

| | B | C |
|----|--------------------------------------|--|
| 1 | Source Description | |
| 2 | | |
| 3 | Phase I ID No. | 474 |
| 4 | EPA ID No. | VAD046970521 |
| 5 | Facility Name | Solite Corp |
| 6 | Facility Location | |
| 7 | City | Cascade |
| 8 | State | Virginia |
| 9 | Unit ID Name/No. | Kiln #3 |
| 10 | Other Sister Facilities | |
| 11 | Number of Sister Facilities | 0 |
| 12 | Combustor Class | Lightweight Aggregate Kiln (LWAK) |
| 13 | Combustor Type | |
| 14 | Combustor Characteristics | Counter current rotary kiln manufactured by Vulcan. Aggregate process rate 10 tons/hr. 9' ID Shell x 125' long. Burner consists of a 3/4" fuel pipe and a 4" atomizing air pipe. Solids retention time = 1.25 to 2.5 hours. Gas outlet temperature = 850 -1200 °F. |
| 15 | Capacity (MMBtu/hr) | |
| 16 | Soot Blowing | |
| 17 | APCS Detailed Acronym | QS/FF |
| 18 | APCS General Class | WQ, FF |
| 19 | APCS Characteristics | Quench system (air and water). Baghouse (reverse air cleaning, 580 bags, cloth area = 29,155 ft2, net air to cloth ratio = 2.23:1, design operating temp < 450 °F at inlet), BHA manuf., fiberglass bags |
| 20 | Hazardous Wastes | Liq |
| 21 | Haz Waste Description | The raw material was excavated from the Virginia Solite quarry |
| 22 | Supplemental Fuel | Natural gas |
| 23 | | |
| 24 | Stack Characteristics | |
| 25 | Diameter (ft) | 4.3 |
| 26 | Height (ft) | 80 |
| 27 | Gas Velocity (ft/sec) | |
| 28 | Gas Temperature (°F) | |
| 29 | | |
| 30 | Permitting Status | |
| 31 | HWC Burn Status (Date if Terminated) | |

| | B | C |
|----|------------------------------|--|
| 1 | Condition Description | |
| 2 | | |
| 3 | 474C10 | |
| 4 | | |
| 5 | Report Name/Date | RCRA Testing, Kilns 1,2,3,4, Certification of Compliance, August 1999 |
| 6 | Report Preparation | Solite/Entropy/Blue Ridge |
| 7 | Testing Firm | Entropy |
| 8 | Testing Dates | May 25-26, 1999 |
| 9 | Cond Dates | May-99 |
| 10 | Condition Descr | COC, Metals SRE |
| 11 | Content | CO, PM, HCl/Cl ₂ , Metals, Cr ⁺⁶ |
| 12 | | |
| 13 | 474C11 | |
| 14 | | |
| 15 | Report Name/Date | Trial Burn Report, Solite Corp, Virginia Solite Div., March 2000 |
| 16 | Report Preparation | Solite/Entropy/Blue Ridge |
| 17 | Testing Firm | Entropy |
| 18 | Testing Dates | November 8-19, 1999 |
| 19 | Cond Dates | Nov-99 |
| 20 | Condition Descr | Trial Burn, organics DRE, HCl/Cl ₂ emissions limits |
| 21 | Content | CO, PM, HCl/Cl ₂ , POHC DRE, PCCD/F |
| 22 | | |
| 23 | 474C12 | |
| 24 | | |
| 25 | Report Name/Date | Trial Burn Report, Kiln 1 DRE Retest, Kilns 1-4 D/F. Solite Corp, Virginia Solite Div., July 2000 |
| 26 | Report Preparation | Solite/Entropy/B3 Systems |
| 27 | Testing Firm | Entropy |
| 28 | Testing Dates | May 9-19, 2000 |
| 29 | Cond Dates | May-00 |
| 30 | Condition Descr | Trial Burn, D/F Retest |
| 31 | Content | D/F, CO |
| 32 | | |
| 33 | 474C1 | |
| 34 | | |
| 35 | Report Name/Date | Stationary Source Sampling Report Reference No. 11583, Virginia Solite Corporation, Cascade, Virginia, Prepared by Entropy, June 1993; COC Forms attached, dated August 23, 1993 |
| 36 | Report Prepare | Entropy |
| 37 | Testing Firm | Entropy |
| 38 | Cond Descr | ? |
| 39 | Testing Dates | June 23, 1993 |
| 40 | Cond Dates | Jun-93 |

| | B | C | D | E | F | G | H | I | J | K | L | M |
|----|------------------------------|----------------|---------|----|----|----------|----|----------|----|----------|-----|----------|
| 1 | Stack Gas Emissions 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 474C10 | CoC | | | | R1 | | R2 | | R3 | | Cond Avg |
| 5 | | | | | | | | | | | | |
| 6 | PM | E1 | gr/dscf | y | | 0.0147 | | 0.0066 | | 0.0045 | | 0.0086 |
| 7 | CO (RA) | E1 | ppmv | y | | 45.2 | | 46.2 | | 46.0 | | 45.8 |
| 8 | CO (MHRA) | E1 | ppmv | y | | 45.0 | | 55.8 | | 77.0 | | 59.3 |
| 9 | HCl | E1 | ppmv | y | | 1706 | | 1301 | | 1871 | | 1626 |
| 10 | Cl2 | E1 | ppmv | y | | 81.70 | | 5.45 | | 39.80 | | 42 |
| 11 | Total Chlorine | E1 | ppmv | y | | 1869 | | 1312 | | 1951 | | 1711 |
| 12 | | | | | | | | | | | | |
| 13 | Antimony | | lb/hr | | | 1.41E-04 | | 4.79E-05 | | 6.43E-05 | | |
| 14 | Arsenic | | lb/hr | | | 4.71E-04 | | 4.75E-04 | | 4.77E-04 | | |
| 15 | Barium | | lb/hr | | | 1.68E-03 | | 7.34E-04 | | 7.77E-04 | | |
| 16 | Beryllium | | lb/hr | nd | | 4.17E-06 | nd | 3.86E-06 | nd | 5.11E-05 | | |
| 17 | Cadmium | | lb/hr | | | 1.13E-04 | | 1.61E-04 | | 2.30E-04 | | |
| 18 | Chromium | | lb/hr | | | 4.42E-04 | | 3.92E-04 | | 5.03E-04 | | |
| 19 | Chromium (Hex) | | lb/hr | nd | | 4.28E-05 | nd | 4.67E-05 | nd | 4.70E-05 | | |
| 20 | Cobalt | | lb/hr | | | 8.80E-05 | nd | 3.86E-05 | | 1.01E-04 | | |
| 21 | Copper | | lb/hr | | | 1.19E-03 | | 4.42E-04 | | 6.65E-04 | | |
| 22 | Lead | | lb/hr | | | 1.94E-03 | | 3.23E-03 | | 4.77E-03 | | |
| 23 | Manganese | | lb/hr | | | 2.52E-03 | | 3.68E-04 | | 1.46E-03 | | |
| 24 | Mercury | | lb/hr | | | 3.02E-04 | | 2.91E-04 | | 1.54E-04 | | |
| 25 | Nickel | | lb/hr | | | 2.12E-03 | | 9.89E-05 | | 4.82E-04 | | |
| 26 | Selenium | | lb/hr | | | 6.46E-04 | | 7.42E-04 | | 6.24E-04 | | |
| 27 | Silver | | lb/hr | | | 2.84E-05 | | 1.89E-05 | nd | 1.51E-05 | | |
| 28 | Thallium | | lb/hr | nd | | 4.17E-05 | nd | 3.86E-05 | nd | 3.78E-05 | | |
| 29 | Zinc | | lb/hr | | | 2.00E-03 | | 5.15E-04 | | 1.04E-03 | | |
| 30 | | | | | | | | | | | | |
| 31 | Sampling Train | PM, HCl/Cl: E1 | | | | | | | | | | |
| 32 | Stack Gas Flowrate | | dscfm | | | 24822 | | 27419 | | 27303 | | 26515 |
| 33 | O2 | | % | | | 16.5 | | 16.5 | | 16.5 | | 16.5 |
| 34 | Moisture | | % | | | 5.3 | | 5.7 | | 6.4 | | 5.8 |
| 35 | Temperature | | °F | | | 326 | | 340 | | 347 | | 338 |
| 36 | | | | | | | | | | | | |
| 37 | Sampling Train | Metals | E2 | | | | | | | | | |
| 38 | Stack Gas Flowrate | | dscfm | | | 25216 | | 27232 | | 27760 | | |
| 39 | O2 | | % | | | 16.5 | | 16.5 | | 16.4 | | |
| 40 | Moisture | | % | | | 5.6 | | 5.5 | | 5.7 | | |
| 41 | Temperature | | °F | | | 319 | | 332 | | 342 | | |
| 42 | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | |
| 44 | | | | | | | | | | | | |
| 45 | | | | | | | | | | | | |
| 46 | Antimony | E2 | ug/dscm | y | | 4.7 | | 1.5 | | 1.9 | | 2.67 |
| 47 | Arsenic | E2 | ug/dscm | y | | 15.5 | | 14.5 | | 14.0 | | 14.68 |
| 48 | Barium | E2 | ug/dscm | y | | 55.4 | | 22.4 | | 22.8 | | 33.54 |
| 49 | Beryllium | E2 | ug/dscm | y | nd | 0.1 | nd | 0.1 | nd | 1.5 | 100 | 0.58 |
| 50 | Cadmium | E2 | ug/dscm | y | | 3.7 | | 4.9 | | 6.7 | | 5.13 |
| 51 | Chromium | E2 | ug/dscm | y | | 14.6 | | 12.0 | | 14.7 | | 13.77 |
| 52 | Chromium (Hex) | E2 | ug/dscm | y | nd | 1.4 | nd | 1.4 | nd | 1.4 | 100 | 1.41 |
| 53 | Cobalt | E2 | ug/dscm | y | | 2.9 | nd | 1.2 | | 3.0 | | 2.35 |
| 54 | Copper | E2 | ug/dscm | y | | 39.3 | | 13.5 | | 19.5 | | 24.08 |
| 55 | Lead | E2 | ug/dscm | y | | 64.0 | | 98.7 | | 139.8 | | 100.83 |
| 56 | Manganese | E2 | ug/dscm | y | | 83.1 | | 11.2 | | 42.8 | | 45.72 |
| 57 | Mercury | E2 | ug/dscm | y | | 10.0 | | 8.9 | | 4.5 | | 7.79 |
| 58 | Nickel | E2 | ug/dscm | y | | 69.9 | | 3.0 | | 14.1 | | 29.03 |
| 59 | Selenium | E2 | ug/dscm | y | | 21.3 | | 22.7 | | 18.3 | | 20.76 |
| 60 | Silver | E2 | ug/dscm | y | | 0.9 | | 0.6 | nd | 0.4 | | 0.65 |
| 61 | Thallium | E2 | ug/dscm | y | nd | 1.4 | nd | 1.2 | nd | 1.1 | 100 | 1.22 |
| 62 | Zinc | E2 | ug/dscm | y | | 66.0 | | 15.7 | | 30.5 | | 37.40 |
| 63 | | | | | | | | | | | | |
| 64 | LVM | E2 | ug/dscm | y | | 30.3 | | 26.6 | | 30.2 | | 29.03 |
| 65 | SVM | E2 | ug/dscm | y | | 67.7 | | 103.6 | | 146.6 | | 105.96 |
| 66 | | | | | | | | | | | | |
| 67 | 474C11 | Trial Burn | | | | R1 | | R2 | | R3 | | Cond Avg |
| 68 | | | | | | | | | | | | |
| 69 | PM | E1 | gr/dscf | y | | 0.0076 | | 0.0033 | | 0.0005 | | 0.0038 |
| 70 | HCl | E1 | ppmv | y | | 1414 | | 1625 | | 1499 | | 1513 |
| 71 | Cl2 | E1 | ppmv | y | | 2.10 | | 2.83 | | 4.26 | | 3.06 |

| | B | C | D | E | F | G | H | I | J | K | L | M |
|-----|--------------------|------------------------|-------|---|---|----------|---|----------|---|----------|---|----------|
| 72 | Total Chlorine | E1 | ppmv | y | | 1418 | | 1631 | | 1508 | | 1519 |
| 73 | | | | | | | | | | | | |
| 74 | POHC DRE | Perchloroethylene | | | | | | | | | | |
| 75 | POHC Feedrate | | lb/hr | | | 47.7 | | 46.79 | | 49.75 | | 48.08 |
| 76 | Emission Rate | E2 | lb/hr | | | 0.000564 | | 0.000752 | | 0.000624 | | 0.000647 |
| 77 | DRE | E2 | % | | | 99.9988% | | 99.9984% | | 99.9987% | | |
| 78 | | | | | | | | | | | | |
| 79 | POHC DRE | 1,2,4 Trichlorobenzene | | | | | | | | | | |
| 80 | POHC Feedrate | | lb/hr | | | 47.75 | | 46.84 | | 49.8 | | 48.13 |
| 81 | Emission Rate | E2 | lb/hr | | | 0.00151 | | 0.00137 | | 0.00104 | | 0.001307 |
| 82 | DRE | E2 | % | | | 99.9968% | | 99.9971% | | 99.9979% | | |
| 83 | | | | | | | | | | | | |
| 84 | Sampling Train | PM, HCl/Cl: E1 | | | | | | | | | | |
| 85 | Stack Gas Flowrate | | dscfm | | | 26389 | | 26719 | | 27571 | | 26893 |
| 86 | O2 | | % | | | 15.7 | | 16.2 | | 15.9 | | 15.9 |
| 87 | Moisture | | % | | | 9.3 | | 8.4 | | 8.7 | | 8.8 |
| 88 | Temperature | | °F | | | 362 | | 364 | | 359 | | 362 |
| 89 | | | | | | | | | | | | |
| 90 | Sampling Train | D/F | E2 | | | | | | | | | |
| 91 | Stack Gas Flowrate | | dscfm | | | 26486 | | 28045 | | 27363 | | 27298 |
| 92 | O2 | | % | | | 15.7 | | 16.2 | | 15.9 | | 15.9 |
| 93 | Moisture | | % | | | 8.0 | | 8.2 | | 9.0 | | 8.4 |
| 94 | Temperature | | °F | | | 356 | | 359 | | 348 | | 354 |
| 95 | | | | | | | | | | | | |
| 96 | 474C12 | Trial Burn | | | | | | | | | | |
| 97 | | | | | | R1 | | R2 | | R3 | | Cond Avg |
| 98 | CO (RA) | E1 | ppmv | y | | 11.7 | | 14.9 | | 16.4 | | 14.3 |
| 99 | | | | | | | | | | | | |
| 100 | Sampling Train | D/F | E1 | | | | | | | | | |
| 101 | Stack Gas Flowrate | | dscfm | | | 20683 | | 19909 | | 19711 | | 20101 |
| 102 | O2 | | % | | | 16.0 | | 16.0 | | 15.9 | | 16.0 |
| 103 | Moisture | | % | | | 15.6 | | 16.8 | | 16.2 | | 16.2 |
| 104 | Temperature | | °F | | | 281 | | 278 | | 276 | | 278 |

| | B | C | D | E | F | G | H | I | J | K | L | M |
|----|------------------------------|----------|---------|---|----|---------|----|---------|----|---------|-----|----------|
| 1 | Stack Gas Emissions 2 | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 474C1 | | | | | R1 | | R2 | | R3 | | Cond Avg |
| 5 | | | | | | | | | | | | |
| 6 | PM | E1 | gr/dscf | y | | 0.00178 | | 0.00501 | | 0.00290 | | 0.00323 |
| 7 | CO (MHRA) | E1 | ppmv | y | | 51.80 | | 51.50 | | 69.60 | | 57.63 |
| 8 | HC (MHRA) | E1 | ppmv | y | | 4.20 | | 2.40 | | 3.00 | | 3.20 |
| 9 | HCl | E1 | ppmv | y | | 994.00 | | 810.00 | | 1058.00 | | 954.00 |
| 10 | Cl2 | E1 | ppmv | y | | 0.40 | nd | 0.33 | nd | 0.34 | | 0.36 |
| 11 | Total Chlorine | E1 | ppmv | y | | 994.80 | | 810.66 | | 1058.68 | | 954.71 |
| 12 | Antimony | E2 | ug/dscm | y | | 23.43 | | 5.90 | nd | 2.31 | | 10.54 |
| 13 | Arsenic | E2 | ug/dscm | y | | 12.07 | | 3.72 | | 3.18 | | 6.32 |
| 14 | Barium | E2 | ug/dscm | y | | 179.22 | | 24.88 | | 24.42 | | 76.18 |
| 15 | Beryllium | E2 | ug/dscm | y | nd | 0.21 | nd | 0.19 | nd | 0.23 | 100 | 0.21 |
| 16 | Cadmium | E2 | ug/dscm | y | | 8.96 | | 9.90 | | 15.25 | | 11.37 |
| 17 | Chromium | E2 | ug/dscm | y | | 14.10 | | 49.02 | | 17.98 | | 27.04 |
| 18 | Chromium (Hex) | E3 | ug/dscm | y | | 13.63 | | 19.48 | | 12.47 | | 15.20 |
| 19 | Lead | E2 | ug/dscm | y | | 54.10 | | 65.78 | | 79.85 | | 66.58 |
| 20 | Mercury | E2 | ug/dscm | y | | 6.76 | | 9.15 | | 9.17 | | 8.36 |
| 21 | Silver | E2 | ug/dscm | y | nd | 0.83 | nd | 0.76 | nd | 0.92 | 100 | 0.84 |
| 22 | Thallium | E2 | ug/dscm | y | nd | 2.07 | nd | 1.91 | nd | 2.31 | 100 | 2.10 |
| 23 | SVM | E2 | ug/dscm | y | | 63.06 | | 75.68 | | 95.10 | | 77.95 |
| 24 | LVM | E2 | ug/dscm | y | | 26.38 | | 52.94 | | 21.39 | | 33.57 |
| 25 | | | | | | | | | | | | |
| 26 | Sampling Train | Halogens | E1 | | | | | | | | | |
| 27 | Stack Gas Flowrate | | dscfm | | | 17873 | | 18367 | | 19244 | | |
| 28 | O2 | | % | | | 14.4 | | 14.3 | | 15.4 | | |
| 29 | Moisture | | % | | | 14.6 | | 13.9 | | 12.8 | | |
| 30 | Temperature | | °F | | | 308 | | 319 | | 322 | | |
| 31 | | | | | | | | | | | | |
| 32 | Sampling Train | Metals | E2 | | | | | | | | | |
| 33 | Stack Gas Flowrate | | dscfm | | | 16747 | | 17979 | | 18556 | | |
| 34 | O2 | | % | | | 14.4 | | 14.3 | | 15.4 | | |
| 35 | Moisture | | % | | | 15.7 | | 15.8 | | 14.2 | | |
| 36 | Temperature | | °F | | | 308 | | 324 | | 323 | | |
| 37 | | | | | | | | | | | | |
| 38 | Sampling Train | Cr Hex | E3 | | | | | | | | | |
| 39 | Stack Gas Flowrate | | dscfm | | | 17075 | | 16205 | | 22960 | | |
| 40 | O2 | | % | | | 14.4 | | 14.3 | | 15.4 | | |
| 41 | Moisture | | % | | | 19.1 | | 18.2 | | 12.4 | | |
| 42 | Temperature | | °F | | | 307 | | 314 | | 330 | | |

| | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | | | | | | |
|-----|-----------------------------------|------------|----------|---|--------------|--------------|--------------|--------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|---------|----|--|
| 61 | Feedstream Number | | | | F1 | F1 | F1 | F1 | F2 | F2 | F2 | F2 | F2 | F2 | F3 | F3 | F3 | F3 | F3 | F3 | F3 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | | | | | | |
| 62 | Feed Class | | | | Raw Material | Raw Material | Raw Material | Raw Material | Liq HW | Liq HW | Liq HW | Liq HW | Liq HW | Liq HW | Spike | Spike | Spike | Spike | Spike | Spike | Spike | Total | Total | Total | Total | Total | Total | Total | Total | | | | | | |
| 63 | Feed Class 2 | | | | RM | RM | RM | RM | HW | HW | HW | HW | HW | HW | Spike | Spike | Spike | Spike | Spike | Spike | Spike | Total | Total | Total | Total | Total | Total | Total | Total | | | | | | |
| 64 | Feedstream Description | | | | RM | RM | RM | RM | LBM | LBM | LBM | LBM | LBM | LBM | Spike | Spike | Spike | Spike | Spike | Spike | Spike | Total | Total | Total | Total | Total | Total | Total | Total | | | | | | |
| 65 | Feed Rate | | lb/min | | | | | | 23.76 | 37.2 | 37.71 | | | | | | | | | | | | | | | | | | | | | | | | |
| 66 | Density | | g/cc | | | | | | 0.882 | 0.909 | 0.942 | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | Heating Value | | Btu/lb | | | | | | 12835 | 11735 | 11111 | | | | | | | | | | | | | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | Ash | | % | | | | | | 1.94 | 2.01 | 3.55 | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | Chlorine | | % | | 0.019 | 0.018 | 0.018 | 0.018 | 0.62 | 0.67 | 0.56 | | | | | | | | | | | | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 73 | Chlorine | | g/hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 39239 | | |
| 74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | Stack Gas Flowrate | | dscfm | | 26389 | 26719 | 27571 | 26389 | 26719 | 27571 | 26389 | 26719 | 27571 | 26389 | 26719 | 27571 | 26389 | 26719 | 27571 | 26389 | 26719 | 27571 | 26389 | 26719 | 27571 | 26389 | 26719 | 27571 | 26389 | 26719 | 27571 | 26893 | | | |
| 76 | Oxygen | | % | | 15.7 | 16.2 | 15.9 | 15.7 | 16.2 | 15.9 | 15.7 | 16.2 | 15.9 | 15.7 | 16.2 | 15.9 | 15.7 | 16.2 | 15.9 | 15.7 | 16.2 | 15.9 | 15.7 | 16.2 | 15.9 | 15.7 | 16.2 | 15.9 | 15.7 | 16.2 | 15.9 | 16 | | | |
| 77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 78 | Thermal Feedrate | | MMBtu/hr | | | | | | 18.30 | 26.19 | 25.14 | | | | | | | | | | | 18.30 | 26.19 | 25.14 | | | | | | | | | 23 | | |
| 79 | Estimated Firing Rate | | MMBtu/hr | | | | | | | | | | | | | | | | | | | 44.40 | 40.71 | 44.64 | | | | | | | | | 43 | | |
| 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | <i>Feedrate MTEC Calculations</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | Chlorine | | ug/dscm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2374361 | | |
| 83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 474C12 | Trial burn | | | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | Cond Avg | | | | | | |
| 86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 | Feed Class 2 | | | | RM | RM | RM | RM | HW | HW | HW | HW | HW | HW | Spike | Spike | Spike | Spike | Spike | Spike | Spike | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | | |
| 88 | Feedstream Description | | | | RM | RM | RM | RM | LBM | LBM | LBM | LBM | LBM | LBM | Spike | Spike | Spike | Spike | Spike | Spike | Spike | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | | |
| 89 | Feed Rate | | lb/hr | | | | | | 40.7 | 40.2 | 38.83 | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | Density | | g/cc | | | | | | 0.93 | 0.916 | 0.91 | | | | | | | | | | | | | | | | | | | | | | | | |
| 91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92 | Heating Value | | Btu/lb | | | | | | 11126 | 11484 | 11770 | | | | | | | | | | | | | | | | | | | | | | | | |
| 93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | Ash | | % | | | | | | 3.73 | 2.93 | 1.83 | | | | | | | | | | | | | | | | | | | | | | | | |
| 95 | Chlorine | | % | | 0.0095 | 0.009 | 0.008 | 0.008 | 2.55 | 1.96 | 2.6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 98 | Stack Gas Flowrate | | dscfm | | 20683 | 19909 | 19711 | 20683 | 19909 | 19711 | 20683 | 19909 | 19711 | 20683 | 19909 | 19711 | 20683 | 19909 | 19711 | 20683 | 19909 | 19711 | 20683 | 19909 | 19711 | 20683 | 19909 | 19711 | 20683 | 19909 | 19711 | 20101 | | | |
| 99 | Oxygen | | % | | 16.0 | 16.0 | 15.9 | 16 | 16 | 15.9 | 16 | 16 | 15.9 | 16 | 16 | 15.9 | 16 | 16 | 15.9 | 16 | 16 | 15.9 | 16 | 16 | 15.9 | 16 | 16 | 15.9 | 16 | 16 | 15.9 | 16 | 16 | | |
| 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 101 | Thermal Feedrate | | MMBtu/hr | | | | | | 27.17 | 27.70 | 27.42 | | | | | | | | | | | 27.17 | 27.70 | 27.42 | | | | | | | | | | 27 | |
| 102 | Estimated Firing Rate | | MMBtu/hr | | | | | | | | | | | | | | | | | | | 32.83 | 31.60 | 31.91 | | | | | | | | | | 32 | |

| | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | | | | | | |
|----|------------------------|----------|---------------|---------|---------|--------------|--------------|--------------|--------|--------|--------|---------|---------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|
| 1 | Feedstream 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 474C1 | | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | R1 | R2 | R3 | Cond Avg | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Feedstream Number | | F1 | F1 | F1 | F2 | F2 | F2 | F3 | F3 | F3 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | F4 | | | | | |
| 7 | Feed Class | | Liq HW | Liq HW | Liq HW | Raw materia | Raw material | Raw material | Spike | Spike | Spike | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | | | | | | |
| 8 | Feed Class 2 | | HW | HW | HW | RM | RM | RM | Spike | Spike | Spike | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | | | | | | |
| 9 | Feedstream Description | | Liq haz waste | | | Raw material | | | Spike | Spike | Spike | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | | | | | |
| 10 | Feedrate | lb/hr | 3051 | 2898 | 2895 | 25160 | 25220 | 25700 | 0.74 | 0.69 | 0.57 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Heating value | Btu/lb | 10619 | 10766 | 10984 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Chlorine | lb/hr | 45.2031 | 38.7509 | 42.2679 | 7.2084 | 6.0338 | 6.2624 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Antimony | lb/hr | 0.0311 | 0.0282 | 0.0600 | 0.0251 | 0.0251 | 0.0258 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Arsenic | lb/hr | 0.8854 | 0.6071 | 0.6541 | 0.3439 | 0.2910 | 0.3333 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Barium | lb/hr | 0.2487 | 0.1881 | 0.4707 | 9.7119 | 9.6341 | 7.6330 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | Beryllium | lb/hr | 0.2762 | 0.2665 | 0.2535 | 0.0972 | 0.1082 | 0.0869 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Cadmium | lb/hr | 1.7796 | 1.7985 | 1.7008 | 0.4815 | 0.4866 | 0.4608 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Chromium | lb/hr | 0.1777 | 0.1627 | 0.4164 | 2.8691 | 2.9134 | 2.5232 | 0.7390 | 0.6876 | 0.5675 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | Chromium (Hex) | lb/hr | | | | | | | 0.7390 | 0.6876 | 0.5675 | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | Lead | lb/hr | 21.4159 | 17.6628 | 21.7953 | 6.9491 | 0.9610 | 0.8975 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | Mercury | lb/hr | 0.0002 | 0.0002 | 0.0002 | 0.0011 | 0.0011 | 0.0011 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Silver | lb/hr | 0.0011 | 0.0011 | 0.0011 | 0.0101 | 0.0101 | 0.0104 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | Thallium | lb/hr | 0.0026 | 0.0026 | 0.0026 | 0.0251 | 0.0251 | 0.0258 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | Gas flowrate | | 16747 | 17979 | 18556 | 16747 | 17979 | 18556 | 16747 | 17979 | 18556 | 16747 | 17979 | 18556 | 16747 | 17979 | 18556 | 16747 | 17979 | 18556 | 16747 | 17979 | 18556 | 17760.67 | | | | | | | | | | | |
| 26 | Oxygen | | 14.4 | 14.3 | 15.4 | 14.4 | 14.3 | 15.4 | 14.4 | 14.3 | 15.4 | 14.4 | 14.3 | 15.4 | 14.4 | 14.3 | 15.4 | 14.4 | 14.3 | 15.4 | 14.4 | 14.3 | 15.4 | 14.7 | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Thermal Feedrate | MMBtu/hr | 32.4 | 31.2 | 31.8 | | | | | | | | | | | | | | | | | | 32.4 | 31.2 | 31.8 | 31.8 | | | | | | | | | |
| 29 | Estimated Firing Rate | MMBtu/hr | | | | | | | | | | | | | | | | | | | | | 35.09 | 38.24 | 32.99 | 35.52 | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | Feedrate MTECs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | Chlorine | ug/dscm | 1530854 | 1204170 | 1522596 | 244120 | 187497 | 225587 | 0 | 0 | 0 | 1774973 | 1391667 | 1748183 | 1638274 | | | | | | | | | | | | | | | | | | | | |
| 33 | Antimony | ug/dscm | 1053 | 877 | 2160 | 851 | 781 | 929 | 0 | 0 | 0 | 1904 | 1658 | 3089 | 2217 | | | | | | | | | | | | | | | | | | | | |
| 34 | Arsenic | ug/dscm | 29984 | 18867 | 23562 | 11647 | 9043 | 12008 | 0 | 0 | 0 | 41631 | 27910 | 35570 | 35037 | | | | | | | | | | | | | | | | | | | | |
| 35 | Barium | ug/dscm | 8422 | 5844 | 16955 | 328905 | 299376 | 274959 | 0 | 0 | 0 | 337327 | 305220 | 291914 | 311487 | | | | | | | | | | | | | | | | | | | | |
| 36 | Beryllium | ug/dscm | 9355 | 8283 | 9133 | 3293 | 3364 | 3129 | 0 | 0 | 0 | 12648 | 11646 | 12262 | 12185 | | | | | | | | | | | | | | | | | | | | |
| 37 | Cadmium | ug/dscm | 60267 | 55888 | 61269 | 16306 | 15120 | 16598 | 0 | 0 | 0 | 76573 | 71008 | 77867 | 75149 | | | | | | | | | | | | | | | | | | | | |
| 38 | Chromium | ug/dscm | 6018 | 5056 | 15002 | 97164 | 90532 | 90891 | 25026 | 21367 | 20441 | 128208 | 116955 | 126334 | 123832 | | | | | | | | | | | | | | | | | | | | |
| 39 | Chromium (Hex) | ug/dscm | 0 | 0 | 0 | 0 | 0 | 0 | 25026 | 21367 | 20441 | 25026 | 21367 | 20441 | 22278 | | | | | | | | | | | | | | | | | | | | |
| 40 | Lead | ug/dscm | 725274 | 548865 | 785122 | 235340 | 29862 | 32330 | 0 | 0 | 0 | 960614 | 578728 | 817452 | 785598 | | | | | | | | | | | | | | | | | | | | |
| 41 | Mercury | ug/dscm | 7 | 7 | 8 | 37 | 34 | 40 | 0 | 0 | 0 | 45 | 41 | 48 | 45 | | | | | | | | | | | | | | | | | | | | |
| 42 | Silver | ug/dscm | 37 | 34 | 40 | 343 | 315 | 373 | 0 | 0 | 0 | 381 | 349 | 413 | 381 | | | | | | | | | | | | | | | | | | | | |
| 43 | Thallium | ug/dscm | 90 | 82 | 95 | 851 | 781 | 929 | 0 | 0 | 0 | 941 | 863 | 1024 | 943 | | | | | | | | | | | | | | | | | | | | |
| 44 | SVM | ug/dscm | 785541 | 604753 | 846391 | 251646 | 44982 | 48928 | 0 | 0 | 0 | 1037186 | 649735 | 895319 | 860747 | | | | | | | | | | | | | | | | | | | | |
| 45 | LVM | ug/dscm | 45357 | 32205 | 47697 | 112104 | 102939 | 106027 | 25026 | 21367 | 20441 | 182487 | 156511 | 174165 | 171055 | | | | | | | | | | | | | | | | | | | | |

| | B | C | D | E | F | G | H |
|----|--------------------------------|----------|-----|-------|-------|-------|----------|
| 1 | Process Information 1 | | | | | | |
| 2 | | Units | | R1 | R2 | R3 | Cond Avg |
| 3 | 474C10 | | CoC | | | | |
| 4 | | | | | | | |
| 5 | Max comb chamber temp | °F | | 2930 | 2882 | 2941 | 2917.7 |
| 6 | Max baghouse inlet temperature | °F | | 434.3 | 434.6 | 428.8 | 432.6 |
| 7 | Min baghouse pressure drop | in. w.c. | | 4.47 | 4.31 | 4.37 | 4.38 |
| 8 | | | | | | | |
| 9 | 474C11 | | | | | | |
| 10 | | | | | | | |
| 11 | Combustion zone temperature | °F | | 1615 | 1559 | 1656 | 1610 |
| 12 | Min mid kiln temperature | °F | | 1086 | 1079 | 1067 | 1077 |
| 13 | Max kiln exit temperature | °F | | 481 | 474 | 481 | 479 |
| 14 | Max baghouse inlet temperature | °F | | 436 | 437 | 438 | 437 |
| 15 | Kiln maximum negative pressure | in. w.c. | | | | | -4.37 |
| 16 | | | | | | | |
| 17 | 474C12 | | | | | | |
| 18 | | | | | | | |
| 19 | Comb zone temperature | °F | | 1976 | 1982 | 1980 | 1980 |
| 20 | Mid kiln temperature | °F | | 973 | 892 | 929 | 931 |
| 21 | Max kiln exit temperature | °F | | 385 | 364 | 368 | 372 |
| 22 | Baghouse inlet temperature | °F | | 354 | 353 | 352 | 353 |
| 23 | Kiln maximum negative pressure | in. w.c. | | | | | -4.24 |

| | C | D | E | F | G |
|---|------------------------------|--------|------|------|------|
| 1 | Process Information 2 | | | | |
| 2 | | | | | |
| 3 | 474C1 | | R1 | R2 | R3 |
| 4 | | | | | |
| 5 | Combustion Temperature | F | 2490 | 2403 | 2613 |
| 6 | FF Temperature | F | 405 | 411 | 407 |
| 7 | FF Pressure Drop | in H2O | 4.9 | 5.89 | 7.3 |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|----|--------------------------------|---|--|---------|--------|---------|---------|---------|--------|---------|---------|---------|--------|---------|---------|---------|--------|---------|
| 1 | PCDD/PCDF | | | | | | | | | | | | | | | | | |
| 2 | N | | | | | | | | | | | | | | | | | |
| 3 | Facility Name and ID: | | Solite Corp, Lightweight Aggregate Kiln #3 | | | | | | | | | | | | | | | |
| 4 | Condition ID: | | 474C11 Trial Burn | | | | | | | | | | | | | | | |
| 5 | Condition/Test Date: | | Nov 18-19, 1999 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | I-TEF | | Run 1 | | | | Run 2 | | | | Run 3 | | | | | | | |
| 8 | Wght Fact | | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ |
| 9 | | | Full ND | Full ND | 1/2 ND | 1/2 ND | Full ND | Full ND | 1/2 ND | 1/2 ND | Full ND | Full ND | 1/2 ND | 1/2 ND | Full ND | Full ND | 1/2 ND | 1/2 ND |
| 10 | Detected in sample volume (ng) | | | | | | | | | | | | | | | | | |
| 11 | 2,3,7,8-TCDD | | 1 | 0.970 | 0.970 | 0.970 | 0.970 | 0.930 | 0.930 | 0.930 | 0.930 | 0.730 | 0.730 | 0.730 | 0.730 | 0.730 | 0.730 | 0.730 |
| 12 | 1,2,3,7,8-PCDD | | 0.5 | 1.690 | 0.845 | 1.690 | 0.845 | 1.760 | 0.880 | 1.760 | 0.880 | 1.730 | 0.865 | 1.730 | 0.865 | 1.730 | 0.865 | 1.730 |
| 13 | 1,2,3,4,7,8-HxCDD | | 0.1 | 0.770 | 0.077 | 0.770 | 0.077 | 0.880 | 0.088 | 0.880 | 0.088 | 1.040 | 0.104 | 1.040 | 0.104 | 1.040 | 0.104 | 1.040 |
| 14 | 1,2,3,6,7,8-HxCDD | | 0.1 | 3.070 | 0.307 | 3.070 | 0.307 | 2.970 | 0.297 | 2.970 | 0.297 | 5.140 | 0.514 | 5.140 | 0.514 | 5.140 | 0.514 | 5.140 |
| 15 | 1,2,3,7,8,9-HxCDD | | 0.1 | 1.830 | 0.183 | 1.830 | 0.183 | 1.960 | 0.196 | 1.960 | 0.196 | 3.210 | 0.321 | 3.210 | 0.321 | 3.210 | 0.321 | 3.210 |
| 16 | 1,2,3,4,6,7,8-HpCDD | | 0.01 | 6.480 | 0.065 | 6.480 | 0.065 | 7.200 | 0.072 | 7.200 | 0.072 | 14.590 | 0.146 | 14.590 | 0.146 | 14.590 | 0.146 | 14.590 |
| 17 | OCDD | | 0.001 | 1.570 | 0.002 | 1.570 | 0.002 | 2.130 | 0.002 | 2.130 | 0.002 | 4.630 | 0.005 | 4.630 | 0.005 | 4.630 | 0.005 | 4.630 |
| 18 | 2,3,7,8-TCDF | | 0.1 | 27.210 | 2.721 | 27.210 | 2.721 | 26.500 | 2.650 | 26.500 | 2.650 | 20.600 | 2.060 | 20.600 | 2.060 | 20.600 | 2.060 | 20.600 |
| 19 | 1,2,3,7,8-PCDF | | 0.05 | 19.690 | 0.985 | 19.690 | 0.985 | 21.730 | 1.087 | 21.730 | 1.087 | 18.100 | 0.905 | 18.100 | 0.905 | 18.100 | 0.905 | 18.100 |
| 20 | 2,3,4,7,8-PCDF | | 0.5 | 33.260 | 16.630 | 33.260 | 16.630 | 35.200 | 17.600 | 35.200 | 17.600 | 28.920 | 14.460 | 28.920 | 14.460 | 28.920 | 14.460 | 28.920 |
| 21 | 1,2,3,4,7,8-HxCDF | | 0.1 | 23.820 | 2.382 | 23.820 | 2.382 | 26.100 | 2.610 | 26.100 | 2.610 | 25.850 | 2.585 | 25.850 | 2.585 | 25.850 | 2.585 | 25.850 |
| 22 | 1,2,3,6,7,8-HxCDF | | 0.1 | 11.150 | 1.115 | 11.150 | 1.115 | 12.200 | 1.220 | 12.200 | 1.220 | 12.020 | 1.202 | 12.020 | 1.202 | 12.020 | 1.202 | 12.020 |
| 23 | 2,3,4,6,7,8-HxCDF | | 0.1 | 0.710 | 0.071 | 0.710 | 0.071 | 0.820 | 0.082 | 0.820 | 0.082 | 0.980 | 0.098 | 0.980 | 0.098 | 0.980 | 0.098 | 0.980 |
| 24 | 1,2,3,7,8,9-HxCDF | | 0.1 | 10.420 | 1.042 | 10.420 | 1.042 | 11.600 | 1.160 | 11.600 | 1.160 | 11.830 | 1.183 | 11.830 | 1.183 | 11.830 | 1.183 | 11.830 |
| 25 | 1,2,3,4,6,7,8-HpCDF | | 0.01 | 8.830 | 0.088 | 8.830 | 0.088 | 11.310 | 0.113 | 11.310 | 0.113 | 13.430 | 0.134 | 13.430 | 0.134 | 13.430 | 0.134 | 13.430 |
| 26 | 1,2,3,4,7,8,9-HpCDF | | 0.01 | 1.700 | 0.017 | 1.700 | 0.017 | 1.890 | 0.019 | 1.890 | 0.019 | 2.310 | 0.023 | 2.310 | 0.023 | 2.310 | 0.023 | 2.310 |
| 27 | OCDF | | 0.001 | 0.940 | 0.001 | 0.940 | 0.001 | 1.240 | 0.001 | 1.240 | 0.001 | 1.850 | 0.002 | 1.850 | 0.002 | 1.850 | 0.002 | 1.850 |
| 28 | Total TCDD | | 0 | 32.580 | 0.000 | 32.580 | 0.000 | 27.020 | 0.000 | 27.020 | 0.000 | 24.590 | 0.000 | 24.590 | 0.000 | 24.590 | 0.000 | 24.590 |
| 29 | Total PCDD | | 0 | 33.480 | 0.000 | 33.480 | 0.000 | 29.910 | 0.000 | 29.910 | 0.000 | 39.850 | 0.000 | 39.850 | 0.000 | 39.850 | 0.000 | 39.850 |
| 30 | Total HxCDD | | 0 | 34.170 | 0.000 | 34.170 | 0.000 | 30.930 | 0.000 | 30.930 | 0.000 | 53.140 | 0.000 | 53.140 | 0.000 | 53.140 | 0.000 | 53.140 |
| 31 | Total HpCDD | | 0 | 14.300 | 0.000 | 14.300 | 0.000 | 15.200 | 0.000 | 15.200 | 0.000 | 29.110 | 0.000 | 29.110 | 0.000 | 29.110 | 0.000 | 29.110 |
| 32 | Total TCDF | | 0 | 727.55 | 0.000 | 727.550 | 0.000 | 767.53 | 0.000 | 767.530 | 0.000 | 581.68 | 0.000 | 581.680 | 0.000 | 581.680 | 0.000 | 581.680 |
| 33 | Total PCDF | | 0 | 362.73 | 0.000 | 362.730 | 0.000 | 356.18 | 0.000 | 356.180 | 0.000 | 270.82 | 0.000 | 270.820 | 0.000 | 270.820 | 0.000 | 270.820 |
| 34 | Total HxCDF | | 0 | 108.600 | 0.000 | 108.600 | 0.000 | 116.580 | 0.000 | 116.580 | 0.000 | 109.290 | 0.000 | 109.290 | 0.000 | 109.290 | 0.000 | 109.290 |
| 35 | Total HpCDF | | 0 | 15.770 | 0.000 | 15.770 | 0.000 | 18.990 | 0.000 | 18.990 | 0.000 | 22.530 | 0.000 | 22.530 | 0.000 | 22.530 | 0.000 | 22.530 |
| 36 | | | | | | | | | | | | | | | | | | |
| 37 | Gas sample volume (dscf) | | | | 128.45 | 128.45 | 128.45 | | 130.86 | 130.86 | 130.86 | | 129.21 | 129.21 | 129.21 | | 129.21 | 129.21 |
| 38 | O2 (%) | | | | 15.70 | 15.70 | 15.70 | | 16.2 | 16.2 | 16.2 | | 15.90 | 15.90 | 15.90 | | 15.90 | 15.90 |
| 39 | | | | | | | | | | | | | | | | | | |
| 40 | PCDD/PCDF (ng in sample) | | | | 27.500 | 1331.7 | 27.500 | | 29.007 | 1365.7 | 29.007 | | 25.337 | 1137.5 | 25.337 | | 25.337 | 1137.5 |
| 41 | PCDD/PCDF (ng/dscm @ 7% O2) | | | 0.0 | 19.983 | 967.68 | 19.983 | 0.0 | 22.846 | 1075.64 | 22.846 | 0.0 | 19.020 | 853.92 | 19.020 | | 19.020 | 853.92 |
| 42 | | | | | | | | | | | | | | | | | | |
| 43 | TEQ Cond Avg | | 20.617 | | | | | | | | | | | | | | | |
| 44 | Total Cond Avg | | 965.75 | | | | | | | | | | | | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|----|--------------------------------|---|--|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|
| 1 | PCDD/PCDF | | | | | | | | | | | | | | | | | |
| 2 | N | | | | | | | | | | | | | | | | | |
| 3 | Facility Name and ID: | | Solite Corp, Lightweight Aggregate Kiln #3 | | | | | | | | | | | | | | | |
| 4 | Condition ID: | | 474C12 Trial Burn | | | | | | | | | | | | | | | |
| 5 | Condition/Test Date: | | May 11-19, 2000 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | I-TEF | | Run 1 | | | | Run 2 | | | | Run 3 | | | | | | | |
| 8 | Wght Fact | | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ | Total | TEQ |
| 9 | | | Full ND | Full ND | 1/2 ND | 1/2 ND | Full ND | Full ND | 1/2 ND | 1/2 ND | Full ND | Full ND | 1/2 ND | 1/2 ND | Full ND | Full ND | 1/2 ND | 1/2 ND |
| 10 | Detected in sample volume (pg) | | | | | | | | | | | | | | | | | |
| 11 | 2,3,7,8-TCDD | | 1 | 7.8 | 8 | 8 | 8 | 11.3 | 11 | 11 | 11 | 15.0 | 15 | 15 | 15 | 15 | 15 | 15 |
| 12 | 1,2,3,7,8-PCDD | | 0.5 | 20.9 | 10 | 21 | 10 | 21.7 | 11 | 22 | 11 | 28.9 | 14 | 29 | 14 | 29 | 14 | 14 |
| 13 | 1,2,3,4,7,8-HxCDD | | 0.1 | 18.4 | 2 | 18 | 2 | 23.8 | 2 | 24 | 2 | 22.4 | 2 | 22 | 2 | 22 | 2 | 2 |
| 14 | 1,2,3,6,7,8-HxCDD | | 0.1 | 58.2 | 6 | 58 | 6 | 72.0 | 7 | 72 | 7 | 74.5 | 7 | 75 | 7 | 75 | 7 | 7 |
| 15 | 1,2,3,7,8,9-HxCDD | | 0.1 | 30.7 | 3 | 31 | 3 | 38.4 | 4 | 38 | 4 | 38.7 | 4 | 39 | 4 | 39 | 4 | 4 |
| 16 | 1,2,3,4,6,7,8-HpCDD | | 0.01 | 197.0 | 2 | 197 | 2 | 410.0 | 4 | 410 | 4 | 269.0 | 3 | 269 | 3 | 269 | 3 | 3 |
| 17 | OCDD | | 0.001 | 365.0 | 0 | 365 | 0 | 1850.0 | 2 | 1850 | 2 | 392.0 | 0 | 392 | 0 | 392 | 0 | 0 |
| 18 | 2,3,7,8-TCDF | | 0.1 | 112.0 | 11 | 112 | 11 | 200.0 | 20 | 200 | 20 | 340.0 | 34 | 340 | 34 | 340 | 34 | 34 |
| 19 | 1,2,3,7,8-PCDF | | 0.05 | 91.7 | 5 | 92 | 5 | 117.0 | 6 | 117 | 6 | 201.0 | 10 | 201 | 10 | 201 | 10 | 10 |
| 20 | 2,3,4,7,8-PCDF | | 0.5 | 154.0 | 77 | 154 | 77 | 183.0 | 92 | 183 | 92 | 295.0 | 148 | 295 | 148 | 295 | 148 | 148 |
| 21 | 1,2,3,4,7,8-HxCDF | | 0.1 | 109.0 | 11 | 109 | 11 | 110.0 | 11 | 110 | 11 | 153.0 | 15 | 153 | 15 | 153 | 15 | 15 |
| 22 | 1,2,3,6,7,8-HxCDF | | 0.1 | 89.4 | 9 | 89 | 9 | 92.6 | 9 | 93 | 9 | 129.0 | 13 | 129 | 13 | 129 | 13 | 13 |
| 23 | 2,3,4,6,7,8-HxCDF | | 0.1 | 24.3 | 2 | 24 | 2 | 28.9 | 3 | 29 | 3 | 37.1 | 4 | 37 | 4 | 37 | 4 | 4 |
| 24 | 1,2,3,7,8,9-HxCDF | | 0.1 | 60.1 | 6 | 60 | 6 | 79.6 | 8 | 80 | 8 | 86.4 | 9 | 86 | 9 | 86 | 9 | 9 |
| 25 | 1,2,3,4,6,7,8-HpCDF | | 0.01 | 198.0 | 2 | 198 | 2 | 391.0 | 4 | 391 | 4 | 234.0 | 2 | 234 | 2 | 234 | 2 | 2 |
| 26 | 1,2,3,4,7,8,9-HpCDF | | 0.01 | 27.3 | 0 | 27 | 0 | 50.6 | 1 | 51 | 1 | 45.6 | 0 | 46 | 0 | 46 | 0 | 0 |
| 27 | OCDF | | 0.001 | 151.0 | 0 | 151 | 0 | 371.0 | 0 | 371 | 0 | 167.0 | 0 | 167 | 0 | 167 | 0 | 0 |
| 28 | Total TCDD | | 0 | 393 | 0 | 393 | 0 | 550 | 0 | 550 | 0 | 834 | 0 | 834 | 0 | 834 | 0 | 0 |
| 29 | Total PCDD | | 0 | 445 | 0 | 445 | 0 | 504 | 0 | 504 | 0 | 589 | 0 | 589 | 0 | 589 | 0 | 0 |
| 30 | Total HxCDD | | 0 | 575 | 0 | 575 | 0 | 664 | 0 | 664 | 0 | 731 | 0 | 731 | 0 | 731 | 0 | 0 |
| 31 | Total HpCDD | | 0 | 336 | 0 | 336 | 0 | 710 | 0 | 710 | 0 | 468 | 0 | 468 | 0 | 468 | 0 | 0 |
| 32 | Total TCDF | | 0 | 7100 | 0 | 7100 | 0 | 13800 | 0 | 13800 | 0 | 22300 | 0 | 22300 | 0 | 22300 | 0 | 0 |
| 33 | Total PCDF | | 0 | 2050 | 0 | 2050 | 0 | 3170 | 0 | 3170 | 0 | 5260 | 0 | 5260 | 0 | 5260 | 0 | 0 |
| 34 | Total HxCDF | | 0 | 758 | 0 | 758 | 0 | 807 | 0 | 807 | 0 | 1050 | 0 | 1050 | 0 | 1050 | 0 | 0 |
| 35 | Total HpCDF | | 0 | 301 | 0 | 301 | 0 | 582 | 0 | 582 | 0 | 374 | 0 | 374 | 0 | 374 | 0 | 0 |
| 36 | | | | | | | | | | | | | | | | | | |
| 37 | Gas sample volume (dscf) | | | | 126.54 | 126.54 | 126.54 | | 123.32 | 123.32 | 123.32 | | 121.03 | 121.03 | 121.03 | | 121.03 | 121.03 |
| 38 | O2 (%) | | | | 16.00 | 16.00 | 16.00 | | 16.0 | 16.0 | 16.0 | | 15.90 | 15.90 | 15.90 | | 15.90 | 15.90 |
| 39 | | | | | | | | | | | | | | | | | | |
| 40 | PCDD/PCDF (ng in sample) | | | | 0.155 | 12.5 | 0.155 | | 0.195 | 23.0 | 0.195 | | 0.281 | 32.2 | 0.281 | | 0.281 | 0.281 |
| 41 | PCDD/PCDF (ng/dscm @ 7% O2) | | 0.0 | | 0.121 | 9.75 | 0.121 | 0.0 | 0.156 | 18.46 | 0.156 | 0.0 | 0.225 | 25.78 | 0.225 | | 0.225 | 0.225 |
| 42 | | | | | | | | | | | | | | | | | | |
| 43 | TEQ Cond Avg | | 0.168 | | | | | | | | | | | | | | | |
| 44 | Total Cond Avg | | 18.00 | | | | | | | | | | | | | | | |