

## **Gold Ore (Frogs Leg Gold Mine, Western Australia), CRM**

Art. ID	OREAS-240-1KG
Unit	1 kg (powder)
Deliverydetails	No Dangerous Good /not restricted

### Description

OREAS 240 was prepared from a blend of gold-bearing ore and barren greenstone. The ore was sourced from the Frogs Leg Gold Mine located 19km west of Kalgoorlie in Western Australia. The Cambrian greenstone was sourced from a quarry 145km north of Melbourne, Australia.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
± standard deviation	Gold (Au)	[7440-57-5]	5,51 ± 0,139	ppm	Pb Fire Assay	
± standard deviation	Gold (Au)	[7440-57-5]	5,28 ± 0,246	ppm	Aqua Regia Digestion (sample weights 10-50g)	
± standard deviation	Gold (Au)	[7440-57-5]	5,36 ± 0,158	ppm	Cyanide Leach	
± standard deviation	Gold (Au)	[7440-57-5]	5,23 ± 0,134	ppm	X-ray Photon Assay	
± standard deviation	Silver (Ag)	[7440-22-4]	1,3 ± 0,086	ppm	Aqua Regia Digestion	
± standard deviation	Aluminium (Al)	[7429-90-5]	3,35 ± 0,183	%	Aqua Regia Digestion	
± standard deviation	Arsenic (As)	[7440-38-2]	64 ± 2,7	ppm	Aqua Regia Digestion	
± standard deviation	Boron (B)	[7440-42-8]	19,8 ± 4,6	ppm	Aqua Regia Digestion	
± standard deviation	Barium (Ba)	[7440-39-3]	31,8 ± 2,58	ppm	Aqua Regia Digestion	
± standard deviation	Beryllium (Be)	[7440-41-7]	0,27 ± 0,03	ppm	Aqua Regia Digestion	
± standard deviation	Bismuth (Bi)	[7440-69-9]	0,05 ± 0,001	ppm	Aqua Regia Digestion	
± standard deviation	Calcium (Ca)	[7440-70-2]	2,82 ± 0,327	%	Aqua Regia Digestion	
± standard deviation	Cadmium (Cd)	[7440-43-9]	0,61 ± 0,021	ppm	Aqua Regia	

± standard deviation	Cerium (Ce)	[7440-45-1]	10,4 ± 0,57	ppm	Digestion Aqua Regia
± standard deviation	Cobalt (Co)	[7440-48-4]	28,5 ± 1,81	ppm	Digestion Aqua Regia
± standard deviation	Chromium (Cr)	[7440-47-3]	20,2 ± 1,01	ppm	Digestion Aqua Regia
± standard deviation	Caesium (Cs)	[7440-46-2]	0,7 ± 0,054	ppm	Digestion Aqua Regia
± standard deviation	Copper (Cu)	[7440-50-8]	167 ± 6	ppm	Digestion Aqua Regia
± standard deviation	Dysprosium (Dy)	[7429-91-6]	2,08 ± 0,26	ppm	Digestion Aqua Regia
± standard deviation	Erbium (Er)	[7440-52-0]	1,18 ± 0,14	ppm	Digestion Aqua Regia
± standard deviation	Europium (Eu)	[7440-53-1]	0,41 ± 0,06	ppm	Digestion Aqua Regia
± standard deviation	Iron (Fe)	[7439-89-6]	5,3 ± 0,232	%	Digestion Aqua Regia
± standard deviation	Gallium (Ga)	[7440-55-3]	9,68 ± 0,821	ppm	Digestion Aqua Regia
± standard deviation	Gadolinium (Gd)	[7440-54-2]	1,91 ± 0,23	ppm	Digestion Aqua Regia
± standard deviation	Germanium (Ge)	[7440-56-4]	0,098 ± 0,019	ppm	Digestion Aqua Regia
± standard deviation	Hafnium (Hf)	[7440-58-6]	0,55 ± 0,08	ppm	Digestion Aqua Regia
± standard deviation	Holmium (Ho)	[7440-60-0]	0,39 ± 0,03	ppm	Digestion Aqua Regia
± standard deviation	Indium (In)	[7440-74-6]	0,038 ± 0,005	ppm	Digestion Aqua Regia
± standard deviation	Potassium (K)	[7440-09-7]	0,147 ± 0,012	%	Digestion Aqua Regia
± standard deviation	Lanthanum (La)	[7439-91-0]	4,56 ± 0,246	ppm	Digestion Aqua Regia
± standard deviation	Lithium (Li)	[7439-93-2]	9,96 ± 0,86	ppm	Digestion Aqua Regia
± standard deviation	Lutetium (Lu)	[7439-94-3]	0,15 ± 0,02	ppm	Digestion Aqua Regia

± standard deviation	Magnesium (Mg)	[7439-95-4]	1,54 ± 0,047	%	Digestion Aqua Regia
± standard deviation	Manganese (Mn)	[7439-96-5]	0,072 ± 0,005	%	Digestion Aqua Regia
± standard deviation	Molybdenum (Mo)	[7439-98-7]	1,6 ± 0,109	ppm	Digestion Aqua Regia
± standard deviation	Sodium (Na)	[7440-23-5]	0,269 ± 0,016	%	Digestion Aqua Regia
± standard deviation	Neodymium (Nd)	[7440-00-8]	6 ± 0,67	ppm	Digestion Aqua Regia
± standard deviation	Nickel (Ni)	[7440-02-0]	53 ± 3,8	ppm	Digestion Aqua Regia
± standard deviation	Phosphorus (P)	[7723-14-0]	0,039 ± 0,002	%	Digestion Aqua Regia
± standard deviation	Lead (Pb)	[7439-92-1]	28 ± 1,61	ppm	Digestion Aqua Regia
± standard deviation	Praseodymium (Pr)	[7440-10-0]	1,36 ± 0,129	ppm	Digestion Aqua Regia
± standard deviation	Platinum (Pt)	[7440-06-4]	13,4 ± 1,2		Digestion Aqua Regia
± standard deviation	Rubidium (Rb)	[7440-17-7]	6,08 ± 0,475	ppm	Digestion Aqua Regia
± standard deviation	Rhenium (Re)	[7440-15-5]	0,002 ± 0,001	ppm	Digestion Aqua Regia
± standard deviation	Sulfur (S)	[7704-34-9]	0,4 ± 0,031	%	Digestion Aqua Regia
± standard deviation	Antimony (Sb)	[7440-36-0]	0,77 ± 0,25	ppm	Digestion Aqua Regia
± standard deviation	Scandium (Sc)	[7440-20-2]	6,16 ± 0,563	ppm	Digestion Aqua Regia
± standard deviation	Samarium (Sm)	[7440-19-9]	1,56 ± 0,105	ppm	Digestion Aqua Regia
± standard deviation	Tin (Sn)	[7440-31-5]	0,65 ± 0,09	ppm	Digestion Aqua Regia
± standard deviation	Strontium (Sr)	[7440-24-6]	46,8 ± 6,6	ppm	Digestion Aqua Regia
± standard deviation	Tantalum (Ta)	[7440-25-7]	< 0,050 ± IND	ppm	Digestion Aqua Regia

± standard deviation	Terbium (Tb)	[7440-27-9]	0,31 ± 0,03	ppm	Digestion Aqua Regia
± standard deviation	Tellurium (Te)	[13494-80-9]	0,11 ± 0,01	ppm	Digestion Aqua Regia
± standard deviation	Thorium (Th)	[7440-29-1]	0,89 ± 0,041	ppm	Digestion Aqua Regia
± standard deviation	Titanium (Ti)	[7440-32-6]	0,307 ± 0,053	%	Digestion Aqua Regia
± standard deviation	Thallium (Tl)	[7440-28-0]	0,11 ± 0,01	ppm	Digestion Aqua Regia
± standard deviation	Thulium (Tm)	[7440-30-4]	0,17 ± 0,014	ppm	Digestion Aqua Regia
± standard deviation	Uranium (U)	[7440-61-1]	0,22 ± 0,01	ppm	Digestion Aqua Regia
± standard deviation	Vanadium (V)	[7440-62-2]	130 ± 16	ppm	Digestion Aqua Regia
± standard deviation	Tungsten (W)	[7440-33-7]	25,9 ± 3,9	ppm	Digestion Aqua Regia
± standard deviation	Yttrium (Y)	[7440-65-5]	11,4 ± 0,99	ppm	Digestion Aqua Regia
± standard deviation	Ytterbium (Yb)	[7440-64-4]	1,11 ± 0,16	ppm	Digestion Aqua Regia
± standard deviation	Zinc (Zn)	[7440-66-6]	129 ± 5	ppm	Digestion Aqua Regia
± standard deviation	Zirconium (Zr)	[7440-67-7]	18,5 ± 1,9	ppm	Digestion Aqua Regia
± standard deviation	Silver (Ag)	[7440-22-4]	1,35 ± 0,077	ppm	4-Acid Dig estion
± standard deviation	Aluminium (Al)	[7429-90-5]	6,84 ± 0,169	%	4-Acid Dig estion
± standard deviation	Arsenic (As)	[7440-38-2]	65 ± 4,6	ppm	4-Acid Dig estion
± standard deviation	Barium (Ba)	[7440-39-3]	129 ± 4	ppm	4-Acid Dig estion
± standard deviation	Beryllium (Be)	[7440-41-7]	0,43 ± 0,038	ppm	4-Acid Dig estion
± standard deviation	Bismuth (Bi)	[7440-69-9]	0,053 ± 0,007	ppm	4-Acid Dig

± standard deviation	Calcium (Ca)	[7440-70-2]	6,85 ± 0,284	%	estion 4-Acid Dig
± standard deviation	Cadmium (Cd)	[7440-43-9]	0,63 ± 0,032	ppm	estion 4-Acid Dig
± standard deviation	Cerium (Ce)	[7440-45-1]	13,3 ± 0,89	ppm	estion 4-Acid Dig
± standard deviation	Cobalt (Co)	[7440-48-4]	39,8 ± 2,6	ppm	estion 4-Acid Dig
± standard deviation	Chromium (Cr)	[7440-47-3]	103 ± 11	ppm	estion 4-Acid Dig
± standard deviation	Caesium (Cs)	[7440-46-2]	0,97 ± 0,071	ppm	estion 4-Acid Dig
± standard deviation	Copper (Cu)	[7440-50-8]	168 ± 5	ppm	estion 4-Acid Dig
± standard deviation	Dysprosium (Dy)	[7429-91-6]	3,51 ± 0,174	ppm	estion 4-Acid Dig
± standard deviation	Erbium (Er)	[7440-52-0]	2,17 ± 0,111	ppm	estion 4-Acid Dig
± standard deviation	Europium (Eu)	[7440-53-1]	0,88 ± 0,045	ppm	estion 4-Acid Dig
± standard deviation	Iron (Fe)	[7439-89-6]	7,31 ± 0,243	%	estion 4-Acid Dig
± standard deviation	Gallium (Ga)	[7440-55-3]	15,2 ± 0,51	ppm	estion 4-Acid Dig
± standard deviation	Gadolinium (Gd)	[7440-54-2]	3,14 ± 0,24	ppm	estion 4-Acid Dig
± standard deviation	Hafnium (Hf)	[7440-58-6]	1,7 ± 0,096	ppm	estion 4-Acid Dig
± standard deviation	Holmium (Ho)	[7440-60-0]	0,74 ± 0,052	ppm	estion 4-Acid Dig
± standard deviation	Indium (In)	[7440-74-6]	0,075 ± 0,005	ppm	estion 4-Acid Dig
± standard deviation	Potassium (K)	[7440-09-7]	0,453 ± 0,015	%	estion 4-Acid Dig
± standard deviation	Lanthanum (La)	[7439-91-0]	5,72 ± 0,385	ppm	estion 4-Acid Dig
± standard deviation	Lithium (Li)	[7439-93-2]	11,4 ± 0,92	ppm	estion 4-Acid Dig

± standard deviation	Lutetium (Lu)	[7439-94-3]	0,31 ± 0,02	ppm	estion 4-Acid Dig
± standard deviation	Magnesium (Mg)	[7439-95-4]	3,44 ± 0,141	%	estion 4-Acid Dig
± standard deviation	Manganese (Mn)	[7439-96-5]	0,125 ± 0,004	%	estion 4-Acid Dig
± standard deviation	Molybdenum (Mo)	[7439-98-7]	1,7 ± 0,128	ppm	estion 4-Acid Dig
± standard deviation	Sodium (Na)	[7440-23-5]	1,65 ± 0,05	%	estion 4-Acid Dig
± standard deviation	Niobium (Nb)	[7440-03-1]	3,37 ± 0,192	ppm	estion 4-Acid Dig
± standard deviation	Neodymium (Nd)	[7440-00-8]	8,32 ± 0,363	ppm	estion 4-Acid Dig
± standard deviation	Nickel (Ni)	[7440-02-0]	79 ± 4	ppm	estion 4-Acid Dig
± standard deviation	Phosphorus (P)	[7723-14-0]	0,04 ± 0,002	%	estion 4-Acid Dig
± standard deviation	Lead (Pb)	[7439-92-1]	28,5 ± 1,59	ppm	estion 4-Acid Dig
± standard deviation	Praseodymium (Pr)	[7440-10-0]	1,77 ± 0,08	ppm	estion 4-Acid Dig
± standard deviation	Rubidium (Rb)	[7440-17-7]	14 ± 0,7	ppm	estion 4-Acid Dig
± standard deviation	Sulfur (S)	[7704-34-9]	0,399 ± 0,017	%	estion 4-Acid Dig
± standard deviation	Antimony (Sb)	[7440-36-0]	1,48 ± 0,087	ppm	estion 4-Acid Dig
± standard deviation	Scandium (Sc)	[7440-20-2]	37,9 ± 1,35	ppm	estion 4-Acid Dig
± standard deviation	Samarium (Sm)	[7440-19-9]	2,43 ± 0,134	ppm	estion 4-Acid Dig
± standard deviation	Tin (Sn)	[7440-31-5]	1,08 ± 0,13	ppm	estion 4-Acid Dig
± standard deviation	Strontium (Sr)	[7440-24-6]	213 ± 10	ppm	estion 4-Acid Dig
± standard deviation	Tantalum (Ta)	[7440-25-7]	0,23 ± 0,019	ppm	estion 4-Acid Dig

± standard deviation	Terbium (Tb)	[7440-27-9]	0,53 ± 0,028	ppm	4-Acid Dig estion
± standard deviation	Tellurium (Te)	[13494-80-9]	0,11 ± 0,01	ppm	4-Acid Dig estion
± standard deviation	Thorium (Th)	[7440-29-1]	1,13 ± 0,074	ppm	4-Acid Dig estion
± standard deviation	Titanium (Ti)	[7440-32-6]	0,572 ± 0,022	%	4-Acid Dig estion
± standard deviation	Thallium (Tl)	[7440-28-0]	0,23 ± 0,01	ppm	4-Acid Dig estion
± standard deviation	Thulium (Tm)	[7440-30-4]	0,31 ± 0,016	ppm	4-Acid Dig estion
± standard deviation	Uranium (U)	[7440-61-1]	0,33 ± 0,04	ppm	4-Acid Dig estion
± standard deviation	Vanadium (V)	[7440-62-2]	251 ± 8	ppm	4-Acid Dig estion
± standard deviation	Tungsten (W)	[7440-33-7]	36,9 ± 2,75	ppm	4-Acid Dig estion
± standard deviation	Yttrium (Y)	[7440-65-5]	19,2 ± 0,98	ppm	4-Acid Dig estion
± standard deviation	Ytterbium (Yb)	[7440-64-4]	2,1 ± 0,139	ppm	4-Acid Dig estion
± standard deviation	Zinc (Zn)	[7440-66-6]	142 ± 8	ppm	4-Acid Dig estion
± standard deviation	Zirconium (Zr)	[7440-67-7]	56 ± 4,1	ppm	4-Acid Dig estion