

Lehigh Southwest Cement Company

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August 31, 2009

Scott Lutz
Bay Area Air Quality Management District - Toxic Evaluation Section
939 Ellis Street
San Francisco, CA 94109

Re: A0017 Submitted 2008 CEIR: AB2588 update – BAAQMD requested addendum

Mr. Scott Lutz:

Per our conversation, please find attached requested AB2588 Addendum including revised tables incorporating the new benzene and mercury data. Included is the following:

- Table S-2: Revised Facility Annual Emissions Summary
- Table S-3: Revised Facility Hourly Emissions Summary
- Table S-4: Revised Prioritization Score Calculations for Facility Emissions
- Table 4B: Revised Kiln TAC Emissions
- UTM – Elevation reading of the facility's dust collector exhaust points.

A fifth table titled HARP Emission Sources is attached to this email. This file was previously sent to BAAQMD showing the emissions of each chemical from each source. This table was not included in the original, submitted CEIR. Please note that there were no changes to the benzene and hexavalent chromium URF / RELs.

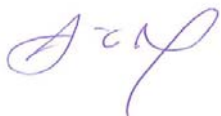
Note that due to the decreased source test results of benzene emissions and increased mercury emissions based on the mass input calculation method, the facility score becomes:

- Cancer score - 5.19 (decreased from 6.91)
- Chronic non-cancer score - 1.771 (increase from 0.941)
- Acute non-cancer score - 0.722 (increase from 0.317).

All three scores are still below 10, thus no further health risk assessment is needed.

Please contact me with any questions or comments.

Thank you,



Scott Renfrew
Environmental Manager
Lehigh Southwest Cement Company – Permanente Plant

Cc Henrik Wesseling LSCC

Addendum to Lehigh Southwest CEIR 2008
8/25/09

Goal: Incorporation of the new benzene and mercury data for the kiln. Updated benzene emission rates were obtained from the 2009 Avogadro Source Test Report. Benzene results were multiplied by 30 to represent total kiln emissions. A mass balance approach for kiln raw materials was used to calculate the mercury input into the kiln. Mercury concentrations for the raw materials were obtained from lab analysis used in the 2008 CEIR.

Summary of Changes,

Parameter	2008 CEIR	2008 CEIR Addendum
Benzene	Value	Value
Cancer URF (ug/m ³) ⁻¹	2.90E-05	2.90E-05
Chronic REL (ug/m ³)	60	60
Acute REL (ug/m ³)	1,300	1,300
Kiln emissions (lb/yr)	21,300	9,650
Facility emissions (lb/yr)	21,300	9,650
Facility emissions (lb/hr)	3.09	1.40
Mercury		
Cancer URF (ug/m ³) ⁻¹	-	-
Chronic REL (ug/m ³)	0.09	0.03
Acute REL (ug/m ³)	1.80	0.6
Kiln emissions (lb/yr)	221	581
Facility emissions (lb/yr)	221	582
Facility emissions (lb/hr)	0.0321	0.0844
Facility cancer score	6.91	5.19
Facility chronic non-cancer score	0.941	1.771
Facility acute non-cancer score	0.317	0.722

Lehigh Southwest Cement Company

*BAAQMD Requested Addendum of
2009 submitted AB2588
Emissions Update
September 1, 2009*

Table 4B revised – Kiln Data

TABLE 4B
REVISED KILN TAC EMISSIONS
 Lehigh Southwest Cement Company
 Cupertino Facility

Pollutant	Group Name	Analyte Method	Hourly Mass Emissions per stack (lb/hr) ¹	Hourly Mass Emissions Total-RM On (lb/hr)	Hourly Mass Emissions Total-RM Off (lb/hr)	Hourly Mass Emissions Total (lb/hr) ⁴	Annual Mass Emissions Total (lb/yr) ⁵
Antimony	Metals	436	3.28E-06	9.40E-05	1.08E-04	9.83E-05	6.78E-01
Arsenic	Metals	436	3.67E-06	1.11E-04	1.08E-04	1.10E-04	7.60E-01
Barium	Metals	436	4.74E-05	1.47E-03	1.32E-03	1.42E-03	9.81E+00
Beryllium	Metals	436	1.84E-06	5.57E-05	5.40E-05	5.52E-05	3.80E-01
Cadmium	Metals	436	1.84E-06	5.57E-05	5.40E-05	5.52E-05	3.80E-01
Chromium (VI)	Metals	436	1.62E-06	4.80E-05	5.04E-05	4.87E-05	3.36E-01
Cobalt	Metals	436	8.47E-06	3.40E-04	5.40E-05	2.54E-04	1.75E+00
Copper	Metals	436	2.05E-05	5.83E-04	6.89E-04	6.15E-04	4.24E+00
Lead	Metals	436	4.28E-06	1.43E-04	9.42E-05	1.28E-04	8.86E-01
Manganese	Metals	436	1.93E-05	6.27E-04	4.67E-04	5.79E-04	3.99E+00
Mercury ⁶	Metals	436	2.81E-03	-	-	8.43E-02	5.81E+02
Molybdenum	Metals	436	6.25E-05	1.83E-03	1.99E-03	1.88E-03	1.29E+01
Nickel	Metals	436	3.15E-05	1.03E-03	7.55E-04	9.46E-04	6.53E+00
Phosphorous	Metals	436	3.56E-04	1.06E-02	1.10E-02	1.07E-02	7.37E+01
Selenium	Metals	436	2.06E-05	5.79E-04	7.04E-04	6.17E-04	4.25E+00
Silver	Metals	436	3.57E-06	5.57E-05	2.27E-04	1.07E-04	7.39E-01
Thallium	Metals	436	2.06E-05	4.50E-04	1.01E-03	6.17E-04	4.25E+00
Total Chromium	Metals	436	2.68E-05	9.55E-04	4.53E-04	8.04E-04	5.55E+00
Vanadium	Metals	436	1.84E-05	5.57E-04	5.40E-04	5.52E-04	3.80E+00
Zinc	Metals	436	2.49E-04	7.56E-03	7.22E-03	7.46E-03	5.14E+01
Naphthalene	PAH's	429	6.70E-04	1.80E-02	2.50E-02	2.01E-02	1.39E+02
2-Methyl naphthalene	PAH's	429	5.47E-04	1.40E-02	2.20E-02	1.64E-02	1.13E+02
Acenaphthylene	PAH's	429	5.57E-06	1.40E-04	2.30E-04	1.67E-04	1.15E+00
Acenaphthene	PAH's	429	8.57E-07	2.90E-05	1.80E-05	2.57E-05	1.77E-01
Fluorene	PAH's	429	7.97E-05	1.70E-03	4.00E-03	2.39E-03	1.65E+01

TABLE 4B
REVISED KILN TAC EMISSIONS
 Lehigh Southwest Cement Company
 Cupertino Facility

Pollutant	Group Name	Analyte Method	Hourly Mass Emissions per stack (lb/hr) ¹	Hourly Mass Emissions Total-RM On (lb/hr)	Hourly Mass Emissions Total-RM Off (lb/hr)	Hourly Mass Emissions Total (lb/hr) ⁴	Annual Mass Emissions Total (lb/yr) ⁵
Phenanthrene	PAH's	429	4.43E-04	1.00E-02	2.10E-02	1.33E-02	9.17E+01
Anthracene	PAH's	429	2.98E-06	7.20E-05	1.30E-04	8.94E-05	6.17E-01
Fluoranthene	PAH's	429	7.60E-06	1.50E-04	4.10E-04	2.28E-04	1.57E+00
Pyrene	PAH's	429	5.67E-06	1.10E-04	3.10E-04	1.70E-04	1.17E+00
Benz[a]anthracene	PAH's	429	6.33E-08	1.90E-06	1.90E-06	1.90E-06	1.31E-02
Chrysene	PAH's	429	1.87E-07	5.00E-06	7.00E-06	5.60E-06	3.86E-02
Benzo[b]fluoranthene	PAH's	429	9.03E-09	2.80E-07	2.50E-07	2.71E-07	1.87E-03
Benzo[k]fluoranthene	PAH's	429	1.42E-09	4.30E-08	4.20E-08	4.27E-08	2.95E-04
Benzo[e]pyrene	PAH's	429	6.63E-09	2.20E-07	1.50E-07	1.99E-07	1.37E-03
Benzo[a]pyrene	PAH's	429	1.42E-09	4.30E-08	4.20E-08	4.27E-08	2.95E-04
Perylene	PAH's	429	1.42E-09	4.30E-08	4.20E-08	4.27E-08	2.95E-04
Indeno[1,2,3-c,d]pyrene	PAH's	429	1.06E-09	3.20E-08	3.10E-08	3.17E-08	2.19E-04
Dibenz[a,h]anthracene	PAH's	429	1.42E-09	4.30E-08	4.20E-08	4.27E-08	2.95E-04
Benzo[g,h,i]perylene	PAH's	429	1.42E-09	4.30E-08	4.20E-08	4.27E-08	2.95E-04
1,2,3,4,6,7,8-HpCDD	PCDD/PCDF	428	4.65E-11	1.21E-09	1.83E-09	1.40E-09	9.63E-06
1,2,3,4,6,7,8-HpCDF	PCDD/PCDF	428	2.26E-11	6.14E-10	8.25E-10	6.77E-10	4.67E-06
1,2,3,4,7,8,9-HpCDF	PCDD/PCDF	428	5.82E-12	1.79E-10	1.64E-10	1.75E-10	1.20E-06
1,2,3,4,7,8-HxCDD	PCDD/PCDF	428	1.30E-11	3.59E-10	4.61E-10	3.90E-10	2.69E-06
1,2,3,4,7,8-HxCDF	PCDD/PCDF	428	1.97E-11	2.68E-10	1.34E-09	5.90E-10	4.07E-06
1,2,3,6,7,8-HxCDD	PCDD/PCDF	428	1.28E-11	3.38E-10	4.93E-10	3.85E-10	2.65E-06
1,2,3,6,7,8-HxCDF	PCDD/PCDF	428	1.84E-11	3.39E-10	1.05E-09	5.52E-10	3.81E-06
1,2,3,7,8,9-HxCDD	PCDD/PCDF	428	1.33E-11	3.50E-10	5.11E-10	3.98E-10	2.75E-06
1,2,3,7,8,9-HxCDF	PCDD/PCDF	428	6.20E-12	1.76E-10	2.09E-10	1.86E-10	1.28E-06
1,2,3,7,8-PeCDD	PCDD/PCDF	428	1.15E-11	3.15E-10	4.11E-10	3.44E-10	2.37E-06
1,2,3,7,8-PeCDF	PCDD/PCDF	428	8.86E-11	1.30E-09	5.83E-09	2.66E-09	1.83E-05

TABLE 4B
REVISED KILN TAC EMISSIONS
 Lehigh Southwest Cement Company
 Cupertino Facility

Pollutant	Group Name	Analyte Method	Hourly Mass Emissions per stack (lb/hr) ¹	Hourly Mass Emissions Total-RM On (lb/hr)	Hourly Mass Emissions Total-RM Off (lb/hr)	Hourly Mass Emissions Total (lb/hr) ⁴	Annual Mass Emissions Total (lb/yr) ⁵
2,3,4,6,7,8-HxCDF	PCDD/PCDF	428	1.13E-11	2.44E-10	5.64E-10	3.40E-10	2.34E-06
2,3,4,7,8-PeCDF	PCDD/PCDF	428	1.33E-10	2.08E-09	8.41E-09	3.98E-09	2.74E-05
2,3,7,8-TCDD	PCDD/PCDF	428	1.13E-11	2.52E-10	5.37E-10	3.38E-10	2.33E-06
2,3,7,8-TCDF	PCDD/PCDF	428	5.57E-10	1.00E-08	3.24E-08	1.67E-08	1.15E-04
HpCDD (Total)	PCDD/PCDF	428	7.30E-11	1.21E-09	4.48E-09	2.19E-09	1.51E-05
HpCDF (Total)	PCDD/PCDF	428	2.30E-11	6.32E-10	8.23E-10	6.89E-10	4.75E-06
HxCDD (Total)	PCDD/PCDF	428	3.24E-10	8.41E-09	1.28E-08	9.73E-09	6.71E-05
HxCDF (Total)	PCDD/PCDF	428	1.13E-10	1.33E-09	8.20E-09	3.39E-09	2.34E-05
OCDD	PCDD/PCDF	428	9.75E-11	2.78E-09	3.26E-09	2.92E-09	2.02E-05
OCDD (Total)	PCDD/PCDF	428	9.75E-11	2.78E-09	3.26E-09	2.92E-09	2.02E-05
OCDF	PCDD/PCDF	428	2.23E-11	7.00E-10	5.95E-10	6.69E-10	4.61E-06
OCDF (Total)	PCDD/PCDF	428	2.23E-11	7.00E-10	5.95E-10	6.69E-10	4.61E-06
PeCDD (Total)	PCDD/PCDF	428	3.47E-10	7.28E-09	1.77E-08	1.04E-08	7.18E-05
PeCDF (Total)	PCDD/PCDF	428	3.39E-09	4.88E-08	2.25E-07	1.02E-07	7.01E-04
TCDD (Total)	PCDD/PCDF	428	9.21E-10	1.62E-08	5.43E-08	2.76E-08	1.91E-04
TCDF (Total)	PCDD/PCDF	428	6.32E-08	9.23E-07	4.17E-06	1.90E-06	1.31E-02
1,1,1-trichloroethane	TAC	TO-14	1.55E-04	4.56E-03	4.85E-03	4.65E-03	3.21E+01
1,1,2,2-tetrachloroethane	TAC	TO-14	1.95E-04	5.74E-03	6.10E-03	5.85E-03	4.03E+01
1,1,2-trichloroethane	TAC	TO-14	2.58E-04	7.60E-03	8.09E-03	7.75E-03	5.34E+01
1,1-dichloroethane	TAC	TO-14	9.58E-05	2.82E-03	3.00E-03	2.87E-03	1.98E+01
1,1-dichloroethylene	TAC	TO-14	1.88E-04	5.53E-03	5.88E-03	5.64E-03	3.89E+01
1,2,4-trichlorobenzene	TAC	TO-14	5.27E-04	1.55E-02	1.65E-02	1.58E-02	1.09E+02
1,2,4-trimethylbenzene	TAC	TO-14	6.65E-03	2.02E-01	1.94E-01	2.00E-01	1.38E+03
1,2-dibromoethane	TAC	TO-14	2.91E-04	8.57E-03	9.11E-03	8.73E-03	6.02E+01
1,2-dichloroethane	TAC	TO-14	1.15E-04	3.38E-03	3.60E-03	3.45E-03	2.38E+01

TABLE 4B
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 Lehigh Southwest Cement Company
 Cupertino Facility

Pollutant	Group Name	Analyte Method	Hourly Mass Emissions per stack (lb/hr) ¹	Hourly Mass Emissions Total-RM On (lb/hr)	Hourly Mass Emissions Total-RM Off (lb/hr)	Hourly Mass Emissions Total (lb/hr) ⁴	Annual Mass Emissions Total (lb/yr) ⁵
1,2-dichloropropane	TAC	TO-14	1.31E-04	3.86E-03	4.11E-03	3.94E-03	2.71E+01
1,3,5-trimethylbenzene	TAC	TO-14	5.48E-03	1.71E-01	1.49E-01	1.64E-01	1.13E+03
1,3-butadiene	TAC	TO-14	4.44E-04	1.49E-02	9.62E-03	1.33E-02	9.18E+01
4-ethyl-toluene	TAC	TO-14	2.08E-03	6.43E-02	5.77E-02	6.23E-02	4.30E+02
Acrolein	TAC	TO-14	2.17E-04	6.39E-03	6.80E-03	6.51E-03	4.49E+01
Benzene ⁷	TAC	TO-14	4.66E-02	1.44E+00	1.30E+00	1.40E+00	9.65E+03
Benzyl chloride	TAC	TO-14	4.89E-04	1.44E-02	1.53E-02	1.47E-02	1.01E+02
c-1,2-dichloroethene	TAC	TO-14	1.88E-04	5.53E-03	5.88E-03	5.64E-03	3.89E+01
c-1,3-dichloropropene	TAC	TO-14	3.22E-04	9.49E-03	1.01E-02	9.67E-03	6.67E+01
Carbon Tetrachloride	TAC	TO-14	2.98E-04	8.77E-03	9.32E-03	8.94E-03	6.16E+01
Chlorobenzene	TAC	TO-14	2.68E-03	7.63E-02	8.98E-02	8.04E-02	5.54E+02
Chloroform	TAC	TO-14	1.39E-04	4.08E-03	4.34E-03	4.16E-03	2.87E+01
Dichloromethane	TAC	TO-14	6.24E-04	1.88E-02	1.85E-02	1.87E-02	1.29E+02
Ethyl Chloride	TAC	TO-14	1.87E-04	5.55E-03	5.77E-03	5.62E-03	3.87E+01
Ethylbenzene	TAC	TO-14	4.64E-03	1.52E-01	1.09E-01	1.39E-01	9.59E+02
Freon 11	TAC	TO-14	1.60E-04	4.70E-03	5.00E-03	4.79E-03	3.30E+01
Freon 113	TAC	TO-14	2.18E-04	6.41E-03	6.81E-03	6.53E-03	4.50E+01
Freon 114	TAC	TO-14	1.98E-04	5.84E-03	6.22E-03	5.95E-03	4.11E+01
Freon 12	TAC	TO-14	1.17E-04	3.45E-03	3.66E-03	3.51E-03	2.42E+01
Hexachlorobutadiene	TAC	TO-14	5.06E-04	1.49E-02	1.58E-02	1.52E-02	1.05E+02
m+p-xylenes	TAC	TO-14	3.36E-02	1.09E+00	8.13E-01	1.01E+00	6.94E+03
m-dichlorobenzene	TAC	TO-14	2.28E-04	6.70E-03	7.13E-03	6.83E-03	4.71E+01
Methyl Bromide	TAC	TO-14	3.02E-03	8.78E-02	9.73E-02	9.07E-02	6.25E+02
Methyl Chloride	TAC	TO-14	5.32E-03	1.45E-01	1.94E-01	1.60E-01	1.10E+03

TABLE 4B
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Pollutant	Group Name	Analyte Method	Hourly Mass Emissions per stack (lb/hr) ¹	Hourly Mass Emissions Total-RM On (lb/hr)	Hourly Mass Emissions Total-RM Off (lb/hr)	Hourly Mass Emissions Total (lb/hr) ⁴	Annual Mass Emissions Total (lb/yr) ⁵
o-dichlorobenzene	TAC	TO-14	2.28E-04	6.70E-03	7.13E-03	6.83E-03	4.71E+01
o-xylene	TAC	TO-14	6.58E-03	2.12E-01	1.63E-01	1.97E-01	1.36E+03
p-dichlorobenzene	TAC	TO-14	2.85E-04	8.38E-03	8.91E-03	8.54E-03	5.89E+01
Perchloroethylene	TAC	TO-14	2.57E-04	7.56E-03	8.04E-03	7.70E-03	5.31E+01
Styrene	TAC	TO-14	1.17E-03	4.45E-02	1.35E-02	3.52E-02	2.43E+02
t-1,3-dichloropropene	TAC	TO-14	2.15E-04	6.32E-03	6.73E-03	6.44E-03	4.44E+01
Toluene	TAC	TO-14	4.18E-02	1.39E+00	9.35E-01	1.25E+00	8.65E+03
Trichloroethene	TAC	TO-14	2.03E-04	5.99E-03	6.37E-03	6.10E-03	4.21E+01
Vinyl Chloride	TAC	TO-14	6.85E-04	1.96E-02	2.28E-02	2.06E-02	1.42E+02
Hydrogen Chloride	Other	421	5.18E-01	1.41E+01	1.89E+01	1.55E+01	1.07E+05
Acetaldehyde	Volatile Organics	430	5.59E-03	1.52E-01	2.04E-01	1.68E-01	1.16E+03
Formaldehyde	Volatile Organics	430	3.05E-04	6.57E-03	1.52E-02	9.15E-03	6.31E+01

Calculation Factors

- 6,897 hours/yr; Kiln operation during 2005 ²
- 30 stacks (total number of stacks)
- 70% percent time raw mill on ³
- 30% percent time raw mill off ³

Notes:

1. Hourly mass emission rates (lb/hr) are obtained from source testing conducted by Delta Air Quality Services, Inc (2002), Avogadro Group, LLC (2008), Carnot (1996), and 2001 source testing and adjusted according to percent of time raw mill on and off
2. Kiln operating hours is obtained from the 2005 NESHAP Report.
3. Percent of time the kiln operated while raw mill was operational from correspondence with Scott Renfrew
4. Hourly Mass Emissions Total = (Hrly Mass Emissions)*(30 stacks)
5. Annual Mass Emissions Total = (Hrly Mass Emissions)*(30 stacks)*(hrs/yr)
6. Mercury yearly emissions based on a mass balance approach. Hourly emissions were back-calculated from yearly value.
7. Benzene data provided from source testing from Avogadro Group, LLC (2009)

Lehigh Southwest Cement Company

*BAAQMD Requested Addendum of
2009 submitted AB2588
Emissions Update
September 1, 2009*

Table S-2 Revised Facility Annual Emission Summary

TABLE S-2
REVISED FACILITY ANNUAL EMISSIONS SUMMARY
 Lehigh Southwest Cement Company
 Cupertino Facility

Pollutant ¹	Chemical Group	Kiln	DC-Cement	DC-Rock	PF-Cement	PF-Crushing and Screening	PF-Rock Plant	Dispensing Facilities	Emergency Diesel Generators	Welding Stationary IC Engines	Unpaved Roads Wind Erosion	Paved/Unpaved Roads Dust Entrainment	Stockpile Wind Erosion	Stockpile Material Handling	Mine MF10 ²	Mine MF24 ³	Total (tons or lbs/yr)
CO	Criteria Pollutant	1155.25							0.07	0.31							1.16E+03
NOx	Criteria Pollutant	1941.51							0.26	0.12							1.94E+03
PM10	Criteria Pollutant	9.79	289.78	3.35	19.65	17.94	9.85				13.02	13.71	4.08	0.59	31.83	8.38	4.22E+02
SOx	Criteria Pollutant	235.53							0.00	0.01							2.36E+02
VOC	Criteria Pollutant	287.88							0.01	0.02							2.88E+02
Diesel PM	PM								9.42	15.32							2.47E+01
Gasoline PM	PM									0.9301							9.30E-01
Antimony	Metals	6.78E-01	1.70E+00	1.68E-02	1.04E-01	8.97E-02	5.04E-02				6.51E-02	6.86E-02	2.13E-02	3.02E-03	1.59E-01	4.19E-02	3.00E+00
Arsenic	Metals	7.60E-01	2.76E+00	8.38E-03	1.87E-01	1.07E-01	2.52E-02				3.25E-02	8.11E-02	1.33E-02	2.05E-03	1.19E-01	4.16E-02	4.14E+00
Barium	Metals	9.81E+00	6.79E+02	5.23E+00	4.96E+01	4.11E+01	1.57E+01				2.60E+01	2.98E+01	5.24E+00	7.08E-01	6.61E+01	1.48E+01	9.43E+02
Beryllium	Metals	3.80E-01	4.62E-01	5.03E-03	2.72E-02	2.69E-02	1.51E-02				1.95E-02	2.06E-02	9.99E-03	9.14E-04	4.77E-02	1.26E-02	1.03E+00
Cadmium	Metals	3.80E-01	9.67E-01	8.38E-03	6.62E-02	5.79E-02	2.52E-02				3.25E-02	3.43E-02	1.10E-02	1.93E-03	7.96E-02	2.09E-02	1.69E+00
Total Chromium	Metals	5.55E+00	2.69E+01	1.61E-01	1.68E+00	1.07E+00	4.84E-01				1.07E+00	1.14E+00	1.91E-01	2.58E-02	1.63E+00	4.08E-01	4.03E+01
Cobalt	Metals	1.75E+00	3.98E+00	4.29E-02	2.26E-01	2.02E-01	1.29E-01				2.55E-01	2.30E-01	4.90E-02	6.62E-03	4.93E-01	1.14E-01	7.48E+00
Copper	Metals	4.24E+00	1.69E+01	9.39E-02	1.26E+00	8.84E-01	2.82E-01				6.42E-01	7.80E-01	1.10E-01	2.08E-02	1.45E+00	3.95E-01	2.71E+01
Lead	Metals	8.86E-01	1.47E+00	8.72E-03	9.56E-02	5.69E-02	2.62E-02				5.99E-02	1.13E-01	1.24E-02	1.74E-03	7.96E-02	2.09E-02	2.83E+00
Manganese	Metals	3.99E+00	--	--	--	--	--				--	--	--	--	--	--	3.99E+00
Mercury	Metals	5.81E+02	2.83E-01	1.34E-03	6.38E-02	9.63E-03	4.03E-03				3.65E-03	4.56E-03	2.39E-03	2.58E-04	1.83E-02	1.91E-06	5.82E+02
Molybdenum	Metals	1.29E+01	4.13E+00	1.68E-02	2.43E-01	1.59E-01	5.04E-02				6.51E-02	1.33E-01	2.32E-02	3.06E-03	1.59E-01	1.68E-05	1.79E+01
Nickel	Metals	6.53E+00	6.19E+01	1.54E-01	2.46E+00	1.21E+00	4.63E-01				1.40E+00	2.37E+00	2.56E-01	3.18E-02	2.56E+00	2.46E-04	7.93E+01
Phosphorous	Metals	7.37E+01	--	--	--	--	--				--	--	--	--	--	--	7.37E+01
Selenium	Metals	4.25E+00	1.54E+00	1.68E-02	9.94E-02	8.97E-02	5.04E-02				6.51E-02	1.45E-02	2.07E-02	2.97E-03	1.59E-01	1.68E-05	6.31E+00
Silver	Metals	7.39E-01	7.70E-01	8.72E-03	4.97E-02	4.57E-02	2.62E-02				3.25E-02	3.43E-02	1.07E-02	1.53E-03	7.96E-02	8.38E-06	1.80E+00
Thallium	Metals	4.25E+00	7.15E+00	8.72E-03	2.64E+00	1.15E-01	2.62E-02				3.25E-02	3.43E-02	1.13E-02	1.65E-03	7.96E-02	8.38E-06	1.43E+01
Vanadium	Metals	3.80E+00	2.24E+02	1.27E-01	1.05E+01	4.07E+00	3.83E-01				2.17E+00	7.01E+00	5.31E-01	9.08E-02	2.81E+00	3.43E-04	2.55E+02
Zinc	Metals	5.14E+01	4.91E+01	1.68E-01	3.74E+00	2.58E+00	5.04E-01				8.85E-01	1.68E+00	2.34E-01	4.64E-02	2.32E+00	3.18E-04	1.13E+02
Chromium (VI)	Metals	3.36E-01	3.59E+00	6.71E-04	1.35E-01	1.06E-02	2.01E-03				4.95E-02	4.49E-02	9.24E-04	1.45E-04	6.37E-03	6.70E-07	4.18E+00
Total Crystalline Silica	Other TAC	--	3.88E+02	2.49E+01	3.17E+01	8.69E+01	7.48E+01				1.85E+02	8.01E+01	2.47E+01	4.11E+00	3.79E+02	3.23E-02	1.28E+03
Naphthalene	PAHs	1.39E+02															1.39E+02
2-Methyl naphthalene	PAHs	1.13E+02															1.13E+02
Acenaphthylene	PAHs	1.15E+00															1.15E+00
Acenaphthene	PAHs	1.77E-01															1.77E-01
Fluorene	PAHs	1.65E+01															1.65E+01
Phenanthrene	PAHs	9.17E+01															9.17E+01
Anthracene	PAHs	6.17E-01															6.17E-01
Fluoranthene	PAHs	1.57E+00															1.57E+00
Pyrene	PAHs	1.17E+00															1.17E+00
Benz[a]anthracene	PAHs	1.31E-02															1.31E-02
Chrysene	PAHs	3.86E-02															3.86E-02
Benzo[b]fluoranthene	PAHs	1.87E-03															1.87E-03
Benzo[k]fluoranthene	PAHs	2.95E-04															2.95E-04
Benzo[e]pyrene	PAHs	1.37E-03															1.37E-03
Benzo[a]pyrene	PAHs	2.95E-04															2.95E-04
Perylene	PAHs	2.95E-04															2.95E-04
Indeno[1,2,3-c,d]pyrene	PAHs	2.19E-04															2.19E-04
Dibenz[a,h]anthracene	PAHs	2.95E-04															2.95E-04
Benzo[g,h,i]perylene	PAHs	2.95E-04															2.95E-04
1,2,3,4,6,7,8-HpCDD	PCDD/PCDF	9.63E-06															9.63E-06
1,2,3,4,6,7,8-HpCDF	PCDD/PCDF	4.67E-06															4.67E-06
1,2,3,4,7,8,9-HpCDF	PCDD/PCDF	1.20E-06															1.20E-06
1,2,3,4,7,8-HxCDD	PCDD/PCDF	2.69E-06															2.69E-06
1,2,3,4,7,8-HxCDF	PCDD/PCDF	4.07E-06															4.07E-06
1,2,3,6,7,8-HxCDD	PCDD/PCDF	2.65E-06															2.65E-06
1,2,3,6,7,8-HxCDF	PCDD/PCDF	3.81E-06															3.81E-06
1,2,3,7,8,9-HxCDD	PCDD/PCDF	2.75E-06															2.75E-06
1,2,3,7,8,9-HxCDF	PCDD/PCDF	1.28E-06															1.28E-06
1,2,3,7,8-PeCDD	PCDD/PCDF	2.37E-06															2.37E-06
1,2,3,7,8-PeCDF	PCDD/PCDF	1.83E-05															1.83E-05
2,3,4,6,7,8-HxCDF	PCDD/PCDF	2.34E-06															2.34E-06
2,3,4,7,8-PeCDF	PCDD/PCDF	2.74E-05															2.74E-05

TABLE S-2
REVISED FACILITY ANNUAL EMISSIONS SUMMARY
 Lehigh Southwest Cement Company
 Cupertino Facility

Pollutant ¹	Chemical Group	Kiln	DC-Cement	DC-Rock	PF-Cement	PF-Crushing and Screening	PF-Rock Plant	Dispensing Facilities	Emergency Diesel Generators	Welding Stationary IC Engines	Unpaved Roads Wind Erosion	Paved/Unpaved Roads Dust Entrainment	Stockpile Wind Erosion	Stockpile Material Handling	Mine MF10 ²	Mine MF24 ³	Total (tons or lbs/yr)
2,3,7,8-TCDD	PCDD/PCDF	2.33E-06															2.33E-06
2,3,7,8-TCDF	PCDD/PCDF	1.15E-04															1.15E-04
HpCDD (Total)	PCDD/PCDF	1.51E-05															1.51E-05
HpCDF (Total)	PCDD/PCDF	4.75E-06															4.75E-06
HxCDD (Total)	PCDD/PCDF	6.71E-05															6.71E-05
HxCDF (Total)	PCDD/PCDF	2.34E-05															2.34E-05
OCDD	PCDD/PCDF	2.02E-05															2.02E-05
OCDF	PCDD/PCDF	4.61E-06															4.61E-06
PeCDD (Total)	PCDD/PCDF	7.18E-05															7.18E-05
PeCDF (Total)	PCDD/PCDF	7.01E-04															7.01E-04
TCDD (Total)	PCDD/PCDF	1.91E-04															1.91E-04
TCDF (Total)	PCDD/PCDF	1.31E-02															1.31E-02
1,1,1-trichloroethane	TAC	3.21E+01															3.21E+01
1,1,2,2-tetrachloroethane	TAC	4.03E+01															4.03E+01
1,1,2-trichloroethane	TAC	5.34E+01															5.34E+01
1,1-dichloroethane	TAC	1.98E+01															1.98E+01
1,1-dichloroethylene	TAC	3.89E+01															3.89E+01
1,2,4-trichlorobenzene	TAC	1.09E+02															1.09E+02
1,2,4-trimethylbenzene	TAC	1.38E+03															1.38E+03
1,2-dibromoethane	TAC	6.02E+01															6.02E+01
1,2-dichloroethane	TAC	2.38E+01															2.38E+01
1,2-dichloropropane	TAC	2.71E+01															2.71E+01
1,3,5-trimethylbenzene	TAC	1.13E+03															1.13E+03
1,3-butadiene	TAC	9.18E+01															9.18E+01
4-ethyl-toluene	TAC	4.30E+02															4.30E+02
Acrolein	TAC	4.49E+01															4.49E+01
Benzene	TAC	9.65E+03						9.24E-03									9.65E+03
Benzyl chloride	TAC	1.01E+02															1.01E+02
c-1,2-dichloroethene	TAC	3.89E+01															3.89E+01
c-1,3-dichloropropene	TAC	6.67E+01															6.67E+01
Carbon Tetrachloride	TAC	6.16E+01															6.16E+01
Chlorobenzene	TAC	5.54E+02															5.54E+02
Chloroform	TAC	2.87E+01															2.87E+01
Dichloromethane	TAC	1.29E+02															1.29E+02
Ethyl Chloride	TAC	3.87E+01															3.87E+01
Ethylbenzene	TAC	9.59E+02															9.59E+02
Freon 11	TAC	3.30E+01															3.30E+01
Freon 113	TAC	4.50E+01															4.50E+01
Freon 114	TAC	4.11E+01															4.11E+01
Freon 12	TAC	2.42E+01															2.42E+01
Hexachlorobutadiene	TAC	1.05E+02															1.05E+02
m+p-xylenes	TAC	6.94E+03						4.06E-05									6.94E+03
m-dichlorobenzene	TAC	4.71E+01															4.71E+01
Methyl Bromide	TAC	6.25E+02															6.25E+02
Methyl Chloride	TAC	1.10E+03															1.10E+03
o-dichlorobenzene	TAC	4.71E+01															4.71E+01
o-xylene	TAC	1.36E+03															1.36E+03
p-dichlorobenzene	TAC	5.89E+01															5.89E+01
Perchloroethylene	TAC	5.31E+01															5.31E+01
Styrene	TAC	2.43E+02															2.43E+02
t-1,3-dichloropropene	TAC	4.44E+01															4.44E+01
Toluene	TAC	8.65E+03						4.13E-02									8.65E+03
Trichloroethene	TAC	4.21E+01															4.21E+01
Vinyl Chloride	TAC	1.42E+02															1.42E+02
Hydrogen Chloride	Other	1.07E+05															1.07E+05
Acetaldehyde	Volatile Organics	1.16E+03															1.16E+03
Formaldehyde	Volatile Organics	6.31E+01															6.31E+01

Notes

1. Criteria Pollutant reported in tons/yr. All other pollutants reported in lbs/yr.
2. MF10 are mine fugitives emissions occurring over 10 hours per day (operating hours)
3. MF24 are mine fugitive emissions occurring 24 hours per day

Lehigh Southwest Cement Company

*BAAQMD Requested Addendum of
2009 submitted AB2588
Emissions Update
September 1, 2009*

Table S-3 Revised Facility Hourly Emission Summary

TABLE S-3
REVISED FACILITY HOURLY EMISSIONS SUMMARY
 Lehigh Southwest Cement Company
 Cupertino Facility

Pollutant	Chemical Group	Kiln	DC-Cement	DC-Rock	PF-Cement	PF-Crushing and Screening	PF-Rock Plant	Dispensing Facilities	Emergency Diesel Generators	Welding Stationary IC Engines	Unpaved Roads Wind Erosion	Paved/Unpaved Roads Dust Entrainment	Stockpile Wind Erosion	Stockpile Material Handling	Mines MF10 ²	Mines MF24 ³	Total (lb/hr) ¹
CO	Criteria Pollutant	335.00							13.31	5.89							3.54E+02
NOx	Criteria Pollutant	563.00							50.11	1.21							6.14E+02
PM10	Criteria Pollutant	2.84	90.57	1.97	16.35	11.66	13.03				10.42	10.97	3.27	0.47	25.47	6.70	1.94E+02
SOx	Criteria Pollutant	68.30							0.02	0.08							6.84E+01
VOC	Criteria Pollutant	83.48							1.41	0.37							8.53E+01
Diesel PM									0.90	0.08							9.73E-01
Gasoline PM										0.0093							9.30E-03
Antimony	Metals	9.83E-05	2.69E-04	4.92E-06	6.38E-05	8.09E-06	3.35E-05				2.73E-06	2.74E-05	8.53E-06	1.21E-06	6.37E-05	1.68E-05	5.98E-04
Arsenic	Metals	1.10E-04	4.34E-04	2.46E-06	1.13E-04	9.69E-06	1.67E-05				1.36E-06	3.24E-05	5.32E-06	8.21E-07	4.77E-05	1.66E-05	7.91E-04
Barium	Metals	1.42E-03	1.05E-01	1.53E-03	3.10E-02	3.70E-03	1.05E-02				1.09E-03	1.19E-02	2.10E-03	2.83E-04	2.64E-02	5.90E-03	2.01E-01
Beryllium	Metals	5.52E-05	7.24E-05	1.48E-06	1.75E-05	2.43E-06	1.00E-05				8.19E-07	8.23E-06	3.99E-06	3.65E-07	1.91E-05	5.03E-06	1.96E-04
Cadmium	Metals	5.52E-05	1.50E-04	2.46E-06	4.15E-05	5.22E-06	1.67E-05				1.36E-06	1.37E-05	4.40E-06	7.74E-07	3.18E-05	8.38E-06	3.31E-04
Total Chromium	Metals	8.04E-04	4.30E-03	4.72E-05	8.92E-04	9.69E-05	3.22E-04				4.48E-05	4.56E-04	7.66E-05	1.03E-05	6.54E-04	1.63E-04	7.87E-03
Cobalt	Metals	2.54E-04	6.37E-04	1.26E-05	1.35E-04	1.82E-05	8.58E-05				1.07E-05	9.21E-05	1.96E-05	2.65E-06	1.97E-04	4.57E-05	1.51E-03
Copper	Metals	6.15E-04	2.62E-03	2.75E-05	7.96E-04	7.98E-05	1.88E-04				2.69E-05	3.12E-04	4.42E-05	8.30E-06	5.81E-04	1.58E-04	5.46E-03
Lead	Metals	1.28E-04	2.35E-04	2.56E-06	4.91E-05	5.13E-06	1.74E-05				2.51E-06	4.54E-05	4.97E-06	6.97E-07	3.18E-05	8.38E-06	5.32E-04
Manganese	Metals	5.79E-04	--	--	--	--	--				--	--	--	--	--	--	5.79E-04
Mercury	Metals	8.43E-02	4.24E-05	3.93E-07	1.45E-05	8.69E-07	2.68E-06				1.53E-07	1.82E-06	9.56E-07	1.03E-07	7.32E-06	1.91E-06	8.44E-02
Molybdenum	Metals	1.88E-03	6.41E-04	4.92E-06	1.44E-04	1.44E-05	3.35E-05				2.73E-06	5.34E-05	9.27E-06	1.22E-06	6.37E-05	1.68E-05	2.86E-03
Nickel	Metals	9.46E-04	9.80E-03	4.53E-05	1.35E-03	1.09E-04	3.08E-04				5.86E-05	9.47E-04	1.02E-04	1.27E-05	1.03E-03	2.46E-04	1.50E-02
Phosphorous	Metals	1.07E-02	--	--	--	--	--				--	--	--	--	--	--	1.07E-02
Selenium	Metals	6.17E-04	2.41E-04	4.92E-06	6.02E-05	8.09E-06	3.35E-05				2.73E-06	5.81E-06	8.29E-06	1.19E-06	6.37E-05	1.68E-05	1.06E-03
Silver	Metals	1.07E-04	1.21E-04	2.56E-06	3.01E-05	4.12E-06	1.74E-05				1.36E-06	1.37E-05	4.27E-06	6.14E-07	3.18E-05	8.38E-06	3.42E-04
Thallium	Metals	6.17E-04	1.06E-03	2.56E-06	4.63E-04	1.04E-05	1.74E-05				1.36E-06	1.37E-05	4.52E-06	6.61E-07	3.18E-05	8.38E-06	2.23E-03
Vanadium	Metals	5.52E-04	3.54E-02	3.74E-05	5.86E-03	3.67E-04	2.55E-04				9.10E-05	2.80E-03	2.13E-04	3.63E-05	1.12E-03	3.43E-04	4.71E-02
Zinc	Metals	7.46E-03	7.51E-03	4.92E-05	2.52E-03	2.33E-04	3.35E-04				3.71E-05	6.71E-04	9.36E-05	1.86E-05	9.27E-04	3.18E-04	2.02E-02
Chromium (VI)	Metals	4.87E-05	5.98E-04	1.97E-07	4.53E-05	9.60E-07	1.34E-06				2.07E-06	1.80E-05	3.69E-07	5.80E-08	2.55E-06	6.70E-07	7.18E-04
Total Crystalline Silica	Other TAC	--	5.79E-02	7.30E-03	2.39E-02	7.84E-03	4.97E-02				7.75E-03	3.20E-02	9.89E-03	1.64E-03	1.51E-01	3.23E-02	3.82E-01
Naphthalene	PAHs	2.01E-02															2.01E-02
2-Methyl naphthalene	PAHs	1.64E-02															1.64E-02
Acenaphthylene	PAHs	1.67E-04															1.67E-04
Acenaphthene	PAHs	2.57E-05															2.57E-05
Fluorene	PAHs	2.39E-03															2.39E-03
Phenanthrene	PAHs	1.33E-02															1.33E-02
Anthracene	PAHs	8.94E-05															8.94E-05
Fluoranthene	PAHs	2.28E-04															2.28E-04
Pyrene	PAHs	1.70E-04															1.70E-04
Benz[a]anthracene	PAHs	1.90E-06															1.90E-06
Chrysene	PAHs	5.60E-06															5.60E-06
Benzo[b]fluoranthene	PAHs	2.71E-07															2.71E-07
Benzo[k]fluoranthene	PAHs	4.27E-08															4.27E-08
Benzo[e]pyrene	PAHs	1.99E-07															1.99E-07
Benzo[a]pyrene	PAHs	4.27E-08															4.27E-08
Perylene	PAHs	4.27E-08															4.27E-08
Indeno[1,2,3-c,d]pyrene	PAHs	3.17E-08															3.17E-08
Dibenz[a,h]anthracene	PAHs	4.27E-08															4.27E-08
Benzo[g,h,i]perylene	PAHs	4.27E-08															4.27E-08
1,2,3,4,6,7,8-HpCDD	PCDD/PCDF	1.40E-09															1.40E-09
1,2,3,4,6,7,8-HpCDF	PCDD/PCDF	6.77E-10															6.77E-10
1,2,3,4,7,8,9-HpCDF	PCDD/PCDF	1.75E-10															1.75E-10
1,2,3,4,7,8-HxCDD	PCDD/PCDF	3.90E-10															3.90E-10
1,2,3,4,7,8-HxCDF	PCDD/PCDF	5.90E-10															5.90E-10
1,2,3,6,7,8-HxCDD	PCDD/PCDF	3.85E-10															3.85E-10
1,2,3,6,7,8-HxCDF	PCDD/PCDF	5.52E-10															5.52E-10
1,2,3,7,8,9-HxCDD	PCDD/PCDF	3.98E-10															3.98E-10
1,2,3,7,8,9-HxCDF	PCDD/PCDF	1.86E-10															1.86E-10
1,2,3,7,8-PeCDD	PCDD/PCDF	3.44E-10															3.44E-10
1,2,3,7,8-PeCDF	PCDD/PCDF	2.66E-09															2.66E-09
2,3,4,6,7,8-HxCDF	PCDD/PCDF	3.40E-10															3.40E-10
2,3,4,7,8-PeCDF	PCDD/PCDF	3.98E-09															3.98E-09
2,3,7,8-TCDD	PCDD/PCDF	3.38E-10															3.38E-10
2,3,7,8-TCDF	PCDD/PCDF	1.67E-08															1.67E-08

TABLE S-3
REVISED FACILITY HOURLY EMISSIONS SUMMARY
 Lehigh Southwest Cement Company
 Cupertino Facility

Pollutant	Chemical Group	Kiln	DC-Cement	DC-Rock	PF-Cement	PF-Crushing and Screening	PF-Rock Plant	Dispensing Facilities	Emergency Diesel Generators	Welding Stationary IC Engines	Unpaved Roads Wind Erosion	Paved/Unpaved Roads Dust Entrainment	Stockpile Wind Erosion	Stockpile Material Handling	Mines MF10 ²	Mines MF24 ³	Total (lb/hr) ¹
HpCDD (Total)	PCDD/PCDF	2.19E-09															2.19E-09
HpCDF (Total)	PCDD/PCDF	6.89E-10															6.89E-10
HxCDD (Total)	PCDD/PCDF	9.73E-09															9.73E-09
HxCDF (Total)	PCDD/PCDF	3.39E-09															3.39E-09
OCDD	PCDD/PCDF	2.92E-09															2.92E-09
OCDF	PCDD/PCDF	6.69E-10															6.69E-10
PeCDD (Total)	PCDD/PCDF	1.04E-08															1.04E-08
PeCDF (Total)	PCDD/PCDF	1.02E-07															1.02E-07
TCDD (Total)	PCDD/PCDF	2.76E-08															2.76E-08
TCDF (Total)	PCDD/PCDF	1.90E-06															1.90E-06
1,1,1-trichloroethane	TAC	4.65E-03															4.65E-03
1,1,2,2-tetrachloroethane	TAC	5.85E-03															5.85E-03
1,1,2-trichloroethane	TAC	7.75E-03															7.75E-03
1,1-dichloroethane	TAC	2.87E-03															2.87E-03
1,1-dichloroethylene	TAC	5.64E-03															5.64E-03
1,2,4-trichlorobenzene	TAC	1.58E-02															1.58E-02
1,2,4-trimethylbenzene	TAC	2.00E-01															2.00E-01
1,2-dibromoethane	TAC	8.73E-03															8.73E-03
1,2-dichloroethane	TAC	3.45E-03															3.45E-03
1,2-dichloropropane	TAC	3.94E-03															3.94E-03
1,3,5-trimethylbenzene	TAC	1.64E-01															1.64E-01
1,3-butadiene	TAC	1.33E-02															1.33E-02
4-ethyl-toluene	TAC	6.23E-02															6.23E-02
Acrolein	TAC	6.51E-03															6.51E-03
Benzene	TAC	1.40E+00						3.70E-06									1.40E+00
Benzyl chloride	TAC	1.47E-02															1.47E-02
c-1,2-dichloroethene	TAC	5.64E-03															5.64E-03
c-1,3-dichloropropene	TAC	9.67E-03															9.67E-03
Carbon Tetrachloride	TAC	8.94E-03															8.94E-03
Chlorobenzene	TAC	8.04E-02															8.04E-02
Chloroform	TAC	4.16E-03															4.16E-03
Dichloromethane	TAC	1.87E-02															1.87E-02
Ethyl Chloride	TAC	5.62E-03															5.62E-03
Ethylbenzene	TAC	1.39E-01															1.39E-01
Freon 11	TAC	4.79E-03															4.79E-03
Freon 113	TAC	6.53E-03															6.53E-03
Freon 114	TAC	5.95E-03															5.95E-03
Freon 12	TAC	3.51E-03															3.51E-03
Hexachlorobutadiene	TAC	1.52E-02															1.52E-02
m+p-xylenes	TAC	1.01E+00						4.06E-05									1.01E+00
m-dichlorobenzene	TAC	6.83E-03															6.83E-03
Methyl Bromide	TAC	9.07E-02															9.07E-02
Methyl Chloride	TAC	1.60E-01															1.60E-01
o-dichlorobenzene	TAC	6.83E-03															6.83E-03
o-xylene	TAC	1.97E-01															1.97E-01
o-dichlorobenzene	TAC	8.54E-03															8.54E-03
Perchloroethylene	TAC	7.70E-03															7.70E-03
Styrene	TAC	3.52E-02															3.52E-02
t-1,3-dichloropropene	TAC	6.44E-03															6.44E-03
Toluene	TAC	1.25E+00						1.65E-05									1.25E+00
Trichloroethene	TAC	6.10E-03															6.10E-03
Vinyl Chloride	TAC	2.06E-02															2.06E-02
Hydrogen Chloride	Other	1.55E+01															1.55E+01
Acetaldehyde	Volatile Organics	1.68E-01															1.68E-01
Formaldehyde	Volatile Organics	9.15E-03															9.15E-03

Notes

1. All pollutants reported in lbs/hr
2. MF10 are mine fugitives emissions occurring over 10 hours per day (operating hours)
3. MF24 are mine fugitive emissions occurring 24 hours per day

Lehigh Southwest Cement Company

*BAAQMD Requested Addendum of
2009 submitted AB2588
Emissions Update
September 1, 2009*

Table S-4 Revised Prioritization Score

TABLE S-4
REVISED PRIORITIZATION SCORE CALCULATIONS FOR FACILITY EMISSIONS ¹
 Lehigh Southwest Cement Company
 Cupertino Facility

CAS	Compound	Emission Rates - 2008 CEIR			Cancer Unit Risk ($\mu\text{g}/\text{m}^3\text{-}1$)	Reference Exposure Level (REL)		Cancer Priority ³	Chronic Noncancer Priority ⁴	Acute Noncancer Priority ⁵
		Annual	Chronic ²	Hourly		Chronic	Acute			
		(lbs/yr)	(lbs/hr)	(lbs/hr)		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)			
83329	Acenaphthene	1.77E-01	2.02E-05	2.57E-05	0	0	0	NA	NA	NA
208968	Acenaphthylene	1.15E+00	1.31E-04	1.67E-04	0	0	0	NA	NA	NA
75070	Acetaldehyde	1.16E+03	1.32E-01	1.68E-01	0.0000027	140	470	1.59E-02	4.25E-04	1.61E-03
107028	Acrolein	4.49E+01	5.13E-03	6.51E-03	0	0.35	2.5	NA	6.59E-03	1.17E-02
120127	Anthracene	6.17E-01	7.04E-05	8.94E-05	0	0	0	NA	NA	NA
7440360	Antimony	3.00E+00	3.43E-04	5.98E-04	0	0	0	NA	NA	NA
7440382	Arsenic	4.14E+00	4.72E-04	7.91E-04	0.0033	0.015	0.2	6.97E-02	1.42E-02	1.78E-02
7440393	Barium	9.43E+02	1.08E-01	2.01E-01	0	0	0	NA	NA	NA
100527	Benzaldehyde	NL	NL	NL	NL	NL	NL	NA	NA	NA
71432	Benzene	9.65E+03	1.10E+00	1.40E+00	0.000029	60	1300	1.43E+00	8.26E-03	4.84E-03
56553	Benzo(a)anthracene	1.31E-02	1.50E-06	1.90E-06	0.00011	0	0	7.35E-06	NA	NA
50328	Benzo(a)pyrene	2.95E-04	3.36E-08	4.27E-08	0.0011	0	0	1.65E-06	NA	NA
205992	Benzo(b)fluoranthene	1.87E-03	2.13E-07	2.71E-07	0.00011	0	0	1.05E-06	NA	NA
192972	Benzo(e)pyrene	1.37E-03	1.57E-07	1.99E-07	0	0	0	NA	NA	NA
191242	Benzo(g,h,i)perylene	2.95E-04	3.36E-08	4.27E-08	0	0	0	NA	NA	NA
207089	Benzo(k)fluoranthene	2.95E-04	3.36E-08	4.27E-08	0.00011	0	0	1.65E-07	NA	NA
100447	Benzyl chloride	1.01E+02	1.16E-02	1.47E-02	0.000049	0	240	2.53E-02	NA	2.75E-04
7440417	Beryllium	1.03E+00	1.17E-04	1.96E-04	0.0024	0.007	0	1.26E-02	7.55E-03	NA
106990	1,3-Butadiene	9.18E+01	1.05E-02	1.33E-02	0.00017	20	0	7.96E-02	2.36E-04	NA
106978	Butane	NL	NL	NL	NL	NL	NL	NA	NA	NA
7440439	Cadmium	1.69E+00	1.92E-04	3.31E-04	0.0042	0.02	0	3.61E-02	4.33E-03	NA
56235	Carbon Tetrachloride	6.16E+01	7.03E-03	8.94E-03	0.000042	40	1900	1.32E-02	7.91E-05	2.12E-05
108907	Chlorobenzene	5.54E+02	6.33E-02	8.04E-02	0	1000	0	NA	2.85E-05	NA
67663	Chloroform	2.87E+01	3.27E-03	4.16E-03	0.0000053	300	150	7.75E-04	4.91E-06	1.25E-04
18540299	Chromium, hexavalent	4.18E+00	4.77E-04	7.18E-04	0.15	0.2	0	3.20E+00	1.07E-03	NA
7440473	Chromium, total	4.03E+01	4.60E-03	7.87E-03	0	0	0	NA	NA	NA
218019	Chrysene	3.86E-02	4.41E-06	5.60E-06	0.000011	0	0	2.17E-06	NA	NA
7440484	Cobalt	7.48E+00	8.54E-04	1.51E-03	0	0	0	NA	NA	NA
7440508	Copper	2.71E+01	3.09E-03	5.46E-03	0	0	100	NA	NA	2.46E-04
1175	Crystalline silica	1.28E+03	1.46E-01	3.82E-01	0	3	0	NA	2.19E-02	NA
2051243	Decachlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
53703	Dibenzo(a,h)anthracene	2.95E-04	3.36E-08	4.27E-08	0.0012	0	0	1.80E-06	NA	NA
106934	1,2-Dibromoethane (EDB)	6.02E+01	6.87E-03	8.73E-03	0.000071	0.8	0	2.18E-02	3.87E-03	NA
95501	1,2-Dichlorobenzene	4.71E+01	5.38E-03	6.83E-03	0	0	0	NA	NA	NA
541731	1,3-Dichlorobenzene	4.71E+01	5.38E-03	6.83E-03	0	0	0	NA	NA	NA
106467	1,4-Dichlorobenzene (p-)	5.89E+01	6.72E-03	8.54E-03	0.000011	800	0	3.30E-03	3.78E-06	NA
25321226	Dichlorobenzene (mixed isomers)	NL	NL	NL	0	0	0	NA	NA	NA
2050682	Dichlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
75343	1,1-Dichloroethane	1.98E+01	2.26E-03	2.87E-03	0.0000016	0	0	1.62E-04	NA	NA

TABLE S-4
REVISED PRIORITIZATION SCORE CALCULATIONS FOR FACILITY EMISSIONS ¹
 Lehigh Southwest Cement Company
 Cupertino Facility

CAS	Compound	Emission Rates - 2008 CEIR			Cancer Unit Risk ($\mu\text{g}/\text{m}^3\text{-}1$)	Reference Exposure Level (REL)		Cancer Priority ³	Chronic Noncancer Priority ⁴	Acute Noncancer Priority ⁵
		Annual	Chronic ²	Hourly		Chronic	Acute			
		(lbs/yr)	(lbs/hr)	(lbs/hr)		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)			
107062	1,2-Dichloroethane	2.38E+01	2.71E-03	3.45E-03	0.000021	400	0	2.55E-03	3.05E-06	NA
540590	c-1,2-Dichloroethene	3.89E+01	4.44E-03	5.64E-03	0	0	0	NA	NA	NA
75354	1,1-Dichloroethylene	3.89E+01	4.44E-03	5.64E-03	0	70	0	NA	2.85E-05	NA
540590	1,2-Dichloroethylene	3.89E+01	4.44E-03	5.64E-03	0	0	0	NA	NA	NA
75718	Dichlorodifluoromethane (Freon 12)	2.42E+01	2.77E-03	3.51E-03	0	0	0	NA	NA	NA
75092	Dichloromethane	1.29E+02	1.47E-02	1.87E-02	0.000001	400	14000	6.58E-04	1.66E-05	6.01E-06
78875	1,2-Dichloropropane	2.71E+01	3.10E-03	3.94E-03	0.000018	0	0	2.49E-03	NA	NA
542756	1,3-Dichloropropene	6.67E+01	7.62E-03	9.67E-03	0.000016	0	0	5.44E-03	NA	NA
542756	c-1,3-Dichloropropene	6.67E+01	7.62E-03	9.67E-03	0.000016	0	0	5.44E-03	NA	NA
542756	t-1,3-Dichloropropene	6.67E+01	7.62E-03	9.67E-03	0.000016	0	0	5.44E-03	NA	NA
76142	Dichlorotetrafluoroethane (Freon 114)	4.11E+01	4.69E-03	5.95E-03	NL	NL	NL	NA	NA	NA
9901	Diesel PM	2.47E+01	2.82E-03	9.73E-01	0.0003	5	0	3.79E-02	2.54E-04	NA
57976	7,12-Dimethylbenz[a]anthracene	NL	NL	NL	0.071	0	0	NA	NA	NA
3268879	1,2,3,4,6,7,8,9-OCDD	2.02E-05	2.30E-09	2.92E-09	0.0038	0.4	0	3.91E-07	2.59E-09	NA
39001020	1,2,3,4,6,7,8,9-OCDF	4.61E-06	5.26E-10	6.69E-10	0.0038	0.4	0	8.94E-08	5.92E-10	NA
35822469	1,2,3,4,6,7,8-HpCDD	9.63E-06	1.10E-09	1.40E-09	0.38	0.004	0	1.87E-05	1.24E-07	NA
67562394	1,2,3,4,6,7,8-HpCDF	4.67E-06	5.33E-10	6.77E-10	0.38	0.004	0	9.05E-06	6.00E-08	NA
55673897	1,2,3,4,7,8,9-HpCDF	1.20E-06	1.37E-10	1.75E-10	0.38	0.004	0	2.33E-06	1.55E-08	NA
39227286	1,2,3,4,7,8-HxCDD	2.69E-06	3.07E-10	3.90E-10	3.8	0.0004	0	5.21E-05	3.45E-07	NA
70648269	1,2,3,4,7,8-HxCDF	4.07E-06	4.64E-10	5.90E-10	3.8	0.0004	0	7.88E-05	5.22E-07	NA
57653857	1,2,3,6,7,8-HxCDD	2.65E-06	3.03E-10	3.85E-10	3.8	0.0004	0	5.14E-05	3.41E-07	NA
57117449	1,2,3,6,7,8-HxCDF	3.81E-06	4.35E-10	5.52E-10	3.8	0.0004	0	7.38E-05	4.89E-07	NA
19408743	1,2,3,7,8,9-HxCDD	2.75E-06	3.14E-10	3.98E-10	3.8	0.0004	0	5.32E-05	3.53E-07	NA
72918219	1,2,3,7,8,9-HxCDF	1.28E-06	1.46E-10	1.86E-10	3.8	0.0004	0	2.48E-05	1.65E-07	NA
40321764	1,2,3,7,8-PeCDD	2.37E-06	2.71E-10	3.44E-10	38	0.00004	0	4.60E-04	3.05E-06	NA
57117416	1,2,3,7,8-PeCDF	1.83E-05	2.09E-09	2.66E-09	1.9	0.0008	0	1.78E-04	1.18E-06	NA
60851345	2,3,4,6,7,8-HxCDF	2.34E-06	2.68E-10	3.40E-10	3.8	0.0004	0	4.54E-05	3.01E-07	NA
57117314	2,3,4,7,8-PeCDF	2.74E-05	3.13E-09	3.98E-09	19	0.00008	0	2.66E-03	1.76E-05	NA
1746016	2,3,7,8-TCDD	2.33E-06	2.66E-10	3.38E-10	38	0.00004	0	4.51E-04	2.99E-06	NA
51207319	2,3,7,8-TCDF	1.15E-04	1.32E-08	1.67E-08	3.8	0.0004	0	2.23E-03	1.48E-05	NA
37871004	HpCDD (Total)	1.51E-05	1.73E-09	2.19E-09	0	0	0	NA	NA	NA
38998753	HpCDF (Total)	4.75E-06	5.43E-10	6.89E-10	0	0	0	NA	NA	NA
34465468	HxCDD (Total)	6.71E-05	7.66E-09	9.73E-09	0	0	0	NA	NA	NA
55684941	HxCDF (Total)	2.34E-05	2.67E-09	3.39E-09	0	0	0	NA	NA	NA
36088229	PeCDD (Total)	7.18E-05	8.19E-09	1.04E-08	0	0	0	NA	NA	NA
30402154	PeCDF (Total)	7.01E-04	8.00E-08	1.02E-07	0	0	0	NA	NA	NA
41903575	TCDD (Total)	1.91E-04	2.18E-08	2.76E-08	0	0	0	NA	NA	NA
55722275	TCDF (Total)	1.31E-02	1.49E-06	1.90E-06	0	0	0	NA	NA	NA

TABLE S-4
REVISED PRIORITIZATION SCORE CALCULATIONS FOR FACILITY EMISSIONS ¹
 Lehigh Southwest Cement Company
 Cupertino Facility

CAS	Compound	Emission Rates - 2008 CEIR			Cancer Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference Exposure Level (REL)		Cancer Priority ³	Chronic Noncancer Priority ⁴	Acute Noncancer Priority ⁵
		Annual	Chronic ²	Hourly		Chronic	Acute			
		(lbs/yr)	(lbs/hr)	(lbs/hr)		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)			
74840	Ethane	NL	NL	NL	NL	NL	NL	NA	NA	NA
100414	Ethylbenzene	9.59E+02	1.10E-01	1.39E-01	0.0000025	2000	0	1.22E-02	2.46E-05	NA
75003	Ethyl chloride	3.87E+01	4.42E-03	5.62E-03	0	30000	0	NA	6.63E-08	NA
622968	4-Ethyltoluene	4.30E+02	4.91E-02	6.23E-02	NL	NL	NL	NA	NA	NA
206440	Fluoranthene	1.57E+00	1.80E-04	2.28E-04	0	0	0	NA	NA	NA
86737	Fluorene	1.65E+01	1.88E-03	2.39E-03	0	0	0	NA	NA	NA
50000	Formaldehyde	6.31E+01	7.20E-03	9.15E-03	0.000006	9	55	1.93E-03	3.60E-04	7.48E-04
9910	Gasoline PM	9.30E-01	1.06E-04	9.30E-03	0	0	0	NA	NA	NA
28655712	Heptachlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
26601649	Hexachlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
87683	Hexachlorobutadiene	1.05E+02	1.19E-02	1.52E-02	0	0	0	NA	NA	NA
110543	Hexane	NL	NL	NL	0	7000	0	NA	NA	NA
7647010	Hydrogen chloride	1.07E+05	1.22E+01	1.55E+01	0	9	2100	NA	6.12E-01	3.33E-02
193395	Indeno(1,2,3-c,d)pyrene	2.19E-04	2.50E-08	3.17E-08	0.00011	0	0	1.23E-07	NA	NA
7439921	Lead	2.83E+00	3.23E-04	5.32E-04	0.000012	0	0	1.73E-04	NA	NA
7439965	Manganese	3.99E+00	4.56E-04	5.79E-04	0	0.09	0	NA	2.28E-03	NA
7439976	Mercury	5.82E+02	6.64E-02	8.44E-02	0	0.03	0.6	NA	9.96E-01	6.33E-01
74839	Methyl Bromide	6.25E+02	7.14E-02	9.07E-02	0	5	3900	NA	6.42E-03	1.05E-04
74873	Methyl Chloride	1.10E+03	1.26E-01	1.60E-01	0	0	0	NA	NA	NA
56495	3-Methylchloroanthrene	NL	NL	NL	0.0063	0	0	NA	NA	NA
91576	2-Methylnaphthalene	1.13E+02	1.29E-02	1.64E-02	0	0	0	NA	NA	NA
1634044	MTBE	NL	NL	NL	0.00000026	8000	0	NA	NA	NA
7439987	Molybdenum	1.79E+01	2.05E-03	2.86E-03	NL	NL	NL	NA	NA	NA
27323188	Monochlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
91203	Naphthalene	1.39E+02	1.58E-02	2.01E-02	0.000034	9	0	2.40E-02	7.91E-04	NA
7440020	Nickel	7.93E+01	9.06E-03	1.50E-02	0.00026	0.05	6	1.05E-01	8.15E-02	1.12E-02
53742077	Nonachlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
55722264	Octachlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
25429292	Pentachlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
109660	Pentane	NL	NL	NL	NL	NL	NL	NA	NA	NA
127184	Perchloroethylene	5.31E+01	6.07E-03	7.70E-03	0.0000059	35	20000	1.60E-03	7.80E-05	1.73E-06
198550	Perylene	2.95E-04	3.36E-08	4.27E-08	0	0	0	NA	NA	NA
85018	Phenanthrene	9.17E+01	1.05E-02	1.33E-02	0	0	0	NA	NA	NA
7723140	Phosphorus	7.37E+01	8.41E-03	1.07E-02	0	0	0	NA	NA	NA
1336363	Polychlorinated biphenyls	NL	NL	NL	0.00057	0	0	NA	NA	NA
74986	Propane	NL	NL	NL	NL	NL	NL	NA	NA	NA
129000	Pyrene	1.17E+00	1.34E-04	1.70E-04	0	0	0	NA	NA	NA
7782492	Selenium	6.31E+00	7.21E-04	1.06E-03	0	20	0	NA	1.62E-05	NA
7440224	Silver	1.80E+00	2.05E-04	3.42E-04	0	0	0	NA	NA	NA

TABLE S-4
REVISED PRIORITIZATION SCORE CALCULATIONS FOR FACILITY EMISSIONS ¹
 Lehigh Southwest Cement Company
 Cupertino Facility

CAS	Compound	Emission Rates - 2008 CEIR			Cancer Unit Risk ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference Exposure Level (REL)		Cancer Priority ³	Chronic Noncancer Priority ⁴	Acute Noncancer Priority ⁵
		Annual	Chronic ²	Hourly		Chronic	Acute			
		(lbs/yr)	(lbs/hr)	(lbs/hr)		($\mu\text{g}/\text{m}^3$)	($\mu\text{g}/\text{m}^3$)			
100425	Styrene	2.43E+02	2.77E-02	3.52E-02	0	900	21000	NA	1.39E-05	7.54E-06
26914330	Tetrachlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
79345	1,1,2,2-Tetrachloroethane	4.03E+01	4.60E-03	5.85E-03	0.000058	0	0	1.19E-02	NA	NA
7440280	Thallium	1.43E+01	1.64E-03	2.23E-03	0	0	0	NA	NA	NA
108883	Toluene	8.65E+03	9.87E-01	1.25E+00	0	300	37000	NA	1.48E-03	1.52E-04
87616	1,2,3-Trichlorobenzene	NL	NL	NL	NL	NL	NL	NA	NA	NA
120821	1,2,4-Trichlorobenzene	1.09E+02	1.24E-02	1.58E-02	0	0	0	NA	NA	NA
25323686	Trichlorobiphenyl	NL	NL	NL	NL	NL	NL	NA	NA	NA
71556	1,1,1-Trichloroethane	3.21E+01	3.66E-03	4.65E-03	0	1000	68000	NA	1.65E-06	3.08E-07
79005	1,1,2-Trichloroethane	5.34E+01	6.10E-03	7.75E-03	0.000016	0	0	4.36E-03	NA	NA
79016	Trichloroethene	4.21E+01	4.81E-03	6.10E-03	0.000002	600	0	4.29E-04	3.60E-06	NA
76131	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	4.50E+01	5.14E-03	6.53E-03	0	0	0	NA	NA	NA
75694	Trichlorofluoromethane (Freon 11)	3.30E+01	3.77E-03	4.79E-03	0	0	0	NA	NA	NA
95636	1,2,4-Trimethylbenzene	1.38E+03	1.57E-01	2.00E-01	0	0	0	NA	NA	NA
25551137	1,3,5-Trimethylbenzene	1.13E+03	1.29E-01	NL	0	0	0	NA	NA	NA
7440622	Vanadium	2.55E+02	2.91E-02	4.71E-02	0	0	30	NA	NA	7.06E-03
75014	Vinyl Chloride	1.42E+02	1.62E-02	2.06E-02	0.000078	0	180000	5.64E-02	NA	5.14E-07
108383	m-Xylene	NL	NL	NL	0	700	22000	NA	NA	NA
95476	o-Xylene	1.36E+03	1.55E-01	1.97E-01	0	700	22000	NA	9.99E-05	4.04E-05
1330207	Xylene	6.94E+03	7.93E-01	1.01E+00	0	700	22000	NA	5.10E-04	2.06E-04
7440666	Zinc	1.13E+02	1.29E-02	2.02E-02	0	0	0	NA	NA	NA
TOTAL PRIORITIZATION SCORE								5.19	1.771	0.722

Parameter	Symbol	Value	Description
Receptor Proximity Adjustment Factor	RP	0.003	receptor ~ 1200 m
Cancer normalization factor	NFca	1,700	constant
Chronic normalization factor	NFcmc	150	constant
Acute normalization factor	NFanc	1,500	constant

Notes:

¹ Facility scored according to CAPCOA Facility Prioritization Guidelines, July 1990, AB2588 Risk Assessment Committee of the California Air Pollution Control Officers Association (CAPCOA); Emissions and Potency Procedure.

² Annual emission rates (lbs/yr) converted to lbs/hr by dividing by 8760 hrs/yr (365 days/yr x 24 hr/day).

³ Cancer Priority = Annual Emission Rate (lbs/yr) x Cancer Unit Risk ($\mu\text{g}/\text{m}^3$)⁻¹ x RP x NFca

⁴ Chronic Non-cancer Priority = Chronic Emission Rate (lbs/hr) / Chronic REL ($\mu\text{g}/\text{m}^3$) x RP x NFcmc

⁵ Acute Non-cancer Priority = Hourly Emission Rate (lbs/hr) / Acute REL ($\mu\text{g}/\text{m}^3$) x RP x NFanc

NA = not applicable

NL = Not listed as an air toxic requiring quantification of emissions

"0" = Toxicity criteria is not available

Lehigh Southwest Cement Company

*BAAQMD Requested Addendum of
2009 submitted AB2588
Emissions Update
September 1, 2009*

Dust Collector UTM – Elevation – Coordinates

Lehigh Southwest Cement Company

BAAQMD Requested Addendum of 2009 submitted AB2588 Emissions Update September 1, 2009

Dust Collector_ID	Northing	Easting	Elevation (meters)	Notes	Elev Ft	Date	Surveyor
1-DC-1	19297207.79	17923261.86	177.7		592.11	8/17/2009	EN/MEG
1-DC-2	19296743.11	17923826.56	172.9		576.45	8/17/2009	EN/MEG
1-DC-5	19296711.83	17923693.04	178.8		595.77	8/17/2009	EN/MEG
1-DC-4	19296593.83	17922835.54	221.4		735.71	8/17/2009	EN/MEG
3-DC-4	19296579.72	17922886.09	231.6		769.22	8/17/2009	EN/MEG
3-DC-5	19296594.27	17922879.13	231.6		769.22	8/17/2009	EN/MEG
3-DC-1	19296197.2	17922808.98	236.9		786.64	8/17/2009	EN/MEG
2-DC-3	19295639.12	17922291.45	228.6		759.34	8/17/2009	EN/MEG
2-DC-2	19295189.11	17921425.06	272.2		902.14	8/17/2009	EN/MEG
2-DC-1	19295466.48	17921375.09	279.8		927.17	8/17/2009	EN/MEG
3-DC-2				Inside the Dome, no satellite reception		8/17/2009	EN/MEG
3-DC-3				Inside the Dome, no satellite reception		8/17/2009	EN/MEG
1-DC-3				Near F Tower, area closed		8/17/2009	EN/MEG
4-CD3				Inside the Building, no satellite reception		8/19/2009	EN/STEVE M.
4-DC- 7 THRU 38	19296535.17	17922830.14	224.3		745.17	8/19/2009	EN/STEVE M.
5-DC-1				Poor PDOP 2 Satellites		8/19/2009	EN/STEVE M.
5-DC-11 THRU 20	19297155.78	17922677.99	205.4		683.21	8/19/2009	EN/STEVE M.
5-DC-27	19296970.8	17922511.81	238.5		791.62	8/19/2009	EN/STEVE M.
5-DC-23	19297323.55	17922562.99	180.6		601.9	8/19/2009	EN/STEVE M.
5-DC-30 (1-4)	19297356.37	17922691.11	192.5		640.66	8/19/2009	EN/STEVE M.
5-DC-28	19296612.68	17921896.16	218.7		726.91	8/19/2009	EN/STEVE M.
5-DC-24	19297209.32	179225996.9	232.2		771.17	8/19/2009	EN/STEVE M.
5-DC-25	19297065.25	17922622.5	233.1		774.04	8/19/2009	EN/STEVE M.
5-DC-26				No Longer in use		8/19/2009	EN/STEVE M.
5-DC-29				No Longer in use		8/19/2009	EN/STEVE M.
7P-DC-1				Stacks are on the roof and not accessible		8/19/2009	EN/STEVE M.
7P-DC-1				Stacks are on the roof and not accessible		8/19/2009	EN/STEVE M.
7-DC-14 thru 18				Stacks are on the roof and not accessible		8/19/2009	EN/STEVE M.
7-DC-9	19297313.59	17922032.27	181.0		603.08	8/19/2009	EN/STEVE M.
7-DC-8	19297251.95	17922136.67	204.3		679.41	8/19/2009	EN/STEVE M.
7-DC-7				Poor PDOP 0 Satellites		8/19/2009	EN/STEVE M.
7-DC-10A	19297278.89	17922190.16	212.2		705.38	8/19/2009	EN/STEVE M.
7-DC-10B	19297262.52	17922230.92	198.4		660.04	8/19/2009	EN/STEVE M.
7-DC-11	19297247.93	17922307.48	198.2		659.49	8/19/2009	EN/STEVE M.
6-DC-17	19296559.92	17921226.24	192.3		640.28	8/19/2009	EN/STEVE M.

Lehigh Southwest Cement Company

BAAQMD Requested Addendum of 2009 submitted AB2588 Emissions Update September 1, 2009

Dust Collector_ID	Northing	Easting	Elevation (meters)	Notes	Elev Ft	Date	Surveyor
6-DC-7	19296577.84	17921135.16	226.5		752.27	8/19/2009	EN/STEVE M.
6-DC-5	19296679.12	17921182.13	228.7		759.46	8/19/2009	EN/STEVE M.
6-DC-4	19296679.12	17921182.13	228.7		759.46	8/19/2009	EN/STEVE M.
6-DC-9	1926679.12	17921182.13	228.7		759.46	8/19/2009	EN/STEVE M.
6-DC-8				Poor PDOP 0 Satellites		8/19/2009	EN/STEVE M.
6-DC-6				Poor PDOP 0 Satellites		8/19/2009	EN/STEVE M.
6-DC-11				Poor PDOP 0 Satellites		8/19/2009	EN/STEVE M.
6-DC-13				Poor PDOP 0 Satellites		8/19/2009	EN/STEVE M.
6-DC-21	19296599.75	17921133.23	229.8		763.12	8/19/2009	EN/STEVE M.
6-DC-21	19296651.11	17921105.29	229.3		761.71	8/19/2009	EN/STEVE M.
6-DC-3	19296571.25	17921212.14	222.2		738.1	8/19/2009	EN/STEVE M.
6-DC-45 & 46	19297043.75	17921484.36	225.9		750.52	8/20/2009	EN/STEVE M.
6-DC-47 & 48	19297010.65	17921513.02	225.9		750.52	8/20/2009	EN/STEVE M.
6-DC-49	19296970.6	17921588.4	220.2		731.66	8/20/2009	EN/STEVE M.
6-DC-19	19296898.05	17921283.5	219.3		728.75	8/20/2009	EN/STEVE M.
6-DC-12,14,16,18	19296851.59	17921339.37	230.6		765.73	8/20/2009	EN/STEVE M.
6-DC-1				Poor PDOP 0 Satellites		8/20/2009	EN/STEVE M.
6-DC-25	19296809.01	17921202.79	221.0		734.34	8/20/2009	EN/STEVE M.

Not Accessible

3-DC-2				Inside the Dome, no satellite reception
3-DC-3				Inside the Dome, no satellite reception
1-DC-3				Near F Tower, area closed
4-CD3				Inside the Building, no satellite reception
5-DC-1				Poor PDOP 2 Satellites
6-DC-8				Poor PDOP 0 Satellites
6-DC-6				Poor PDOP 0 Satellites
6-DC-11				Poor PDOP 0 Satellites
6-DC-13				Poor PDOP 0 Satellites
6-DC-1				Poor PDOP 0 Satellites