





XX Mine Site - Overburden and Reserve Quantities

| Location | Map ID | Material | Acres | Cubic Yards | Date Flown | Flight Time | Notes |
|--------------------------------------|--------|------------|-------|-------------------|------------|-------------|--|
| LiDAR to Current Existing Ground | OB-1 | Overburden | 7 | 123,456 | 11/30/2017 | 10:45 AM | The calculation was from LiDAR original ground (pre-mining) to current existing ground from 11/30/18 flight. |
| Current Existing Ground to 1110 | OB-2 | Overburden | 7 | 234,567 | | | The calculation was from existing ground from 11/30/18 flight down to 1100 msl (top of sand). |
| Current Overburden Area 1110 to 1000 | S-1 | Sandstone | 7 | 1,234,567 | | | The calculation was from 1100 msl (top of sand) down to 1000 msl (bottom of sand) in the current area where overburden is to be moved. |
| 1110 Bench to 1000 | S-2 | Sandstone | 6 | 123,456 | | | The calculation was from existing ground from 11/30/18 flight on the 1100 bench down to 1000 msl (bottom of sand). |
| Current Floor to 1000 | S-3 | Sandstone | 20 | *1,234,567 | | | The calculation was from existing ground from 11/30/18 flight on the current mine floor down to 1000 msl (bottom of sand). |
| Sand Reserve Total | | | | *2,592,590 | | | |

Note: All quantities assume vertical highwalls. All elevation values are mean sea level (msl).

| LEGEND | |
|--|--------------------------------------|
|  | Sand Reserve Calculation Boundary |
|  | Overburden Area Calculation Boundary |



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**XX Mine Site
2018 Overburden and Reserve Quantities
Flown 11/30/2017**



DRAWN BY: JTG
SCALE: 1:200
DATE: 1_7_2018