

**American Industrial Hygiene Association  
Bulk Asbestos Proficiency Analytical Testing Program  
Results of Round A101-414  
1/9/2015**

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Laboratory ID Number  
213022

Total Penalty Points 0  
Round Status P  
Program Status P

| Lot Designation\Sample ID Numbers                     | A) 5001                                      | B) 5556                      | C) 2193                                       | D) 7588                               |
|---|--|------------------------------|---|---------------------------------------|
| <b>Analysis Results from Laboratory Number</b>        |  |                              |   |                                       |
| Asbestos (%)  | 213022<br>NONE                               | AMOS (4)                     | CHRY (1)                                      | NONE                                  |
| Other Fibrous Materials (%)                           | FBGL (5)                                     | FBGL (1)                     |   | CELL (10)<br>FBGL (1)                 |
| Nonfibrous Material (%)                               | ACID (47)<br>OTHR (38)                       | ACID (85)<br>OTHR (10)       | OTHR (90)<br>ACID (2)                         | ACID (68)<br>MICA (20)                |
| Penalty Points Assessed                               | 0  | 0                            | 0   | 0                                     |
| <b>Analysis Results from Reference Laboratory One</b> |  |                              |   |                                       |
| Asbestos (%)  | NONE   | AMOS (5.5)                   | CHRY (15)                                     | NONE                                  |
| Other Fibrous Materials (%)                           | FBGL (5)                                     | CELL (1.0)<br>FBGL (0.5)     | CELL (3)                                      | CELL (15)                             |
| Nonfibrous Material (%)                               | OTHR *1 (20)<br>OTHR *2 (75)                 | MICA (2.0)<br>OTHR *3 (91)   | OTHR *4 (82)                                  | MICA (30)<br>CASO (55)                |
| <b>Analysis Results from Reference Laboratory Two</b> |  |                              |   |                                       |
| Asbestos (%)  |  | AMOS (3.5)                   | CHRY (5.5)                                    | TREM (tr)                             |
| Other Fibrous Materials (%)                           | FBGL (4)                                     | FBGL (tr)                    |   |                                       |
| Nonfibrous Material (%)                               | OTHR *5 (10)<br>OTHR *6 (42)<br>OTHR *7 (44) | OTHR *8(96.5)                | CELL (2)<br>OTHR *9 (85.5)<br>OTHR *10 (7)    | OTHR *11 (12)<br>OTHR *12 (88)        |
| <b>Analysis Results from RTI International</b>        |  |                              |   |                                       |
| Asbestos (%)  | NONE   | AMOS (2)                     | CHRY (7)                                      | NONE                                  |
| Other Fibrous Materials (%)                           | FBGL (6)<br>OTHR *13 (9)<br>CELL (0)         | FBGL (0)<br>CELL (0)         |   | CELL (14)                             |
| Nonfibrous Material (%)                               | OTHR *14 (85)                                | OTHR *15 (98)                | OTHR *16 (89)<br>OTHR *17 (1)<br>OTHR *18 (3) | QTZ (7)<br>MICA (20)<br>OTHR *19 (59) |
| Acceptable Quantitation Range (%)                     | NONE   | AMOS(TRA-12)                 | CHRY(TRA-20)                                  | NONE                                  |
| <b>Summary of Results from all Laboratories</b>       |  |                              |   |                                       |
| Type One Asbestos                                     |  | AMOS                         | CHRY  |                                       |
| Type One Mean   |  | 7.9                          | 16.0  |                                       |
| Type Two Asbestos                                     |  |                              |   |                                       |
| Type Two Mean   |  |                              |   |                                       |
| Type Three Asbestos                                   |  |                              |   |                                       |
| Type Three Mean                                       |  |                              |   |                                       |
| Other Asbestos Types Reported in Sample               | AMOS, CHRY, TREM                             | ACTN, ANTH, CHRY, CROC, TREM | ANTH, AMOS                                    | ACTN, ANTH, AMOS, CHRY, TREM          |
| ACTN=Actinolite                                       | CHRY=Chrysotile                              | CELL=Cellulose               | CACO=Calcium Carbonate (Calcite)              |                                       |
| AMOS=Amosite  | CROC=Crocidolite                             | FBGL=Fiberglass/Mineral Wool | CASO=Calcium Sulfate (Gypsum)                 |                                       |
| ANTH=Anthophyllite                                    | TREM=Tremolite                               | SYNT=Synthetic               | MICA=Micaceous Material                       |                                       |
|   |  |                              | OTHR=Other                                    |                                       |
|   |  |                              | TRA=Trace                                     |                                       |
| P=Proficient  | NP=Nonproficient                             | I=Incomplete                 |   |                                       |

Footnotes explaining "OTHR" materials identified during sample analysis:

- |  |  |  |
|--|--|--|
| *1 styrofoam   | *8 mica, clay, gypsum, cement, quartz, unidentified matrix | *15 Calcareous and cement binders, quartz, mica, and opaques |
| *2 qtz sand-cement                                     | *9 vinyl, glue, and organics in ash                        | *16 Vinyl binder   |
| *3 gypsum/carbonate binder                             | *10 binders  | *17 Calcareous binder  |
| *4 vinyl binders pigments                              | *11 ashed, including cellulose                             | *18 Fine-grained mineral filler and pigments                 |
| *5 calcareous material acidified                       | *12 calcareous matrix, vermiculite, clay                   | *19 Acid-soluble binder and accessory minerals               |
| *6 ashed material, ashed material, including styrofoam | *13 Polystyrene foam                                       |  |
| *7 clay, quartz, cement, unidentified matrix           | *14 Cementitious matrix and quartz                         |  |