## Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 1 of 71 Lehigh Southwest Cement Company - Permanente Plant

|                      |                                  |   | S-1 G/                              | Tab                          | Table - A<br>S-1 Gasoline Dispensing Station  | ATION                                   |                                  |                  |   |
|----------------------|----------------------------------|---|-------------------------------------|------------------------------|---|---|----------------------------------|------------------|---|
| Type of<br>Limit     | Emission Limit Citation          | Emission Limit  | Monitoring Requirement Citation     | Monitoring Frequency (P/C/N) | Monitoring<br>Type  | Affected<br>Source                      | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.) |
| Throughput           | BAAQMD<br>cond # 7523,<br>part 1 | Gasoline Dispensing throughput not to exceed 400,000 gallons/year   | BAAQMD<br>8-7-503.1 &<br>8-7-503.2  | P/M                          | Record<br>keeping   |   | NONE TO<br>REPORT                |                  |   |
| Exempt<br>Throughput | BAAQMD<br>8-7-114                | Maximum amount exempt from Phase 1 is: 1000 gallons per facility for tank integrity leak checking   | BAAQMD<br>8-7-501 and<br>8-7-503.2  | РÆ                           | Records   |   | NONE TO<br>REPORT                |                  |   |
| Organic<br>Compounds | BAAQMD<br>8-7-301.6              | All Phase I Equipment (except components with allowable leak rates) shall be leak free (≤3 drops/minute) and vapor tight  | BAAQMD<br>8-7-301.13 and<br>8-7-407 | P/A                          | Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System                      |   | NONE TO<br>REPORT                |                  |   |
| Organic<br>Compounds | BAAQMD<br>8-7-302.5              | All Phase II Equipment (except components with allowable leak rates or at the nozzle/fill-pipe interface) Shall Be: leak free (<3 drops/minute) and vapor tight | BAAQMD<br>8-7-301.13 and<br>8-7-407 | P/A                          | Annual Check<br>for Vapor<br>Tightness and<br>Proper<br>Operation of<br>Vapor<br>Recovery<br>System | ~ | NONE TO<br>REPORT                |                  |   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 2 of 71

## Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 3 of 71 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

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

|   | REPORT          |          | monitoring      |                      | BAAQMD cond      | 9                                    | 16109, part       |                |
|---|-----------------|----------|-----------------|----------------------|------------------|--------------------------------------|-------------------|----------------|
|   | NONE TO         |          | Pressure drop   | P/O                  | # 16109, part 2  | 0.006 gr/dscf                        | cond#             | PMI0           |
|   |                 |          |                 |                      | BAAQMD cond      |                                      | BAAQMD            |                |
|   | REPORT          |          |                 | 2                    |                  | is process weight, ton/hr            | 6-311             | limit          |
|   | NONE TO         |          |                 | <i>y</i> .           |                  | 4.10P <sup>0 57</sup> lb/hr, where P | BAAQMD            | Process weight |
|   |                 |          |                 |                      | # 20751, part 3b |                                      |                   |                |
|   | REPORT          |          | monitoring      | Ž                    | BAAQMD cond      | 0                                    | 6-310             |                |
|   | NONE TO         |          | Pressure drop   | Ρ/Ο                  | # 16109, part 2  | 0.15 or/dscf                         | BAAQMD            | PM             |
|   |                 |          |                 |                      | BAAQMD cond      |                                      |                   |                |
|   | REPORT          | Address  | test (M9)       | years                | 300.00           |                                      |                   |                |
|   | NONE TO         |          | Periodic source | P/every 5            | 863 1349(c)      |                                      | 3000              |                |
|   |                 |          |                 | appropriate          |                  | <del> </del>                         | 863 1348          |                |
|   | NEI ON I        |          | (M22)           | as<br>as             |                  | 10%                                  | I I I             | Opacity        |
| *********                               | LaOasa          |          | inspection      | y, annually,         | §63.1350(a) (4)  |                                      | Subpart           |                |
| *************************************** | NONE TO         |          | Visual          | semiannuall          |                  |                                      | 40 CFR            |                |
| •                                       |                 |          |                 | P/Monthly,           |                  |                                      |                   |                |
| ļ                                       |                 |          |                 |                      | # 20751, part 3b |                                      |                   |                |
|   | REPORT          |          | monitoring      | -<br>Ž               | BAAQMD cond      | opacity                              | 16109. part       | 100            |
| ~~~~                                    | NONE TO         |          | Pressure drop   | p<br>()(a            | # 16109, part 2  | Ringelmann 0.5 or 10%                | cond#             | Opacity        |
| ***********                             |                 |          |                 |                      | BAAQMD cond      |                                      | BAAQMD            |                |
|   | REPORT          |          | monitoring      |                      | # 16109, part 2  | Stringer 1.0                         | 6-301             | (spands)       |
|   | NONE TO         |          | Pressure drop   | D/O                  | BAAQMD cond      | Ringelmann I O                       | BAAQMD            | Opacity        |
| Excess                                  | (Date and Time) | Source   | Type            | (P/C/N)              | Citation         |                                      | Citation          |                |
| Actual                                  | Period of       | Affected | Monitoring      | Monitoring Frequency | Monitoring       | Emission Limit                       | Emission<br>Limit | Type of Limit  |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date July 2012 Page 4 of 71

### S-17 CLINKER TRANSFER AREA ABATED BY A-436 DUST COLLECTOR (6-DC-49) Table - B

| Throughput                                    | Type of Limit                                     |
|---|---|
| BAAQMD<br>cond#<br>16109, part<br>5           | Emission<br>Limit<br>Citation                     |
| Cement loads not to exceed 70,000 trucks/year | Emission Limit                                    |
| BAAQMD cond<br># 16109, part 6                | Monitoring<br>Requirement<br>Citation             |
| P/M   | Monitoring<br>Frequency<br>(P/C/N)                |
| Log/ Record<br>keeping                        | Monitoring<br>Type                                |
|   | Affected<br>Source                                |
| NONE TO<br>REPORT                             | Period of<br>Excess<br>(Date and Time)            |
| :   | Actual<br>Excess                                  |
|   | Comments<br>(causes, corrective<br>actions, etc.) |

## Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 5 of 71 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

| 54) Dust            | S-19 CLINKER STORAGE AREA ABATED BY A-10 (6-DC-45-48), A-447 (6-DC-51), A-448 (6- | Ta        |
|---------------------|---|-----------|
| 54) DUST COLLECTORS | 447 (6-DC-51), A-448 (6-DC-52), A-449 (6-DC-53), AND A-450 (6-DC-                 | Table - C |
|                     | 3), AND A-450 (6-DC-  |           |

|   |                  | NONE TO<br>REPORT                |  | Pressure drop<br>monitoring                                | P/Q  | BAAQMD cond<br># 18475, part 2 &<br>4<br>BAAQMD cond<br># 20751, part 3b  | 0.15 gr/dscf   | BAAQMD<br>6-310                      | PM               |
|---|------------------|----------------------------------|--|--|--|---|--|--------------------------------------|------------------|
| NESHAP Test report                          |                  | NONE TO REPORT  NONE TO REPORT   |  | Visual inspection (M22)  Periodic source test (M9)         | P/Monthly,<br>semiannuall<br>y, annually,<br>as<br>appropriate<br>P/every 5<br>years | §63.1350(a) (4)<br>§63.1349(c)  | 10%  | 40 CFR<br>Subpart<br>LLL<br>§63.1348 | Opacity          |
|   |                  | NONE TO<br>REPORT                |  | Pressure drop<br>monitoring                                | Р/Q  | BAAQMD cond<br># 18475, parts 2<br>& 4<br>BAAQMD cond<br># 20751, part 3b | Ringelmann 0.5 or 10%<br>opacity   | BAAQMD cond # 18475, part 5          | Opacity          |
|   |                  | NONE TO<br>REPORT                | ************************************** | Visual inspection (M22)                                    | P/Q  | BAAQMD cond<br># 20753, part 1<br>for A-10                                | Ringelmann I.0   | BAAQMD<br>6-301                      | Opacity          |
|   |                  | NONE TO<br>REPORT                |  | Pressure drop  | P/Q  | BAAQMD cond<br># 18475, parts 2<br>& 4                                    | Ringelmann 1.0   | BAAQMD<br>6-301                      | Opacity          |
| Comments (causes, corrective actions, etc.) | Actual<br>Excess | Period of Excess (Date and Time) | Affected<br>Source                     | Monitoring<br>Type   | Monitoring Frequency (P/C/N)   | Monitoring<br>Requirement<br>Citation                                     | Emission Limit   | Emission<br>Limit<br>Citation        | Type of<br>Limit |
| DC-52), A-449 (6-DC-53), AND A-450 (6-DC-   | (6-DC-53),       | DC-52), A-449                    | ), A-448 (6-                           | Table - C<br>45-48), A-447 (6-DC-51<br>54) DUST COLLECTORS | Ta<br>-45-48), A-<br>54) Dust  | вү А-10 (6-ДС   | Table - C<br>S-19 Clinker Storage Area Abated by A-10 (6-DC-45-48), A-447 (6-DC-51), A-448 (6-)<br>54) Dust Collectors | KER STOR                             | S-19 CLIN        |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Major Facility Review Permit - BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Page 6 of 71

## 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-51) 54) DUST COLLECTORS Table - C

|                                 |                                      |   |                                       | JT/ 2031                     | JT/ DUST COLLECTORS    |   |                                  |                  |   |
|---------------------------------|--------------------------------------|---|---------------------------------------|------------------------------|------------------------|---|----------------------------------|------------------|---|
| Type of<br>Limit                | Emission<br>Limit<br>Citation        | Emission Limit  | Monitoring<br>Requirement<br>Citation | Monitoring Frequency (P/C/N) | Monitoring<br>Type     | Affected<br>Source                      | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.) |
| Process<br>weight<br>limitation | BAAQMD<br>6-311                      | 4.10P <sup>0 67</sup> lb/hr, where P<br>is process weight, ton/hr |                                       | Z.                           |                        |   | NONE TO<br>REPORT                |                  |   |
| Throughput                      | BAAQMD<br>cond #<br>18475, part<br>1 | Material stored not to exceed 1.75 million tons/year              | BAAQMD cond<br>#18475, part 6         | P/M                          | Log/ Record<br>keeping | *************************************** | NONE TO<br>REPORT                |                  |   |
| Maria: (N##)                    | mana .EDA                            | Matter /N##) mana : EDA Test Matter 1 #1                          |                                       |                              |                        |   |                                  |                  |   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 7 of 71

| 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-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), | S-47 EAST SILO TOP DISTRIBUTION TOWER ABATED BY A-435 DUST COLLECTOR (7-DC-07), S-48 BULK CEMENT LOADOUT TANK #1 &2 ABATED BY A-420, A-421, A-422, AND A-428 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), | Table - D |
|--|---|--|-----------|
|--|---|--|-----------|

|   |                    |  | Opacity |                 |             |   |  | Space       | Onacity               |             | ( Post of S                            | Onacity  | Type of<br>Limit                            |
|---|--------------------|--|---------|-----------------|-------------|---|--|-------------|-----------------------|-------------|--|--|---|
|   | 300.1040           | 863 1348                               |         | Subpart         | 40 CFR      |   | -  | 16109, part | cond#                 | BAAQMD      | 6-301                                  | BAAQMD   | Emission<br>Limit<br>Citation               |
| TOTAL PARTIES AND ADDRESS AND |                    |  | %01     |                 |             |   | 77 2007/00000000000000000000000000000000 | opacity     | Ringelmann 0.5 or 10% |             | ************************************** | Ringelmann I A   | Emission Limit                              |
| 300.10.7(0)   | 863 1349(c)        |  |         | §63.1350(a) (4) |             |   | # 20751, part 3b                         | BAAQMD cond | # 16109, part 2       | BAAQMD cond | # 16109, part 2                        | BAAQMD cond  | Monitoring<br>Requirement<br>Citation       |
| years   | P/every 5          | appropriate                            | as      | y, annually,    | semiannuall | P/Monthly.                              |  |             | D/\Q                  |             | 1.2                                    | P/O  | Monitoring<br>Frequency<br>(P/C/N)          |
| test (M9)   | Periodic source    | MARAGONO                               | (M22)   | inspection      | Visual      |   |  | monitoring  | Pressure drop         |             | monitoring                             | Pressure drop  | Monitoring<br>Type                          |
|   |                    | ************************************** |         |                 |             |   |  |             |                       |             |  |  | Affected<br>Source                          |
| reporting period  | N/A for this       |  | TO CALL | Tanara          | NONE TO     |   |  | REPORT      | NONE TO               |             | REPORT                                 | NONE TO  | Period of<br>Excess<br>(Date and Time)      |
|   |                    |  |         |                 |             |   |  |             |                       |             |  |  | Actual<br>Excess                            |
| Dec 2007  | NESHAP Test report |  |         |                 |             | *************************************** |  |             |                       |             |  | TO THE THE PROPERTY OF THE PRO | Comments (causes, corrective actions, etc.) |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date July 2012 Page 8 of 71

#### Table - D

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),

| Type of<br>Limit                | Emission<br>Limit<br>Citation     | Emission Limit   | Monitoring<br>Requirement<br>Citation                             | Monitoring<br>Frequency<br>(P/C/N) | Monitoring<br>Type          | Affected<br>Source   | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.) |
|---------------------------------|-----------------------------------|--|---|------------------------------------|-----------------------------|--|----------------------------------|------------------|---|
| Md                              | BAAQMD<br>6-310                   | 0.15 gr/dscf   | BAAQMD cond<br># 16109, part 2<br>BAAQMD cond<br># 20751, part 3b | P/Q                                | Pressure drop<br>monitoring |  | NONE TO<br>REPORT                |                  |   |
| Process<br>weight<br>limitation | BAAQMD<br>6-311                   | 4.10P <sup>0 67</sup> lb/hr, where P is process weight, ton/hr   |   | Z                                  |                             | n and A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1  | NONE TO<br>REPORT                |                  | A   |
| PM10                            | BAAQMD cond # 16109, part         | 0.006 gr/dscf  | BAAQMD cond # 16109, part 2 BAAQMD cond # 20751, part 3b          | P/Q                                | Pressure drop<br>monitoring | 170  | NONE TO<br>REPORT                | 77               |   |
| Throughput                      | BAAQMD  ut cond #  16109, part  5 | Cement loads not to exceed 70,000 trucks/year  | BAAQMD cond<br># 16109. part 6                                    | M/d                                | Log/ Record<br>keeping      | THE STATE OF THE S | NONE TO<br>REPORT                |                  |   |
|                                 | 5                                 | trucks/year  |   |                                    |                             |  |                                  |                  |   |
| ×                               |                                   | No. of the last of |   |                                    |                             |  |                                  |                  |   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012

|                     |                       | 1 |
|---------------------|-----------------------|---|
| <b>Page 9 of 71</b> | Report Dat            | ( |
| 9 of 71             | Report Date July 2012 | 1 |
|                     |                       |   |
|                     |                       |   |

| Throughput co                                  | PM10 co  | Process B<br>weight limit                                      | PM B                            | Opacity co   | Opacity Su                        |                         | Opacity B.                              | Type of E                                   |  |
|--|--|--|---------------------------------|--|-----------------------------------|-------------------------|---|---|--|
| BAAQMD<br>cond # 6655,<br>part 8               | BAAQMD<br>cond # 6655,<br>part 4                                 | BAAQMD<br>6-311  | BAAQMD<br>6-310                 | BAAQMD cond # 6655.  | 40 CFR<br>Subpart LLL<br>§63.1348 |                         | BAAQMD<br>6-301                         | Emission<br>Limit<br>Citation               |  |
| Cement throughput not to exceed 1.6 MM tons/yr | 0.006 gr/dscf  | 4.10P <sup>0 o7</sup> lb/hr, where P is process weight, ton/hr | 0.15 gr/dscf                    | Ringelmann 0.5 or 10%<br>opacity                                 | 10%                               |                         | Ringelmann 1.0                          | Emission Limit                              | Table - F S-74 Type II Mechanical transfer System abated by A-58 Dust Collector (7-DC-8) |
| # 6655, part 9                                 | BAAQMD cond<br># 6655, part 3<br>BAAQMD cond<br># 20751, part 3b |  | BAAQMD cond<br># 20751, part 3b | BAAQMD cond<br># 6655, part 2<br>BAAQMD cond<br># 20751, part 3b | §63.1350(a) (4)<br>§63.1349(c)    |                         | BAAQMD cond<br># 20751, part 3b         | Monitoring Requirement Citation             | IANICAL TRAN   |
| P/D  | P/Q  | Z  | P/Q                             | P/Q  | as appropriate P/every 5 years    | P/Monthly, semiannually | P/Q                                     | Monitoring Frequency (P/C/N)                | Ta<br>SFER SYST  |
| Log / Record<br>keeping                        | Pressure drop<br>monitoring                                      |  | Pressure drop<br>monitoring     | Pressure drop<br>monitoring                                      | (M22) Periodic source test (M9)   | Visual                  | Pressure drop<br>monitoring             | Monitoring<br>Type                          | Table - F<br>STEM ABATED BY  |
|  |  |  |                                 |  |                                   |                         | *************************************** | Affected<br>Source                          | A-58 Dusi  |
| NONE TO<br>REPORT                              | NONE TO<br>REPORT  | NONE TO<br>REPORT  | NONE TO<br>REPORT               | NONE TO<br>REPORT  | REPORT  NONE TO  REPORT           | NONE TO                 | NONE TO<br>REPORT                       | Period of Excess (Date and Time)            | COLLECTOR (  |
|  |  |  |                                 |  |                                   |                         |   | Actual<br>Excess                            | 7-DC-8)  |
|  |  |  |                                 |  | NESHAP Test report Dec 2007       |                         |   | 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 April 18, 2012 through June 30, 2012 Report Date July 2012 Page 10 of 71

|                     | *************************************** | *************************************** |             |               | •          |                | Nint : (3.5#) (CDA T 1.4   | ×+ · · / 8 / # ) · · · · | _        |
|---------------------|---|---|-------------|---------------|------------|----------------|--|--------------------------|----------|
|                     |   | REPORT                                  |             | Keeping       |            | # bboo, part 9 | oooo per year  | part 6                   | Sindoov  |
|                     |   | NONE TO                                 |             | 1,087,1000010 | D/G<br>G/G | # 1/25 map     | (150 an operation  | cond # 6655,             | 1,000014 |
|                     |   | NONE TO                                 |             | Too / Dacord  |            | Ba aOMD cond   | Hours of operation   | BAAQMD                   | Record   |
| actions, etc.)      |   | (Date and 1 ime)                        | 20 mi es    | ı ypc         | (P/C/N)    | Citation       |  | Citation                 |          |
| (causes, corrective | Excess                                  | Excess                                  | Source      | Type          | Frequency  | Requirement    | <b>Emission Limit</b>  | Limit                    | I imit   |
| Comments            |   | Period of                               | 6           | Monitoring    | Monitoring | Monitoring     |  | Emission                 | Type of  |
|                     | 7-DC-8)                                 | COLLECTOR (                             | Y A-58 DUST | EM ABATED B   | SFER SYSTI | HANICAL TRAD   | S-74 TYPE II MECHANICAL TRANSFER SYSTEM ABATED BY A-58 DUST COLLECTOR (7-DC-8) |                          |          |
|                     |   |   |             | Table - F     | Ta         |                |  |                          |          |

## Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 11 of 71 Lehigh Southwest Cement Company - Permanente Plant

| 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 | Table – G S-111 Rail Unloading System abated by A-111 Dust Collector (1-DC-1), S-112 Adding Hopper Transfer System arated by A-112 Dust Collector (1-DC-2) |
|---|--|
|---|--|

| Through-put  | Process<br>weight<br>limitation                                | Md   | Opacity                              | Opacity                        | Opacity                         | Type of<br>Limit                                  |
|--|--|--|--------------------------------------|--------------------------------|---------------------------------|---|
| BAAQMD<br>cond # 2786<br>part D  | BAAQMD<br>6-311  | BAAQMD<br>6-310  | 40 CFR,<br>Subpart Y,<br>§60.252 (c) | BAAQMD<br>6-301                | BAAQMD<br>6-301                 | Emission<br>Limit<br>Citation                     |
| Clinker production not<br>to exceed 1.6 million<br>tons/year   | 4.10P <sup>0 o7</sup> lb/hr, where P is process weight, ton/hr | 0.15 gr/dsct`  | 20% opacity                          | Ringelmann 1.0                 | Ringelmann 1.0                  | Emission Limit                                    |
| BAAQMD cond<br># 2786 part D   |  | BAAQMD cond<br># 20751, part 3b  |                                      | BAAQMD cond<br># 20753, part 1 | BAAQMD cond<br># 20751, part 3b | Monitoring<br>Requirement<br>Citation             |
| D  | Z  | P/Q  | z                                    | P/Q                            | P/Q                             | Monitoring Frequency (P/C/N)                      |
| Record keeping   |  | Pressure Drop<br>Monitoring  |                                      | Visual inspection (M22)        | Pressure Drop<br>Monitoring     | Monitoring<br>Type                                |
|  |  |  |                                      |                                |                                 | Affected<br>Source                                |
| NONE TO<br>REPORT  | NONE TO<br>REPORT  | NONE TO<br>REPORT  | NONE TO<br>REPORT                    | NONE TO<br>REPORT              | NONE TO<br>REPORT               | Period of Excess (Date and Time)                  |
| 7  |  |  |                                      |                                |                                 | Actual<br>Excess                                  |
| THE PART OF THE PA |  | THE PROPERTY OF THE PROPERTY O |                                      |                                |                                 | Comments<br>(causes, corrective<br>actions, etc.) |

#### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date July 2012 Page 12 of 71

### 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, S-121 TERTIARY SCALPING SCREEN (2-vs-1-2) ABATED BY A-121 DUST COLLECTOR, S-131 ROCK SAMPLING SYSTEM ABATED BY A-131 DUST COLLECTOR, Table - H

| Through-put c  | Process I weight limitation                                   | PM                              | Opacity                        | Opacity                         | Type of<br>Limit                                  |
|--|---|---------------------------------|--------------------------------|---------------------------------|---|
| BAAQMD<br>cond # 2786<br>part D                              | BAAQMD<br>6-311   | BAAQMD<br>6-310                 | BAAQMD<br>6-301                | BAAQMD<br>6-301                 | Emission<br>Limit<br>Citation                     |
| Clinker production not<br>to exceed 1.6 million<br>tons/year | 4.10P <sup>067</sup> lb/hr, where P is process weight, ton/hr | 0.15 gr/dscf                    | Ringelmann 1.0                 | Ringelmann 1.0                  | Emission Limit                                    |
| BAAQMD cond<br># 2786 part D                                 |   | BAAQMD cond<br># 20751, part 3b | BAAQMD cond<br># 20753. part 1 | BAAQMD cond<br># 20751, part 3b | Monitoring<br>Requirement<br>Citation             |
| P/D  | Z   | P/Q                             | P/Q                            | P/Q                             | Monitoring Frequency (P/C/N)                      |
| Record keeping   |   | Pressure Drop<br>Monitoring     | Visual inspection (M22)        | Pressure Drop<br>Monitoring     | Monitoring<br>Type                                |
|  |   |                                 |                                |                                 | Affected<br>Source                                |
| NONE TO<br>REPORT  | NONE TO<br>REPORT   | NONE TO<br>REPORT               | NONE TO<br>REPORT              | NONE TO<br>REPORT               | Period of<br>Excess<br>(Date and Time)            |
|  |   |                                 |                                |                                 | Actual<br>Excess                                  |
|  |   |                                 |                                |                                 | Comments<br>(causes, corrective<br>actions, etc.) |

## Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 13 of 71 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

|                       |        |   |            |                 |                    |   | tons/year                            | part D      |             |
|-----------------------|--------|---|------------|-----------------|--------------------|---|--------------------------------------|-------------|-------------|
|                       |        | REPORT  |            | Record keeping  | P/D                | # 2786 part D   | to exceed 1.6 million                | cond # 2786 | Through-put |
|                       |        | NONE TO   |            |                 |                    | RAAOMD cand   | Clinker production not               | BAAQMD      |             |
|                       |        | REPORT  |            |                 |                    |   | ton/hr                               | 0-011       | limitation  |
|                       |        | NOWE 10   |            |                 | Z                  |   | is process weight,                   | 6.211       | weight      |
|                       |        | NONE TO   |            |                 |                    |   | 4.10P <sup>0 67</sup> lb/hr, where P | BAAOMD      | Process     |
|                       |        | REPORT  |            | Monitoring      | Ž                  | # 20751, part 3b                                      | G.                                   | 6-310       |             |
|                       |        | NONE TO   |            | Pressure Drop   | O/d                | BAAQMD cond   | 0.15 pr/dscf                         | BAAQMD      | PK          |
| 2007                  |        | REPORT  |            | test (M9)       | years              | 3000000000  |                                      |             |             |
| NESHAP Test report De |        | NONE TO   |            | Periodic source | P/every 5          | 863 1349(c)   |                                      | 300.10 to   |             |
|                       |        |   |            |                 | appropriate        |   |                                      | 863 1348    |             |
|                       |        |   |            | (M22)           | as .               |   | 10%                                  | Subpart LLL | Opacity     |
|                       |        | REPORT  |            | inspection      | y, annually,       | §63.1350(a) (4)                                       |                                      | 40 CFR      |             |
|                       |        | NONE TO   |            | Vienal          | semiannuall        |   |                                      |             |             |
|                       |        |   |            |                 | P/Monthly,         |   |                                      |             |             |
|                       |        | REPORT  |            | (M22)           | , A                | # 20753, part 1                                       | Ó                                    | 6-301       |             |
|                       |        | NONE TO   |            | Visual          | P/O                | BAAQMD cond   | Ringelmann 10                        | BAAQMD      | Opacity     |
|                       |        | REPORT  |            | Monitoring      | - 1/2              | # 20751, part 3b                                      |                                      | 6-301       | (bacit)     |
|                       |        | NONE TO   |            | Pressure Drop   | D O                | BAAQMD cond   | Ringelmann 1.0                       | BAAQMD      | Opacito     |
| actions, etc.)        | 20000  | (Date and Time)   | Source     | Туре            | (P/C/N)            | Citation  |                                      | Citation    | 1111171     |
| (causes, corrective   | Actual | Excess  | Affected   | Mioninormg      | Frequency          | Requirement   | Emission Limit                       | Limit       | 1 ypc 01    |
| Comments              | •      | Period of   |            |                 | Monitoring         | Monitoring  |                                      | Emission    | Type        |
|                       |        | LLECTOR   | 53 Dust Co | BATED BY A-15   | SYSTEM AR          | S-153 KILN FEED SYSTEM ABATED BY A-153 DUST COLLECTOR | S-1                                  |             |             |
|                       | RS,    | DUST COLLECTORS,  |            | D BY A-151 A    | -1-2) abate        | S-151 HOMOGENIZER (5-S-1-2) ABATED BY A-151 AND A-152 | S-151 Номо                           |             |             |
|                       | Ř,     | S-135 HIGHGRADE STORAGE BIN (4-S-3-4) ABATED BY A-135 DUST COLLECTOR, | BY A-135 D | 5-3-4) ABATED   | <b>GE BIN (4-S</b> | GRADE STORA   | S-135 High                           |             |             |
|                       |        |   |            | Table – I       | Ţ                  |   |                                      |             |             |

## Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 14 of 71

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

| Process BAAQMD   | PM 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 <sup>0 o7</sup> lb/hr, where P is process weight, ton/hr | 0.15 gr/dscf  | 20% opacity                                      | Ringelmann 1.0  | Ringelmann 1.0                  | Emission Limit                              | S-14   |
|  | BAAQMD cond<br>#11780 part E<br>BAAQMD cond<br># 20751, part 3a | §63.1350(c)(2)<br>§63.1349(c)                    | BAAQMD cond<br># 20753. part 1<br>for A-171 & A-<br>172 | BAAQMD cond<br># 20751, part 3a | Monitoring Requirement Citation             | 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 |
| Z  | Р/М   | P/D<br>P/every 5<br>years                        | P/Q   | M/d                             | Monitoring Frequency (P/C/N)                | 4-GM-1) AB<br>(4-GM-2) A   |
|  | Pressure drop<br>monitoring                                     | Visual inspection (M9) Periodic source test (M9) | Visual inspection<br>(M22)                              | Pressure drop<br>monitoring     | Monitoring<br>Type                          | BATED BY A-14 ABATED BY A-1.   |
|  |   |  |   |                                 | Affected<br>Source                          | 1 Dust Cor<br>42 Dust Co   |
| NONE TO<br>REPORT  | NONE TO<br>REPORT   | NONE TO REPORT NONE TO REPORT                    | NONE TO<br>REPORT                                       | NONE TO<br>REPORT               | Period of<br>Excess<br>(Date and Time)      | LECTOR,<br>DLLECTOR  |
|  |   |  |   |                                 | Actual<br>Excess                            |  |
|  |   | NESHAP Test report<br>Dec 2007                   |   |                                 | Comments (causes, corrective actions, etc.) |  |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Page 15 of 71

## 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

| SO2   | NOx   | SO2  | SO2   | Type of<br>Limit                            |
|---|---|--|---|---|
| BAAQMD<br>cond # 2786,<br>part A (1)  | BAAQMD cond #11780, part C (1)  | BAAQMD<br>9-1-302  | BAAQMD<br>9-1-301   | Emission<br>Limit Citation                  |
| 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 | 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 averaged over 60 consecutive minutes, or 0.05 ppm averaged over 24 hours | Emission Limit                              |
| BAAQMD cond<br># 2786, part A 3   | BAAQMD cond<br>#11780, part E   |  |   | Monitoring Requirement Citation             |
| С   | C   | Z  | Z   | Monitoring Frequency (P/C/N)                |
| Instack<br>monitoring<br>system   | CEMS/ Record<br>keeping   |  |   | Monitoring<br>Type                          |
|   |   |  |   | Affected<br>Source                          |
| NONE TO<br>REPORT   | NONE TO<br>REPORT   | NONE TO<br>REPORT  | NONE TO<br>REPORT   | Period of<br>Excess<br>(Date and Time)      |
|   |   | The state of the s |   | Actual<br>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 April 18, 2012 through June 30, 2012 Report Date July 2012 Page 16 of 71

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

|                        | A   | S-14  | S-142 RAW MILL 2 (4-GM-2) ABATED BY A-142 DUST COLLECTOR       | (4-GM-2) A                   | BATED BY A-1                | 42 DUST Co         | LLECTOR                                | N. C. | The space and th |
|------------------------|---|---|--|------------------------------|-----------------------------|--------------------|--|---|--|
| Type of<br>Limit       | Emission<br>Limit Citation                                | Emission Limit  | Monitoring Requirement Citation                                | Monitoring Frequency (P/C/N) | Monitoring<br>Type          | Affected<br>Source | Period of<br>Excess<br>(Date and Time) | Actual<br>Excess                          | Comments<br>(causes, corrective<br>actions, etc.)  |
| PM                     | BAAQMD<br>cond #2786<br>part B (1)                        | 36 lb/hr and 0.02<br>gr/SDCF                                  | BAAQMD cond<br>#2786 part C<br>BAAQMD cond<br># 20751, part 3a | P/M                          | Pressure drop<br>monitoring |                    | NONE TO<br>REPORT                      |   |  |
| Emission<br>limitation | BAAQMD<br>cond #11780,<br>part C (3)                      | Emission not to exceed 6.4 lb/ton of clinker on 24 hour basis | BAAQMD cond<br>#11780, part E (1<br>& 2)                       | СVd                          | CEMS/ Record<br>keeping     |                    | NONE TO<br>REPORT                      | 200                                       | , , , , , , , , , , , , , , , , , , ,  |
| fhroughput             | BAAQMD<br>cond #2786,<br>part D<br>cond #11780,<br>part D | Clinker production not to exceed 1.6 million tons/year        | BAAQMD cond<br>#11780 part E                                   | Cl/d                         | Record keeping              |                    | NONE TO<br>REPORT                      |   |  |
|                        |   |   |  |                              |                             |                    |  |   |  |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Page 17 of 71

## 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

| Temperature   | Type of<br>Limit                            |
|---|---|
| 40CFR63.1343<br>(b)(3)(ii),<br>40CFR63.1344<br>(a).(b) and<br>40CFR63.1349<br>(b)(3)(ii)  | Emission<br>Limit Citation                  |
| ≤ 194.3°C RM on<br>≤ 197.5°C RM off   | Emission Limit                              |
| 40CFR63.1350(f)   | Monitoring Requirement Citation             |
| С   | Monitoring Frequency (P/C/N)                |
| Temperature<br>Readings   | Monitoring<br>Type                          |
| S-141<br>S-142<br>S-154   | Affected<br>Source                          |
| Temperature exceedance reported in NESHAP semi annual summary reporting period Jan 1, 2012 to June 30, 2012.  Next report for period due July 2012. | Period of<br>Excess<br>(Date and Time)      |
|   | Actual<br>Excess                            |
| Test conducted in June 2010 and submitted to BAAQMD.  | Comments (causes, corrective actions, etc.) |

### Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Lehigh Southwest Cement Company - Permanente Plant Page 18 of 71

| 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 |  |
|---|--|
|---|--|

| Process<br>weight<br>limitation                                      | PM                            | Opacity                          |                              | Opacity                 | Opacity                        | Opacity                       | Type of<br>Limit                            |
|--|-------------------------------|----------------------------------|------------------------------|-------------------------|--------------------------------|-------------------------------|---|
| BAAQMD<br>6-311  | BAAQMD<br>6-310               | BAAQMD<br>cond # 2786,<br>part F | §03.1547                     | 40 CFR<br>Subpart LLL   | BAAQMD<br>6-301                | BAAQMD<br>6-301               | Emission<br>Limit Citation                  |
| 4.10P <sup>0 67</sup> lb/hr, where<br>P is process weight,<br>ton/hr | 0.15 gr/dscf                  | Ringelmann 0.5                   |                              | 10%                     | Ringelmann 1.0                 | Ringelmann 1.0                | Emission Limit                              |
|  | BAAQMD cond<br># 2786, part F | BAAQMD cond<br># 2786, part F    | §63.1349(c)                  | §63.1350(e)             | BAAQMD cond<br># 20753, part 1 | BAAQMD cond<br># 2786, part F | Monitoring<br>Requirement<br>Citation       |
| Z  | P/Q                           | P/Q                              | P/every 5<br>years           | D/D                     | P/Q                            | P/Q                           | Monitoring Frequency (P/C/N)                |
|  | Triboflow leak<br>detector    | Triboflow leak<br>detector       | Periodic source<br>test (M9) | Visual inspection (M22) | Visual inspection (M22)        | Triboflow leak<br>detector    | Monitoring<br>Type                          |
|  |                               |                                  |                              |                         |                                |                               | Affected<br>Source                          |
| NONE TO<br>REPORT  | N/A                           | N/A                              | NONE TO                      | NONE TO<br>REPORT       | NONE TO<br>REPORT              | N/A                           | Period of<br>Excess<br>(Date and Time)      |
|  |                               |                                  |                              |                         |                                |                               | Actual<br>Excess                            |
|  |                               |                                  | NESHAP Test report  Dec 2007 |                         |                                |                               | 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 April 18, 2012 through June 30, 2012 Report Date July 2012 Page 19 of 71

| S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND A-171 AND A-172 BAGHOUSES | Table - L |
|---|-----------|
|---|-----------|

|                                 | S-154 PRI                                     | S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS,    | ABATED BY A-  | 141 AND A-                   | 142 DUST COLI                                     |                    | AND A-171 AND A-172 BAGHOUSES          | 172 BAG          | HOUSES  |
|---------------------------------|---|--|---|------------------------------|---|--------------------|--|------------------|---|
| Type of<br>Limit                | Emission<br>Limit Citation                    | Emission Limit   | Monitoring Requirement Citation                                 | Monitoring Frequency (P/C/N) | Monitoring<br>Type                                | Affected<br>Source | Period of<br>Excess<br>(Date and Time) | Actual<br>Excess | Comments<br>(causes, corrective<br>actions, etc.) |
| Opacity                         | BAAQMD<br>6-301                               | Ringelmann 1.0   | BAAQMD cond<br># 20751, part 3a                                 | M/d                          | Pressure drop<br>monitoring                       |                    | NONE TO<br>REPORT                      |                  |   |
| Opacity                         | BAAQMD<br>6-301                               | Ringelmann 1.0   | BAAQMD cond<br># 20753. part 1<br>for A-171 & A-<br>172         | P/Q                          | Visual inspection (M22)                           |                    | NONE TO<br>REPORT                      |                  |   |
| Opacity                         | BAAQMD<br>6-301                               | Ringelmann 1.0   | BAAQMD cond<br># 20753, part 2<br>for A-141 & A-<br>142         | РД                           | Visual inspection<br>(M9)                         |                    | NONE TO<br>REPORT                      | 7                |   |
| Opacity                         | 40 CFR.<br>Subpart LLL,<br>§63.1343<br>(b)(2) | 20% opacity  | §63.1350(c)(2)<br>§63.1349(c)                                   | P/D<br>P/every 5<br>years    | Visual inspection (M9)  Periodic source test (M9) |                    | NONE TO REPORT NONE TO REPORT          |                  | NESHAP Test report Dec                            |
| PM                              | BAAQMD<br>6-310                               | 0.15 gr/dscf   | BAAQMD cond<br>#11780 part E<br>BAAQMD cond<br># 20751, part 3a | P/M                          | Pressure drop<br>monitoring                       |                    | NONE TO<br>REPORT                      |                  |   |
| Process<br>weight<br>limitation | BAAQMD<br>6-311                               | 4.10P <sup>0 o7</sup> lb/hr, where<br>P is process weight,<br>ton/hr |   | Z                            |   |                    | NONE TO<br>REPORT                      |                  |   |

## Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 20 of 71

Table - L

|                  | S-154 Pri                  | S-154 Precalciner Kiln abated by A-141 and A-142 Dust Collectors, and A-171 and A-172 Baghouses | ABATED BY A-                    | 141 AND A-                   | 142 Dust Coli      | LECTORS, A         | ND A-171 AND /                         | 172 BAG          | HOUSES   |
|------------------|----------------------------|---|---------------------------------|------------------------------|--------------------|--------------------|--|------------------|--|
| Type of<br>Limit | Emission<br>Limit Citation | Emission Limit  | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring<br>Type | Affected<br>Source | Period of<br>Excess<br>(Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.)  |
|                  |                            | 0.5 ppm continuously for 3 consecutive  |                                 |                              |                    |                    |  |                  |  |
| \$02             | BAAQMD                     | averaged over 60  |                                 |                              |                    |                    | NONE TO                                |                  |  |
| SSI              | 9-1-301                    | consecutive minutes,  |                                 | 2                            |                    |                    | REPORT                                 |                  |  |
|                  |                            | or 0.05 ppm   |                                 |                              |                    |                    |  |                  |  |
|                  |                            | averaged over 24  |                                 |                              |                    |                    |  |                  |  |
|                  |                            | Sanou   |                                 |                              |                    |                    |  |                  |  |
| SO2              | BAAQMD<br>9-1-302          | 300 ppm (dry)   |                                 | Z                            |                    |                    | NONE TO<br>REPORT                      |                  |  |
|                  |                            | All kiln emission   |                                 |                              |                    |                    |  |                  | The state of the s |
| Š                | BAAQMD                     | points not to exceed  | BAAQMD cond                     | }                            | CEMS/ Record       |                    | NONE TO                                |                  |  |
| NOx              | cond #11780,               | 1158 lb/hr or 615   | #11780. part E                  | С                            | keening            |                    | REPORT                                 |                  |  |
|                  | part C(1)                  | ppm averaged for 2<br>hr  | #11/00, pan 13                  |                              | gmg                |                    | KEFOKI                                 |                  |  |
| Š                | BAAQMD                     | Emission not to exceed 6.4 lb/ton of  | BAAQMD cond                     | ;<br>ì                       | CEMS/ Record       |                    | NONE TO                                |                  |  |
| NOA              | part C (3)                 | clinker on 24 hour  | #11780. pall 2 (1               | ÜÜ                           | keeping            |                    | REPORT                                 |                  |  |
|                  |                            | basis   |                                 |                              |                    |                    |  |                  |  |
|                  |                            |   |                                 |                              |                    |                    |  |                  |  |

## Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 21 of 71 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

| THE PROPERTY OF THE PROPERTY O |           |   |   |              | *************************************** |                     | ***************************************                           | <del>1</del>   |          |
|--|-----------|---|---|--------------|---|---------------------|---|----------------|----------|
|  |           |   |   |              |   |                     | 132.  | -              |          |
|  |           | REPORT  |   | Surgonnous   |   | # 20751, part 3a    | 115, 121, 122, 123,   | part B (1)     |          |
|  |           | BERORT  |   | nanitarina   | P/M                                     | BAAQMD cond         | for S-111, 112, 113,  | cond #2786     | PM       |
|  |           | ST TONE   |   | Process dran |   | #2786 part C        | gr/SDCF   | BAAQMD         |          |
|  |           |   |   |              |   | BAAQMD cond         | 36 lb/hr and 0.02   |                |          |
|  |           |   |   |              |   |                     | mill 58 lbs/hr.   |                |          |
|  |           |   |   |              |   |                     | and from the coal   |                |          |
|  |           |   |   |              |   |                     | exceed 423 lbs/hr,  |                |          |
|  |           |   |   |              |   |                     | the kiln mill shall not   |                |          |
|  |           |   |   |              |   |                     | SO2 emissions from  |                |          |
|  |           |   |   |              |   |                     | are not monitored,  |                |          |
|  |           |   |   |              |   |                     | coal mill emissions   |                |          |
|  |           | XEI OX  |   | system       |   | # 2700. part /3 (3) | lbs/hr, sp long as the  | part A(1)      |          |
|  |           | DEBORT .  |   | monitoring   | C                                       | # 2786 mart A (3)   | limitation of 481   | cond # 2786.   | SO2      |
|  |           | NONE TO   |   | In stack     |   | RAAOMD cond         | As to the alternative   | BAAQMD         |          |
|  |           |   |   |              |   |                     | over the 24 hour day.   |                |          |
|  |           |   |   |              |   |                     | 481 lb/hr averaged  |                |          |
|  |           |   |   |              |   |                     | coal as the fuel or   |                |          |
|  |           |   |   |              |   |                     | requiring 0.6% sulfur   |                |          |
|  |           |   |   |              |   |                     | feed plus fuel, not   |                |          |
|  |           |   |   |              |   |                     | the suffur in the raw   |                |          |
|  |           |   |   |              |   |                     | Rejection of 90% of   |                |          |
| actions, etc.)   | -         | (Date and 1 me)   |   | · ypc        | (P/C/N)                                 | Citation            |   |                | - Canada |
| (causes, corrective  | Excess    | Excess  | Source                                    | Type         | Frequency                               | Requirement         | Emission Limit  | Limit Citation | Limit    |
| Comments   | <b>*</b>  | Period of   | 3   | Monitoring   | Monitoring                              | Monitoring          |   | Emission       | Type of  |
| GHOUSES  | A-172 BAC | AND A-171 AND A-172 BAGHOUSES   | LECTORS, A                                | 142 DUST COL | 141 AND A-1                             | ABATED BY A-        | S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, | S-154 PR       |          |
|  |           |   |   | Table - L    |   |                     | <b>4</b>  | )<br>          |          |
|  |           | THE TAXABLE WAS CONTRACTED TO CONTRACT THE TAXABLE TO | 7-10-10-10-10-10-10-10-10-10-10-10-10-10- |              |   |                     |   |                |          |

## Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 22 of 71

S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND A-171 AND A-172 BAGHOUSES Table - L

|   | · · · · · · · · · · · · · · · · · · ·                     |  |  |   |
|---|---|--|--|---|
| Temperature   | D/F   | PM   | Throughput   | Type of<br>Limit                                  |
| 40CFR63.1343<br>(b)(3)(ii),<br>40CFR63.1344<br>(a).(b) and<br>40CFR63.1349<br>(b)(3)(ii)                              | 40 CFR Subpart LLL 63.1343(b)(3) (ii)                     | 40 CFR.<br>Subpart LLL<br>§63.1343<br>(b)(1)   | BAAQMD cond #2786. part D cond #11780. part D                | Emission<br>Limit Citation                        |
| ≤ 194.3°C RM on ≤ 197.5°C RM off  | 8.7×10 <sup>-11</sup> gr/dscf<br>@ 7% O2                  | 0.3 lb/ton dry feed  | Clinker production<br>not to exceed 1.6<br>million tons/year | Emission Limit                                    |
| 40CFR63.1350(f)   | §63.1349(d)   | §63.1349(c)  | BAAQMD cond<br>#11780 part E                                 | Monitoring<br>Requirement<br>Citation             |
| Ć.  | P/every 2.5<br>years                                      | P/every 5<br>years   | P/D  | Monitoring<br>Frequency<br>(P/C/N)                |
| Temperature<br>Readings   | Periodic source<br>test (M23)                             | Periodic source<br>test (M5)   | Record keeping   | Monitoring<br>Type                                |
|   |   |  |  | Affected<br>Source                                |
| Temperature exceedance reported in NESHAP semi annual summary report for reporting period Jan 1. 2012 to Jun 30 2012. | NONE TO<br>REPORT   | NONE TO<br>REPORT  | NONE TO<br>REPORT  | Period of<br>Excess<br>(Date and Time)            |
|   | ,   |  |  | Actual<br>Excess                                  |
| Test conducted in June<br>2010 and submitted to<br>BAAQMD   | Test conducted in June<br>2010 and submitted to<br>BAAQMD | NESHAP VEE Test report Dec 2007 and PM test conducted in June 2010 and submitted to BAAQMD |  | Comments<br>(causes, corrective<br>actions, etc.) |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 23 of 71

| Type of Limit Opacity Opacity Opacity | Emission Limit Citation BAAQMD 6-301 BAAQMD 6-301 BAAQMD 6-301 | Emission Limit Ringelmann 1.0 Ringelmann 1.0                         | S-161 Clin  Monitoring  Requirement Citation  BAAQMD cond # 20751, part 3a  BAAQMD cond # 20753, part 1 for A-190  BAAQMD cond # 20753, part 2 | Taker Cooler Monitoring Frequency (P/C/N)  P/M  P/Q  P/D | Table - M  S-161 Clinker Cooler (5-CC-1) ABATED BY A-161  Monitoring equirement Frequency Citation (P/C/N)  AQMD cond 20753, part 1 P/Q for A-161  P/D for A-161  Table - M  Monitoring Monitoring Affected Source (M22)  Frequency Type Source (M22)  Visual inspection (M22)  Visual inspection (M9) | Affected Source                       |                               | Actual | Comments (causes, corrective actions, etc.) |
|---------------------------------------|--|--|--|--|--|---------------------------------------|-------------------------------|--------|---|
| Opacity                               | BAAQMD<br>6-301  | Ringelmann 1.0   | BAAQMD cond<br># 20753, part 2<br>for A-161  | P/D  | Visual inspection<br>(M9)  |                                       | NONE TO<br>REPORT             |        |   |
| Opacity                               | 40 CFR Subpart LLL §63.1345(a) (2)                             | %01  | §63.1350(d)(2)<br>§63.1349(c)  | P/every 5  | Visual inspection (M9) Periodic source test (M9)   |                                       | NONE TO REPORT NONE TO REPORT |        | NESHAP Test report Dec 2007                 |
| PΜ                                    | BAAQMD<br>6-310  | 0.15 gr/dscf   | BAAQMD cond<br># 20751, part 3a  | M/d  | Pressure drop<br>monitoring  |                                       | NONE TO<br>REPORT             |        | 700000000000000000000000000000000000000     |
| Process<br>weight<br>limitation       | BAAQMD<br>6-311  | 4.10P <sup>0 o7</sup> lb/hr, where<br>P is process weight,<br>ton/hr |  | Z  |  |                                       | NONE TO<br>REPORT             |        |   |
| FP                                    | BAAQMD<br>cond #2786,<br>part B (3)                            | 8 lb/hr and 0.01<br>gr/dscf  | BAAQMD cond<br>#2786. part C<br>BAAQMD cond<br># 20751, part 3a  | P/M  | Pressure drop<br>monitoring  |                                       | NONE TO<br>REPORT             |        |   |
| Throughput                            | BAAQMD<br>cond #2786,<br>part D                                | Clinker production not to exceed 1.6 million tons/year               | BAAQMD cond<br>#2786, part D   | P/D  | Record keeping   | T T T T T T T T T T T T T T T T T T T | NONE TO<br>REPORT             |        |   |

## Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 24 of 71

| S-161 Clinker Cooler (5-CC-1) ABATED BY A-161 | Table - M |
|---|-----------|
|---|-----------|

| ,        |                  |                                      | Monitoring              | Monitoring           | Monitoring Monitoring |                    | Period of              |                  | Comments                           |
|----------|------------------|--------------------------------------|-------------------------|----------------------|-----------------------|--------------------|------------------------|------------------|------------------------------------|
| Limit    | Limit Citation   | Emission Limit                       | Requirement<br>Citation | Frequency<br>(P/C/N) | Type                  | Affected<br>Source | Excess (Date and Time) | Actual<br>Excess | (causes, corrective actions, etc.) |
|          | 40 CFR.          | PM not to exceed                     | 40 CFR Subpart          |                      |                       |                    |                        |                  | NESHAP Test report                 |
| Emission | Subpart LLL,     |                                      | LLL § 63,1349 §         | P/every 2.5          | Source test (M5)      |                    | NONE TO                |                  | Jun 2010                           |
|          | § 63.1345        | of feed (dry basis)                  | 63.1350                 |                      |                       |                    |                        |                  |                                    |
|          | 40 CFR           |                                      |                         |                      |                       |                    |                        |                  | NESHAP Test report                 |
| ΡΜ       | Subpart LLL,     | 0.1 lb/fon dev fasd                  | 863 1340/6)             | P/every 2.5          | Periodic source       |                    | NONE TO                |                  | Jun 2010                           |
|          | §63.1345(a)      | ט.ו ושינטוו מוץ וככם                 | %05.15±2(c)             | years                | test (M5)             |                    | REPORT                 |                  |                                    |
|          | (I)              |                                      |                         |                      |                       |                    |                        |                  |                                    |
|          | Note: {M#} means | Note: (M#) means 'EPA Test Method #" |                         |                      |                       |                    |                        |                  |                                    |

## Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 25 of 71 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

| Process<br>weight<br>limitation                                | PΜ   | 77 700000000000000000000000000000000000 | Opacity  | Opacity  | Opacity                     | Type of<br>Limit                            |  |
|--|--|---|--|--|-----------------------------|---|--|
| BAAQMD<br>6-311  | BAAQMD<br>6-310  |   | 40 CFR Subpart LLL 863 1348                                    | BAAQMD<br>6-301  | BAAQMD<br>6-301             | Emission<br>Limit Citation                  | S-165  |
| 4.10P <sup>0 67</sup> lb/hr, where P is process weight, ton/hr | 0.15 gr/dscf   |   | . 10%  | Ringelmann 1.0   | Ringelmann 1.0              | Emission Limit                              | Table - N S-162 CLINKER SILO (5-S-11) ABATED BY A-162 DUST S-163 CLINKER SILO (5-S-12) ABATED BY A-163 DUST S-164 FREELIME STORAGE BIN ABATED BY A-164 DUST S-165 CLINKER TRANSFER SYSTEM ABATED BY A-165 DUST COLLECTOR |
|  | BAAQMD cond # 20751, part 3b   | §63.1349(c)                             | §63.1350(a)(4)   | BAAQMD cond<br># 20753, part l   | # 20751, part 3b            | Monitoring Requirement Citation             | Table - N S-162 CLINKER SILO (5-S-11) ABATED BY A-162 DUST S-163 CLINKER SILO (5-S-12) ABATED BY A-163 DUST S-164 FREELIME STORAGE BIN ABATED BY A-164 DUST RANSFER SYSTEM ABATED BY A-165 DUST COLLECTOR                |
| Z  | P/Q  | P/every 5<br>years                      | P/Monthly,<br>semiannuall<br>y, annually,<br>as<br>appropriate | P/Q  | P/Q                         | Monitoring Frequency (P/C/N)                | 7<br>.o (5-s-11)<br>.o (5-s-12)<br>.orage Bin  |
|  | Pressure drop<br>monitoring  | Periodic source<br>test (M9)            | Visual inspection (M22)  | Visual inspection<br>(M22)   | Pressure drop<br>monitoring | Monitoring<br>Type                          | Table - N ) ABATED BY A-1 ) ABATED BY A-1 IN ABATED BY A- A-165 DUST CO  |
| 7  |  |   |  | S-165  |                             | Affected<br>Source                          |  |
| NONE TO<br>REPORT  | NONE TO<br>REPORT  | NONE TO<br>REPORT                       | NONE TO<br>REPORT  | June 12, 2012 @<br>11:34 am.   | NONE TO<br>REPORT           | Period of Excess (Date and Time)            | Collector, Collector, Collector Collector AND A-190 Dust Collectors  |
|  |  |   |  | Excess Visible emission greater than 20% opacity   |                             | Actual<br>Excess                            | COLLECTO   |
|  | and Adams and Ad | NESHAP Test report  Dec 2007            |  | NOV A51572, issued originally to S-161, the source is actually S-165.  Clinker Gravity (G)  Cooler |                             | Comments (causes, corrective actions, etc.) | )RS  |

### Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Lehigh Southwest Cement Company - Permanente Plant Report Date July 2012 Page 26 of 71

|                                      | F J   |   |
|--------------------------------------|---|---|
| Throughput                           | Type of<br>Limit                            |   |
| BAAQMD<br>cond # 2786,               | Emission<br>Limit Citation                  | S-165   |
| Clinker production not to exceed 1.6 | Emission Limit                              | Table - N S-162 CLINKER SILO (5-S-11) ABATED BY A-162 DUST S-163 CLINKER SILO (5-S-12) ABATED BY A-163 DUST S-164 FREELIME STORAGE BIN ABATED BY A-164 DUST S-165 CLINKER TRANSFER SYSTEM ABATED BY A-165 DUST COLLECTOR                              |
| BAAQMD cond                          | Monitoring Requirement Citation             | Table - N S-162 CLINKER SILO (5-S-11) ABATED BY A-162 DUST COLLECTOR, S-163 CLINKER SILO (5-S-12) ABATED BY A-163 DUST COLLECTOR, S-164 FREELIME STORAGE BIN ABATED BY A-164 DUST COLLECTOR RANSFER SYSTEM ABATED BY A-165 DUST COLLECTOR AND A-190 I |
| P/D                                  | Monitoring Frequency (P/C/N)                | T:<br>0 (5-S-11) A<br>0 (5-S-12) A<br>0 (5-S-12) A<br>0 (5-S-12) A<br>3 A T E D BY A  |
| Record keeping                       | Monitoring<br>Type                          | Table - N ABATED BY A-1 ABATED BY A-1 N ABATED BY A A-165 DUST CO   |
|                                      | Affected<br>Source                          | 62 DUST CO 63 DUST CO 164 DUST CO LLECTOR A   |
| NONE TO                              | Period of<br>Excess<br>(Date and Time)      | Collector, Collector, Collector, r Collector and A-190 Dust Collectors  |
|                                      | Actual<br>Excess                            | COLLECTO  |
|                                      | Comments (causes, corrective actions, etc.) | )RS   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 27 of 71

|  |   | NET ON             |          | andancoung                 |               | 20751, part 3b   | 8,756                              | part B (2)            |         |
|--|---|--------------------|----------|----------------------------|---------------|--|------------------------------------|-----------------------|---------|
|  |   | NONE TO            |          | Pressure drop              | P/Q           | 2786. part C   | 6.6 lb/hr and 0.02                 | cond # 2786,          | PM10    |
|  | American                                |                    |          |                            |               | BAAQMD cond#   |                                    | BAAOMD                |         |
|  |   | REPORT             |          | monitoring                 | P/Q           | 20751, part 3b   | exceed 3.3 lbs/hr                  | cond # 804,<br>part 2 | PMIO    |
| The second second  |   | NONE TO            |          | Pressure drop              |               | BAAQMD cond#   | Particulates not to                | BAAQMD                |         |
|  |   | REPORT             |          |                            | Z             |  | r is process weight,<br>ton/hr     | 6-311                 | Weight  |
| The state of the s |   | NONE TO            |          |                            |               |  | 4.10P <sup>0.07</sup> lb/hr, where | BAAQMD                | Process |
|  |   |                    |          |                            |               | 20751, part 3b   |                                    |                       |         |
|  |   | REPORT             |          | monitoring                 | P/Q           | BAAQMD cond #  | 0.15 gr/dscf                       | 6-310                 | РМ      |
|  |   | NONE TO            |          | Presente dron              |               | BAAQMD cond #  |                                    | BAAOMD                |         |
|  |   | REPORT             |          |                            |               |  |                                    | § 60.252 (c)          |         |
|  |   | NONE TO            |          |                            | Z             |  | 20% opacity                        | Subpart Y,            | Opacity |
|  |   |                    |          |                            |               |  |                                    | 40 CFR,               |         |
|  |   | REPORT             |          | inspection<br>(M22)        | P/Q           | 20753, part 1  | Kingelmann I.U                     | 6-301                 | Opacity |
|  | *************************************** | NONE TO            |          | Visual                     | <b>;</b><br>; | BAAQMD cond#   | ;<br>-                             | BAAQMD                |         |
|  |   | REPORT             |          | monitoring                 |               | BAAQMD cond #<br>20751, part 3b                        |                                    | 6-301                 |         |
|  | ****                                    | NONE TO            |          | Pressure drop              | P/Q           | 804, part 1  | Ringelmann 1.0                     | BAAQMD                | Opacity |
|  |   |                    |          |                            |               | BAAQMD cond#   |                                    |                       |         |
| actions, etc.)   | Excess                                  | (Date and Time)    | Source   | Type                       | (P/C/N)       | Citation   | CHIOSIGH                           | Limit Citation        | Limit   |
| Comments   | Actual                                  | Period of          | Affected | Monitoring                 | Monitoring    | Monitoring   |                                    | Emission              | Type of |
|  |   |                    |          |                            |               | AL STOLEN AL   |                                    |                       |         |
|  | TOR                                     | JET DIST COLLECTOR |          | Lable - O<br>A-171 Bachous | TED BY A-     | S-171 KIIN COAL SYSTEM ARATED BY A-171 RACHOUSE, PHYSE | S-171 KILN CO                      |                       |         |
|  |   |                    |          |                            | Ţ             |  |                                    |                       |         |
|  |   |                    |          |                            |               |  |                                    |                       |         |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Major Facility Review Permit - BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date July 2012 Page 28 of 71

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

part D

Throughput

cond # 2786,

BAAQMD

Clinker production not to exceed 1.6 million tons/year

BAAQMD cond#

P/D

Record keeping

Citation

(P/C/N)

NONE TO REPORT

2786, part D

Type of Limit

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 29 of 71

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

| Process   Eniston Limit Citation   Emission Limit   Enission Limit   Enission Limit   Enission Limit   Enission Limit   Enistion   Comments      |                   | 7.0                                   | S-172 Precalciner Coal Mill abated by A-172 Baghouse, Pulse Jet Dust Collector | ER COAL MILL  | ABATED BY                    | А-172 Васно                 | use, Pulsi         | E JET DUST COI                         | LECTOR           |   |
|---|-------------------|---------------------------------------|--|---|------------------------------|-----------------------------|--------------------|--|------------------|---|
| BAAQMD 6-301  Ringelmann 1.0  BAAQMD cond # 20751. part 3b  BAAQMD cond # 20751. part 3b  BAAQMD cond # 20753. part 1  40 CFR. Subpart Y. \$ 60.252 (e)  BAAQMD 6-310  BAAQMD 6-311  BAAQMD 6-310  BAAQ | Type of<br>Limit  | Emission<br>Limit Citation            | Emission Limit   | Monitoring<br>Requirement<br>Citation                   | Monitoring Frequency (P/C/N) | Monitoring<br>Type          | Affected<br>Source | Period of<br>Excess<br>(Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.) |
| BAAQMD   Ringelmann 1.0   BAAQMD cond # P/Q   Visual inspection   20753. part 1   P/Q   (M22)   | Opacity           | BAAQMD<br>6-301                       | Ringelmann I.0   | BAAQMD cond # 1004, part 1 BAAQMD cond # 20751, part 3b | P/Q                          | Pressure drop<br>monitoring |                    | NONE TO<br>REPORT                      |                  |   |
| 40 CFR.   Subpart Y.   20% opacity   N   Subpart Y.   20% opacity   N   Subpart Y.   20% opacity   N   S 60.252 (c)     BAAQMID cond #   BAAQMID cond #   P/Q   Pressure drop   monitoring     P/Q   monitoring     P is process weight.   SAAQMID cond #   N   Pressure drop   M   SAAQMID cond #   P/Q   Pressure drop   M   M   M   M   M   M   M   M   M  | Opacity           | BAAQMD<br>6-301                       | Ringelmann 1.0   | BAAQMD cond # 20753, part 1                             | P/Q                          | Visual inspection<br>(M22)  |                    | NONE TO<br>REPORT                      |                  |   |
| BAAQMD cond #  BAAQMD cond #  1004, part 1  BAAQMD cond #  1004, part 1  BAAQMD cond #  20751, part 3b  A 100 <sup>6 o 7</sup> lb/hr, where BAAQMD cond # 1004, part 2  BAAQMD cond #  BAAQMD cond #  P is process weight.  cond # 1004, exceed 3.3 lbs/hr  part 2  BAAQMD cond #   | Opacity           | 40 CFR.<br>Subpart Y.<br>§ 60.252 (c) | 20% opacity  |   | Z                            |                             |                    | NONE TO<br>REPORT                      |                  |   |
| ## BAAQMD   | РМ                | BAAQMD<br>6-310                       | 0.15 gr/dscf   | BAAQMD cond # 1004, part 1 BAAQMD cond # 20751, part 3b | P/Q                          | Pressure drop<br>monitoring |                    | NONE TO<br>REPORT                      |                  |   |
| BAAQMD cond # 1004, cond # 1004, exceed 3.3 lbs/hr 20751, part 3b  BAAQMD cond # P/Q monitoring monitoring part 2  BAAQMD cond # 2786, part C cond # 2786, part B (2)  Pressure drop monitoring pressure drop monitoring part B (2)  BAAQMD cond # 2786, part C 2786, part S b   | Process<br>Weight | BAAQMD<br>6-311                       | 4.10P <sup>0 67</sup> lb/hr, where P is process weight, ton/hr                 |   | Z                            |                             |                    | NONE TO<br>REPORT                      |                  |   |
| BAAQMD 6.6 lb/hr and 0.02 2786, part C cond # 2786. gr/dscf · BAAQMD cond # part B (2) 2751, part 3b BAAQMD cond # part B (2) 20751, part 3b  | PM10              | BAAQMD cond # 1004, part 2            | Particulates not to exceed 3.3 lbs/hr  | BAAQMD cond#<br>20751, part 3b                          | P/Q                          | Pressure drop               |                    | NONE TO<br>REPORT                      | -                |   |
| THE PROPERTY OF THE PARTY OF TH  | PM10              | BAAQMD cond # 2786.                   | 6.6 lb/hr and 0.02<br>gr/dscf .  | BAAQMD cond # 2786, part C BAAQMD cond # 20751, part 3b | P/Q                          | Pressure drop<br>monitoring |                    | NONE TO<br>REPORT                      |                  | **************************************      |

## Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 30 of 71

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

| Type of<br>Limit | Emission<br>Limit Citation       | Emission Limit   | Monitoring Requirement Citation                         | Monitoring Frequency (P/C/N) | Monitoring<br>Type          | Affected<br>Source | Period of<br>Excess<br>(Date and Time) | Actual<br>Excess | Comments<br>(causes, corrective<br>actions, etc.) |
|------------------|----------------------------------|--|---|------------------------------|-----------------------------|--------------------|--|------------------|---|
| 01Wd             | BAAQMD cond # 2786. part B (2)   | 6.6 lb/hr and 0.02<br>gr/dscf                          | BAAQMD cond # 2786, part C BAAQMD cond # 20751, part 3b | D/d                          | Pressure drop<br>monitoring | ,                  | NONE TO<br>REPORT                      |                  |   |
| Throughput       | BAAQMD<br>cond # 2786,<br>part D | Clinker production not to exceed 1.6 million tons/year | BAAQMD cond #<br>2786, part D                           | P/D                          | Record keeping              |                    | NONE TO<br>REPORT                      |                  |   |
|                  |                                  |  |   |                              |                             |                    |  |                  |   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 31 of 71

| S-176 ROCK PLANT | Table - |
|------------------|---------|
|                  | ï       |
| 1 STORAGE PILE   | R       |

| Opacity B         | Type of E  |                                 |
|-------------------|--|---------------------------------|
| BAAQMD<br>6-301   | Emission<br>Limit Citation   |                                 |
| Ringelmann 1.0    | Emission Limit   |                                 |
|                   | Monitoring Monitoring nit Requirement Frequency Citation (P/C/N)           | S-170                           |
| Z                 | Monitoring Frequency (P/C/N)   | 6 ROCK PLA                      |
|                   | Monitoring<br>Type   | S-176 ROCK PLANT 1 STORAGE PILE |
|                   | Affected<br>Source   |                                 |
| NONE TO<br>REPORT | Period of Excess (Date and Time)   |                                 |
|                   | Actual<br>Excess   |                                 |
|                   | Period of Actual Comments Excess Excess (causes, corrective actions, etc.) |                                 |

## Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 32 of 71

|                                 |  |  | S-187                           | Ta<br>S-387) Hop             | Table - S<br>S-187 (S-387) HOPPER AND STORAGE BIN | AGE BIN            |                                  |                  |  |
|---------------------------------|--|--|---------------------------------|------------------------------|---|--------------------|----------------------------------|------------------|--|
| Type of<br>Limit                | Emission<br>Limit Citation               | Emission Limit   | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring<br>Type                                | Affected<br>Source | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.)  |
| Opacity                         | BAAQMD<br>6-301                          | Ringelmann 1.0   |                                 | Z                            |   |                    | NONE TO<br>REPORT                |                  |  |
| Opacity                         | 40 CFR Subpart OOO §60.672 (b)           | 10% opacity  | N/A                             | Z                            | Z   |                    | NONE TO<br>REPORT                | 1                |  |
| PM                              | 40 CFR<br>Subpart OOO<br>§60.672 (a) (1) | 0.022 grains/dscf  | N/A                             | Z                            | Z   |                    | NONE TO<br>REPORT                |                  | We device the second se |
| PM                              | BAAQMD<br>6-310                          | 0.15 gr/dscf   |                                 | Z                            |   |                    | NONE TO<br>REPORT                |                  | THE POPULATION OF THE POPULATI |
| Process<br>weight<br>limitation |  | 4.10P <sup>0 67</sup> lb/hr, where P is process weight, ton/hr |                                 | Z                            |   |                    | NONE TO<br>REPORT                |                  |  |
|                                 | VI                                       |  |                                 |                              |   |                    |                                  |                  |  |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Page 33 of 71

|  |   |                                 |                                 | <u> </u>          |  |
|--|---|---------------------------------|---------------------------------|-------------------|--|
|  | Type of<br>Limit                            | Opacity                         | Opacity                         | PM                | Process<br>,weight<br>limitation                                     |
|  | Emission<br>Limit Citation                  | BAAQMD<br>6-301                 | BAAQMD<br>cond # 805,<br>part 1 | BAAQMD<br>6-310   | BAAQMD<br>6-311  |
|  | Emission Limit                              | Ringelmann 1.0<br>(20% Opacity) | Ringelmann 1.0<br>(20% Opacity) | 0.15 gr/dscf      | 4.10P <sup>0 67</sup> lb/hr. where<br>P is process weight,<br>ton/hr |
| Table - T S-201 PRIMARY CRUSHER, S-202 SECONDARY CRUSHER | Monitoring Requirement Citation             |                                 |                                 |                   |  |
| Ta<br>NY CRUSHER   | Monitoring Frequency (P/C/N)                | Z                               | Z                               | Z                 | Z  |
| Table - T<br>ER, S-202 SECON                             | Monitoring<br>Type                          |                                 |                                 |                   |  |
| DARY CRU   | Affected<br>Source                          |                                 |                                 |                   |  |
| JSHER  | Period of<br>Excess<br>(Date and Time)      | NONE TO<br>REPORT               | NONE TO<br>REPORT               | NONE TO<br>REPORT | NONE TO<br>REPORT  |
|  | Actual<br>Excess                            |                                 |                                 | 8                 | ***************************************                              |
|  | Comments (causes, corrective actions, etc.) |                                 |                                 | 1111000000000     |  |

## Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 34 of 71

| S-209 SOLVENT COLD CLEANER | S-207 SOLVENT COLD CLEANER, S-208 SOLVENT COLD CLEANER, | Table - U |
|----------------------------|---|-----------|
|----------------------------|---|-----------|

| VOC  | Record   | Throughput   | Type of<br>Limit                            |  |
|--|--|--|---|--|
| BAAQMD<br>cond # 17352,<br>part 2  | BAAQMD<br>8-16-111   | BAAQMD<br>cond # 17352,<br>part 1  | Emission<br>Limit Citation                  |  |
| Not to exceed 1089<br>lbs/year   | Type & amount of solvent used  | Each source usage<br>not to exceed 150<br>gallons/year   | Emission Limit                              | S-2  |
| BAAQMD cond #  | BAAQMD cond #<br>17352, part 3   | BAAQMD Cond#<br>17352, part 3  | Monitoring<br>Requirement<br>Citation       | S-207 SOLVENT COLD CLEANER, S-208 SOLVENT COLD CLEANER, S-209 SOLVENT COLD CLEANER |
| P/M  | P/M  | P/M  | Monitoring Frequency (P/C/N)                | LD CLEANEI<br>209 SOLVEN   |
| Log/Record<br>keeping  | Log/Record<br>keeping  | Log/Record<br>keeping  | Monitoring<br>Type                          | COLD CLEANER, S-208 SOLVENT S-209 SOLVENT COLD CLEANER                             |
|  |  |  | Affected<br>Source                          | ENT COLD (<br>NER  |
| NONE TO<br>REPORT  | NONE TO<br>REPORT  | NONE TO<br>REPORT  | Period of Excess (Date and Time)            | CLEANER,   |
|  |  |  | Actual<br>Excess                            |  |
| The plant no longer uses the cleaners with solvents. S-207, S-208 and S-209 will be taken out of the Title V  Op Permits | The plant no longer uses the cleaners with solvents. S-207. S-208 and S-209 will be taken out of the Title V  Op Permits | The plant no longer uses the cleaners with solvents. S-207, S-208 and S-209 will be taken out of the Title V  Op Permits | Comments (causes, corrective actions, etc.) |  |

## Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 35 of 71 Lehigh Southwest Cement Company - Permanente Plant

| S-210 FINISH MILL (6-GM-1) ABATED BY A-210 DUST COLLECTOR (6-DC-17) | Table – V |
|---|-----------|
|   |           |

| Throughput   | Emission<br>limit               | Opacity                                   | Process<br>weight<br>limitation  | PM                                |                                | Opacity                    | Opacity                        | Type of<br>Limit                            |
|--|---------------------------------|---|--|-----------------------------------|--------------------------------|----------------------------|--------------------------------|---|
| BAAQMD<br>cond # 779.<br>part 3                        | BAAQMD<br>cond # 779,<br>part 2 | BAAQMD cond # 779, parts 1 & 4            | BAAQMD<br>6-311  | BAAQMD<br>6-310                   | \$63.1347                      | 40 CFR                     | BAAQMD<br>6-301                | Emission<br>Limit Citation                  |
| Clinker production not to exceed 1.6 million tons/year | 0.006 gr/dscf or 0.9<br>lbs/hr  | No visible fugitive emission from circuit | 4.10P <sup>0 o7</sup> lb/hr. where<br>P is process weight,<br>ton/hr   | 0.15 gr/dscf                      |                                | 10%                        | Ringelmann 1.0                 | Emission Limit                              |
|  | BAAQMD cond #<br>779, part 5    | BAAQMD cond #<br>779, parts 1 & 4         |  | BAAQMD cond #<br>779, parts 1 & 4 | §63.1349(c)                    | §63.1350(e)                | BAAQMD cond # 779, parts 1 & 4 | Monitoring<br>Requirement<br>Citation       |
| P/D .  | C                               | С   | Z  | С                                 | P/every 5<br>years             | P/D                        | С                              | Monitoring Frequency (P/C/N)                |
| Record keeping   | COMS                            | COMS                                      |  | COMS                              | Periodic source<br>test (M9)   | Visual inspection<br>(M22) | COMS                           | Monitoring<br>Type                          |
|  |                                 |   |  |                                   |                                |                            |                                | Affected<br>Source                          |
| NONE TO<br>REPORT                                      | NONE TO<br>REPORT               | NONE TO<br>REPORT                         | NONE TO<br>REPORT  | NONE TO<br>REPORT                 | NONE TO<br>REPORT              | NONE TO<br>REPORT          | NONE TO<br>REPORT              | Period of Excess (Date and Time)            |
|  |                                 | ***************************************   | T T T T T T T T T T T T T T T T T T T  |                                   |                                |                            |                                | Actual<br>Excess                            |
|  |                                 | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -   | THE CONTRACTOR OF THE CONTRACT |                                   | NESHAP Test report Dec<br>2007 |                            |                                | Comments (causes, corrective actions, etc.) |

## Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 36 of 71 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

|                                 |                                  | S-211 Separ  | Table - W           S-211 Separator (6-se-2) abated by A-211 Dust Collector (6-DC-12, 14, 16, 18) | Ta<br>BATED BY A             | Table - W<br>V A-211 DUST CO | LECTOR (6          | -DC-12, 14, 1                    | 6, 18)           |   |
|---------------------------------|----------------------------------|--|---|------------------------------|------------------------------|--------------------|----------------------------------|------------------|---|
| Type of<br>Limit                | Emission<br>Limit Citation       | Emission Limit   | Monitoring<br>Requirement<br>Citation   | Monitoring Frequency (P/C/N) | Monitoring<br>Type           | Affected<br>Source | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.) |
| Opacity                         | 8AAQMD<br>6-301                  | Ringelmann 1.0   | BAAQMD cond # 1545, parts 1 & 4   | С                            | COMS                         |                    | NONE TO<br>REPORT                |                  |   |
| Opacity                         | 40 CFR<br>Subpart LLL            | 10%  | §63.1350(e)   | P/D                          | Visual inspection<br>(M22)   |                    | NONE TO<br>REPORT                |                  |   |
|                                 | §63.1347                         |  | §63.1349(c)   | P/every 5<br>years           | Periodic source<br>test (M9) |                    | NONE TO<br>REPORT                |                  | NESHAP Test report Dec<br>2007              |
| РМ                              | BAAQMD 6-<br>310                 | 0.15 gr/dscf   | BAAQMD cond # 1545, parts 1 & 4   | С                            | COMS                         |                    | NONE TO<br>REPORT                |                  |   |
| Process<br>weight<br>limitation | BAAQMD 6-<br>311                 | 4.10P <sup>0 67</sup> lb/hr, where<br>P is process weight,<br>ton/hr |   | Z                            |                              |                    | NONE TO<br>REPORT                |                  |   |
| PM10                            | BAAQMD<br>cond # 1545,<br>part 2 | 0.006 gr/dscf or 3.6<br>lbs/hr                                       | BAAQMD cond # 1545, parts 1 & 4   | C                            | COMS                         |                    | NONE TO<br>REPORT                |                  |   |
| Throughput                      | BAAQMD cond # 1545.              | Clinker production not to exceed 1.6 million tons/year               | BAAQMD cond<br>#11780 part E  | P/D                          | Record keeping               |                    | NONE TO<br>REPORT                | 7                |   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 37 of 71

| 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 |  |
|---|--|
|---|--|

|   |                  | NONE TO<br>REPORT                | ·                  |   | Z  |  | 4.10P <sup>667</sup> lb/hr, where<br>P is process weight,<br>ton/hr | BAAQMD<br>6-311                   | Process<br>weight<br>limitation |
|---|------------------|----------------------------------|--------------------|---|--|--|---|-----------------------------------|---------------------------------|
|   |                  | NONE TO<br>REPORT                |                    | Pressure drop                                     | P/Q  | BAAQMD cond # 4996. part 2 BAAQMD cond # 20751. part 3b          | 0.15 gr/dscf  | BAAQMD<br>6-310                   | M                               |
|   |                  | NONE TO<br>REPORT                |                    | Pressure drop<br>manometer                        | P/Q  | BAAQMD cond #<br>4996, part 2<br>BAAQMD cond #<br>20751, part 3b | Ringelmann 0.5  | BAAQMD<br>cond # 4996,<br>part 1  | Opacity                         |
| NESHAP Test report Dec                      |                  | NONE TO REPORT NONE TO REPORT    |                    | Visual inspection (M22) Periodic source test (M9) | P/Monthly, semiannually, as annually, as appropriate P/every 5 years | §63.1350(a)(4)   | 10%   | 40 CFR<br>Subpart LLL<br>§63.1348 | Opacity                         |
| T T T T T T T T T T T T T T T T T T T       |                  | NONE TO<br>REPORT                |                    | Pressure drop<br>manometer                        | P/Q  | BAAQMD cond #<br>4996, part 2                                    | Ringelmann 1.0  | BAAQMD<br>6-301                   | Opacity                         |
| Comments (causes, corrective actions, etc.) | Actual<br>Excess | Period of Excess (Date and Time) | Affected<br>Source | Monitoring<br>Type                                | Monitoring<br>Frequency<br>(P/C/N)                                   | Monitoring<br>Requirement<br>Citation                            | Emission Limit  | Emission<br>Limit Citation        | Type of<br>Limit                |

#### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date July 2012 Page 38 of 71

#### Table - X

(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-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,

| Administration of the control of the |        | REPORT    |          | keeping       |            | 4996, part 5  | rioms of oberation    | 2-6-503        | keeping   |
|--|--------|-----------|----------|---------------|------------|---------------|-----------------------|----------------|-----------|
|  |        | NONE TO   |          | Log/ Record   | D/D        | BAAQMD cond # | Hours of operation    | BAAQMD         | Record    |
|  |        | REPORT    |          | monitoring    |            | 4996, part 2  |                       | part 3         | imitation |
|  |        | NONE 10   |          | Tressure usup | P/E        | DOMORID COILL | 0.006 gr/dscf         | cond # 4996,   | EHISSION  |
|  |        | NO TO TO  |          | Dracours dras |            | BAAOMD cond#  |                       | BAAQMD         | Emiceion  |
| etc.)  |        | Time)     | 0000     | z y joc       | (P/C/N)    | Citation      |                       | Change Charles |           |
| (causes, corrective actions,   | Excess | (Date and | Affected | Type          | Frequency  | Requirement   | <b>Emission Limit</b> | Limit Citation | Limit     |
| Comments   |        | Period of | 3        | Monitoring    | Monitoring | Monitoring    |                       | Emission       | Type of   |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Lehigh Southwest Cement Company - Permanente Plant Major Facility Review Permit - BAAQMD Facility ID # A0017 Page 39 of 71

| Process BAA weight 6   | PM BAA  | Opacity cond f  | §63                            | Opacity 40                                 | Opacity BAAC  | Type of Emi<br>Limit Limit                  |   |
|--|---|---|--------------------------------|--|---|---|---|
| BAAQMD 4.1   | BAAQMD<br>6-310   | BAAQMD cond # 4997, part 2                                  | §63.1347                       | 40 CFR                                     | BAAQMD 6-   | Emission<br>Limit Citation                  |   |
| 4.10P <sup>0 67</sup> lb/hr, where<br>P is process weight,<br>ton/hr | 0.15 gr/dscf  | Ringelmann 0.5  |                                | 10%  | Ringelmann 1.0  | Emission Limit                              | S-218   |
|  | BAAQMD cond # 4997. parts 1 & 4 BAAQMD cond # 20752. part 1 | BAAQMD cond # 4997, parts 1 & 4 BAAQMD cond # 20752, part 1 | §63.1349(c)                    | §63.1350(e) BAAQMD cond # 20752, part 2(D) | BAAQMD cond # 4997, parts 1 & 4 BAAQMD cond # 20752, part 1 | Monitoring Requirement Citation             | Table - Y<br>S-218 Air Separator (6-SE-1) abated by A-218 Dus |
| Z  | С   | С   | P/every 5<br>years             | P/D  | С   | Monitoring Frequency (P/C/N)                | Ta<br>or (6-SE-1)   |
|  | Triboflow leak<br>detector                                  | Triboflow leak<br>detector                                  | Periodic source<br>test (M9)   | Visual inspection<br>(M22)                 | Triboflow leak<br>detector                                  | Monitoring<br>Type                          | Table - Y  1) ABATED BY A-2                                   |
|  |   |   |                                |  |   | Affected<br>Source                          | 18 Dust Co  |
| NONE TO<br>REPORT  | NONE TO<br>REPORT   | NONE TO<br>REPORT   | NONE TO<br>REPORT              | NONE TO<br>REPORT                          | NONE TO<br>REPORT   | Period of Excess (Date and Time)            | r Collector   |
|  |   |   |                                |  |   | Actual<br>Excess                            |   |
|  |   |   | NESHAP Test report Dec<br>2007 |  |   | Comments (causes, corrective actions, etc.) |   |

#### Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Lehigh Southwest Cement Company - Permanente Plant Report Date July 2012 Page 40 of 71

## Table - Y S-218 AIR SEPARATOR (6-SE-1) ABATED BY A-218 DUST COLLECTOR

| Type of    | Fmission        |                                      | Monitoring        | Monitoring | Monitoring     | 3        | Period of | <b>A</b> | Comments                     |
|------------|-----------------|--------------------------------------|-------------------|------------|----------------|----------|-----------|----------|------------------------------|
| I imit     | I imit Citation | Emission Limit                       | Requirement       | Frequency  | Two            | Affected | (Date and | Excess   | (causes, corrective actions, |
| Casir      | Elling Citation |                                      | Citation          | (P/C/N)    | 30,00          | Source   | Time)     |          | etc.)                        |
|            | awowa           |                                      | BAAQMD cond#      |            |                |          |           |          |                              |
| DAMIO      | 2277 # 4007     | 300E/m 200 0                         | 4997, parts 1 & 4 | ž<br>Ĵ     | Triboflow bak  |          | NONE TO   |          |                              |
| LIVIO      | colid # 4777    | 0.000 \$1/0501                       | BAAQMD cond#      | 17/13      | detector       |          | REPORT    |          |                              |
|            | part 2          |                                      | 20752, part 1     |            |                |          |           |          |                              |
| Decord     | BAAQMD          |                                      | BAAOMD cond#      |            | Log/ Dagged    |          | NONE TO   |          |                              |
| Necold     | cond # 4997,    | Hours of operation                   | BAAQIMD cond #    | P/D        | Log/ Kecord    |          | NONETO    |          |                              |
| keeper     | part 7          |                                      | 4997, part 7      |            | keeping        |          | REPORT    |          |                              |
|            | BAAQMD          | Clinker production                   | DAAOMD            |            |                |          | NONE TO   |          |                              |
| Throughput | cond # 4997,    | not to exceed 1.6                    | ADD7 port 7       | G/d        | Record keeping |          | NONE      |          |                              |
|            | part 5          | million tons/year                    | 4771, pan 1       |            |                |          | REFORE    |          |                              |
| <u>~</u>   | yre (M#) meane  | Note: (M#) means "FDA That Method #" |                   |            |                |          |           |          | - Profesorational advances   |

### Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 41 of 71

| S-220 FINISH MILL (6-GM-2) AI                               |           |
|---|-----------|
| INISH MILL (6-GM-2) ABATED BY A-220 DUST COLLECTOR (6-DC-8) | Table - Z |

|                                 |                                  | S-220 F1   | S-220 FINISH MILL (6-GM-2) ABATED BY A-220 DUST COLLECTOR (6-DC-8) | M-2) ABATE                   | TED BY A-220 DU              | ST COLLEC          | TOR (6-DC-8)                     |                  |   |
|---------------------------------|----------------------------------|--|--|------------------------------|------------------------------|--------------------|----------------------------------|------------------|---|
| Type of<br>Limit                | Emission<br>Limit Citation       | Emission Limit   | Monitoring<br>Requirement<br>Citation                              | Monitoring Frequency (P/C/N) | Monitoring<br>Type           | Affected<br>Source | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.) |
|                                 | BAAQMD                           | 3:   | BAAQMD cond # 4998, parts 1 & 4                                    | <b>`</b>                     | Triboflow leak               |                    | NONE TO                          | ş                |   |
| Opacity                         | 6-301                            | Niigemaan 1.0  | BAAQMD cond#<br>20752, part 1                                      | c                            | detector                     |                    | REPORT                           |                  |   |
| Opacity                         | 40 CFR                           | 10%  | \$63.1350(e) BAAQMD cond # 20752, part 2(D)                        | P/D                          | Visual inspection<br>(M22)   |                    | NONE TO<br>REPORT                |                  |   |
|                                 | §63.1347                         |  | §63.1349(c)  | P/every 5<br>years           | Periodic source<br>test (M9) |                    | NONE TO<br>REPORT                |                  | NESHAP Test report Dec<br>2007              |
| Opacity                         | BAAQMD<br>cond # 4998.<br>part 2 | Ringelmann 0.5   | BAAQMD cond # 4998, parts 1 & 4 BAAQMD cond # 20752, part 1        | С                            | Triboflow leak<br>detector   |                    | NONE TO<br>REPORT                |                  |   |
| PM                              | BAAQMD<br>6-310                  | 0.15 gr/dscf   | BAAQMD cond # 4998, parts 1 & 4 BAAQMD cond # 20752, part 1        | С                            | Triboflow leak<br>detector   |                    | NONE TO<br>REPORT                | -                |   |
| Process<br>weight<br>limitation | BAAQMD<br>6-311                  | 4.10P <sup>o 67</sup> lb/hr, where<br>P is process weight,<br>ton/hr |  | Z                            |                              |                    | NONE TO<br>REPORT                |                  |   |

### Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 42 of 71

## Table - Z S-220 Finish Mill (6-gm-2) abated by A-220 Dust Collector (6-DC-8)

|             | Ì              |   | ,                 | •          |                |          | ,         |        |                                       |
|-------------|----------------|---|-------------------|------------|----------------|----------|-----------|--------|---------------------------------------|
| Tune of     | Emiceion       |   | Monitoring        | Monitoring | Monitoring     |          | Period of | -      | Comments                              |
| l imit      | Limit Citation | Emission Limit  | Requirement       | Frequency  | Zini ioni ioni | Affected | Date and  | Excess | (causes, corrective actions,          |
| CHILL       | Edit Citation  |   | Citation          | (P/C/N)    | туре           | Source   | Time)     |        | etc.)                                 |
|             | BAAOMD         |   | BAAQMD cond#      |            |                |          |           |        |                                       |
| DM10        | 2008 # 7008    | 0.006 cm/deaf   | 4998, parts 1 & 4 | מ/ה        | Triboflow lead |          | NONE TO   |        |                                       |
| 7 1711/0    | rold # 4//o    | 0.000 81/0301   | BAAQMD cond #     | F/15       | detector       |          | REPORT    |        |                                       |
|             | paro           |   | 20752, part 1     |            |                |          |           |        |                                       |
|             | RAAOMD         | Import 5000 tons for                                  |                   |            |                |          |           |        |                                       |
| Theranghant | cond # 4998    | each day the kiln is                                  | BAAQMD cond#      | و<br>ا     | Log/ Hours of  |          | NONE TO   |        |                                       |
| or Bulbac   | part 5         | down in excess of 45                                  | 4998, part 7      | -          | Operation      |          | REPORT    |        |                                       |
|             | 2.170          | days  |                   |            |                |          |           |        |                                       |
|             | BAAQMD         | Clinker production                                    | # F*** CMAD VV &  |            |                |          | NO NE TO  |        | T T T T T T T T T T T T T T T T T T T |
| Throughput  | cond # 4998,   | not to exceed 1.6                                     | 4997 port 7       | P/D        | Record keeping |          | NONE 10   |        |                                       |
|             | part 5         | million tons/year                                     | 4777. pait 7      |            |                |          | KETOKI    |        |                                       |
| <u>~</u>    |                | No. 1. (1. 11) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |                   |            |                |          |           |        |                                       |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 43 of 71

|                              |                 | NEI ONI           |   |                   |                            |   | ton/hr                             |                        | limitation        |
|------------------------------|-----------------|-------------------|---|-------------------|----------------------------|---|------------------------------------|------------------------|-------------------|
|                              |                 | AGNASA<br>OT SMON |   |                   | Z                          |   | P is process weight.               | 6-311                  | weight            |
|                              |                 | NOME TO           |   |                   | :                          |   | 4.10P <sup>0</sup> 67 lb/hr. where | RAAOMD                 | Process           |
|                              |                 | REPORT            |   | manometer         | ÐQ                         | 4995, part 2  | O. FO GOCI                         | 6-310                  |                   |
|                              |                 | NONE TO           |   | Pressure drop     | p/O                        | BAAQMD cond#  | 0 15 or/deef                       | BAAQMD                 | PΜ                |
|                              |                 | REPORT            |   | manometer         | ,                          | 4995, part 2  |                                    | part 1                 |                   |
|                              |                 | NONE TO           |   | Pressure drop     | P/O                        | BAAQMD cond #   | Ringelmann 0.5                     | BAAQMD<br>cond # 4995, | Opacity           |
| 2007                         |                 | REPORT            |   | test (M9)         | years                      | (2)(4)(4)   |                                    |                        |                   |
| NESHAP Test report Dec       |                 | NONE TO           |   | Periodic source   | P/every 5                  | 863 1349 <i>(c</i> )  |                                    | §63.1348               |                   |
|                              |                 |                   |   |                   | appropriate                |   |                                    | Subpart LLL            | ( )<br>( )<br>( ) |
|                              |                 | REPORT            |   | (M22)             | annually, as               | 300.1000(a) (T)   | 10%                                | 40 CFR                 | Onacity           |
|                              |                 | NONE TO           |   | Visual inspection | semiannually,              | 863 1350(a) (4)   |                                    |                        |                   |
|                              |                 |                   |   |                   | P/Monthly,                 |   |                                    |                        |                   |
|                              |                 | REPORT            |   | (M22)             | - 2                        | 20753, part 1   | King vinianii 1.0                  | 6-301                  | Caramados         |
|                              |                 | NONE TO           |   | Visual inspection | P/()                       | BAAQMD cond#  | Ringelmann I A                     | BAAQMD                 | Onacity           |
|                              |                 | REPORT            |   | manometer         | 12                         | 4995, part 2  | vingennam 1.0                      | 6-301                  | Spaces            |
|                              |                 | NONE TO           |   | Pressure drop     | P/O                        | BAAQMD cond#  | Ringelmann I ()                    | BAAQMD                 | Opacity           |
| etc.)                        |                 | Time)             | Dource                                  | ı ype             | (P/C/N)                    | Citation  |                                    | -Similar Citation      |                   |
| (causes, corrective actions, | Excess          | (Date and         | Source                                  | 7                 | Frequency                  | Requirement   | Emission Limit                     | Limit Citation         |                   |
| Comments                     | À 24112         | Period of         | *************************************** | Manifering        | Monitoring                 | Monitoring  |                                    | Emission               | Type of           |
|                              |                 | TOR (6-DC-5       | UST COLLEC                              | ED BY A-245 D     | WF-5) ABATI                | S-245 CLAY FEEDER (6-WF-5) ABATED BY A-245 DUST COLLECTOR (6-DC-5)  | S-245 C1                           |                        |                   |
| nakakakak is                 | <u>`</u> ;      | ECTOR (6-DC       | <b>DUST COLL</b>                        | TED BY A-244      | 6-WF-7) ABA                | S-244 Pozzolan Feeder (6-wf-7) abated by A-244 Dust Collector (6-DC-7),   | <b>S-244 Pozz</b>                  |                        |                   |
| <b>Specification</b>         | .9),            | ECTOR (6-DC-      |   | TED BY A-243      | -WF-9) ABA                 | S-243 GYPSUM FEEDER (6-WF-9) ABATED BY A-243 DUST COLLECTOR (6-DC-9),   | S-243 Gype                         |                        |                   |
|                              | <del>4</del> ), | LLECTOR (6-DC-4), |   | 'ED BY A-222 I    | -WF-4) ABAT<br>B/BINS ABAT | S-222 GYPSUM FEEDER (6-WF-4) ABATED BY A-222 DUST COLLECTOR (6-DC-4), S-240 ADDITIVE CONVEYOR/RING ABATED BY A-240 DUST COLLECTOR (6-DC-21) | S-222 Gyp                          |                        |                   |
|                              |                 |                   |   | Table - AA        | Tal                        |   |                                    |                        |                   |
|                              |                 |                   |   |                   |                            |   |                                    |                        |                   |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Page 44 of 71

| White the state of |                                  | REPORT  |   | keeping  | 111   | 4995, part 6  | i conto di obcinitori                                       | 2-6-503                          | keeping           |
|--|----------------------------------|---|---|--|---|---|---|----------------------------------|-------------------|
|  |                                  | NONE TO   |   | Log/Record   | P/J   | BAAQMD cond#  | House of operation  | BAAQMD                           | Record            |
|  |                                  | NONE TO<br>REPORT   |   | Log/ Record<br>keeping   | P/Q   | BAAQMD cond # 4995, part 6  | Pressure Drop   | BAAQMD<br>cond # 4995,<br>part 3 | Record<br>keeping |
| ·  |                                  | NONE TO<br>REPORT   |   | Pressure drop<br>monitoring  | P/E   | BAAQMD cond # 4995, part 2 BAAQMD cond # 20751, part 3b   | 0.0013 gr/dscf  | BAAQMD<br>cond # 4995.<br>part 3 | PM10              |
| Comments (causes, corrective actions, etc.)  | Actual<br>Excess                 | Period of Excess (Date and Time)  | Affected<br>Source                          | Monitoring<br>Type   | Monitoring Frequency (P/C/N)                        | Monitoring Requirement Citation   | Emission Limit  | Emission<br>Limit Citation       | Type of<br>Limit  |
|  | .4),<br>.21),<br>.59),<br>.7-7), | CTOR (6-DC-<br>CTOR (6-DC-<br>CTOR (6-DC-<br>ECTOR (6-DC-<br>TOR (6-DC- | DUST COLLE DUST COLLE DUST COLLE DUST COLLE | Table - AA BATED BY A-222 I BATED BY A-240 I BATED BY A-243 I ABATED BY A-243 I BATED BY A-245 D | Tat-WF-4) ABAT R/BINS ABAT -WF-9) ABAT [6-WF-7) ABA | Table - AA  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-244 Dust Collector (6-DC-7), S-245 Clay Feeder (6-wf-5) abated by A-245 Dust Collector (6-DC-5) | S-222 GY<br>S-240 Add<br>S-243 Gyr<br>S-244 Poz:<br>S-245 C |                                  |                   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 45 of 71

| Process BAAQMD weight 6-311  | PM BAAQMD<br>6-310  | BAAQMD Opacity cond # 4999, part 1                     | §05.154/                       | 40 CFR Opacity Subpart LLL                 | Opacity 8AAQMD<br>6-301                                | Type of Emission Limit Limit Citation       |  |
|--|---|--|--------------------------------|--|--|---|--|
| 9MD 4.10P <sup>0 o7</sup> lb/hr, where P is process weight. ton/hr | 0.15 gr/dscf  | 9MD<br>4999. Ringelmann 0.5                            | 34/                            | FR LLL 10%                                 | MD Ringelmann 1.0                                      | sion Emission Limit                         | S-230 HYDF   |
| here<br>ght.   | BAAQMD cond #<br>4999, part 4<br>BAAQMD cond #<br>20752, part 1 | BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1 | §63.1349(c)                    | §63.1350(e) BAAQMD cond # 20752, part 2(D) | BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1 | Monitoring it Requirement Citation          | Table - BB S-230 HYDRAULIC ROLLER PRESS (6-RP-1) ABATED BY A-230 DUST COLLECTOR (6-DC-2) |
| Z  | С   | С  | P/every 5<br>years             | P/D  | С  | Monitoring Frequency (P/C/N)                | Ta<br>ESS (6-RP-1)   |
|  | Triboflow leak<br>detector                                      | Triboflow leak<br>detector                             | Periodic source test (M9)      | Visual inspection (M22)                    | Triboflow leak<br>detector                             | Monitoring<br>Type                          | Table - BB<br>1) ABATED BY A-  |
|  |   |  |                                |  |  | Affected<br>Source                          | 230 Dust C   |
| NONE TO<br>REPORT  | NONE TO<br>REPORT   | NONE TO<br>REPORT                                      | NONE TO<br>REPORT              | NONE TO<br>REPORT                          | NONE TO<br>REPORT                                      | Period of Excess (Date and Time)            | OLLECTOR (   |
|  |   |  |                                |  |  | Actual<br>Excess                            | 6-DC-2)  |
|  |   |  | NESHAP Test report Dec<br>2007 |  |  | 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 April 18, 2012 through June 30, 2012 Report Date July 2012 Page 46 of 71

| Table - BB S-230 Hydraillic Roller Press (6-rp-1) abated by A-230 Dist Collector (6-DC-2) |
|---|
|---|

|                  |                                  | S-230 HYDRAUI  | S-230 HYDRAULIC ROLLER PRESS (6-RP-1) ABATED BY A-230 DUST COLLECTOR (6-DC-2) | ESS (6-RP-1)                 | ABATED BY A-               | 230 DUST C         | OLLECTOR (6                      | -DC-2)           |   |
|------------------|----------------------------------|--|---|------------------------------|----------------------------|--------------------|----------------------------------|------------------|---|
| Type of<br>Limit | Emission<br>Limit Citation       | Emission Limit   | Monitoring<br>Requirement<br>Citation   | Monitoring Frequency (P/C/N) | Monitoring<br>Type         | Affected<br>Source | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.) |
| PM10             | BAAQMD<br>cond # 4999<br>part 3  | 0.006 gr/dscf  | BAAQMD cond #<br>4999, part 4<br>BAAQMD cond #<br>20752, part 1               | P/E                          | Triboflow leak<br>detector |                    | NONE TO                          |                  |   |
| Throughput       | BAAQMD<br>cond # 4999,<br>part 5 | Import 5000 tons for<br>each day the kiln is<br>down in excess of 45<br>days | BAAQMD cond #<br>4999. part 7   | P/D                          | Log/ Hours of<br>Operation |                    | NONE TO<br>REPORT                |                  |   |
| Throughput       | BAAQMD cond # 4999.              | Clinker production not to exceed 1.6 million tons/year                       | BAAQMD cond # 4999, part 7  | D/D                          | Log/ Record<br>keeping     |                    | NONE TO<br>REPORT                |                  |   |
| Z                | vier (M#) means :                | Note: (M#) means "FDA Test Mathed #"   |   |                              |                            |                    |                                  |                  |   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 47 of 71

|   |                  | REPORT                           |                    |                                 | Z                            |                                  | ton/hr   | 6-311                                   |                  |
|---|------------------|----------------------------------|--------------------|---------------------------------|------------------------------|----------------------------------|--|---|------------------|
|   |                  | OT THON                          |                    |                                 |                              |                                  | 4.10P <sup>0.67</sup> lb/hr, where   | BAAQMD                                  | •                |
| 1 0000 control (minute)                     | - Tarabonistas   | NONE TO<br>REPORT                |                    | Log/Record<br>keeping           | P/.D                         | BAAQMD cond #<br>7252, part 6    | 0.15 gr/dscf   | BAAQMD<br>6-310                         | Mď               |
| 1700000000                                  |                  | NONE TO<br>REPORT                |                    | Log/Record<br>keeping           | P/D                          | BAAQMD cond # 7252, part 6       | Ringelmann 0.5   | BAAQMD<br>cond # 7252.<br>part 1        | Opacity          |
|   |                  | NONE TO<br>REPORT                |                    | 2.                              | Z                            | N/A                              | 0.022 grains/dscf  | 40 CFR<br>Subpart OOO<br>60.672 (a) (1) | PM               |
|   |                  | NONE TO<br>REPORT                |                    | Water flow rate & pressure drop | С                            | 40 CFR Subpart<br>OOO<br>§60.674 | Not to exceed 10% opacity  | 40 CFR<br>Subpart OOO<br>60.672 (b)     | Opacity          |
|   | 1                | NONE TO<br>REPORT                |                    | Water spray<br>system           | С                            | BAAQMD cond # 7252, part 2 & 4   | Ringelmann 1.0   | BAAQMD<br>6-301                         | Opacity          |
| Comments (causes, corrective actions, etc.) | Actual<br>Excess | Period of Excess (Date and Time) | Affected<br>Source | Monitoring<br>Type              | Monitoring Frequency (P/C/N) | Monitoring Requirement Citation  | Emission Limit   | Emission<br>Limit Citation              | Type of<br>Limit |
|   | AY SYSTEN        | WATER SPR                        | ED BY A-300        | Table - CC<br>RAGE PILES ABATE  | Tat<br>ATE STORAG            | WET AGGREG                       | Table - CC<br>S-300 Rockplant Wet Aggregate Storage Piles abated by A-300 Water Spray System | S                                       |                  |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Page 48 of 71

| 1  |          |  |
|--|----------|--|
| ì  |          |  |
| 5  |          |  |
| J  |          |  |
|  |          |  |
| Š  |          |  |
| 2  |          |  |
| ,  |          |  |
| ì  |          |  |
| á  |          |  |
| į  |          |  |
| ?<br>                                    |          |  |
| >  |          |  |
| )  |          |  |
| 5  |          |  |
| )  |          |  |
| 3  |          |  |
| ט<br>נ                                   |          |  |
| 3  |          |  |
| 9  | <b>;</b> |  |
|  | 22       |  |
| j  | 7        |  |
|  |          |  |
| 7  | ï        |  |
| 7  | ) - C    |  |
| <b>5</b>                                 | _        |  |
| <b>5</b>                                 | Q        |  |
| Dry ma . m .                             | Q        |  |
| The section                              | Q        |  |
| Dry mo in imp                            | Q        |  |
| Dry mo amanman                           | Q        |  |
| Dry mo and mon ner A                     | Q        |  |
| Dry no interna nez 4 2                   | Q        |  |
| C . T. Trop Day A 3                      | Q        |  |
| C . T. Trop Day A 3                      | Q        |  |
| C . T. Trop Day A 3                      | Q        |  |
| 200 W.                                   | Q        |  |
| 200 W.                                   | Q        |  |
| o imimum A 700 Williams of               | Q        |  |
| 200 W.                                   | Q        |  |
| o imimum A 700 Williams of               | Q        |  |
| o in the new A 200 With the Control      | Q        |  |
| o in the new A 200 With the Control      | Q        |  |
| Common A 200 Williams Com as Carren      | Q        |  |
| The man are a 200 Milliant Can be Commis | Q        |  |
| Common A 200 Williams Com as Carren      | Q        |  |

|                          | Š                                | S-300 ROCKPLANT WET AGGREGATE STORAGE PILES ABATED BY A-300 WATER SPRAY SYSTEM         | WET AGGREGA                     | TE STORAG                    | RAGE PILES ABATE       | D BY A-300 1       | WATER SPRA                       | Y SYSTEM                               |  |
|--------------------------|----------------------------------|--|---------------------------------|------------------------------|------------------------|--------------------|----------------------------------|--|--|
| Type of<br>Limit         | Emission<br>Limit Citation       | Emission Limit   | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring<br>Type     | Affected<br>Source | Period of Excess (Date and Time) | Actual<br>Excess                       | Comments (causes, corrective actions, etc.)  |
|                          |                                  | Water flow rate shall  |                                 |                              |                        |                    |                                  |  |  |
| Water flow               | BAAQMD<br>cond # 7252            | over the four storage piles and the system shall operate                               | BAAQMD cond#                    | С                            | Water spray            |                    | NONE TO                          |  |  |
| rate                     | part 3                           | start opciate frequently enough to maintain the surface moisture of the storage piles. | 7252, part 2 & 4                | C                            | system                 |                    | REPORT                           |  |  |
| Wet Surface<br>Condition | BAAQMD<br>cond # 7252,<br>part 4 | Completely "surface-<br>wet"   | BAAQMD cond#<br>7252. part 6    | P/D                          | Log/ Record<br>keeping | -                  | NONE TO<br>REPORT                | ************************************** | - THE THE PARTY OF |
| Throughput               | MD<br>252,                       | Stockpiles product not to exceed 1.5 million tons/year                                 | BAAQMD cond #<br>7252. part 6   | P/D                          | Record keeping         | -                  | NONE TO<br>REPORT                |  |  |
|                          |                                  |  |                                 |                              |                        |                    |                                  |  |  |

### Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Lehigh Southwest Cement Company - Permanente Plant Page 49 of 71

|                                 |                                  | Table - DD  S-301 RAIL LOADOUT SYSTEM ABATED BY A-301 RAIL LOADOUT DI  Monitoring Monitoring | OUT SYSTEM A   | Tak<br>BATED BY A.                                | Table - DD  V A-301 RAIL LOA | DOUT DUST          | UST COLLECTOR (7-DC-9)           | (7-DC-9)         | Comments                                    |
|---------------------------------|----------------------------------|--|--|---|------------------------------|--------------------|----------------------------------|------------------|---|
| Type of<br>Limit                | Emission<br>Limit Citation       | Emission Limit   | Monitoring Requirement Citation                                  | Monitoring Frequency (P/C/N)                      | Monitoring<br>Type           | Affected<br>Source | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.) |
| Opacity                         | BAAQMD<br>6-301                  | Ringelmann 1.0   | BAAQMD cond #<br>7837. part 4<br>BAAQMD cond #<br>20751. part 3b | P/Q   | Pressure drop<br>monitoring  |                    | NONE TO<br>REPORT                |                  |   |
| Opacity                         | 40 CFR<br>Subpart LLL            | 10%  | \$63.1350(a) (4)   | P/Monthly, semiannually, annually, as appropriate | Visual inspection<br>(M22)   |                    | NONE TO<br>REPORT                |                  |   |
|                                 | §63.1348                         |  | §63.1349(c)  | P/every 5<br>years                                | Periodic source<br>test (M9) |                    | NONE TO<br>REPORT                |                  | NESHAP Test report Dec<br>2007              |
| Opacity                         | BAAQMD<br>cond # 7837,<br>part 2 | Ringelmann 0.5   | BAAQMD cond # 7837, part 4 BAAQMD cond # 20751, part 3b          | P/Q   | Pressure drop<br>monitoring  |                    | NONE TO<br>REPORT                |                  | 7   |
| PΜ                              | BAAQMD<br>6-310                  | 0.15 gr/dscf   | BAAQMD cond #<br>7837, part 4                                    | P/Q   | Pressure drop<br>monitoring  | T TERMINISTER      | NONE TO<br>REPORT                |                  |   |
| Process<br>weight<br>limitation | BAAQMD<br>6-311                  | 4.10P <sup>067</sup> lb/hr, where P is process weight, ton/hr                                |  | Z   |                              |                    | NONE TO<br>REPORT                |                  |   |
| PM10                            | BAAQMD<br>cond # 7837<br>part 5  | 0.01 gr/dscf   | BAAQMD cond # 7837, part 4 BAAQMD cond # 20751, part 3b          | P/E   | Pressure drop<br>monitoring  |                    | NONE TO<br>REPORT                | T TOPANALO.      |   |

### Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 50 of 71

## Table - DD

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

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 51 of 71 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

| PM10   BAAQMD   cond # 7247   part 3 | FP BAAQMD<br>6-311   | PM BAAQMD<br>6-310                                       | Opacity cond # 7247                                      | 40 CFR PM Subpart OOO 60.672 (a) (1) | 40 CFR Opacity Subpart OOO 60.672 (b) | Opacity BAAQMD<br>6-301                                  | Type of Emission Limit Limit Citation       | WHITTON AND ADDRESS OF THE PROPERTY OF THE PRO |
|--------------------------------------|--|--|--|--------------------------------------|---------------------------------------|--|---|--|
|                                      |  |  | ,  |                                      |                                       |  |   | S-3  |
| 0.0013 gr/dscf                       | 4.10P <sup>0 o7</sup> lb/hr, where P is process weight, ton/hr   |  | Ringelmann 0.5   | 0.022 grains/dscf                    | 10% opacity                           | Ringelmann 1.0   | Emission Limit                              | 40 COARSE<br>S-343 CRU<br>S-   |
| BAAQMD cond #<br>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<br>OOO<br>§60.675     | 40 CFR Subpart<br>OOO<br>§60.674      | BAAQMD cond # 7247, part 2b BAAQMD cond # 20751, part 3b | Monitoring<br>Requirement<br>Citation       | ROCK WITHDI<br>S-341 SCREEN<br>SHED ROCK C   |
| P/E                                  | Z  | P/Q  | P/Q  | P/E                                  | P/Q                                   | P/Q  | Monitoring Frequency (P/C/N)                | Tab<br>RAWAL SYST<br>S ABATED BY<br>ONVEYORS,<br>OR ABATED   |
| Pressure drop<br>monitoring          |  | Pressure drop<br>monitoring                              | Pressure drop<br>monitoring                              | (M5) or (M17)                        | Pressure Drop<br>monitoring           | Pressure drop<br>monitoring                              | Monitoring<br>Type                          | Table - EE  S-340 Coarse Rock Withdrawal System abated by A-340 Baghouse (8-DC 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)  |
|                                      |  |  |  |                                      |                                       |  | Affected<br>Source                          | A-340 BAG<br>OUSE (8-DC-4<br>41 BAGHOU-<br>HOUSE (8-D-   |
| NONE TO<br>REPORT                    | NONE TO<br>REPORT  | NONE TO<br>REPORT  | NONE TO<br>REPORT  | N/A for this reporting period        | NONE TO<br>REPORT                     | NONE TO<br>REPORT  | Period of Excess (Date and Time)            | 0 BAGHOUSE (8-DC-50),<br>1-DC-51),<br>GHOUSE (8-DC-51),<br>E (8-DC-30)   |
|                                      |  |  |  |                                      |                                       |  | Actual<br>Excess                            | C-50),   |
|                                      | TO MARKET, THE PARTY OF THE PAR |  |  |                                      |                                       |  | Comments (causes, corrective actions, etc.) |  |

#### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date July 2012 Page 52 of 71

|   |                  | NONE TO<br>REPORT   |                    | Log/ Record<br>keeping  | P/D  | BAAQMD cond # 7247, part 8 & 9  | Total hours of operation 5,660/year  | BAAQMD cond # 7247, part 7       | Hours of<br>Operation |
|---|------------------|---|--------------------|---|--|---|--|----------------------------------|-----------------------|
|   |                  | NONE TO<br>REPORT   |                    | Log/ Record<br>keeping  | D/D  | BAAQMD cond #<br>7247. parts 8 & 9  | Total of combined overburden coarse rock, sub-base rock and class 2 rock processed 2.5 million tons/year | BAAQMD<br>cond # 7247,<br>part 6 | Log record<br>keeping |
|   |                  | NONE TO REPORT  |                    | Record keeping  | D/D  | BAAQMD cond #<br>7247, parts 8 & 9  | Total of overburden coarse rock processed 1.5 million tons/year  | BAAQMD<br>cond # 7247,<br>part 5 | Throughput            |
| Comments (causes, corrective actions, etc.) | Actual<br>Excess | Period of Excess (Date and Time)                                  | Affected<br>Source | Monitoring<br>Type  | Monitoring<br>Frequency<br>(P/C/N)             | Monitoring<br>Requirement<br>Citation   | Emission Limit   | Emission<br>Limit Citation       | Type of<br>Limit      |
|   | C-50),           | Васноизе (8-DC-50).<br>-DC-51),<br>эноизе (8-DC-51),<br>(8-DC-30) |                    | Table - EE YSTEM ABATED BY BY A-341 BAGHO RS ABATED BY A-3 FED BY A-390 BAO | Tak<br>RAWAL SYSI<br>S ABATED BY<br>ONVEYORS A | Table - EE S-340 COARSE ROCK WITHDRAWAL SYSTEM ABATED BY A-340 BAGHOUSE (8-DC-51), 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<br>S-343 Cr<br>S  |                                  |                       |

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

part 7

### Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 53 of 71 Lehigh Southwest Cement Company - Permanente Plant

| S-342 ROCK CRUSHERS ABATED BY A-342 BAGHOUSE (8- | Table - FF |  |
|--|------------|--|
| USE (8-DC-52)                                    |            |  |

| FP BAAQMD  | PM BAAQMD 6-310  | Opacity cond # 7246,                                   | 40 CFR PM Subpart OOO 60.672 (a) (1) | 40 CFR Opacity Subpart OOO 60.672 (b) | Opacity BAAQMD 6-301           | Opacity 6-301  | Type of Emission Limit Limit Citation       |     |
|--|--|--|--------------------------------------|---------------------------------------|--------------------------------|--|---|-----|
| 4.10P <sup>0 o7</sup> 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                              | i   |
|  | 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<br>OOO<br>§60.674      | BAAQMD cond # 20752, part 2(D) | BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1 | Monitoring<br>Requirement<br>Citation       | 1   |
| Z  | С  | С  | Z                                    | P/Q                                   | P/D                            | C  | Monitoring<br>Frequency<br>(P/C/N)          |     |
|  | Triboflow leak detector                                | Triboflow leak<br>detector                             | Z                                    | Pressure drop<br>monitoring           | Visual inspection (M22)        | Triboflow leak<br>detector                             | Monitoring<br>Type                          | # H |
|  |  |  |                                      |                                       |                                |  | Affected<br>Source                          |     |
| NONE TO<br>REPORT  | NONE TO<br>REPORT                                      | NONE TO<br>REPORT                                      | NONE TO<br>REPORT                    | NONE TO<br>REPORT                     | NONE TO<br>REPORT              | NONE TO<br>REPORT                                      | Period of Excess (Date and Time)            |     |
|  | and the second   | 110000000  |                                      |                                       |                                |  | Actual<br>Excess                            |     |
|  |  |  |                                      |                                       |                                |  | Comments (causes, corrective actions, etc.) |     |

#### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Page 54 of 71

### Table - FF S-342 ROCK Crushers abated by A-342 Baghouse (8-DC-52)

|   |                  | NONE TO                          |                    | Log/ Record<br>keeping     | P/D                          | BAAQMD cond# 7246, part 9                              | Total hours of operation 5,660/year   | BAAQMD<br>cond # 7246.<br>part 7 | Hours of<br>Operation |
|---|------------------|----------------------------------|--------------------|----------------------------|------------------------------|--|---|----------------------------------|-----------------------|
|   |                  | NONE TO<br>REPORT                |                    | Log/ Record<br>keeping     | P/D                          | BAAQMD cond #<br>7246, part 9                          | Overburden coarse rock, Aggregate subbase and Class 2 base rock processed 2.5 million tons/year | BAAQMD<br>cond # 7246,<br>part 6 | Log record<br>keeping |
| ,   |                  | NONE TO<br>REPORT                |                    | Log/ Record<br>keeping     | P/D                          | BAAQMD cond# 7246, part 9                              | Overburden coarse rock processed 1.5 million tons/year  | BAAQMD<br>cond # 7246,<br>part 5 | Throughput            |
|   |                  | NONE TO<br>REPORT                |                    | Triboflow leak<br>detector | С                            | BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1 | 0.0013 gr/dscf  | BAAQMD<br>cond # 7246<br>part 2  | PM10                  |
| Comments (causes, corrective actions, etc.) | Actual<br>Excess | Period of Excess (Date and Time) | Affected<br>Source | Monitoring<br>Type         | Monitoring Frequency (P/C/N) | Monitoring Requirement Citation                        | Emission Limit  | Emission<br>Limit Citation       | Type of<br>Limit      |
|   |                  |                                  |                    |                            |                              |  |   |                                  |                       |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 55 of 71 Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017

|   |                  | NET ON I                         |                    | Burdaas                |                              | on too part of                  | tons/year   | part 4                                  |                          |
|---|------------------|----------------------------------|--------------------|------------------------|------------------------------|---------------------------------|---|---|--------------------------|
| T TOTAL CONTRACTOR                          |                  | NONE TO                          |                    | Log/ Record            | D/Q                          | BAAQMD cond #                   | Rock processed not to exceed 1.5 million                      | BAAQMD<br>cond # 7248,                  | Throughput               |
|   |                  | NONE TO<br>REPORT                |                    | Log/ Record<br>keeping | P/D                          | BAAQMD cond #<br>7248, part 5   | Completely "surface-<br>wet"                                  | BAAQMD<br>cond # 7248.<br>part 3        | Wet Surface<br>Condition |
|   |                  | NONE TO<br>REPORT                |                    |                        | Z                            |                                 | 4.10P <sup>0</sup> ° lb/hr. where P is process weight. ton/hr | BAAQMD<br>6-311                         | FP                       |
| 77////                                      |                  | NONE TO<br>REPORT                |                    | Log/Record<br>keeping  | P/D                          | BAAQMD cond #<br>7248, part 5   | 0.15 gr/dscf  | BAAQMD<br>6-310                         | PM                       |
| 7   | -                | NONE TO<br>REPORT                |                    | Log/Record<br>keeping  | D/A                          | BAAQMD cond # 7248. part 5      | Ringelmann 0.5  | BAAQMD<br>cond # 7248.                  | Opacity                  |
| 7   |                  | NONE TO<br>REPORT                |                    | Z                      | Z                            | N/N                             | 0.022 grains/dscf   | 40 CFR<br>Subpart OOO<br>60.672 (a) (1) | PM                       |
|   |                  | NONE TO<br>REPORT                |                    | Z                      | Z                            | N/A                             | 10% opacity   | 40 CFR<br>Subpart OOO<br>60.672 (b)     | Opacity                  |
|   |                  | NONE TO<br>REPORT                |                    | Log/Record<br>keeping  | P/D                          | BAAQMD cond #<br>7248, part 5   | Ringelmann 1.0  | BAAQMD<br>6-301                         | Opacity                  |
| Comments (causes, corrective actions, etc.) | Actual<br>Excess | Period of Excess (Date and Time) | Affected<br>Source | Monitoring<br>Type     | Monitoring Frequency (P/C/N) | Monitoring Requirement Citation | Emission Limit  | Emission<br>Limit Citation              | Type of<br>Limit         |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 56 of 71

|                              |        |                        |            |                       |            |                           |  | h               | *************************************** |
|------------------------------|--------|------------------------|------------|-----------------------|------------|---------------------------|--|-----------------|---|
|                              |        | REPORT                 |            | keeping               |            | 7249, part 5              | wet"   | norte 3 & 4     | Condition                               |
|                              |        | NONE TO                |            | Log/ Record           | P/D        | BAAQMD cond#              | Completely "surface-   | BAAQMD          | Wet Surface                             |
|                              |        | NONE TO<br>REPORT      |            |                       | Z          |                           | P is process weight,<br>ton/hr   | BAAQMD<br>6-311 | БЪ                                      |
|                              |        |                        |            |                       |            |                           | 4.10P <sup>6 67</sup> lb/hr, where   |                 |   |
|                              |        | NONE TO<br>REPORT      |            | Log/Record<br>keeping | P/ID       | BAAQMD cond# 7249, part 5 | 0.15 gr/dscf   | BAAQMD<br>6-310 | ΡM                                      |
|                              |        | NEI ON I               |            |                       |            | 12+2, pair 5              |  | part 1          |   |
|                              |        | NONE TO                |            | keeping               | מ/ק        | 73/10 mart 5              | Ríngelmann 0.5   | cond # 7249,    | Opacity                                 |
|                              | :      |                        |            | Too/Darace            |            | RAAOMD cond #             |  | BAAQMD          |   |
|                              |        | VET ON                 |            |                       |            |                           |  | 60.672 (a) (1)  | Programme Communication                 |
|                              |        | REPORT                 |            | Z                     | Z          | N/A                       | 0.022 grains/dscf  | Subpart OOO     | PΜ                                      |
|                              |        | NONE TO                |            |                       |            |                           |  | 40 CFR          |   |
|                              |        | NEFON                  |            |                       |            |                           |  | 60.672 (b)      |   |
|                              |        | LaCasa                 |            | Z                     | Z          | N/A                       | 10% opacity  | Subpart OOO     | Opacity                                 |
|                              |        | NOW TO                 |            |                       | -          |                           |  | 40 CFR          |   |
|                              |        | REPORT                 |            | Keeping               | - 70       | 7249, part 5              | Ningelliaini 1.0   | 6-301           | Opacity                                 |
|                              |        | NONE TO                |            | Log/Record            | ٦          | BAAQMD cond#              | Dinaslavana 10   | BAAQMD          | Opacity                                 |
| etc.)                        | Excess | (Date and<br>Time)     | Source     | Туре                  | (P/C/N)    | Citation                  |  | Limit Citation  | Limit                                   |
| (causes, corrective actions, | Actual | Lxcess                 | Affected   | SHIDMHOM              | Frequency  | Requirement               | Emission Limit   | E311351011      | 1 ype os                                |
| Comments                     |        | Period of              | 3          | Monitoring            | Monitoring | Monitoring                |  | F               | Tymo of                                 |
|                              | SYSTEM | 350 WATER SPRAY SYSTEM | BY A-350 W | EYING ABATED          | V AND CONV | NT WET SCREE!             | S-350 ROCK PLANT WET SCREEN AND CONVEYING ABATED BY A-2  |                 |   |
|                              |        |                        |            | Table - HH            | Tab        |                           |  |                 |   |
|                              |        |                        |            |                       |            |                           | The first of the second |                 | j                                       |

#### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Report Date July 2012 Page 57 of 71

|                              |              | REPORT                                  |   | keeping       | P/D        | 7250, part 5  | 0.15 gr/dscf   | 6-310          | PM       |
|------------------------------|--------------|---|---|---------------|------------|---------------|--|----------------|----------|
|                              |              |   |   | I on /D annul |            | RAAOMD cond # |  | BAAOMD         |          |
|                              | *******      | NEI ON I                                |   |               |            | 1250, pail 5  |  | part 1         |          |
|                              | *****        | NONE TO                                 |   | keeping       | P/D        | 7350 part 5   | Ringelmann 0.5   | cond # 7250,   | Opacity  |
|                              |              | }                                       |   | I as (Parau)  |            | RAAOMD cond#  |  | BAAQMD         |          |
|                              | ************ | KEPOKI                                  |   |               |            |               | ***  | 60.672 (a) (1) |          |
|                              |              | NONETO                                  |   | Z             | Z          | N/A           | 0.022 grains/dscf  | Subpart OOO    | PΜ       |
|                              |              | Out divois                              |   |               |            |               |  | 40 CFR         |          |
|                              |              | KEPOKI                                  |   |               |            |               | ***************************************  | 60.672 (b)     |          |
|                              |              | Tagada                                  |   | Z             | Z          | N/N           | 10% opacity  | Subpart 000    | Opacity  |
|                              |              | NOME TO                                 |   |               |            |               |  | 40 CFR         |          |
|                              |              | REPORT                                  |   | keeping       |            | 7250, part 5  | Section of the sectio | 6-301          | - Annual |
|                              |              | NONE TO                                 |   | Log/Record    | P/D        | BAAQMD cond # | Ringelmann I O   | BAAQMD         | Onacity  |
| etc.)                        |              | Time)                                   | Course                                  | ı ypc         | (P/C/N)    | Citation      | outrous control of the control of th | Change Change  |          |
| (causes, corrective actions, | Excess       | (Date and                               | Source                                  | Type          | Frequency  | Requirement   | <b>Emission Limit</b>  | Limit Citation | T im     |
| Comments                     | Artual       | Period of                               | A ffortad                               | Vanitoring    | Monitoring | Monitoring    |  | Emission       | Type of  |
| M                            | RAY SYSTE    | 1-360 WATER SPRAY SYSTEM                | TED BY A-360                            | r System aba  | TE LOADOUT | WET AGGREGA   | S-360 ROCKPLANT WET AGGREGATE LOADOUT SYSTEM ABATED BY A   | . S-3          |          |
|                              |              |   |   | Table - II    | Ta         |               |  |                |          |
|                              |              | *************************************** | *************************************** |               |            |               |  |                |          |

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

Wet Surface Condition

cond # 7250,

Completely "surface-

BAAQMD cond #

P/D

Log/ Record keeping

NONE TO REPORT

7250, part 5

wet"

ton/hr

BAAQMD

parts 3 & 4

Z

NONE TO REPORT

FP

BAAQMD 6-311

> 4.10P0 67 lb/hr, where P is process weight,

#### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Page 58 of 71

| S-370 AGGREGATE ADDITIVE TRANSFER SYSTEM WITH SILO ABATED BY A-370 WATER SPRAY, S-380 SAND TRANSFER HOPPER, S-381 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 | Table - JJ |
|--|------------|
|--|------------|

|                          |   | S370, S-380  | SAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM S-370, S-380, S-381, AND S-382 ALSO ABATED BY HAUL ROAD SPRINKLE | 382 ALSO A                   | VATER CLARIF<br>BATED BY HAU | ES SYSTEM SPRINKLER SYSTEM       | rem              |   |
|--------------------------|---|--|--|------------------------------|------------------------------|----------------------------------|------------------|---|
| Type of<br>Limit         | Emission<br>Limit Citation              | Emission Limit   | Monitoring<br>Requirement<br>Citation  | Monitoring Frequency (P/C/N) | Monitoring<br>Type           | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.) |
| Opacity                  | BAAQMD<br>6-301                         | Ringelmann 1.0   | BAAQMD cond # 7251, part 5   | P/D                          | Log/Record<br>keeping        | NONE TO<br>REPORT                |                  |   |
| Opacity                  | 40 CFR<br>Subpart OOO<br>60.672 (b)     | 10% opacity  | N/A  | Z                            | Z                            | NONE TO<br>REPORT                |                  |   |
| Md                       | 40 CFR<br>Subpart OOO<br>60.672 (a) (1) | 0.022 grains/dscf  | N/A  | Z.                           | Z                            | NONE TO<br>REPORT                |                  |   |
| Opacity                  | BAAQMD<br>cond # 7251,<br>part 1        | Ringelmann 0.5   | BAAQMD cond#<br>7251, part 5   | P/D                          | Log/Record<br>keeping        | NONE TO<br>REPORT                |                  |   |
| ΡM                       | BAAQMD<br>6-310                         | 0.15 gr/dscf   | BAAQMD cond # 7251, part 5   | P/D                          | Log/Record<br>keeping        | NONE TO<br>REPORT                |                  |   |
| БÞ                       | BAAQMD<br>6-311                         | 4.10P <sup>0 o7</sup> lb/hr, where P is process weight, ton/hr |  | Z                            |                              | NONE TO<br>REPORT                |                  |   |
| Wet Surface<br>Condition | BAAQMD cond # 7251, parts 3 & 4         | BAAQMD cond # 7251. Completely "surface-parts 3 & 4            | BAAQMD cond # 7251, part 5   | P/D                          | Log/ Record<br>keeping       | NONE TO<br>REPORT                |                  |   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 59 of 71

|                              |        |             |            |                   |            |   | ` M                                | Noder (N4#) manua STBA Than Name and | No.      |
|------------------------------|--------|-------------|------------|-------------------|------------|---|------------------------------------|--------------------------------------|----------|
|                              |        | KEFORI      |            |                   |            |   | ton/hr                             | 1 - C-0                              |          |
|                              |        | TOTAL O     |            |                   | Z          |   | P is process weight.               | × 22 - 1                             | FP       |
|                              |        | OT THOM     |            |                   |            |   | 4.10P <sup>0 o7</sup> lb/hr, where | BAAOMD                               |          |
|                              |        | REPORT      |            |                   | ;          |   | G. 10 G.                           | 6-310                                |          |
|                              |        | NONE TO     |            |                   | Z          |   | 0 15 or/dect                       | BAAQMD                               | PM       |
|                              |        | REPORT      |            | (M22)             | Ž          | 7246 (1)  | King School 1.0                    | 6-301                                | , busing |
|                              |        | NONE TO     |            | Visual inspection | P/O        | BAAQMD cond. #  | Rings mann 1 f)                    | BAAQMD                               | Onscite  |
| etc.)                        | Excess | Time)       | Source     | Type              | (P/C/N)    | Citation  |                                    | Limit Citation                       | Fimit    |
| (causes, corrective actions, | Actual | Excess      | Affected   | STOURION BY       | Frequency  | Requirement   | Emission Limit                     | Dalission.                           | 10000    |
| Comments                     |        | Period of   | 3          | Monitoring        | Monitoring | Monitoring  |                                    | Eniccion                             | Type of  |
|                              |        | (8-DC-31)   | 4 BAGHOUSE | BATED BY A-38     | SCREENS AI | S-384 ROCK PLANT 2 SCREENS ABATED BY A-384 BAGHOUSE (8-DC-31)   | S-384                              |                                      |          |
|                              | •      | E (8-DC-31) | 84 BAGHOUS | ABATED BY A-3     | ONVEYORS ! | S-383 ROCK PLANT 2 CONVEYORS ABATED BY A-384 BAGHOUSE (8-DC-31) | S-383 R                            |                                      |          |
|                              |        |             |            | Table - KK        | Tal        |   |                                    |                                      |          |
|                              |        |             |            |                   |            |   |                                    |                                      |          |

### Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 60 of 71

| PM10                              | FP   | PM                               | Opacity                           |                                | Opacity                                    | Opacity  | Type of<br>Limit                            |  |
|-----------------------------------|--|----------------------------------|-----------------------------------|--------------------------------|--|--|---|--|
| BAAQMD<br>cond # 13900.<br>part 3 | BAAQMD<br>6-311  | BAAQMD<br>6-310                  | BAAQMD<br>cond # 13900.<br>part 2 | \$05.154 <i>/</i>              | 40 CFR<br>Subpart LLL                      | BAAQMD<br>6-301  | Emission<br>Limit Citation                  |  |
| 0.006 gr/dscf                     | 4.10P <sup>0 67</sup> lb/hr, where P is process weight, ton/hr | 0.15 gr/dscf                     | Ringelmann 0.5                    |                                | 10%  | Ringelmann 1.0   | Emission Limit                              | Table - LL<br>S-412 Finish Mill Additive Bin (6-gm-3) abated by A-218 Dust |
| BAAQMD cond #<br>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<br>years             | CI/d                                       | С  | Monitoring Frequency (P/C/N)                | Tal<br>IN (6-GM-3)   |
| Tribotlow leak<br>detector        |  | Triboflow leak<br>detector       | Triboflow leak<br>detector        | Periodic source<br>test (M9)   | Visual inspection (M22)                    | Triboflow leak<br>detector                                   | Monitoring<br>Type                          | Table - LL<br> -3) abated by A-  |
|                                   |  |                                  |                                   |                                |  |  | Affected<br>Source                          | 218 Dust Co  |
| NONE TO<br>REPORT                 | NONE TO<br>REPORT  | NONE TO<br>REPORT                | NONE TO<br>REPORT                 | NONE TO<br>REPORT              | NONE TO<br>REPORT                          | NONE TO<br>REPORT  | Period of Excess (Date and Time)            | r Collector (6-DC-19)  |
|                                   |  |                                  |                                   |                                |  |  | Actual<br>Excess                            | -DC-19)  |
|                                   |  |                                  |                                   | NESHAP Test report Dec<br>2007 |  |  | Comments (causes, corrective actions, etc.) |  |

### Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Lehigh Southwest Cement Company - Permanente Plant Page 61 of 71

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

| Type Source (Date and Excess Time)  Log/Record NONE TO REPORT | BAAQMD cond # P. | million tons/year  |                            |            |
|---|------------------|--------------------|----------------------------|------------|
| Type Source (Date and Excess Time)  Log/ Record NONE TO       |                  |                    | part 5                     |            |
| Type Source (Date and Excess Time)                            | RAACMD cond#     | not to exceed 1.6  | Throughput   cond # 13900. | Throughput |
| Type Source (Date and Excess Time)                            |                  | Clinker production | BAAQMD                     |            |
| Type Source   (Date and Dixcess                               | Citation (P/     |                    | Control Control Control    |            |
| Milected  | Requirement Freq | Emission Limit     | Limit Citation             | Limit      |
| Monitoring Vonitoring Affectal Excess Actual Comments         | Monitoring Moni  |                    | Emission                   | Type of    |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 62 of 71

|   |                  | NONE TO<br>REPORT                         |                    |                               | Z  |  | 4.10P <sup>oo</sup> ' lb/hr, where P is process weight, ton/hr                                | BAAQMD<br>6-311                   | Process<br>weight<br>limitation |
|---|------------------|---|--------------------|-------------------------------|--|--|---|-----------------------------------|---------------------------------|
|   |                  | NONE TO<br>REPORT                         |                    | Pressure drop<br>manometer    | P/Q                                      | BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b | 0.15 gr/dscf  | BAAQMD<br>6-310                   | M                               |
|   |                  | NONE TO<br>REPORT                         |                    | Pressure drop<br>manometer    | P/Q                                      | BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b | Ringelmann 0.5  | BAAQMD<br>cond # 13982,<br>part 1 | Opacity                         |
| NESHAP Test report Dec                      |                  | NONE TO<br>REPORT                         |                    | Periodic source<br>test (M9)  | P/every 5                                | §63.1349(c)  |   | §63.1348                          |                                 |
|   |                  | NONE TO                                   |                    | Visual inspection (M22)       | P/Monthly, semiannually, as annually, as | §63.1350(a)(4)   | 9%01  | 40 CFR<br>Subpart LLL             | Opacity                         |
|   |                  | NONE TO<br>REPORT                         |                    | Pressure drop<br>manometer    | D/d                                      | BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b | Ringelmann 1.0  | BAAQMD<br>6-301                   | Opacity                         |
| Comments (causes, corrective actions, etc.) | Actual<br>Excess | Period of<br>Excess<br>(Date and<br>Time) | Affected<br>Source | Monitoring<br>Type            | Monitoring Frequency (P/C/N)             | Monitoring<br>Requirement<br>Citation                    | Emission Limit  | Emission<br>Limit Citation        | Type of<br>Limit                |
|   | -DC-25)          | LLECTOR (6                                | 414 Dust Co        | Table - MM<br>13) abated by A | Tab<br>N (6-SS-13)                       | ST ADDITIVE BI   | Table - MM<br>S-414 Kiln Dust Additive Bin (6-SS-13) abated by A-414 Dust Collector (6-DC-25) |                                   |                                 |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 63 of 71

|                  |                                   | Table - MM<br>S-414 Kiln Dust Additive Bin (6-SS-13) abated by A-414 Dust Collector (6-DC-25) | ST ADDITIVE BI   | Tab<br>(6-SS-13)             | Table - MM<br>-13) ABATED BY A-41 | 14 Dust Co         | LLECTOR (6-                      | DC-25)           |  |
|------------------|-----------------------------------|---|--|------------------------------|-----------------------------------|--------------------|----------------------------------|------------------|--|
| Type of<br>Limit | Emission<br>Limit Citation        | Emission Limit  | Monitoring Requirement Citation                          | Monitoring Frequency (P/C/N) | Monitoring<br>Type                | Affected<br>Source | Period of Excess (Date and Time) | Actual<br>Excess | Comments (causes, corrective actions, etc.)  |
| PM10             | BAAQMD<br>cond # 13982,<br>part 5 | 0.01 gr/dscf  | BAAQMD cond # 13982. part 2 BAAQMD cond # 20751, part 3b | P/Q                          | Pressure drop<br>manometer        |                    | NONE TO<br>REPORT                |                  |  |
| Throughput       | BAAQMD<br>cond # 13982<br>part 4  | Cement kiln dust shall not exceed 24,000 tons/year  | BAAQMD cond #<br>13982, part 5                           | P/Q                          | Record keeping                    |                    | NONE TO<br>REPORT                |                  | THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS O |

### Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 64 of 71

|   |   | NONE TO<br>REPORT                |                    | Record keeping                 | D/d   | BAAQMD cond # 21345. part 4     | 9,900 tons during any 12 month consecutive period                           | BAAQMD<br>cond # 21345.<br>part 4 | Hours of operation              |
|---|---|----------------------------------|--------------------|--------------------------------|---|---------------------------------|---|-----------------------------------|---------------------------------|
|   |   | NONE TO<br>REPORT                |                    | Record keeping                 | P/Q   | BAAQMD cond #                   | Shall not exceed 9,900 tons during any 12 month consecutive period          | BAAQMD<br>cond # 21345.<br>part 1 | Throughput                      |
| TO COMPANY                                  | *************************************** | NONE TO<br>REPORT                |                    | Pressure drop<br>manometer     | P/Q   | BAAQMD cond #<br>21345, part 3  | 0.006 gr/dscf   | BAAQMD cond # 21345.              | PM10                            |
| 7. 1000                                     | *************************************** | NONE TO<br>REPORT                |                    |                                | Z   |                                 | 4.10P <sup>9 67</sup> lb/hr, where<br>P is process weight,<br>ton/hr        | BAAQMD<br>6-311                   | Process<br>weight<br>limitation |
|   |   | NONE TO<br>REPORT                |                    | Pressure drop<br>manometer     | P/Q   |                                 | 0.15 gr/dscf  | BAAQMD<br>6-310                   | PM                              |
| NESHAP Test report Dec<br>2007              |   | NONE TO<br>REPORT                |                    | Periodic source<br>test (M9)   | P/every 5<br>years                                | §63.1349(c)                     |   | SOLUTION                          |                                 |
|   |   | NONE TO<br>REPORT                |                    | Visual inspection<br>(M22)     | P/Monthly, semiannually, annually, as appropriate | §63.1350(a)(4)                  | 10%   | 40 CFR<br>Subpart LLL             | Opacity                         |
|   |   | NONE TO<br>REPORT                |                    | Pressure drop<br>manometer     | P/Q   | ٠                               | Ringelmann 1.0  | BAAQMD<br>6-301                   | Opacity                         |
| Comments (causes, corrective actions, etc.) | Actual<br>Excess                        | Period of Excess (Date and Time) | Affected<br>Source | Monitoring<br>Type             | Monitoring Frequency (P/C/N)                      | Monitoring Requirement Citation | Emission Limit  | Emission<br>Limit Citation        | Type of<br>Limit                |
| 26)   | OR (6-DC-                               | 5 Dust Collector (6-DC-26)       | y A-415 Dus        | Table - NN<br>-BC-23) ABATED B | Tal<br>Eyor (6-BC                                 | BUILDING CONV                   | Table - NN<br>S-415 Finish Mill Building Conveyor (6-BC-23) abated by A-41: | S-4                               |                                 |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 65 of 71

| Throughput   | Process<br>weight<br>limitation   | Opacity                                  |                                | Opacity   | Opacity                                  | Type of Limit 1                             |   |
|--|---|--|--------------------------------|---|--|---|---|
| BAAQMD<br>cond # 23416.<br>part 3  | BAAQMD<br>6-311   | BAAQMD<br>cond # 23416.<br>part 1        | Not. O.TO                      | 40 CFR<br>Subpart LLL                             | BAAQMD<br>6-301                          | Emission<br>Limit Citation                  | S   |
| Shall not exceed 75,000 tons during any rolling 365 consecutive day period | 4.10P <sup>0 67</sup> lb/hr, where<br>P is process weight,<br>ton/hr  | Ringelmann 1.0                           |                                | 10%   | Ringelmann 1.0                           | Emission Limit                              | Table - OO         S-444 Emergency Clinker Diversion Conveyor (5-DDC-1) abated by A-444 Water Spray |
| BAAQMD cond #<br>23416, part 3   |   | BAAQMD cond#<br>23416. part 1            | §63.1349(c)                    | §63.1350(a)(4)                                    | BAAQMD cond#<br>23416. part l            | Monitoring Requirement Citation             | CLINKER DIVE  |
| P/Q  | Z   | Z  | P/every 5<br>years             | P/Monthly. semiannually, annually, as appropriate | 7.                                       | Monitoring Frequency (P/C/N)                | Tal   |
| Record keeping   |   | Visual inspection<br>(M22)               | Periodic source<br>test (M9)   | Visual inspection<br>(M22)                        | Visual inspection<br>(M22)               | Monitoring<br>Type                          | Table - OO<br>ONVEYOR (5-DDC  |
|  |   | S-444                                    |                                |   | S-444                                    | Affected<br>Source                          | -1) ABATED I  |
| NONE TO<br>REPORT  | NONE TO<br>REPORT   | Feb 15, 2012<br>Approx 1:00<br>pm        | NONE TO<br>REPORT              | NONE TO<br>REPORT                                 | Feb 15, 2012<br>Approx 1:00<br>pm        | Period of Excess (Date and Time)            | 8Y A-444 W.   |
|  |   | Approx. 15                               |                                |   | Approx. 15                               | Actual<br>Excess                            | ATER SPRA   |
|  | To a province of the control of the | NOV # A51569 issued on<br>March 15, 2012 | NESHAP Test report Dec<br>2007 |   | NOV # A51569 issued on<br>March 15, 2012 | Comments (causes, corrective actions, etc.) | <b>K</b>  |

### Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 66 of 71

|   |                  | NONE TO<br>REPORT                |                    | Fuel Certification   | P/E                          | BAAQMD cond # 18855, part 1     | Sulfur content of liquid fuel not to exceed 0.05% by weight      | BAAQMD cond #18855,        | Sulfur<br>content limit |
|---|------------------|----------------------------------|--------------------|--|------------------------------|---------------------------------|--|----------------------------|-------------------------|
|   |                  | NONE TO<br>REPORT                |                    | Fuel Certification   | P/E                          | BAAQMD cond # 18855.            | Sulfur content of liquid fuel not to exceed 0.5% by weight       | BAAQMD<br>9-1-304          | Sulfur<br>content limit |
|   |                  | NONE TO<br>REPORT                |                    |  | Z                            |                                 | 0.15 gr/dscf   | BAAQMD<br>6-310            | PM                      |
|   |                  | NONE TO<br>REPORT                |                    |  | Z                            |                                 | Ringelmann 2.0 for > 3 minutes in any hour or equivalent Opacity | BAAQMD<br>6-303            | Opacity                 |
| Comments (causes, corrective actions, etc.) | Actual<br>Excess | Period of Excess (Date and Time) | Affected<br>Source | Monitoring<br>Type   | Monitoring Frequency (P/C/N) | Monitoring Requirement Citation | Emission Limit   | Emission<br>Limit Citation | Type of<br>Limit        |
|   |                  |                                  | ERATOR             | Table – PP S-501 EMERGENCY DIESEL GENERATOR S-502 EMERGENCY DIESEL GENERATOR | Tal<br>Emergenc<br>Emergenc  | S-501<br>S-502                  |  |                            |                         |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 67 of 71

| Records  | Operate                       | Replace  | Opacity  | Hours                         | Type of<br>Limit                            |   |
|--|-------------------------------|--|--|-------------------------------|---|---|
| BAAQMD 2 - 6 - 501 "Portable Diesel Engine ATCM" | "Portable Diesel Engine ATCM" | "Portable Diesel Engine ATCM"                      | BAAQMD<br>6-1  | "Portable Diesel Engine ATCM" | Emission<br>Limit Citation                  |   |
| Hours of operation                               | Op Hour Totalizing<br>meter   | Replace engine w/in 2 years of Tier 4 availability | Ringelmann 2.0 for > 3 minutes in any hour or equivalent Opacity | 80 hours per year             | Emission Limit                              |   |
| Section<br>93116.4(c)(2)(A)                      | Section<br>93116.4(c)(2)(A)   | Section<br>93116(b)(1)(B)                          |  | Section<br>93116.2(a)(22)     | Monitoring Requirement Citation             | S-503<br>S-504<br>S   |
| Р/М  | Z.                            | N  | Z ·  | P/Annual                      | Monitoring Frequency (P/C/N)                | Tal<br>Diesel Po<br>Diesel Po<br>505 Diesei   |
| Hours / fuel<br>usage log,<br>nature of activity |                               |  |  | Hours log                     | Monitoring<br>Type                          | Table - QQ S-503 DIESEL PORTABLE COMPRESSOR S-504 DIESEL PORTABLE COMPRESSOR S-505 DIESEL PORTABLE PUMP |
|  |                               |  |  |                               | Affected<br>Source                          | RESSOR<br>RESSOR<br>MP  |
| NONE TO<br>REPORT                                | NONE TO<br>REPORT             | NONE TO<br>REPORT                                  | NONE TO<br>REPORT  | NONE TO<br>REPORT             | Period of Excess (Date and Time)            |   |
|  |                               |  |  |                               | Actual<br>Excess                            |   |
|  |                               | 100000000000000000000000000000000000000            |  |                               | Comments (causes, corrective actions, etc.) |   |

### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 68 of 71 Major Facility Review Permit - BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant

### Table – RR S-600 LIMESTONE QUARRY OPERATION

|                     |                              |                    | 3-000                           | LIMESTONE                    | S-600 LIMESTONE QUARRY OPERATION | RATION                                  |                                  |                  |   |
|---------------------|------------------------------|--------------------|---------------------------------|------------------------------|----------------------------------|---|----------------------------------|------------------|---|
| Type of<br>Limit    | Emission<br>Limit Citation   | Emission Limit     | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring<br>Type               | Affected<br>Source                      | Period of Excess (Date and Time) | Actual<br>Excess | Comments<br>(causes, corrective actions,<br>etc.) |
| Nuisance            | BAAQMD                       | Enviccione         | BAAQMD Cond.                    | <u> </u>                     |                                  |   | NONE TO                          |                  |   |
| i ver seriec        | 1-301                        | EJHIOSOHIS         | #21025(1)                       | 2                            |                                  |   | REPORT                           |                  |   |
| Opacity             | BAAQMD                       | Ringelmann I O     | BAAQMD Cond.                    | Z                            |                                  |   | NONE TO                          |                  |   |
| S postero)          | 6-301                        | iving contains 1.0 | #21025(2)                       | 7                            |                                  |   | REPORT                           |                  |   |
| Explosives<br>Usage | BAAQMD<br>Cond.<br>#21025(3) | 80 hours per year  | BAAQMD Cond.<br>#21025(3)       | P/Monthly                    | Recordkeeping                    | **************************************  | NONE TO<br>REPORT                |                  |   |
|                     |                              |                    |                                 |                              |                                  | *************************************** |                                  |                  |   |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 69 of 71

| S-601 (9-DH-1) LIMESTONE QUARRY HOPPER ABATED BY A4501 WATER SPRAY SYSTEM | 1 201e - 00 |
|---|-------------|
|---|-------------|

| NONE TO REPORT  NONE TO REPORT  NONE TO REPORT  NONE TO |  | Z          | Z Z Z      | N/A           | 0.15 gr/dscf 4.10P <sup>0 v7</sup> lb/hr, where P is process weight. | BAAQMD 6-310 BAAQMD 6-311 | PM<br>Process<br>weight |
|---|--|------------|------------|---------------|--|---------------------------|-------------------------|
| NONE TO REPORT  NONE TO REPORT  NONE TO REPORT          |  | Z          | z z        | N/A           | 0.15 gr/dscf<br>4.10P <sup>0 67</sup> lb/hr, where                   | BAAQMD<br>6-310           | PM<br>Process           |
| NONE TO REPORT  NONE TO REPORT  NONE TO REPORT          |  | Z          | Z Z        | NA            | 0.15 gr/dscf   | BAAQMD<br>6-310           | Md                      |
| NONE TO REPORT  NONE TO REPORT  NONE TO                 |  | Z.         | 2 2        | N/A           | O 15 or/diet   | BAAQMD                    | Ma                      |
| NONE TO REPORT  NONE TO REPORT                          |  | Z.         | Z          | N/A           |  | 800.072 (a) (1)           |                         |
| NONE TO REPORT NONE TO                                  | THE STATE OF THE S | Z.         | Z          | N/A           |  | KKO K73 (a) (1)           |                         |
| NONE TO REPORT  | -  |            |            |               | 0.022 grains/dscf  | Subpart OOO               | PM                      |
| NONE TO REPORT  |  |            |            |               |  | 40 CFR                    |                         |
| NONE TO   |  |            |            |               |  | §60.672 (b)               |                         |
| NONE TO   |  | Z          | Z,         | Z >           | 10% opacity  | Subpart OOO               | Opacity                 |
|   |  |            |            |               |  | 40 CFR                    |                         |
| REPORT  |  |            | 2          | 23896, part 2 | Ziiigettiiaiiii i.o  | 6-301                     | characit                |
| NONE TO   |  |            | Z          | BAAQMD cond # | Pingelmann 10  | BAAQMD                    | Onwite                  |
| (Date and Time) etc.)                                   | 0011   | adě.       | (P/C/N)    | Citation      |  | CHAHON                    | 2111112                 |
| Excess Excess (causes, co                               | Anacteu  | Tuno       | Frequency  | Requirement   | Emission Limit   | Limit Citation            | I imit                  |
| Period of   | A CFC at a d   | Monitoring | Monitoring | Monitoring    |  | Emission                  | Tyme of                 |

# Lehigh Southwest Cement Company – Permanente Plant Major Facility Review Permit – BAAQMD Facility ID # A0017 Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Page 70 of 71

| 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 | Table - TT |
|---|------------|
|---|------------|

| Abate with Water   | dd  | PM                                      | Opacity                           | Opacity                               | Type of<br>Limit                               |
|--|---|---|-----------------------------------|---------------------------------------|--|
| BAAQMD<br>cond # 24274,<br>part 3  | BAAQMD<br>6-311   | BAAQMD<br>6-310                         | BAAQMD<br>cond # 24274,<br>part 2 | BAAQMD<br>6-301                       | Emission<br>Limit Citation                     |
| Shall abate storage piles as necessary w/ A-606, A-607, respectively, to maintain Compliance w/ part 2 | 4.10P <sup>667</sup> lb/hr, where P is process weight, ton/hr | 0.15 gr/dscf                            | Ringelmann 0.5                    | Ringelmann 1.0                        | Emission Limit                                 |
| BAAQMD cond #<br>24274, part 3   |   | BAAQMD cond #<br>7252, part 6           | BAAQMD cond #<br>24274, part 2    | BAAQMD cond # 24274, part 2           | Monitoring<br>Requirement<br>Citation          |
| P/D  | Z   | P/.D                                    | מ/מ                               | С                                     | Monitoring<br>Frequency<br>(P/C/N)             |
| Water spray<br>system  |   | Log/Record<br>keeping                   | Log/Record<br>keeping             | Water spray<br>system                 | Monitoring<br>Type                             |
|  |   |   |                                   |                                       | Affected<br>Source                             |
| NONE TO<br>REPORT  | NONE TO<br>REPORT   | NONE TO<br>REPORT                       | NONE TO<br>REPORT                 | NONE TO                               | Period of Excess (Date and Time)               |
|  | ***************************************                       |   |                                   |                                       | Actual<br>Excess                               |
|  |   | *************************************** | T TENTRAL MARKET                  | r r r r r r r r r r r r r r r r r r r | Comments<br>(causes, corrective actions, etc.) |

#### Report of Required Monitoring for Period April 18, 2012 through June 30, 2012 Report Date July 2012 Major Facility Review Permit – BAAQMD Facility ID # A0017 Lehigh Southwest Cement Company - Permanente Plant Page 71 of 71

#### Table - TT

## 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

| Throughput  | Type of<br>Limit                            |
|---|---|
| BAAQMD<br>cond # 24274,<br>part 1   | Emission<br>Limit Citation                  |
| Stockpiles product any 12- consecutive month period: S-606 in tpy: Coal → 198,400 Coke → 171,034 Bauxite → 60,000 Iron Ore → 50,000 S-607 in tpy: 1" agg → 20,000 1/4" agg → 20,000 Slag → 20,000 | Emission Limit                              |
| BAAQMD cond #<br>24274, part 4  | Monitoring<br>Requirement<br>Citation       |
| P/M   | Monitoring Frequency (P/C/N)                |
| Record keeping  | Monitoring<br>Type                          |
|   | Affected<br>Source                          |
| NONE TO<br>REPORT   | Period of Excess (Date and Time)            |
|   | Actual<br>Excess                            |
|   | Comments (causes, corrective actions, etc.) |