

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

Art. ID	OREAS-264-60G
Unit	60 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 Aqua Regia Digestion
± standard deviation	Bismuth (Bi)	[7440-69-9]	0,17 ± 0,013	ppm	4-Acid Dig estion
± standard deviation	Bismuth (Bi)	[7440-69-9]	0,16 ± 0,013	ppm	Aqua Regia Digestion
± standard deviation	Calcium (Ca)	[7440-70-2]	0,405 ± 0,019	%	4-Acid Dig estion
± standard deviation	Calcium (Ca)	[7440-70-2]	0,389 ± 0,021	%	Aqua Regia Digestion
± standard deviation	Cadmium (Cd)	[7440-43-9]	2,21 ± 0,2	ppm	4-Acid Dig estion
± standard deviation	Cadmium (Cd)	[7440-43-9]	2,26 ± 0,178	ppm	Aqua Regia Digestion
± standard deviation	Cerium (Ce)	[7440-45-1]	42,3 ± 2,06	ppm	4-Acid Dig estion
± standard deviation	Cerium (Ce)	[7440-45-1]	10,4 ± 0,89	ppm	Aqua Regia Digestion
± standard deviation	Cobalt (Co)	[7440-48-4]	9,71 ± 0,41	ppm	4-Acid Dig estion
± standard deviation	Cobalt (Co)	[7440-48-4]	9,66 ± 0,494	ppm	Aqua Regia Digestion
± standard deviation	Chromium (Cr)	[7440-47-3]	72 ± 11	ppm	4-Acid Dig estion
± standard deviation	Chromium (Cr)	[7440-47-3]	37,9 ± 4,1	ppm	Aqua Regia Digestion
± standard deviation	Caesium (Cs)	[7440-46-2]	5,87 ± 0,306	ppm	4-Acid Dig estion
± standard deviation	Caesium (Cs)	[7440-46-2]	2,76 ± 0,51	ppm	Aqua Regia Digestion
± standard deviation	Copper (Cu)	[7440-50-8]	94 ± 4,2	ppm	4-Acid Dig estion
± standard deviation	Copper (Cu)	[7440-50-8]	92 ± 2,9	ppm	Aqua Regia Digestion
± standard deviation	Dysprosium (Dy)	[7429-91-6]	3,64 ± 0,173	ppm	4-Acid Dig estion
± standard deviation	Dysprosium (Dy)	[7429-91-6]	2,61 ± 0,22	ppm	Aqua Regia

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

± standard deviation	Potassium (K)	[7440-09-7]	0,529 ± 0,068	%	estion Aqua Regia Digestion
± standard deviation	Lanthanum (La)	[7439-91-0]	22,8 ± 1,77	ppm	4-Acid Dig estion
± standard deviation	Lanthanum (La)	[7439-91-0]	5,02 ± 0,363	ppm	Aqua Regia Digestion
± standard deviation	Lithium (Li)	[7439-93-2]	19,8 ± 1	ppm	4-Acid Dig estion
± standard deviation	Lithium (Li)	[7439-93-2]	3,63 ± 0,233	ppm	Aqua Regia Digestion
± standard deviation	Lutetium (Lu)	[7439-94-3]	0,31 ± 0,028	ppm	4-Acid Dig estion
± standard deviation	Lutetium (Lu)	[7439-94-3]	0,13 ± 0,008	ppm	Aqua Regia Digestion
± standard deviation	Magnesium (Mg)	[7439-95-4]	0,315 ± 0,011	%	4-Acid Dig estion
± standard deviation	Magnesium (Mg)	[7439-95-4]	0,099 ± 0,011	%	Aqua Regia Digestion
± standard deviation	Manganese (Mn)	[7439-96-5]	0,045 ± 0,001	%	4-Acid Dig estion
± standard deviation	Manganese (Mn)	[7439-96-5]	0,046 ± 0,002	%	Aqua Regia Digestion
± standard deviation	Molybdenum (Mo)	[7439-98-7]	9,69 ± 0,461	ppm	4-Acid Dig estion
± standard deviation	Molybdenum (Mo)	[7439-98-7]	9,15 ± 0,668	ppm	Aqua Regia Digestion
± standard deviation	Sodium (Na)	[7440-23-5]	0,036 ± 0,01	%	4-Acid Dig estion
± standard deviation	Niobium (Nb)	[7440-03-1]	7,79 ± 0,533	ppm	4-Acid Dig estion
± standard deviation	Niobium (Nb)	[7440-03-1]	0,063 ± 0,012	ppm	Aqua Regia Digestion
± standard deviation	Neodymium (Nd)	[7440-00-8]	21,1 ± 1,15	ppm	4-Acid Dig estion
± standard deviation	Neodymium (Nd)	[7440-00-8]	7,55 ± 1,09	ppm	Aqua Regia 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 Digestion
± standard deviation	Phosphorus (P)	[7723-14-0]	0,217 ± 0,008	%	4-Acid Dig estion
± standard deviation	Phosphorus (P)	[7723-14-0]	0,204 ± 0,011	%	Aqua Regia Digestion
± standard deviation	Lead (Pb)	[7439-92-1]	9,88 ± 0,587	ppm	4-Acid Dig estion
± standard deviation	Lead (Pb)	[7439-92-1]	9,3 ± 0,52	ppm	Aqua Regia Digestion
± standard deviation	Praseodymium (Pr)	[7440-10-0]	5,49 ± 0,351	ppm	4-Acid Dig estion
± standard deviation	Praseodymium (Pr)	[7440-10-0]	1,66 ± 0,27	ppm	Aqua Regia Digestion
± standard deviation	Rubidium (Rb)	[7440-17-7]	76 ± 3,7	ppm	4-Acid Dig estion
± standard deviation	Rubidium (Rb)	[7440-17-7]	21,5 ± 3,5	ppm	Aqua Regia Digestion
± standard deviation	Rhenium (Re)	[7440-15-5]	< 0,002 ± IND	ppm	4-Acid Dig estion
± standard deviation	Sulfur (S)	[7704-34-9]	0,129 ± 0,004	%	4-Acid Dig estion
± standard deviation	Sulfur (S)	[7704-34-9]	0,104 ± 0,011	%	Aqua Regia Digestion
± standard deviation	Antimony (Sb)	[7440-36-0]	26,3 ± 2,43	ppm	4-Acid Dig estion
± standard deviation	Antimony (Sb)	[7440-36-0]	13,9 ± 2,5	ppm	Aqua Regia Digestion
± standard deviation	Scandium (Sc)	[7440-20-2]	8,38 ± 0,31	ppm	4-Acid Dig estion
± standard deviation	Scandium (Sc)	[7440-20-2]	4,89 ± 0,277	ppm	Aqua Regia Digestion
± standard deviation	Selenium (Se)	[7782-49-2]	6,76 ± 0,89	ppm	4-Acid Dig estion
± standard deviation	Selenium (Se)	[7782-49-2]	6,09 ± 0,87	ppm	Aqua Regia 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 Aqua Regia Digestion
± standard deviation	Tin (Sn)	[7440-31-5]	1,42 ± 0,134	ppm	4-Acid Dig estion
± standard deviation	Tin (Sn)	[7440-31-5]	0,58 ± 0,08	ppm	Aqua Regia Digestion
± standard deviation	Strontium (Sr)	[7440-24-6]	100 ± 3,3	ppm	4-Acid Dig estion
± standard deviation	Strontium (Sr)	[7440-24-6]	79 ± 5,1	ppm	Aqua Regia Digestion
± standard deviation	Tantalum (Ta)	[7440-25-7]	0,53 ± 0,034	ppm	4-Acid Dig estion
± standard deviation	Tantalum (Ta)	[7440-25-7]	< 0,010 ± IND	ppm	Aqua Regia Digestion
± standard deviation	Terbium (Tb)	[7440-27-9]	0,58 ± 0,058	ppm	4-Acid Dig estion
± standard deviation	Terbium (Tb)	[7440-27-9]	0,45 ± 0,026	ppm	Aqua Regia Digestion
± standard deviation	Tellurium (Te)	[13494-80-9]	0,11 ± 0,02	ppm	4-Acid Dig estion
± standard deviation	Tellurium (Te)	[13494-80-9]	0,1 ± 0,01	ppm	Aqua Regia Digestion
± standard deviation	Thorium (Th)	[7440-29-1]	6,99 ± 0,431	ppm	4-Acid Dig estion
± standard deviation	Thorium (Th)	[7440-29-1]	2,6 ± 0,26	ppm	Aqua Regia Digestion
± standard deviation	Titanium (Ti)	[7440-32-6]	0,223 ± 0,009	%	4-Acid Dig estion
± standard deviation	Thallium (Tl)	[7440-28-0]	1,45 ± 0,05	ppm	4-Acid Dig estion
± standard deviation	Thallium (Tl)	[7440-28-0]	0,93 ± 0,052	ppm	Aqua Regia Digestion
± standard deviation	Thulium (Tm)	[7440-30-4]	0,29 ± 0,04	ppm	4-Acid Dig estion
± standard deviation	Thulium (Tm)	[7440-30-4]	0,15 ± 0,007	ppm	Aqua Regia 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 Digestion
± standard deviation	Vanadium (V)	[7440-62-2]	301 ± 10	ppm	4-Acid Dig estion
± standard deviation	Vanadium (V)	[7440-62-2]	146 ± 16	ppm	Aqua Regia Digestion
± standard deviation	Tungsten (W)	[7440-33-7]	5,28 ± 0,298	ppm	4-Acid Dig estion
± standard deviation	Tungsten (W)	[7440-33-7]	1,32 ± 0,23	ppm	Aqua Regia Digestion
± standard deviation	Yttrium (Y)	[7440-65-5]	20,8 ± 1,07	ppm	4-Acid Dig estion
± standard deviation	Yttrium (Y)	[7440-65-5]	13,5 ± 0,83	ppm	Aqua Regia Digestion
± standard deviation	Ytterbium (Yb)	[7440-64-4]	2,1 ± 0,21	ppm	4-Acid Dig estion
± standard deviation	Ytterbium (Yb)	[7440-64-4]	0,95 ± 0,052	ppm	Aqua Regia Digestion
± standard deviation	Zinc (Zn)	[7440-66-6]	224 ± 7	ppm	4-Acid Dig estion
± standard deviation	Zinc (Zn)	[7440-66-6]	221 ± 9	ppm	Aqua Regia Digestion
± standard deviation	Zirconium (Zr)	[7440-67-7]	70 ± 7	ppm	4-Acid Dig estion
± standard deviation	Zirconium (Zr)	[7440-67-7]	7,79 ± 1,16	ppm	Aqua Regia Digestion