

## Appendix Q - Mine Dust Survey Sago Mine Explosion Investigation

*Sago Mine - Wolf Run Mining Company - Mine ID# 4608791*

**SURVEY #1(a): Sampling Area: Mains    Collected 1/30/06 - 2/03/06 by Clay    Rec. 2/17/06 from Cook/Hicks**

| Lab No. | Bag No. | Sample Type | Location in Mine                | Dust Analysis | Coke Content |
|---------|---------|-------------|---------------------------------|---------------|--------------|
| 681608  | 1A21    | Floor       | 0 + 5326                        | 79.1          | Trace        |
| 681609  | 1A21    | Floor       | 0 + 5326 1/2" Sample            | 79.0          | Trace        |
| 681610  | 1A22    | Floor       | 0 + 5400                        | 78.3          | Trace        |
| 681611  | 1A22    | Floor       | 0 + 5400 1/2" Sample            | 80.2          | Trace        |
| 681612  | 1A23    | Band        | 0 + 5500 2/02/06 GI             | 80.2          | Trace        |
| 681613  | 1A23    | Band        | 0 + 5500 2/02/06 GI 1/2" Sample | 79.9          | Small        |
| 681614  | 1A24    | Rib/Floor   | 0 + 5625 2/03/06 GI             | 76.9          | Trace        |
| 681615  | 1A25    | Floor       | 0 + 5728 1" Sample              | 77.7          | Small        |
| 681616  | 1A25    | Floor       | 0 + 5728 1/2" Sample            | 76.8          | Small        |
| 681617  | 1A26X   | Floor       | 0 + 5852 2/01/06 GI             | 70.2          | Small        |
| 681618  | 1A26X   | Floor       | 0 + 5852 2/01/06 GI 1/2" Sample | 68.3          | Small        |
| 681619  | 1B1     | Band        | 0 + 00 1" Band                  | 45.2          | None         |
| 681620  | 1B1     | Band        | 0 + 00 1/2" Band                | 45.6          | None         |
| 681621  | 1B2     | Band        | 0 + 520 1" Band                 | 69.3          | None         |
| 681622  | 1B2     | Band        | 0 + 520 1/2" Band               | 71.4          | None         |
| 681623  | 1B10    | Band        | 0 + 4186 1" Band                | 74.1          | None         |
| 681624  | 1B10    | Band        | 0 + 4186 1/2" Band              | 77.8          | None         |
| 681625  | 1B11    | Band        | 0 + 4426 1" Band                | 72.0          | None         |
| 681626  | 1B11    | Band        | 0 + 4426 1/2" Band              | 73.8          | None         |
| 681627  | 1B13    | Band        | 0 + 4700 2/02/06 GI             | 78.0          | None         |
| 681628  | 1B13    | Band        | 0 + 4700 2/02/06 GI 1/2" Band   | 76.5          | None         |
| 681629  | 1B20X   | Rib/Floor   | 0 + 5285                        | 73.5          | Trace        |
| 681630  | 1B20X   | Rib/Floor   | 0 + 5285 1/2" Sample            | 77.1          | Trace        |
| 681631  | 1B21    | Floor       | 0 + 5326                        | 73.2          | Trace        |
| 681632  | 1B21X   | Floor       | 0 + 5368                        | 74.2          | Trace        |

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| Lab No. | Bag No. | Sample Type | Location in Mine         | Dust Analysis | Coke Content |
|---------|---------|-------------|--------------------------|---------------|--------------|
| 681633  | 1B21X   | Floor       | 0 + 5368 1/2"            | 72.4          | Trace        |
| 681634  | 1B22    | Floor       | 0 + 5400                 | 73.0          | Trace        |
| 681635  | 1B22    | Floor       | 0 + 5400 1/2"            | 71.1          | Trace        |
| 681636  | 1B22X   | Roof/Rib    | 0 + 5430 2/02/06 GI      | 69.7          | Trace        |
| 681637  | 1B22X   | Roof/Rib    | 0 + 5430 2/02/06 GI 1/2" | 71.5          | Trace        |
| 681638  | 1B23    | Rib/Floor   | 0 + 5500 2/02/06 GI      | 76.6          | Trace        |
| 681639  | 1B23    | Rib/Floor   | 0 + 5500 2/02/06 GI 1/2" | 73.2          | Trace        |
| 681640  | 1B24    | Floor       | 0 + 5625 2/03/06 GI      | 74.6          | Trace        |
| 681641  | 1B24    | Floor       | 0 + 5625 2/03/06 GI 1/2" | 74.8          | Trace        |
| 681642  | 1B24X   | Band        | 0 + 5660                 | 68.8          | Trace        |
| 681867  | S1B24X  | Band        | 0 + 5660 1/2"            | 73.5          | Small        |
| 681643  | 1B25    | Floor       | 0 + 5728 1" Sample       | 71.4          | Trace        |
| 681644  | 1B25    | Floor       | 0 + 5728 1/2" Sample     | 72.1          | Small        |
| 681645  | 1B26    | Floor       | 0 + 5822 1" Sample       | 66.6          | Large        |
| 681646  | 1B26    | Floor       | 0 + 5822 1" Sample       | 66.8          | Large        |
| 681647  | 1B26    | Floor       | 0 + 5822 1/2" Sample     | 66.7          | Large        |
| 681648  | 1B26X   | Floor       | 0 + 5852                 | 59.4          | Large        |
| 681649  | 1B26X   | Floor       | 0 + 5852 1/2"            | 58.9          | Large        |
| 681650  | 1C1     | Band        | 0 + 00 1" Band           | 47.2          | None         |
| 681651  | 1C1     | Band        | 0 + 00 1/2" Band         | 42.9          | None         |
| 681652  | 1C2     | Band        | 0 + 520 1" Band          | 57.9          | None         |
| 681653  | 1C2     | Band        | 0 + 520 1/2" Band        | 60.8          | None         |
| 681654  | 1C5     | Band        | 0 + 2000 1" Band         | 62.4          | None         |
| 681655  | 1C5     | Band        | 0 + 2000 1/2" Band       | 45.1          | None         |
| 681656  | 1C9     | Band        | 0 + 3946 1" Band         | 88.8          | None         |
| 681657  | 1C9     | Band        | 0 + 3946 1/2" Band       | 88.3          | None         |
| 681658  | 1C11    | Band        | 0 + 4426 1" Band         | 62.0          | None         |
| 681659  | 1C11    | Band        | 0 + 4426 1/2" Band       | 60.4          | None         |
| 681660  | 1C22    | Rib/Floor   | 0 + 5400                 | 70.5          | Trace        |
| 681661  | 1C22    | Rib/Floor   | 0 + 5400 1/2"            | 71.6          | Trace        |
| 681662  | 1C23    | Roof/Rib    | 0 + 5500 2/02/06 GI      | 72.5          | Trace        |

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**SURVEY #1(a): Sampling Area: Mains    Collected 1/30/06 - 2/03/06 by Clay    Rec. 2/17/06 from Cook/Hicks**

| Lab No. | Bag No. | Sample Type | Location in Mine         | Dust Analysis | Coke Content |
|---------|---------|-------------|--------------------------|---------------|--------------|
| 681663  | 1C23    | Roof/Rib    | 0 + 5500 2/02/06 GI 1/2" | 70.7          | Trace        |
| 681664  | 1C24    | Rib/Floor   | 0 + 5625 2/03/06 GI      | 65.8          | Trace        |
| 681665  | 1C24X   | Band        | 0 + 5657                 | 74.2          | Small        |
| 681868  | S1C24X  | Band        | 0 + 5657 1/2"            | 74.6          | Trace        |
| 681666  | 1C25    | Floor       | 0 + 5728 1" Sample       | 56.9          | Small        |
| 681667  | 1C25    | Floor       | 0 + 5728 1/2" Sample     | 60.4          | Small        |
| 681668  | 1D1     | Band        | 0 + 00 1" Band           | 51.6          | None         |
| 681669  | 1D1     | Band        | 0 + 00 1/2" Band         | 49.9          | None         |
| 681670  | 1D2     | Band        | 0 + 520 1" Band          | 74.1          | None         |
| 681671  | 1D2     | Band        | 0 + 520 1/2" Band        | 75.7          | None         |
| 681672  | 1D5     | Band        | 0 + 2000 1" Band         | 58.9          | None         |
| 681673  | 1D5     | Band        | 0 + 2000 1/2" Band       | 64.3          | None         |
| 681674  | 1D7     | Band        | 0 + 2982 1" Band         | 49.9          | None         |
| 681675  | 1D7     | Band        | 0 + 2982 1/2" Band       | 57.7          | None         |
| 681676  | 1D8     | Band        | 0 + 3464 1" Band         | 85.1          | None         |
| 681677  | 1D8     | Band        | 0 + 3464 1/2" Band       | 78.3          | None         |
| 681678  | 1D20    | Band        | 0 + 5255                 | 73.0          | Trace        |
| 681679  | 1D20    | Band        | 0 + 5255 1/2"            | 69.5          | Trace        |
| 681680  | 1D21    | Rib/Floor   | 0 + 5326                 | 74.3          | Trace        |
| 681681  | 1D21    | Rib/Floor   | 0 + 5326 1/2"            | 73.6          | Trace        |
| 681682  | 1D22    | Rib/Floor   | 0 + 5400                 | 72.4          | Trace        |
| 681683  | 1D22    | Rib/Floor   | 0 + 5400 1/2"            | 70.2          | Trace        |
| 681684  | 1D23    | Rib/Floor   | 0 + 5500 2/02/06 GI      | 67.9          | Trace        |
| 681685  | 1D23    | Rib/Floor   | 0 + 5500 2/02/06 GI 1/2" | 66.1          | Trace        |
| 681686  | 1D24    | Rib/Floor   | 0 + 5625                 | 64.6          | Trace        |
| 681687  | 1D24    | Rib/Floor   | 0 + 5625 1/2"            | 64.8          | Small        |
| 681688  | 1D24X   | Band        | 0 + 5658                 | 74.0          | Small        |
| 681869  | S1D24X  | Band        | 0 + 5658 1/2"            | 74.1          | Small        |
| 681689  | 1D25    | Floor       | 0 + 5728 1" Sample       | 60.1          | Small        |
| 681690  | 1D25    | Floor       | 0 + 5728 1/2" Sample     | 59.4          | Small        |

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| Lab No. | Bag No. | Sample Type | Location in Mine         | Dust Analysis | Coke Content |
|---------|---------|-------------|--------------------------|---------------|--------------|
| 681691  | 1D25X   | Rib/Floor   | 0 + 5770 1" Sample       | 51.6          | Large        |
| 681692  | 1D25X   | Rib/Floor   | 0 + 5770 1/2" Sample     | 53.1          | Large        |
| 681693  | 1E1     | Band        | 0 + 00 1" Band           | 96.3          | None         |
| 681694  | 1E1     | Band        | 0 + 00 1/2" Band         | 97.0          | None         |
| 681695  | 1E2     | Band        | 0 + 520 1" Band          | 55.4          | None         |
| 681696  | 1E2     | Band        | 0 + 520 1/2" Band        | 64.8          | None         |
| 681697  | 1E3     | Band        | 0 + 1050 1" Band         | 84.4          | None         |
| 681698  | 1E3     | Band        | 0 + 1050 1/2" Band       | 72.1          | Trace        |
| 681699  | 1E5     | Band        | 0 + 2000 1" Band         | 87.7          | None         |
| 681700  | 1E5     | Band        | 0 + 2000 1/2" Band       | 86.9          | None         |
| 681701  | 1E6     | Band        | 0 + 2522 1" Band         | 87.1          | None         |
| 681702  | 1E6     | Band        | 0 + 2522 1/2" Band       | 91.2          | None         |
| 681703  | 1E8     | Band        | 0 + 3464 1" Band         | 80.5          | None         |
| 681704  | 1E8     | Band        | 0 + 3464 1/2" Band       | 88.8          | None         |
| 681705  | 1E10    | Band        | 0 + 4186 1" Band         | 87.0          | None         |
| 681706  | 1E10    | Band        | 0 + 4186 1/2" Band       | 81.2          | None         |
| 681707  | 1E20    | Rib/Floor   | 0 + 5255 2/02/06 GI      | 83.0          | Trace        |
| 681708  | 1E20    | Rib/Floor   | 0 + 5255 2/02/06 GI 1/2" | 80.4          | Trace        |
| 681709  | 1E22    | Rib/Floor   | 0 + 5400                 | 65.4          | Trace        |
| 681710  | 1E22    | Rib/Floor   | 0 + 5400 1/2"            | 63.0          | Trace        |
| 681711  | 1E23    | Rib/Floor   | 0 + 5500 2/02/06 GI      | 69.2          | Small        |
| 681712  | 1E23    | Rib/Floor   | 0 + 5500 2/02/06 GI 1/2" | 65.7          | Small        |
| 681713  | 1E24    | Rib/Floor   | 0 + 5625                 | 65.1          | Small        |
| 681714  | 1E24    | Rib/Floor   | 0 + 5625 1/2"            | 64.1          | Small        |
| 681715  | 1E24X   | Band        | 0 + 5665                 | 78.7          | Small        |
| 681870  | S1E24X  | Band        | 0 + 5665 1/2"            | 81.7          | Small        |
| 681716  | 1E25    | Floor       | 0 + 5728 1" Sample       | 57.4          | Large        |
| 681717  | 1E25    | Floor       | 0 + 5728 1/2" Sample     | 57.4          | Large        |
| 681718  | 1E25X   | Floor       | 0 + 5768 1" Sample       | 52.5          | Large        |
| 681719  | 1E25X   | Floor       | 0 + 5768 1/2" Sample     | 54.2          | Large        |

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| Lab No. | Bag No. | Sample Type | Location in Mine   | Dust Analysis | Coke Content |
|---------|---------|-------------|--------------------|---------------|--------------|
| 681720  | 1F1     | Band        | 0 + 00 1" Band     | 90.4          | None         |
| 681721  | 1F1     | Band        | 0 + 00 1/2" Band   | 90.3          | None         |
| 681722  | 1F2     | Band        | 0 + 520 1" Band    | 70.7          | None         |
| 681723  | 1F2     | Band        | 0 + 520 1/2" Band  | 72.7          | None         |
| 681724  | 1F3     | Band        | 0 + 1050 1" Band   | 89.9          | None         |
| 681725  | 1F3     | Band        | 0 + 1050 1/2" Band | 85.5          | None         |
| 681726  | 1F4     | Band        | 0 + 1474 1" Band   | 86.0          | None         |
| 681727  | 1F4     | Band        | 0 + 1474 1/2" Band | 87.5          | None         |
| 681728  | 1F5     | Band        | 0 + 2000 1" Band   | 76.1          | None         |
| 681729  | 1F5     | Band        | 0 + 2000 1/2" Band | 81.2          | None         |
| 681730  | 1F6     | Band        | 0 + 2522 1" Band   | 86.8          | None         |
| 681731  | 1F6     | Band        | 0 + 2522 1/2" Band | 84.3          | None         |
| 681732  | 1F7     | Band        | 0 + 2982 1" Band   | 80.9          | None         |
| 681733  | 1F7     | Band        | 0 + 2982 1/2" Band | 66.9          | None         |
| 681734  | 1F8     | Band        | 0 + 3464 1" Band   | 88.7          | None         |
| 681735  | 1F8     | Band        | 0 + 3464 1/2" Band | 88.3          | None         |
| 681736  | 1F10    | Band        | 0 + 4186 1" Band   | 86.3          | None         |
| 681737  | 1F10    | Band        | 0 + 4186 1/2" Band | 86.8          | None         |
| 681738  | 1F13    | Band        | 0 + 4700 1" Band   | 79.6          | Trace        |
| 681739  | 1F13    | Band        | 0 + 4700 1/2" Band | 77.9          | Trace        |
| 681740  | 1F14    | Band        | 0 + 4780 1" Band   | 83.5          | Trace        |
| 681741  | 1F14    | Band        | 0 + 4780 1/2" Band | 80.3          | Trace        |
| 681742  | 1F15    | Band        | 0 + 4851 1" Band   | 71.6          | Trace        |
| 681743  | 1F15    | Band        | 0 + 4851 1/2" Band | 78.4          | Trace        |
| 681744  | 1F16    | Band        | 0 + 4934 1" Band   | 79.6          | Trace        |
| 681745  | 1F16    | Band        | 0 + 4934 1/2" Band | 81.6          | Trace        |
| 681746  | 1F17    | Band        | 0 + 5011 1" Band   | 74.8          | Trace        |
| 681747  | 1F17    | Band        | 0 + 5011 1/2" Band | 78.1          | Trace        |
| 681748  | 1F18    | Band        | 0 + 5100 1" Band   | 73.4          | Trace        |
| 681749  | 1F18    | Band        | 0 + 5100 1/2" Band | 76.4          | Trace        |

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| Lab No. | Bag No. | Sample Type | Location in Mine         | Dust Analysis | Coke Content |
|---------|---------|-------------|--------------------------|---------------|--------------|
| 681750  | 1F19    | Band        | 0 + 5176 1" Band         | 76.5          | Trace        |
| 681751  | 1F19    | Band        | 0 + 5176 1/2" Band       | 76.1          | Trace        |
| 681752  | 1F20    | Band        | 0 + 5255 1" Band         | 73.6          | Trace        |
| 681753  | 1F20    | Band        | 0 + 5255 1/2" Band       | 73.9          | Trace        |
| 681754  | 1F21    | Band        | 0 + 5326 1" Band         | 77.5          | Small        |
| 681755  | 1F21    | Band        | 0 + 5326 1/2" Band       | 70.9          | Trace        |
| 681756  | 1F22    | Band        | 0 + 5400 1" Band         | 72.1          | Small        |
| 681757  | 1F22    | Band        | 0 + 5400 1/2" Band       | 73.8          | Trace        |
| 681758  | 1F23    | Band        | 0 + 5500 1" Band         | 67.2          | Trace        |
| 681759  | 1F23    | Band        | 0 + 5500 1/2" Band       | 68.0          | Small        |
| 681760  | 1F24    | Band        | 0 + 5625 1" Band         | 72.8          | Small        |
| 681761  | 1F24    | Band        | 0 + 5625 1/2" Band       | 73.7          | Small        |
| 681762  | 1F24X   | Band        | 0 + 5658 1" Band         | 76.3          | Small        |
| 681763  | 1F24X   | Floor       | 0 + 5658 2/03/06 GI 1/2" | 77.7          | Small        |
| 681764  | 1F25    | Band        | 0 + 5728 1" Band         | 64.9          | Small        |
| 681765  | 1F25    | Band        | 0 + 5728 1/2" Band       | 66.9          | Small        |
| 681766  | 1F25X   | Floor       | 0 + 5771 1" Sample       | 52.5          | Small        |
| 681767  | 1F25X   | Floor       | 0 + 5771 1/2" Sample     | 53.2          | None         |
| 681768  | 1G1     | Band        | 0 + 00 1" Band           | 58.4          | None         |
| 681769  | 1G1     | Band        | 0 + 00 1/2" Band         | 59.8          | None         |
| 681770  | 1G2     | Band        | 0 + 520 1" Band          | 75.6          | None         |
| 681771  | 1G2     | Band        | 0 + 520 1/2" Band        | 76.0          | None         |
| 681772  | 1G3     | Band        | 0 + 1050 1" Band         | 56.4          | None         |
| 681773  | 1G3     | Band        | 0 + 1050 1/2" Band       | 60.4          | None         |
| 681774  | 1G4     | Band        | 0 + 1474 1" Band         | 61.8          | None         |
| 681775  | 1G4     | Band        | 0 + 1474 1/2" Band       | 54.7          | None         |
| 681776  | 1G5     | Band        | 0 + 2000 1" Band         | 66.4          | None         |
| 681777  | 1G5     | Band        | 0 + 2000 1/2" Band       | 66.6          | None         |
| 681778  | 1G6     | Band        | 0 + 2522 1" Band         | 76.2          | None         |
| 681779  | 1G6     | Band        | 0 + 2522 1/2" Band       | 75.7          | None         |

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| Lab No. | Bag No. | Sample Type | Location in Mine   | Dust Analysis | Coke Content |
|---------|---------|-------------|--------------------|---------------|--------------|
| 681780  | 1G8     | Band        | 0 + 3464 1" Band   | 51.8          | None         |
| 681781  | 1G8     | Band        | 0 + 3464 1/2" Band | 61.8          | None         |
| 681782  | 1G9     | Band        | 0 + 3946 1" Band   | 61.8          | None         |
| 681783  | 1G9     | Band        | 0 + 3946 1/2" Band | 65.1          | None         |
| 681784  | 1G10    | Band        | 0 + 4186 1" Band   | 72.3          | None         |
| 681785  | 1G10    | Band        | 0 + 4186 1/2" Band | 67.6          | None         |
| 681871  | S1G14   | Band        | 0 + 4780 1/2"      | 75.6          | None         |
| 681786  | 1G14X   | Band        | 0 + 4813           | 72.6          | Trace        |
| 681872  | S1G14X  | Band        | 0 + 4813 1/2"      | 68.4          | None         |
| 681787  | 1G15    | Band        | 0 + 4851           | 75.5          | Trace        |
| 681873  | S1G15   | Band        | 0 + 4851 1/2"      | 75.0          | Trace        |
| 681788  | 1G15X   | Band        | 0 + 4886           | 69.6          | Trace        |
| 681874  | S1G15X  | Band        | 0 + 4886 1/2"      | 70.8          | Trace        |
| 681789  | 1G16    | Band        | 0 + 4934           | 75.5          | Trace        |
| 681875  | S1G16   | Band        | 0 + 4934 1/2"      | 75.2          | Trace        |
| 681790  | 1G16X   | Band        | 0 + 4974           | 64.7          | Trace        |
| 681876  | S1G16X  | Band        | 0 + 4974 1/2"      | 63.9          | Trace        |
| 681791  | 1G17    | Band        | 0 + 5011           | 76.2          | Trace        |
| 681877  | S1G17   | Band        | 0 + 5011 1/2"      | 72.8          | Trace        |
| 681792  | 1G17X   | Band        | 0 + 5046           | 73.6          | Trace        |
| 681878  | S1G17X  | Band        | 0 + 5046 1/2"      | 71.7          | Trace        |
| 681793  | 1G18    | Band        | 0 + 5100           | 74.4          | Trace        |
| 681879  | S1G18   | Band        | 0 + 5100 1/2"      | 74.1          | Trace        |
| 681794  | 1G18X   | Band        | 0 + 5130           | 63.0          | Trace        |
| 681880  | S1G18X  | Band        | 0 + 5130 1/2"      | 69.1          | Trace        |
| 681795  | 1G19    | Band        | 0 + 5176           | 72.3          | Trace        |
| 681881  | S1G19   | Band        | 0 + 5176 1/2"      | 74.8          | Trace        |
| 681796  | 1G19X   | Band        | 0 + 5208           | 66.9          | Trace        |
| 681882  | S1G19X  | Band        | 0 + 5208 1/2"      | 63.2          | Trace        |
| 681797  | 1G20    | Band        | 0 + 5255           | 72.1          | Trace        |
| 681883  | S1G20   | Band        | 0 + 5255 1/2"      | 72.2          | Trace        |
| 681798  | 1G20X   | Band        | 0 + 5287           | 68.1          | Small        |
| 681884  | S1G20X  | Band        | 0 + 5287 1/2"      | 67.5          | Small        |

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| Lab No. | Bag No. | Sample Type | Location in Mine     | Dust Analysis | Coke Content |
|---------|---------|-------------|----------------------|---------------|--------------|
| 681799  | 1G21    | Band        | 0 + 5326             | 67.5          | Small        |
| 681800  | 1G21    | Band        | 0 + 5326             | 67.3          | Small        |
| 681801  | 1G21X   | Band        | 0 + 5361             | 67.4          | Small        |
| 681802  | 1G21X   | Band        | 0 + 5361 1/2"        | 66.3          | Small        |
| 681803  | 1G22    | Band        | 0 + 5400             | 66.3          | Small        |
| 681885  | S1G22   | Band        | 0 + 5400 1/2"        | 66.6          | Small        |
| 681804  | 1G23    | Band        | 0 + 5500             | 59.4          | Large        |
| 681886  | S1G23   | Band        | 0 + 5500 1/2"        | 61.8          | Small        |
| 681805  | 1G24X   | Rib/Floor   | 0 + 5658             | 72.3          | Large        |
| 681806  | 1G24X   | Rib/Floor   | 0 + 5658 1/2"        | 74.1          | Large        |
| 681807  | 1G25X   | Floor       | 0 + 5768 1" Sample   | 56.9          | Large        |
| 681808  | 1G25X   | Floor       | 0 + 5768 1/2" Sample | 54.4          | Large        |
| 681809  | 1H1     | Band        | 0 + 00 1" Band       | 64.0          | None         |
| 681810  | 1H1     | Band        | 0 + 00 1/2" Band     | 66.0          | None         |
| 681811  | 1H2     | Band        | 0 + 520 1" Band      | 46.3          | None         |
| 681812  | 1H2     | Band        | 0 + 520 1/2" Band    | 55.4          | None         |
| 681813  | 1H3     | Band        | 0 + 1050 1" Band     | 70.8          | None         |
| 681814  | 1H3     | Band        | 0 + 1050 1/2" Band   | 67.9          | None         |
| 681815  | 1H4     | Band        | 0 + 1474 1" Band     | 54.1          | None         |
| 681816  | 1H4     | Band        | 0 + 1474 1/2" Band   | 45.2          | None         |
| 681817  | 1H5     | Band        | 0 + 2000 1" Band     | 62.9          | None         |
| 681818  | 1H5     | Band        | 0 + 2000 1/2" Band   | 45.6          | None         |
| 681819  | 1H6     | Band        | 0 + 2522 1" Band     | 68.4          | None         |
| 681820  | 1H6     | Band        | 0 + 2522 1/2" Band   | 68.0          | None         |
| 681821  | 1H7     | Band        | 0 + 2982 1" Band     | 70.4          | None         |
| 681822  | 1H7     | Band        | 0 + 2982 1/2" Band   | 85.7          | None         |
| 681823  | 1H9     | Band        | 0 + 3946 1" Band     | 78.4          | None         |
| 681824  | 1H9     | Band        | 0 + 3946 1/2" Band   | 74.1          | None         |
| 681825  | 1H10    | Band        | 0 + 4186 1" Band     | 52.8          | None         |
| 681826  | 1H10    | Band        | 0 + 4186 1/2" Band   | 64.3          | None         |
| 681827  | 1H15    | Band        | 0 + 4851 1" Band     | 77.4          | None         |
| 681828  | 1H15    | Band        | 0 + 4851 1/2" Band   | 76.9          | Trace        |
| 681887  | S1H15X  | Band        | 0 + 4891 1/2"        | 77.6          | Trace        |
| 681829  | 1H18    | Band        | 0 + 5100 1" Sample   | 75.4          | Trace        |
| 681830  | 1H18    | Band        | 0 + 5100 1/2" Sample | 74.5          | Trace        |
| 681831  | 1H19    | Band        | 0 + 5176 1" Sample   | 75.8          | Small        |

## Appendix Q - Mine Dust Survey Sago Mine Explosion Investigation

*Sago Mine - Wolf Run Mining Company - Mine ID# 4608791*

**SURVEY #1(a): Sampling Area: Mains    Collected 1/30/06 - 2/03/06 by Clay    Rec. 2/17/06 from Cook/Hicks**

| Lab No. | Bag No. | Sample Type | Location in Mine          | Dust Analysis | Coke Content |
|---------|---------|-------------|---------------------------|---------------|--------------|
| 681832  | 1H19    | Band        | 0 + 5176 1/2" Sample      | 76.1          | Trace        |
| 681833  | 1H20    | Band        | 0 + 5255 1" Sample        | 72.6          | Small        |
| 681834  | 1H20    | Band        | 0 + 5255 1/2" Sample      | 71.9          | Trace        |
| 681835  | 1H21    | Rib/Floor   | 0 + 5326 1" Sample        | 77.1          | Small        |
| 681836  | 1H24    | Floor       | 0 + 5625 2/02/06 GI       | 75.6          | Small        |
| 681837  | 1H24    | Floor       | 0 + 5625 2/02/06 GI 1/2"  | 74.4          | Small        |
| 681838  | 1H24X   | Floor       | 0 + 5655                  | 86.1          | Small        |
| 681839  | 1H24X   | Floor       | 0 + 5655 1/2"             | 82.3          | Small        |
| 681840  | 1H25    | Floor       | 0 + 5728 2/02/06 GI       | 64.8          | Large        |
| 681841  | 1H25    | Floor       | 0 + 5728 2/02/06 GI 1/2 " | 66.3          | Large        |
| 681842  | 1H25X   | Floor       | 0 + 5760 1" Sample        | 66.3          | Large        |
| 681843  | 1H25X   | Floor       | 0 + 5760 1/2" Sample      | 66.4          | Large        |
| 681844  | 1I2     | Band        | 0 + 520 1" Band           | 63.0          | None         |
| 681845  | 1I2     | Band        | 0 + 520 1/2" Band         | 59.9          | None         |
| 681846  | 1I3     | Band        | 0 + 1050 1" Band          | 56.4          | None         |
| 681847  | 1I3     | Band        | 0 + 1050 1/2" Band        | 59.5          | None         |
| 681848  | 1I4     | Band        | 0 + 1474 1" Band          | 55.9          | None         |
| 681849  | 1I4     | Band        | 0 + 1474 1/2" Band        | 46.5          | None         |
| 681850  | 1I5     | Band        | 0 + 2000 1" Band          | 44.9          | None         |
| 681851  | 1I5     | Band        | 0 + 2000 1/2" Band        | 48.5          | None         |
| 681852  | 1I6     | Band        | 0 + 2522 1" Band          | 69.3          | None         |
| 681853  | 1I6     | Band        | 0 + 2522 1/2" Band        | 67.4          | None         |
| 681854  | 1I18    | Band        | 0 + 5100 1" Band          | 74.4          | Trace        |
| 681855  | 1I18    | Rib/Floor   | 0 + 5100 1/2" Sample      | 73.6          | Trace        |
| 681856  | 1I19    | Rib/Floor   | 0 + 5176 1" Sample        | 75.4          | Trace        |
| 681857  | 1I19    | Rib/Floor   | 0 + 5176 1/2" Sample      | 75.0          | Trace        |
| 681858  | 1I20    | Rib/Floor   | 0 + 5255 1" Sample        | 72.7          | Trace        |
| 681859  | 1I20    | Rib/Floor   | 0 + 5255 1/2" Sample      | 73.2          | Trace        |
| 681860  | 1I21    | Rib/Floor   | 0 + 5326 1" Sample        | 78.2          | Trace        |
| 681861  | 1I21    | Rib/Floor   | 0 + 5326 1/2" Sample      | 77.9          | Trace        |
| 681862  | 1I22    | Rib/Floor   | 0 + 5400 1" Sample        | 77.8          | Trace        |
| 681863  | 1I24    | Floor       | 0 + 5625                  | 79.3          | Trace        |
| 681864  | 1I24    | Floor       | 0 + 5625 1/2"             | 77.0          | Trace        |
| 681865  | 1I25    | Floor       | 0 + 5728                  | 65.5          | Small        |
| 681866  | 1I25    | Floor       | 0 + 5728 1/2"             | 64.1          | Small        |

## Appendix Q - Mine Dust Survey Sago Mine Explosion Investigation

*Sago Mine - Wolf Run Mining Company - Mine ID# 4608791*

**SURVEY #1(b): Sampling Area: Mains      Collected 2/16/06 by Cook/Hicks      Rec. 2/17/06 from Cook/Hicks**

| Lab No. | Bag No. | Sample Type | Location in Mine | Dust Analysis | Coke Content |
|---------|---------|-------------|------------------|---------------|--------------|
| 681888  | 1A25X   | Band        | 0 + 5748 JC      | 92.0          | Trace        |
| 681889  | 1A26    | Band        | 0 + 5822 JC      | 70.0          | Large        |
| 681890  | 1A27    | Band        | 0 + 5880 JC      | 69.1          | Large        |
| 681891  | 1A28    | Band        | 0 + 5980 JC      | 62.4          | X-Large      |
| 681892  | 1A29    | Band        | 0 + 6043 JC      | 60.6          | X-Large      |
| 681893  | 1A30    | Band        | 0 + 6135 JC      | 56.3          | X-Large      |
| 681894  | 1B25X   | Band        | 0 + 5748 JC      | 66.3          | Small        |
| 681895  | 1B27    | Band        | 0 + 5880         | 58.7          | X-Large      |
| 681896  | 1B28    | Band        | 0 + 5980 JC      | 58.5          | X-Large      |
| 681897  | 1B29    | Band        | 0 + 6043 JC      | 54.0          | X-Large      |
| 681898  | 1B30    | Band        | 0 + 6135 JC      | 60.0          | X-Large      |
| 681899  | 1C25X   | Band        | 0 + 5748 JC      | 63.4          | Large        |
| 681900  | 1C27    | Band        | 0 + 5880 JC      | 50.9          | X-Large      |
| 681901  | 1C28    | Band        | 0 + 5980 JC      | 51.3          | X-Large      |
| 681902  | 1C29    | Band        | 0 + 6043 JC      | 58.1          | X-Large      |
| 681903  | 1C30    | Band        | 0 + 6135 JC      | 54.6          | X-Large      |
| 681904  | 1D26    | Band        | 0 + 5822         | 50.1          | Large        |
| 681905  | 1D27    | Band        | 0 + 5880         | 56.3          | X-Large      |
| 681906  | 1D28    | Band        | 0 + 5980         | 57.2          | X-Large      |
| 681907  | 1E26    | Band        | 0 + 5822         | 59.2          | Large        |
| 681908  | 1E27    | Band        | 0 + 5880         | 59.3          | X-Large      |
| 681909  | 1F26    | Band        | 0 + 5822 JC      | 54.3          | X-Large      |
| 681910  | 1F27    | Band        | 0 + 5880         | 54.6          | X-Large      |
| 681911  | 1F28    | Band        | 0 + 5980         | 56.9          | X-Large      |
| 681912  | 1G26    | Band        | 0 + 5822         | 56.9          | X-Large      |
| 681913  | 1G27    | Band        | 0 + 5880         | 50.8          | X-Large      |
| 681914  | 1G28    | Band        | 0 + 5980         | 53.3          | X-Large      |
| 681915  | 1H26    | Band        | 0 + 5822 JC      | 59.3          | X-Large      |
| 681916  | 1H28    | Band        | 0 + 5980 JC      | 45.0          | Large        |

## Appendix Q - Mine Dust Survey Sago Mine Explosion Investigation

*Sago Mine - Wolf Run Mining Company - Mine ID# 4608791*

**SURVEY #2:** *Sampling Area: 1st Left      Collected 1/30/06 by Sparks      Rec. 2/17/06 from Cook/Hicks*

| Lab No. | Bag No. | Sample Type  | Location in Mine     | Dust Analysis | Coke Content |
|---------|---------|--------------|----------------------|---------------|--------------|
| 681917  | 2F1     | Roof & Ribs  | 0 + 00               | 87.3          | None         |
| 681918  | 2F1     | Roof & Ribs  | 0 + 00 1/2" Sample   | 93.6          | None         |
| 681919  | 2G2     | Ribs & Floor | 0 + 474              | 89.8          | None         |
| 681920  | 2G2     | Ribs & Floor | 0 + 474 1/2" Sample  | 86.0          | None         |
| 681921  | 2H4     | Band         | 0 + 1424             | 58.5          | None         |
| 681922  | 2H4     | Band         | 0 + 1424 1/2" Sample | 66.4          | None         |
| 681923  | 2H5     | Ribs & Floor | 0 + 1898             | 47.7          | None         |
| 681924  | 2H5     | Ribs & Floor | 0 + 1898 1/2" Sample | 36.8          | None         |

## Appendix Q - Mine Dust Survey Sago Mine Explosion Investigation

*Sago Mine - Wolf Run Mining Company - Mine ID# 4608791*

**SURVEY #3: Sampling Area: 2nd Left Collected 1/30/06 - 2/03/06 by Ison/Sturgill Rec. 2/17/06 from Cook/Hicks**

| Lab No. | Bag No. | Sample Type  | Location in Mine                       | Dust Analysis | Coke Content |
|---------|---------|--------------|--|---------------|--------------|
| 681925  | 3A1X    | Floor        | 0 + 40                                 | 85.7          | Trace        |
| 681926  | 3A1X    | Floor        | 0 + 40 1/2"                            | 85.8          | Trace        |
| 681927  | 3A6X    | Floor        | 0 + 408 0" to 1/4" deep                | 71.4          | Trace        |
| 681928  | 3A6X    | Floor        | 0 + 408 0" to 1/4" deep                | 70.1          | None         |
| 681929  | 3A13X   | Floor        | 0 + 908 0" to 1/4" deep off floor      | 65.9          | None         |
| 681930  | 3A13X   | Floor        | 0 + 908 0" to 1/4" deep off floor      | 65.6          | None         |
| 681931  | 3A14    | Floor        | 0 + 945 0" to 3/8" deep                | 64.7          | None         |
| 681932  | 3A14    | Floor        | 0 + 945 1/2"                           | 66.2          | None         |
| 681933  | 3A14X   | Floor        | 0 + 973 0" to 1/4" deep on mine floor  | 64.6          | None         |
| 681934  | 3A14X   | Floor        | 0 + 973 1/2"                           | 61.8          | None         |
| 681935  | 3A15    | Floor        | 0 + 1030 0" to 1/4" deep on mine floor | 59.7          | None         |
| 681936  | 3A15    | Floor        | 0 + 1030                               | 61.1          | None         |
| 681937  | 3A15X   | Floor        | 0 + 1045 0" to 1/4" deep on mine floor | 59.8          | None         |
| 681938  | 3A15X   | Floor        | 0 + 1045 0" to 1/4" deep on mine floor | 59.4          | None         |
| 681939  | 3A16X   | Floor        | 0 + 1125 0" to 3/8" deep on mine floor | 89.1          | Trace        |
| 681940  | 3A16X   | Floor        | 0 + 1125 0" to 3/8" deep on mine floor | 89.4          | None         |
| 681941  | 3B8     | Floor        | 0 + 526 0" to 1/4" deep                | 81.7          | None         |
| 681942  | 3B8     | Floor        | 0 + 526 1/2"                           | 83.1          | None         |
| 681943  | 3B13    | Roof & Floor | 0 + 877 0' to 1/3" off mine floor      | 71.9          | None         |
| 681944  | 3B13    | Roof & Floor | 0 + 877 0" to 1/3' deep off bottom     | 71.6          | None         |
| 681945  | 3B14    | Floor        | 0 + 945 0" to 1/3" deep off mine floor | 83.9          | None         |
| 681946  | 3B14    | Floor        | 0 + 945 1/2"                           | 75.1          | None         |
| 681947  | 3B15    | Floor        | 0 + 1013 0" to 1/4" deep on mine floor | 91.5          | None         |
| 681948  | 3B15    | Floor        | 0 + 1013                               | 91.7          | None         |
| 681949  | 3B16    | Floor        | 0 + 1083 0" to 3/8" deep on mine floor | 66.3          | None         |

## Appendix Q - Mine Dust Survey Sago Mine Explosion Investigation

*Sago Mine - Wolf Run Mining Company - Mine ID# 4608791*

**SURVEY #3: Sampling Area: 2nd Left Collected 1/30/06 - 2/03/06 by Ison/Sturgill Rec. 2/17/06 from Cook/Hicks**

| Lab No. | Bag No. | Sample Type  | Location in Mine              | Dust Analysis | Coke Content |
|---------|---------|--------------|-------------------------------|---------------|--------------|
| 681950  | 3B16    | Floor        | 0 + 1083 1/2"                 | 55.2          | None         |
| 681951  | 3C6     | Floor        | 0 + 378                       | 70.1          | None         |
| 681952  | 3C6     | Floor        | 0 + 378 1/2"                  | 73.5          | None         |
| 681953  | 3C7     | Floor        | 0 + 453                       | 69.0          | None         |
| 681954  | 3C7     | Floor        | 0 + 453 1/2"                  | 65.8          | None         |
| 681955  | 3C8     | Floor        | 0 + 526                       | 68.7          | None         |
| 681956  | 3C8     | Floor        | 0 + 526 1/2"                  | 70.6          | None         |
| 681957  | 3C13    | Floor        | 0 + 877                       | 71.6          | None         |
| 681958  | 3C13    | Floor        | 0 + 877 1/2"                  | 68.4          | None         |
| 681959  | 3C15    | Floor        | 0 + 1013                      | 75.0          | None         |
| 681960  | 3C15    | Floor        | 0 + 1013 1/2"                 | 73.9          | None         |
| 681961  | 3C16    | Roof & Floor | 0 + 1083                      | 73.7          | None         |
| 681962  | 3C16    | Roof & Floor | 0 + 1083 1/2"                 | 73.7          | None         |
| 681963  | 3C16X   | Roof & Floor | 0 + 1125                      | 50.7          | None         |
| 681964  | 3C16X   | Roof & Floor | 0 + 1125 1/2"                 | 51.0          | None         |
| 681965  | 3C17    | Floor        | 0 + 1152                      | 69.3          | None         |
| 681966  | 3C17    | Floor        | 0 + 1152 1/2"                 | 75.2          | None         |
| 681967  | 3D1     | Ribs & Floor | 0 + 00                        | 82.5          | Trace        |
| 681968  | 3D1     | Ribs & Floor | 0 + 00 1/2"                   | 82.7          | Trace        |
| 681969  | 3D12X   | Ribs & Floor | 0 + 845 2/01/06 GI            | 67.8          | None         |
| 681970  | 3D12X   | Ribs & Floor | 0 + 845 2/01/06 GI 1/2"       | 60.0          | None         |
| 681971  | 3D13X   | Floor        | 0 + 908 1/31/06               | 74.6          | None         |
| 681972  | 3D13X   | Floor        | 0 + 908 1/31/06 GI 1/2"       | 71.3          | None         |
| 681973  | 3E17    | Floor        | 0 + 1152 1/31/06 GI           | 75.5          | None         |
| 681974  | 3E17    | Floor        | 0 + 1152 1/31/06 GI 1/2"      | 75.5          | None         |
| 681975  | 3G1     | Ribs         | 0 + 00 1/30/06 Intake GI      | 78.0          | None         |
| 681976  | 3G1     | Ribs         | 0 + 00 1/30/06 Intake GI 1/2" | 78.7          | None         |
| 681977  | 3G1X    | Ribs & Floor | 0 + 40 1/30/06 Intake GI      | 71.2          | Trace        |
| 681978  | 3G1X    | Ribs & Floor | 0 + 40 1/30/06 Intake GI 1/2" | 72.4          | None         |
| 681979  | 3G2     | Ribs & Floor | 0 + 80 1/30/06 Intake GI      | 71.7          | None         |
| 681980  | 3G2     | Ribs & Floor | 0 + 80 1/30/06 Intake GI 1/2" | 70.2          | Trace        |

## Appendix Q - Mine Dust Survey Sago Mine Explosion Investigation

*Sago Mine - Wolf Run Mining Company - Mine ID# 4608791*

**SURVEY #3: Sampling Area: 2nd Left Collected 1/30/06 - 2/03/06 by Ison/Sturgill Rec. 2/17/06 from Cook/Hicks**

| Lab No. | Bag No. | Sample Type  | Location in Mine |         |        |         | Dust Analysis | Coke Content |
|---------|---------|--------------|------------------|---------|--------|---------|---------------|--------------|
| 681981  | 3G2X    | Ribs & Floor | 0 + 110          | 1/30/06 | Intake | GI      | 76.3          | None         |
| 681982  | 3G2X    | Ribs & Floor | 0 + 110          | 1/30/06 | Intake | GI 1/2" | 76.4          | None         |
| 681983  | 3G3     | Ribs & Floor | 0 + 150          | 1/30/06 | Intake | GI      | 72.0          | None         |
| 681984  | 3G3     | Ribs & Floor | 0 + 150          | 1/30/06 | Intake | GI 1/2" | 74.8          | None         |
| 681985  | 3G3X    | Ribs & Floor | 0 + 180          | 1/30/06 | Intake | GI      | 85.9          | None         |
| 681986  | 3G4     | Ribs & Floor | 0 + 215          | 1/30/06 | Intake | GI      | 69.4          | None         |
| 681987  | 3G4     | Floor        | 0 + 215          | 1/30/06 | Intake | GI 1/2" | 71.5          | None         |
| 681988  | 3G4X    | Floor        | 0 + 265          | 1/30/06 | Intake | GI      | 76.5          | None         |
| 681989  | 3G4X    | Floor        | 0 + 265          | 1/30/06 | Intake | GI      | 76.0          | None         |
| 681990  | 3G5     | Floor        | 0 + 293          | 1/30/06 | Intake | GI      | 69.7          | None         |
| 681991  | 3G5     | Ribs & Floor | 0 + 293          | 1/30/06 | Intake | GI 1/2" | 72.7          | None         |
| 681992  | 3G5X    | Ribs & Floor | 0 + 343          | 1/30/06 | Intake | GI      | 64.4          | None         |
| 681993  | 3G5X    | Ribs & Floor | 0 + 343          | 1/30/06 | Intake | GI 1/2" | 66.1          | None         |
| 681994  | 3G6X    | Floor        | 0 + 408          | 1/30/06 | Intake | GI      | 61.6          | None         |
| 681995  | 3G6X    | Floor        | 0 + 408          | 1/30/06 | Intake | GI 1/2" | 70.7          | Trace        |
| 681996  | 3H1     | Ribs & Floor | 0 + 00           | 1/30/06 | Intake | GI      | 74.7          | Trace        |
| 681997  | 3H1     | Ribs & Floor | 0 + 00           | 1/30/06 | Intake | GI 1/2" | 73.1          | None         |
| 681998  | 3H2     | Ribs & Floor | 0 + 80           | 1/30/06 | Intake | GI      | 64.7          | None         |
| 681999  | 3H2     | Ribs & Floor | 0 + 80           | 1/30/06 | Intake | GI 1/2" | 71.7          | Trace        |
| 682000  | 3H3     | Ribs & Floor | 0 + 150          | 1/30/06 | Intake | GI      | 66.8          | None         |
| 682001  | 3H3     | Ribs & Floor | 0 + 150          | 1/30/06 | Intake | GI 1/2" | 67.1          | None         |
| 682002  | 3H4     | Floor        | 0 + 215          | 1/30/06 | Intake | GI      | 67.2          | None         |
| 682003  | 3H4     | Floor        | 0 + 215          | 1/30/06 | Intake | GI 1/2" | 68.1          | None         |
| 682004  | 3H5     | Ribs & Floor | 0 + 293          | 1/30/06 | Intake | GI      | 69.9          | None         |
| 682005  | 3H5     | Ribs & Floor | 0 + 293          | 1/30/06 | Intake | GI 1/2" | 68.5          | None         |
| 682006  | 3H6     | Ribs & Floor | 0 + 378          | 1/31/06 | Intake | GI      | 59.4          | None         |
| 682007  | 3H6     | Ribs & Floor | 0 + 378          | 1/31/06 | Intake | GI 1/2" | 60.2          | None         |

## Appendix Q - Mine Dust Survey Sago Mine Explosion Investigation

*Sago Mine - Wolf Run Mining Company - Mine ID# 4608791*

**SURVEY #4: Sampling Area: 2nd Left Mains Collected 2/01-16/06 by Sparks/Hicks Rec. 2/17/06 from Cook/Hicks**

| Lab No. | Bag No. | Sample Type  | Location in Mine        | Dust Analysis | Coke Content |
|---------|---------|--------------|-------------------------|---------------|--------------|
| 682008  | 4B1     | Ribs & Floor | 0 + 00 1" Sample        | 73.3          | X-Large      |
| 682009  | 4B1     | Ribs & Floor | 0 + 00 1/2" Sample      | 74.1          | X-Large      |
| 682010  | 4B2     | Floor        | 0 + 83                  | 71.8          | Large        |
| 682011  | 4B2     | Floor        | 0 + 83 1/2"             | 75.5          | X-Large      |
| 682012  | 4B4     | Floor        | 0 + 242 2/01/06 GI      | 71.0          | X-Large      |
| 682013  | 4B4     | Floor        | 0 + 242 2/01/06 GI 1/2" | 76.7          | X-Large      |
| 682014  | 4C1     | Floor        | 0 + 00 1" Sample        | 73.7          | Large        |
| 682015  | 4C1     | Floor        | 0 + 00 1/2" Sample      | 72.8          | Large        |
| 682016  | 4C2     | Floor        | 0 + 83 1" Sample        | 70.5          | Large        |
| 682017  | 4C2     | Floor        | 0 + 83 1/2" Sample      | 71.5          | Large        |
| 682018  | 4C5     | Floor        | 0 + 324                 | 73.1          | Large        |
| 682019  | 4C5     | Floor        | 0 + 324 1/2"            | 72.4          | Large        |
| 682020  | 4C6     | Floor        | 0 + 401                 | 76.6          | Large        |
| 682021  | 4C6     | Floor        | 0 + 401 1/2"            | 71.8          | Large        |
| 682022  | 4D2     | Band         | 0 + 83                  | 52.1          | Large        |
| 682023  | 4E1     | Band         | 0 + 00                  | 55.7          | X-Large      |
| 682024  | 4E2     | Band         | 0 + 83                  | 55.8          | X-Large      |
| 682025  | 4G2     | Band         | 0 + 83                  | 53.2          | X-Large      |