

Gold Ore (Agate Creek Gold Mine, Queensland, Australia), CRM

Art. ID	OREAS-268-60G
Unit	60 g (powder)
Deliverydetails	No Dangerous Good /not restricted

Description

OREAS 268 was prepared from a blend of high-grade oxide gold ore and barren materials (basaltic scoria and oxidised siliciclastic sediments). The scoria and sediments were sourced from quarries located in New South Wales and Victoria in Australia. The gold ore was sourced from the Agate Creek Gold Project located in the Etheridge Goldfield of northern Queensland, Australia. The project is hosted within a metamorphosed turbidite sequence of interbedded sandstones, siltstones and shales. Epithermal and mesothermal gold mineralisation occurs within quartz veining, stockworks and breccias associated with Permian felsic volcanic units and Proterozoic batholith. Thirty-one commercial analytical laboratories participated in the program to certify the elements reported below.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Gold (Au)	[7440-57-5]	11,42 ± 0,332	ppm	Pb Fire Assay	
	Gold (Au)	[7440-57-5]	11,67 ± 0,214	ppm	PhotonAssay	
	Gold (Au)	[7440-57-5]	11,29 ± 0,519	ppm	Aqua Regia Digestion (sample weights 10-50g)	
	Gold (Au)	[7440-57-5]	11,17 ± 0,277	ppm	Cyanide Leach	
	Silver (Ag)	[7440-22-4]	4,86 ± 0,211	ppm	4-Acid Digestion	
	Aluminium (Al)	[7429-90-5]	5,18 ± 0,162	wt %	4-Acid Digestion	
	Arsenic (As)	[7440-38-2]	134 ± 4	ppm	4-Acid Digestion	
	Barium (Ba)	[7440-39-3]	385 ± 12	ppm	4-Acid Digestion	
	Beryllium (Be)	[7440-41-7]	1,92 ± 0,135	ppm	4-Acid Digestion	
	Bismuth (Bi)	[7440-69-9]	5,31 ± 0,385	ppm	4-Acid Digestion	
	Calcium (Ca)	[7440-70-2]	1,18 ± 0,046	wt %	4-Acid Digestion	

Cadmium (Cd)	[7440-43-9]	0,041 ± 0,014	ppm	4-Acid Digestion
Cerium (Ce)	[7440-45-1]	61 ± 2,6	ppm	4-Acid Digestion
Cobalt (Co)	[7440-48-4]	11,1 ± 0,43	ppm	4-Acid Digestion
Chromium (Cr)	[7440-47-3]	94 ± 7,9	ppm	4-Acid Digestion
Caesium (Cs)	[7440-46-2]	6,05 ± 0,27	ppm	4-Acid Digestion
Copper (Cu)	[7440-50-8]	27,1 ± 1,22	ppm	4-Acid Digestion
Dysprosium (Dy)	[7429-91-6]	3,14 ± 0,147	ppm	4-Acid Digestion
Erbium (Er)	[7440-52-0]	1,52 ± 0,129	ppm	4-Acid Digestion
Europium (Eu)	[7440-53-1]	1,03 ± 0,074	ppm	4-Acid Digestion
Iron (Fe)	[7439-89-6]	2,95 ± 0,088	wt %	4-Acid Digestion
Gallium (Ga)	[7440-55-3]	15 ± 0,62	ppm	4-Acid Digestion
Gadolinium (Gd)	[7440-54-2]	4,15 ± 0,156	ppm	4-Acid Digestion
Germanium (Ge)	[7440-56-4]	0,15 ± 0,05	ppm	4-Acid Digestion
Hafnium (Hf)	[7440-58-6]	3,11 ± 0,141	ppm	4-Acid Digestion
Holmium (Ho)	[7440-60-0]	0,56 ± 0,04	ppm	4-Acid Digestion
Indium (In)	[7440-74-6]	0,063 ± 0,005	ppm	4-Acid Digestion
Potassium (K)	[7440-09-7]	1,3 ± 0,057	wt %	4-Acid Digestion
Lanthanum (La)	[7439-91-0]	31,3 ± 1,5	ppm	4-Acid Digestion
Lithium (Li)	[7439-93-2]	56 ± 3,1	ppm	4-Acid Digestion

Lutetium (Lu)	[7439-94-3]	0,21 ± 0,016	ppm	4-Acid Digestion
Magnesium (Mg)	[7439-95-4]	0,99 ± 0,052	wt %	4-Acid Digestion
Manganese (Mn)	[7439-96-5]	0,028 ± 0,001	wt %	4-Acid Digestion
Molybdenum (Mo)	[7439-98-7]	7,19 ± 0,436	ppm	4-Acid Digestion
Sodium (Na)	[7440-23-5]	0,543 ± 0,02	wt %	4-Acid Digestion
Niobium (Nb)	[7440-03-1]	15,2 ± 1,14	ppm	4-Acid Digestion
Neodymium (Nd)	[7440-00-8]	27 ± 0,84	ppm	4-Acid Digestion
Nickel (Ni)	[7440-02-0]	50 ± 2,3	ppm	4-Acid Digestion
Phosphorus (P)	[7723-14-0]	0,053 ± 0,002	wt %	4-Acid Digestion
Lead (Pb)	[7439-92-1]	15,5 ± 1,12	ppm	4-Acid Digestion
Praseodymium (Pr)	[7440-10-0]	7,22 ± 0,229	ppm	4-Acid Digestion
Rubidium (Rb)	[7440-17-7]	77 ± 3,3	ppm	4-Acid Digestion
Rhenium (Re)	[7440-15-5]	< 0,002 ± IND	ppm	4-Acid Digestion
Sulfur (S)	[7704-34-9]	0,028 ± 0,004	wt %	4-Acid Digestion
Antimony (Sb)	[7440-36-0]	4,83 ± 0,244	ppm	4-Acid Digestion
Scandium (Sc)	[7440-20-2]	9,23 ± 0,467	ppm	4-Acid Digestion
Selenium (Se)	[7782-49-2]	0,95 ± 0,21	ppm	4-Acid Digestion
Samarium (Sm)	[7440-19-9]	5,12 ± 0,148	ppm	4-Acid Digestion
Tin (Sn)	[7440-31-5]	6,51 ± 0,409	ppm	4-Acid Digestion

Strontium (Sr)	[7440-24-6]	170 ± 4	ppm	4-Acid Digestion
Tantalum (Ta)	[7440-25-7]	1,04 ± 0,092	ppm	4-Acid Digestion
Terbium (Tb)	[7440-27-9]	0,54 ± 0,036	ppm	4-Acid Digestion
Tellurium (Te)	[13494-80-9]	0,12 ± 0,03	ppm	4-Acid Digestion
Thorium (Th)	[7440-29-1]	9,36 ± 0,489	ppm	4-Acid Digestion
Titanium (Ti)	[7440-32-6]	0,393 ± 0,017	wt %	4-Acid Digestion
Thallium (Tl)	[7440-28-0]	0,46 ± 0,028	ppm	4-Acid Digestion
Thulium (Tm)	[7440-30-4]	0,2 ± 0,01	ppm	4-Acid Digestion
Uranium (U)	[7440-61-1]	1,82 ± 0,086	ppm	4-Acid Digestion
Vanadium (V)	[7440-62-2]	69 ± 2,2	ppm	4-Acid Digestion
Tungsten (W)	[7440-33-7]	25,2 ± 1,26	ppm	4-Acid Digestion
Yttrium (Y)	[7440-65-5]	13,7 ± 0,91	ppm	4-Acid Digestion
Ytterbium (Yb)	[7440-64-4]	1,36 ± 0,1	ppm	4-Acid Digestion
Zinc (Zn)	[7440-66-6]	47,8 ± 2,37	ppm	4-Acid Digestion
Zirconium (Zr)	[7440-67-7]	113 ± 6	ppm	4-Acid Digestion
Silver (Ag)	[7440-22-4]	4,65 ± 0,132	ppm	Aqua Regia Digestion
Aluminium (Al)	[7429-90-5]	0,918 ± 0,067	wt %	Aqua Regia Digestion
Arsenic (As)	[7440-38-2]	116 ± 4	ppm	Aqua Regia Digestion
Boron (B)	[7440-42-8]	< 10,0 ± IND	ppm	Aqua Regia Digestion

Barium (Ba)	[7440-39-3]	79 ± 7,4	ppm	Aqua Regia Digestion
Beryllium (Be)	[7440-41-7]	0,56 ± 0,032	ppm	Aqua Regia Digestion
Bismuth (Bi)	[7440-69-9]	4,7 ± 0,327	ppm	Aqua Regia Digestion
Calcium (Ca)	[7440-70-2]	0,332 ± 0,025	wt %	Aqua Regia Digestion
Cadmium (Cd)	[7440-43-9]	0,031 ± 0,007	ppm	Aqua Regia Digestion
Cerium (Ce)	[7440-45-1]	35,2 ± 3,2	ppm	Aqua Regia Digestion
Cobalt (Co)	[7440-48-4]	7,22 ± 0,79	ppm	Aqua Regia Digestion
Chromium (Cr)	[7440-47-3]	43,7 ± 2,21	ppm	Aqua Regia Digestion
Caesium (Cs)	[7440-46-2]	1,39 ± 0,18	ppm	Aqua Regia Digestion
Copper (Cu)	[7440-50-8]	22,8 ± 1,38	ppm	Aqua Regia Digestion
Europium (Eu)	[7440-53-1]	0,53 ± 0,1	ppm	Aqua Regia Digestion
Iron (Fe)	[7439-89-6]	2,14 ± 0,148	wt %	Aqua Regia Digestion
Gallium (Ga)	[7440-55-3]	3,64 ± 0,256	ppm	Aqua Regia Digestion
Germanium (Ge)	[7440-56-4]	0,079 ± 0,028	ppm	Aqua Regia Digestion
Hafnium (Hf)	[7440-58-6]	0,51 ± 0,07	ppm	Aqua Regia Digestion
Mercury (Hg)	[7439-97-6]	0,042 ± 0,013	ppm	Aqua Regia Digestion
Holmium (Ho)	[7440-60-0]	0,25 ± 0,04	ppm	Aqua Regia Digestion
Indium (In)	[7440-74-6]	0,024 ± 0,003	ppm	Aqua Regia Digestion
Potassium (K)	[7440-09-7]	0,169 ± 0,021	wt %	Aqua Regia Digestion

Lanthanum (La)	[7439-91-0]	17,1 ± 1,9	ppm	Aqua Regia Digestion
Lithium (Li)	[7439-93-2]	5,6 ± 0,73	ppm	Aqua Regia Digestion
Magnesium (Mg)	[7439-95-4]	0,4 ± 0,022	wt %	Aqua Regia Digestion
Manganese (Mn)	[7439-96-5]	0,016 ± 0,001	wt %	Aqua Regia Digestion
Molybdenum (Mo)	[7439-98-7]	6,53 ± 0,421	ppm	Aqua Regia Digestion
Sodium (Na)	[7440-23-5]	0,09 ± 0,007	wt %	Aqua Regia Digestion
Niobium (Nb)	[7440-03-1]	0,43 ± 0,12	ppm	Aqua Regia Digestion
Nickel (Ni)	[7440-02-0]	40,3 ± 1,98	ppm	Aqua Regia Digestion
Phosphorus (P)	[7723-14-0]	0,036 ± 0,002	wt %	Aqua Regia Digestion
Lead (Pb)	[7439-92-1]	8,83 ± 0,9	ppm	Aqua Regia Digestion
Praseodymium (Pr)	[7440-10-0]	4,31 ± 0,78	ppm	Aqua Regia Digestion
Rubidium (Rb)	[7440-17-7]	12,9 ± 0,66	ppm	Aqua Regia Digestion
Rhenium (Re)	[7440-15-5]	< 0,001 ± IND	ppm	Aqua Regia Digestion
Sulfur (S)	[7704-34-9]	0,022 ± 0,003	wt %	Aqua Regia Digestion
Antimony (Sb)	[7440-36-0]	1,82 ± 0,21	ppm	Aqua Regia Digestion
Scandium (Sc)	[7440-20-2]	2,19 ± 0,192	ppm	Aqua Regia Digestion
Tin (Sn)	[7440-31-5]	1,36 ± 0,25	ppm	Aqua Regia Digestion
Strontium (Sr)	[7440-24-6]	35,4 ± 4,2	ppm	Aqua Regia Digestion
Tantalum (Ta)	[7440-25-7]	< 0,010 ± IND	ppm	Aqua Regia Digestion

Terbium (Tb)	[7440-27-9]	0,29 ± 0,021	ppm	Aqua Regia Digestion
Tellurium (Te)	[13494-80-9]	0,089 ± 0,014	ppm	Aqua Regia Digestion
Thorium (Th)	[7440-29-1]	6,26 ± 0,576	ppm	Aqua Regia Digestion
Titanium (Ti)	[7440-32-6]	0,066 ± 0,01	wt %	Aqua Regia Digestion
Thallium (Tl)	[7440-28-0]	0,11 ± 0,01	ppm	Aqua Regia Digestion
Uranium (U)	[7440-61-1]	0,89 ± 0,054	ppm	Aqua Regia Digestion
Vanadium (V)	[7440-62-2]	20,2 ± 1,05	ppm	Aqua Regia Digestion
Tungsten (W)	[7440-33-7]	8,54 ± 1,33	ppm	Aqua Regia Digestion
Yttrium (Y)	[7440-65-5]	6,43 ± 0,203	ppm	Aqua Regia Digestion
Zinc (Zn)	[7440-66-6]	28,9 ± 3,2	ppm	Aqua Regia Digestion
Zirconium (Zr)	[7440-67-7]	22,9 ± 1,96	ppm	Aqua Regia Digestion