

## **Heap Leach Oxide (Goldstrike Mine, Nevada, USA), CRM**

|                 |                                   |
|-----------------|-----------------------------------|
| Art. ID         | OREAS-264-500G                    |
| Unit            | 500 g (powder)                    |
| Deliverydetails | No Dangerous Good /not restricted |

### Description

OREAS 264 was prepared from oxide heap leach material sourced from the Goldstrike operation in Eureka County in north-eastern Nevada. The mining operation is located on the Carlin Trend and owned by Nevada Gold Mines (operated by Barrick).

| Text/Information     | Analyte/Parameter | CAS number  | Concentration/Value | Unit | Method                                       | Source |
|----------------------|-------------------|-------------|---------------------|------|--|--------|
| ± standard deviation | Silver (Ag)       | [7440-22-4] | 1,29 ± 0,063        | ppm  | 4-Acid Digestion                             |        |
| ± standard deviation | Silver (Ag)       | [7440-22-4] | 0,573 ± 0,032       | ppm  | Aqua Regia Digestion                         |        |
| ± standard deviation | Aluminium (Al)    | [7429-90-5] | 4,31 ± 0,103        | %    | 4-Acid Digestion                             |        |
| ± standard deviation | Aluminium (Al)    | [7429-90-5] | 1,21 ± 0,142        | %    | Aqua Regia Digestion                         |        |
| ± standard deviation | Arsenic (As)      | [7440-38-2] | 305 ± 14            | ppm  | 4-Acid Digestion                             |        |
| ± standard deviation | Arsenic (As)      | [7440-38-2] | 300 ± 13            | ppm  | Aqua Regia Digestion                         |        |
| ± standard deviation | Gold (Au)         | [7440-57-5] | 0,307 ± 0,011       | ppm  | Pb Fire Assay                                |        |
| ± standard deviation | Gold (Au)         | [7440-57-5] | 0,295 ± 0,015       | ppm  | Aqua Regia Digestion (sample weights 10-50g) |        |
| ± standard deviation | Gold (Au)         | [7440-57-5] | 0,273 ± 0,021       | ppm  | Cyanide Leach                                |        |
| ± standard deviation | Gold (Au)         | [7440-57-5] | 0,314 ± 0,033       | ppm  | X-ray Photon Assay                           |        |
| ± standard deviation | Barium (Ba)       | [7440-39-3] | 841 ± 21            | ppm  | 4-Acid Digestion                             |        |
| ± standard deviation | Barium (Ba)       | [7440-39-3] | 482 ± 22            | ppm  | Aqua Regia Digestion                         |        |
| ± standard deviation | Beryllium (Be)    | [7440-41-7] | 1,49 ± 0,104        | ppm  | 4-Acid Digestion                             |        |

|                      |                 |             |               |     |                                   |
|----------------------|-----------------|-------------|---------------|-----|-----------------------------------|
| ± standard deviation | Beryllium (Be)  | [7440-41-7] | 1,01 ± 0,075  | ppm | estion<br>Aqua Regia<br>Digestion |
| ± standard deviation | Bismuth (Bi)    | [7440-69-9] | 0,17 ± 0,013  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Bismuth (Bi)    | [7440-69-9] | 0,16 ± 0,013  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Calcium (Ca)    | [7440-70-2] | 0,405 ± 0,019 | %   | 4-Acid Dig<br>estion              |
| ± standard deviation | Calcium (Ca)    | [7440-70-2] | 0,389 ± 0,021 | %   | Aqua Regia<br>Digestion           |
| ± standard deviation | Cadmium (Cd)    | [7440-43-9] | 2,21 ± 0,2    | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Cadmium (Cd)    | [7440-43-9] | 2,26 ± 0,178  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Cerium (Ce)     | [7440-45-1] | 42,3 ± 2,06   | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Cerium (Ce)     | [7440-45-1] | 10,4 ± 0,89   | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Cobalt (Co)     | [7440-48-4] | 9,71 ± 0,41   | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Cobalt (Co)     | [7440-48-4] | 9,66 ± 0,494  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Chromium (Cr)   | [7440-47-3] | 72 ± 11       | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Chromium (Cr)   | [7440-47-3] | 37,9 ± 4,1    | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Caesium (Cs)    | [7440-46-2] | 5,87 ± 0,306  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Caesium (Cs)    | [7440-46-2] | 2,76 ± 0,51   | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Copper (Cu)     | [7440-50-8] | 94 ± 4,2      | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Copper (Cu)     | [7440-50-8] | 92 ± 2,9      | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Dysprosium (Dy) | [7429-91-6] | 3,64 ± 0,173  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Dysprosium (Dy) | [7429-91-6] | 2,61 ± 0,22   | ppm | Aqua Regia                        |

|                      |                 |             |               |     |                                   |
|----------------------|-----------------|-------------|---------------|-----|-----------------------------------|
| ± standard deviation | Erbium (Er)     | [7440-52-0] | 2,07 ± 0,174  | ppm | Digestion<br>4-Acid Dig<br>estion |
| ± standard deviation | Erbium (Er)     | [7440-52-0] | 1,24 ± 0,09   | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Europium (Eu)   | [7440-53-1] | 0,93 ± 0,069  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Europium (Eu)   | [7440-53-1] | 0,65 ± 0,035  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Iron (Fe)       | [7439-89-6] | 2,24 ± 0,072  | %   | 4-Acid Dig<br>estion              |
| ± standard deviation | Iron (Fe)       | [7439-89-6] | 2,09 ± 0,075  | %   | Aqua Regia<br>Digestion           |
| ± standard deviation | Gallium (Ga)    | [7440-55-3] | 12,7 ± 0,46   | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Gallium (Ga)    | [7440-55-3] | 4,05 ± 0,363  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Gadolinium (Gd) | [7440-54-2] | 3,97 ± 0,382  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Gadolinium (Gd) | [7440-54-2] | 3,08 ± 0,31   | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Germanium (Ge)  | [7440-56-4] | < 0,10 ± IND  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Hafnium (Hf)    | [7440-58-6] | 1,87 ± 0,21   | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Hafnium (Hf)    | [7440-58-6] | 0,2 ± 0,03    | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Mercury (Hg)    | [7439-97-6] | 1,96 ± 0,159  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Holmium (Ho)    | [7440-60-0] | 0,7 ± 0,08    | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Holmium (Ho)    | [7440-60-0] | 0,48 ± 0,026  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Indium (In)     | [7440-74-6] | 0,039 ± 0,002 | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Indium (In)     | [7440-74-6] | 0,03 ± 0,001  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Potassium (K)   | [7440-09-7] | 1,84 ± 0,05   | %   | 4-Acid Dig                        |

|                      |                 |             |               |     |                                   |
|----------------------|-----------------|-------------|---------------|-----|-----------------------------------|
| ± standard deviation | Potassium (K)   | [7440-09-7] | 0,529 ± 0,068 | %   | estion<br>Aqua Regia<br>Digestion |
| ± standard deviation | Lanthanum (La)  | [7439-91-0] | 22,8 ± 1,77   | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Lanthanum (La)  | [7439-91-0] | 5,02 ± 0,363  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Lithium (Li)    | [7439-93-2] | 19,8 ± 1      | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Lithium (Li)    | [7439-93-2] | 3,63 ± 0,233  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Lutetium (Lu)   | [7439-94-3] | 0,31 ± 0,028  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Lutetium (Lu)   | [7439-94-3] | 0,13 ± 0,008  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Magnesium (Mg)  | [7439-95-4] | 0,315 ± 0,011 | %   | 4-Acid Dig<br>estion              |
| ± standard deviation | Magnesium (Mg)  | [7439-95-4] | 0,099 ± 0,011 | %   | Aqua Regia<br>Digestion           |
| ± standard deviation | Manganese (Mn)  | [7439-96-5] | 0,045 ± 0,001 | %   | 4-Acid Dig<br>estion              |
| ± standard deviation | Manganese (Mn)  | [7439-96-5] | 0,046 ± 0,002 | %   | Aqua Regia<br>Digestion           |
| ± standard deviation | Molybdenum (Mo) | [7439-98-7] | 9,69 ± 0,461  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Molybdenum (Mo) | [7439-98-7] | 9,15 ± 0,668  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Sodium (Na)     | [7440-23-5] | 0,036 ± 0,01  | %   | 4-Acid Dig<br>estion              |
| ± standard deviation | Niobium (Nb)    | [7440-03-1] | 7,79 ± 0,533  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Niobium (Nb)    | [7440-03-1] | 0,063 ± 0,012 | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Neodymium (Nd)  | [7440-00-8] | 21,1 ± 1,15   | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Neodymium (Nd)  | [7440-00-8] | 7,55 ± 1,09   | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Nickel (Ni)     | [7440-02-0] | 61 ± 2,3      | ppm | 4-Acid Dig                        |

|                      |                   |             |               |     |                         |
|----------------------|-------------------|-------------|---------------|-----|-------------------------|
| ± standard deviation | Nickel (Ni)       | [7440-02-0] | 59 ± 2,9      | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Phosphorus (P)    | [7723-14-0] | 0,217 ± 0,008 | %   | 4-Acid Dig<br>estion    |
| ± standard deviation | Phosphorus (P)    | [7723-14-0] | 0,204 ± 0,011 | %   | Aqua Regia<br>Digestion |
| ± standard deviation | Lead (Pb)         | [7439-92-1] | 9,88 ± 0,587  | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Lead (Pb)         | [7439-92-1] | 9,3 ± 0,52    | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Praseodymium (Pr) | [7440-10-0] | 5,49 ± 0,351  | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Praseodymium (Pr) | [7440-10-0] | 1,66 ± 0,27   | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Rubidium (Rb)     | [7440-17-7] | 76 ± 3,7      | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Rubidium (Rb)     | [7440-17-7] | 21,5 ± 3,5    | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Rhenium (Re)      | [7440-15-5] | < 0,002 ± IND | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Sulfur (S)        | [7704-34-9] | 0,129 ± 0,004 | %   | 4-Acid Dig<br>estion    |
| ± standard deviation | Sulfur (S)        | [7704-34-9] | 0,104 ± 0,011 | %   | Aqua Regia<br>Digestion |
| ± standard deviation | Antimony (Sb)     | [7440-36-0] | 26,3 ± 2,43   | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Antimony (Sb)     | [7440-36-0] | 13,9 ± 2,5    | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Scandium (Sc)     | [7440-20-2] | 8,38 ± 0,31   | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Scandium (Sc)     | [7440-20-2] | 4,89 ± 0,277  | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Selenium (Se)     | [7782-49-2] | 6,76 ± 0,89   | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Selenium (Se)     | [7782-49-2] | 6,09 ± 0,87   | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Samarium (Sm)     | [7440-19-9] | 4,24 ± 0,263  | ppm | 4-Acid Dig              |

|                      |                |              |               |     |                                   |
|----------------------|----------------|--------------|---------------|-----|-----------------------------------|
| ± standard deviation | Samarium (Sm)  | [7440-19-9]  | 2,34 ± 0,186  | ppm | estion<br>Aqua Regia<br>Digestion |
| ± standard deviation | Tin (Sn)       | [7440-31-5]  | 1,42 ± 0,134  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Tin (Sn)       | [7440-31-5]  | 0,58 ± 0,08   | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Strontium (Sr) | [7440-24-6]  | 100 ± 3,3     | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Strontium (Sr) | [7440-24-6]  | 79 ± 5,1      | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Tantalum (Ta)  | [7440-25-7]  | 0,53 ± 0,034  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Tantalum (Ta)  | [7440-25-7]  | < 0,010 ± IND | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Terbium (Tb)   | [7440-27-9]  | 0,58 ± 0,058  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Terbium (Tb)   | [7440-27-9]  | 0,45 ± 0,026  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Tellurium (Te) | [13494-80-9] | 0,11 ± 0,02   | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Tellurium (Te) | [13494-80-9] | 0,1 ± 0,01    | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Thorium (Th)   | [7440-29-1]  | 6,99 ± 0,431  | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Thorium (Th)   | [7440-29-1]  | 2,6 ± 0,26    | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Titanium (Ti)  | [7440-32-6]  | 0,223 ± 0,009 | %   | 4-Acid Dig<br>estion              |
| ± standard deviation | Thallium (Tl)  | [7440-28-0]  | 1,45 ± 0,05   | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Thallium (Tl)  | [7440-28-0]  | 0,93 ± 0,052  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Thulium (Tm)   | [7440-30-4]  | 0,29 ± 0,04   | ppm | 4-Acid Dig<br>estion              |
| ± standard deviation | Thulium (Tm)   | [7440-30-4]  | 0,15 ± 0,007  | ppm | Aqua Regia<br>Digestion           |
| ± standard deviation | Uranium (U)    | [7440-61-1]  | 5,72 ± 0,307  | ppm | 4-Acid Dig                        |

|                      |                |             |              |     |                         |
|----------------------|----------------|-------------|--------------|-----|-------------------------|
| ± standard deviation | Uranium (U)    | [7440-61-1] | 3,33 ± 0,147 | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Vanadium (V)   | [7440-62-2] | 301 ± 10     | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Vanadium (V)   | [7440-62-2] | 146 ± 16     | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Tungsten (W)   | [7440-33-7] | 5,28 ± 0,298 | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Tungsten (W)   | [7440-33-7] | 1,32 ± 0,23  | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Yttrium (Y)    | [7440-65-5] | 20,8 ± 1,07  | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Yttrium (Y)    | [7440-65-5] | 13,5 ± 0,83  | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Ytterbium (Yb) | [7440-64-4] | 2,1 ± 0,21   | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Ytterbium (Yb) | [7440-64-4] | 0,95 ± 0,052 | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Zinc (Zn)      | [7440-66-6] | 224 ± 7      | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Zinc (Zn)      | [7440-66-6] | 221 ± 9      | ppm | Aqua Regia<br>Digestion |
| ± standard deviation | Zirconium (Zr) | [7440-67-7] | 70 ± 7       | ppm | 4-Acid Dig<br>estion    |
| ± standard deviation | Zirconium (Zr) | [7440-67-7] | 7,79 ± 1,16  | ppm | Aqua Regia<br>Digestion |