record Report NONE TO REPORT 4.10P ^{0.67} lb/hr, where P is process weight, tom/hr BAAQMD cond # P/ID Log/Record Report NONE TO REPORT Shall abate storage piles as necessary w/ A-606, A-607, BAAQMD cond # A-606, A-607, BAAQMD cond # P/ID NAQMD cond # P/ID Water spray NONE TO REPORT			REPORT	•	system		24274 part 3	respectively to		Water
Emission Emission Limit Emission Limit Monitoring Requirement Monitoring Requency (P/C/N) Monitoring Type Affected Feed Feed (Date and Excess Actual Excess A	Emission Limit Requirement Period of Excess Actual Excess (Date and Excess Source Type Source Time) Ringelmann 1.0 BAAQMD cond # C system NONE TO Affected Excess Actual Excess Source Time) Ringelmann 0.5 BAAQMD cond # P/D Log/Record REPORT REPORT 0.15 gr/dscf 7252, part 6 P/D Log/Record Log/Record REPORT Shall abate storage piles as necessary w/ A-606, A-607. BAAOMD cond # BAAOMD cond # Water spray Water spr						P/D	,	,	cond # 24274.	
Limit Citation Emission Limit Requirement Frequency Type Source Clast	Emission Limit Monitoring Requirement Monitoring Prequency (P/C/N) Monitoring Type Affected Period of Excess (Date and Excess Proposition) Affected (Date and Excess Proposition) Period of Excess Actual Excess (Date and Excess Proposition) Ringelmann 1.0 BAAQMD cond # 24274, part 2 C Water spray System NONE TO REPORT Ringelmann 0.5 BAAQMD cond # 24274, part 2 P/ID Log/Record Record REPORT NONE TO REPORT 0.15 gr/dscf BAAQMD cond # 24274, part 6 P/.D Log/Record Repord REPORT NONE TO REPORT 4.10P ^{0.67} Ib/hr, where Pits sorocess weight, ton/hr BAAQMD cond # 7252, part 6 NONE TO REPORT NONE TO REPORT Shall abate storage piles as necessary w/ N N NONE TO REPORT NONE TO REPORT			NONE TO		Water spray		BAAQMD cond #	A-606, A-607,	CINDOUG	Abate with
Limit Citation Emission Limit Requirement Frequency Type Source Date and Excess Time)	Emission Limit Monitoring Cliation Monitoring Prequency Cliation Monitoring (P/C/N) Monitoring Type Affected Affected Actual Excess Source Excess (Date and Excess Time) Actual Excess Actual Excess Source Affected Cliation (Date and Excess Time) Affected (Date and Excess Time) Affected (Date and Excess Time) Affected (Date and Excess Time) NONE TO REPORT NONE T								piles as necessary w/	BAAOMI	
Limit Citation Limit Requirement Frequency Type Source Time)	Emission Limit Monitoring Citation Monitoring Citation Monitoring Citation Monitoring Citation Monitoring Citation Affected Citation Excess Actual Excess Actual Excess Actual Excess Actual Excess Citation Ringelmann 1.0 BAAQMD cond # Ringelmann 0.5 BAAQMD cond # P/D Log/Record System NONE TO REPORT Ringelmann 0.5 BAAQMD cond # Alop ^{0.67} lb/hr, where Iton/hr BAAQMD cond # P/D Log/Record Repord Report NONE TO REPORT 4.10p ^{0.67} lb/hr, where Iton/hr BAAQMD cond # P/D Log/Record Report NONE TO REPORT NONE TO REPORT 4.10p ^{0.67} lb/hr, where Iton/hr 7252, part 6 NONE TO REPORT NONE TO REPORT										
Emission Limit Citation Limit Requirement Frequency Type Source Date and Excess Excess Excess Excess Citation Citation Citation Citation Citation Citation C System Source C System Source C System Source C System Source C Citation Citation C System Source C Citation C System Source Source C Citation Citation C C C Citation	Emission Limit Monitoring Monitoring Monitoring Emission Limit Requirement Frequency Type Source Clastion (P/C/N) Water spray Source Time) HAAQMD cond # C system Log/Record NONE TO REPORT Ringelmann 0.5 BAAQMD cond # P/D Log/Record keeping Log/Record NONE TO REPORT 0.15 gr/dsef P/S, part 6 P/D Log/Record NONE TO REPORT 1.10p ^{0.67} lb/hr, where Pis process weight, ton/hr NONE TO REPORT NONE TO REPORT NONE TO REPORT NONE TO REPORT NONE TO REPORT NONE TO REPORT NONE TO REPORT								Shall abate storage		
Emission Emission Limit Emission Limit Monitoring Requirement Monitoring Frequency (P/C/N) Monitoring Affected Frequency Type Affected Excess Actual Excess (Date and Excess Time) Actual Excess Actual Excess (Date and Excess Time) BAAQMD 6-301 BAAQMD cond # 24274, part 2 BAAQMD cond # P/D Water spray Water spray System NONE TO REPORT BAAQMD part 2 BAAQMD cond # P/D Log/Record Repord Report NONE TO REPORT BAAQMD 0.15 gr/dscf BAAQMD cond # P/D Log/Record Report NONE TO REPORT BAAQMD P is process weight, 6-310 4.10P0-67 lb/hr, where Process weight, Process weig	Emission Limit Requirement Requirement Prequency Type Source Time) Ringelmann 1.0 24274, part 2 C system Log/Record REPORT BAAQMD cond # P/D Log/Record REPORT 1.10P ^{0.67} lb/hr, where P is process weight, NO ETO Ringelmann NO E TO 1.10g/Record Reping NONE TO REPORT								ton/hr	0.1	
Emission Emission Limit Citation Emission Limit Emission Limit Monitoring Requirement Requirement Monitoring Frequency (P/C/N) Monitoring Type Affected Excess Actual Excess (Date and Excess Time) Actual Excess Actual Excess (Date and Excess Time) BAAQMD cond # Cond # 24274, part 2 BAAQMD cond # P/D Cond # P/D C System NONE TO REPORT BAAQMD cond # P/D G-310 BAAQMD cond # G-310 BAAQMD cond # G-310 BAAQMD cond # AQMD cond # P/D Cond # P/D REPORT Log/Record Report REPORT NONE TO REPORT BAAQMD cond # G-310 ALOP ⁶⁶⁷ lb/hr, where BAAQMD cond # AQMD cond # AQMD cond # AQMD cond # ACTUAL COND REPORT NONE TO REPORT	Emission Limit Requirement Frequency Citation (P/C/N) Ringelmann 1.0 Ringelmann 0.5 Ringelmann 0.5 BAAQMD cond # Ringelmann 0.5 BAAQMD cond # P/D BAAQMD cond # P/D BAAQMD cond # P/D Log/Record keeping Record REPORT Log/Record Report REPORT Log/Record REPORT NONE TO REPORT			REPORT			z		P is process weight,	6-311	FP
Emission Emission Limit Emission Limit Monitoring Requirement Monitoring Requirement Monitoring Frequency Monitoring Type Affected Excess Actual Excess Actual Excess (Date and Excess Time) Actual Excess Actual Excess (Date and Excess Time) BAAQMD BAAQMD cond# cond # 24274, part 2 C Water spray System NONE TO REPORT BAAQMD cond # part 2 BAAQMD cond # part 2 Log/Record Report NONE TO REPORT BAAQMD cond # part 2 BAAQMD cond # P/D Record Gas Ping Log/Record Report NONE TO REPORT BAAQMD cond # Gas Polation Gas Polati	Emission Limit Requirement Requirement (P/C/N) Ringelmann 1.0 Ringelmann 0.5 BAAQMD cond # Ringelmann 0.5 BAAQMD cond # P/D BAAQMD cond # P/D BAAQMD cond # P/D BAAQMD cond # P/D Log/Record Reeping BAAQMD cond # REPORT Log/Record Reping NONE TO REPORT NONE TO REPORT NONE TO REPORT			NONE TO					4.10P ^{0.67} lb/hr, where	BAAOMD	
Emission Emission Limit Emission Limit Limit Citation Emission Limit Emission Limit Limit Citation Monitoring Requirement Emission Limit Citation Monitoring Monitoring Emission Affected Excess Actual Excess Source (Date and Excess Time) Affected Excess Actual Excess Actual Excess Source (Date and Excess Time) BAAQMD Cond# Cond # 24274, part 2 BAAQMD cond # P/D Cond #	Emission Limit Requirement Frequency Citation (P/C/N) Ringelmann 1.0 Ringelmann 0.5 Ringelmann 0.5 BAAQMD cond # Ringelmann 0.5 BAAQMD cond # Ringelmann 0.5 BAAQMD cond # P/D BAAQMD cond # P/D BAAQMD cond # P/D Log/Record Log/Record REPORT Log/Record NONE TO REPORT Log/Record NONE TO REPORT NONE TO REPORT			REPORT		keeping		7252, part 6	6 B., a.o	6-310	
Emission Emission Limit Monitoring Limit Monitoring Requirement Monitoring Frequency (P/C/N) Monitoring Type Monitoring Affected Excess Actual Excess (Date and Excess Time) Actual Excess Actual Excess (Date and Excess Time) BAAQMD BAAQMD cond# cond # 24274, part 2 C Water spray System NONE TO REPORT BAAQMD cond # 24274, part 2 BAAQMD cond # P/D REPORT Log/Record REPORT NONE TO REPORT	Emission Limit Requirement Frequency Citation (P/C/N) Type Source (Date and Excess Actual Excess Ringelmann 1.0 24274, part 2 C System Ringelmann 0.5 24274, part 2 P/D Ringelmann 0.5 24274, part 2 P/D Ringelmann 0.5 24274, part 2 P/D Recepting REPORT REPORT	-		NONE TO		Log/Record	P/D	BAAQMD cond #	0 15 or/deef	ВЛАОМО	PΜ
Emission Limit Citation Emission Limit Limit Citation BAAQMD 6-301 BAAQMD cond # 24274, Ringelmann 0.5 Emission Limit Requirement Requirement Citation Citation (P/C/N) BAAQMD cond # C system NONE TO REPORT	Emission Limit Requirement Requirement (P/C/N) Ringelmann 1.0 Ringelmann 0.5 Ringelmann 0.5 Monitoring Monitoring Affected Excess Actual Excess (Date and Excess Time) Water spray NONE TO System REPORT Log/Record Record REPORT							zazia, paicz		part 2	
Emission Emission Limit Citation BAAQMD BAAQ	Emission Limit Requirement Frequency Citation (P/C/N) Ringelmann 1.0 BAAQMD cond # RAAOMD cond #			REPORT		keeping	P/D	2/27/2 part 2	Ringclmann 0.5	cond # 24274,	Opacity
Emission Emission Limit Citation Emission Limit Requirement Evequency Type Source (Date and Excess Time) BAAQMD Cond # C System Water spray NONE TO System REPORT	Emission Limit Requirement Requirement (P/C/N) Ringelmann 1.0 Monitoring Monitoring Affected Excess Actual Excess Actual Excess Actual Excess Source (Date and Excess Time) Water spray Water spray REPORT		,	NONE TO		Log/Record		BAAOMD cond #		BAAQMD	
Emission Emission Limit Requirement Prequency Type Source Citation BAAQMD BAAQMD cond # BAAQMD cond # BAAQMD cond # BAAQMD cond # Control of Excess Actual Excess Frequency Type Source Time) Period of Excess Actual Excess Source Time) Period of Excess Actual Excess Source Time)	Emission Limit Requirement Frequency Citation (P/C/N) BAAQMD cond # Monitoring Monitoring Affected Excess Actual Source (Date and Excess Time) Water spray Water spray NONE TO			REPORT		system	ď	24274, part 2	Killgeiniann 1.0	6-301	Орасиу
Emission Emission Limit Requirement Frequency Limit Citation Citation (P/C/N) Monitoring Monitoring Affected Excess Actual Excess Period of Excess Actual Frequency Type Source (Date and Excess Time)	Monitoring Monitoring Monitoring Affected Excess Actual Emission Limit Requirement Frequency Citation (P/C/N) Type Source (Date and Excess Time)			NONE TO		Water spray	ט	BAAQMD cond #	Pingalmann 10	BAAQMD	Operativ
Emission Emission Limit Requirement Frequency Type (Date and Excess Actual	Monitoring Monitoring Monitoring Affected Excess Actual Emission Limit Requirement Frequency Type Source (Date and Excess	etc.)		Time)	. 1	ı yıpc	(P/C/N)	Citation		Citation	LIBIN
Emission Monitoring Monitoring Monitoring Affected Excess Actual	Monitoring Monitoring Monitoring Affected Excess Actual	(causes, corrective actions,	Excess	(Date and	Source	Type	Frequency	Requirement	Emission Limit	I imit Citation	- - -
Monitoring Period of Period of	Monitoring Period of	Commence	Actual	Excess	Affected	Monitoring	2		•	Emission	Type of
		Comments		Period of			Monitoring	Monitoring			

Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period July 1, 2012 through December 31, 2012 Report Date January 29, 2013 Page 70 of 70

S-606 STORAGE PILES AREA #1 ABATED BY A-606 WATER SPRAY SYSTEM	Table - SS	
--	------------	--

S-607 STORAGE PILES AREA #2 ABATED BY A-607 WATER SPRAY SYSTEM

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
		Stockpiles product							
		any 12- consecutive							
		month period:							
		S-606 in tpy:							
		Coal \rightarrow 198,400							
	BAAQMD	Coke \rightarrow 171,034	BAAOMD cond#				NONE TO		
Throughput	cond # 24274,	Bauxite → 60,000	24274 Fort 4	P/M	Record keeping		NONE 10		
	part I	Iron Ore \rightarrow 50,000	242/4, part 4				ZET CX I		
		S-607 in tpy:							
		1" agg → 20,000							
		I/4" agg → 200,000							
		$Slag \rightarrow 20,000$							
	22.00								
Z	Las (NAH) moons	Ninta: (N#) magna (EDA Toot Nathard #)							