

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

Art. ID	OREAS-242-1KG
Unit	1 kg (powder)
Deliverydetails	No Dangerous Good /not restricted

### Description

OREAS 242 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]	8,67 ± 0,215	ppm	Pb Fire Assay	
± standard deviation	Gold (Au)	[7440-57-5]	8,33 ± 0,243	ppm	Aqua Regia Digestion (sample weights 10-50g)	
± standard deviation	Gold (Au)	[7440-57-5]	8,48 ± 0,212	ppm	Cyanide Leach	
± standard deviation	Gold (Au)	[7440-57-5]	8,26 ± 0,276	ppm	X-ray Photon Assay	
± standard deviation	Silver (Ag)	[7440-22-4]	2,05 ± 0,144	ppm	Aqua Regia Digestion	
± standard deviation	Aluminium (Al)	[7429-90-5]	3,2 ± 0,142	%	Aqua Regia Digestion	
± standard deviation	Arsenic (As)	[7440-38-2]	66 ± 2,6	ppm	Aqua Regia Digestion	
± standard deviation	Boron (B)	[7440-42-8]	52 ± 7	ppm	Aqua Regia Digestion	
± standard deviation	Barium (Ba)	[7440-39-3]	35,1 ± 2,56	ppm	Aqua Regia Digestion	
± standard deviation	Beryllium (Be)	[7440-41-7]	0,27 ± 0,02	ppm	Aqua Regia Digestion	
± standard deviation	Bismuth (Bi)	[7440-69-9]	0,055 ± 0,005	ppm	Aqua Regia Digestion	
± standard deviation	Calcium (Ca)	[7440-70-2]	2,66 ± 0,262	%	Aqua Regia Digestion	
± standard deviation	Cadmium (Cd)	[7440-43-9]	0,65 ± 0,025	ppm	Aqua Regia	

± standard deviation	Cerium (Ce)	[7440-45-1]	10,9 ± 0,64	ppm	Digestion Aqua Regia
± standard deviation	Cobalt (Co)	[7440-48-4]	28,9 ± 1,83	ppm	Digestion Aqua Regia
± standard deviation	Chromium (Cr)	[7440-47-3]	26,1 ± 1,17	ppm	Digestion Aqua Regia
± standard deviation	Caesium (Cs)	[7440-46-2]	0,78 ± 0,04	ppm	Digestion Aqua Regia
± standard deviation	Copper (Cu)	[7440-50-8]	171 ± 6	ppm	Digestion Aqua Regia
± standard deviation	Dysprosium (Dy)	[7429-91-6]	2,16 ± 0,22	ppm	Digestion Aqua Regia
± standard deviation	Erbium (Er)	[7440-52-0]	1,33 ± 0,2	ppm	Digestion Aqua Regia
± standard deviation	Europium (Eu)	[7440-53-1]	0,47 ± 0,07	ppm	Digestion Aqua Regia
± standard deviation	Iron (Fe)	[7439-89-6]	5,54 ± 0,216	%	Digestion Aqua Regia
± standard deviation	Gallium (Ga)	[7440-55-3]	10,3 ± 0,59	ppm	Digestion Aqua Regia
± standard deviation	Gadolinium (Gd)	[7440-54-2]	2,08 ± 0,28	ppm	Digestion Aqua Regia
± standard deviation	Germanium (Ge)	[7440-56-4]	0,11 ± 0,02	ppm	Digestion Aqua Regia
± standard deviation	Hafnium (Hf)	[7440-58-6]	0,58 ± 0,08	ppm	Digestion Aqua Regia
± standard deviation	Holmium (Ho)	[7440-60-0]	0,44 ± 0,05	ppm	Digestion Aqua Regia
± standard deviation	Indium (In)	[7440-74-6]	0,039 ± 0,002	ppm	Digestion Aqua Regia
± standard deviation	Potassium (K)	[7440-09-7]	0,16 ± 0,013	%	Digestion Aqua Regia
± standard deviation	Lanthanum (La)	[7439-91-0]	4,79 ± 0,227	ppm	Digestion Aqua Regia
± standard deviation	Lithium (Li)	[7439-93-2]	9,8 ± 0,766	ppm	Digestion Aqua Regia
± standard deviation	Lutetium (Lu)	[7439-94-3]	0,16 ± 0,02	ppm	Digestion Aqua Regia

± standard deviation	Magnesium (Mg)	[7439-95-4]	1,59 ± 0,046	%	Digestion Aqua Regia
± standard deviation	Manganese (Mn)	[7439-96-5]	0,07 ± 0,004	%	Digestion Aqua Regia
± standard deviation	Molybdenum (Mo)	[7439-98-7]	1,54 ± 0,079	ppm	Digestion Aqua Regia
± standard deviation	Sodium (Na)	[7440-23-5]	0,257 ± 0,014	%	Digestion Aqua Regia
± standard deviation	Neodymium (Nd)	[7440-00-8]	6,39 ± 0,71	ppm	Digestion Aqua Regia
± standard deviation	Nickel (Ni)	[7440-02-0]	48,9 ± 2,8	ppm	Digestion Aqua Regia
± standard deviation	Phosphorus (P)	[7723-14-0]	0,041 ± 0,002	%	Digestion Aqua Regia
± standard deviation	Lead (Pb)	[7439-92-1]	30,5 ± 1,23	ppm	Digestion Aqua Regia
± standard deviation	Praseodymium (Pr)	[7440-10-0]	1,41 ± 0,136	ppm	Digestion Aqua Regia
± standard deviation	Platinum (Pt)	[7440-06-4]	10,3 ± 0,8		Digestion Aqua Regia
± standard deviation	Rubidium (Rb)	[7440-17-7]	6,79 ± 0,617	ppm	Digestion Aqua Regia
± standard deviation	Rhenium (Re)	[7440-15-5]	0,002 ± 0	ppm	Digestion Aqua Regia
± standard deviation	Sulfur (S)	[7704-34-9]	0,434 ± 0,029	%	Digestion Aqua Regia
± standard deviation	Antimony (Sb)	[7440-36-0]	0,94 ± 0,28	ppm	Digestion Aqua Regia
± standard deviation	Scandium (Sc)	[7440-20-2]	6,29 ± 0,466	ppm	Digestion Aqua Regia
± standard deviation	Samarium (Sm)	[7440-19-9]	1,64 ± 0,158	ppm	Digestion Aqua Regia
± standard deviation	Tin (Sn)	[7440-31-5]	0,68 ± 0,1	ppm	Digestion Aqua Regia
± standard deviation	Strontium (Sr)	[7440-24-6]	38,2 ± 5,2	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]	0,35 ± 0,034	ppm	Digestion Aqua Regia
± standard deviation	Tellurium (Te)	[13494-80-9]	0,11 ± 0,02	ppm	Digestion Aqua Regia
± standard deviation	Thorium (Th)	[7440-29-1]	0,98 ± 0,088	ppm	Digestion Aqua Regia
± standard deviation	Titanium (Ti)	[7440-32-6]	0,33 ± 0,054	%	Digestion Aqua Regia
± standard deviation	Thallium (Tl)	[7440-28-0]	0,14 ± 0,011	ppm	Digestion Aqua Regia
± standard deviation	Thulium (Tm)	[7440-30-4]	0,18 ± 0,02	ppm	Digestion Aqua Regia
± standard deviation	Uranium (U)	[7440-61-1]	0,24 ± 0,012	ppm	Digestion Aqua Regia
± standard deviation	Vanadium (V)	[7440-62-2]	142 ± 14	ppm	Digestion Aqua Regia
± standard deviation	Tungsten (W)	[7440-33-7]	24,6 ± 3,2	ppm	Digestion Aqua Regia
± standard deviation	Yttrium (Y)	[7440-65-5]	12,1 ± 0,83	ppm	Digestion Aqua Regia
± standard deviation	Ytterbium (Yb)	[7440-64-4]	1,19 ± 0,13	ppm	Digestion Aqua Regia
± standard deviation	Zinc (Zn)	[7440-66-6]	133 ± 5	ppm	Digestion Aqua Regia
± standard deviation	Zirconium (Zr)	[7440-67-7]	18,8 ± 2	ppm	Digestion Aqua Regia
± standard deviation	Silver (Ag)	[7440-22-4]	2,06 ± 0,128	ppm	4-Acid Dig estion
± standard deviation	Aluminium (Al)	[7429-90-5]	6,69 ± 0,252	%	4-Acid Dig estion
± standard deviation	Arsenic (As)	[7440-38-2]	68 ± 4,4	ppm	4-Acid Dig estion
± standard deviation	Barium (Ba)	[7440-39-3]	201 ± 6	ppm	4-Acid Dig estion
± standard deviation	Beryllium (Be)	[7440-41-7]	0,46 ± 0,027	ppm	4-Acid Dig estion
± standard deviation	Bismuth (Bi)	[7440-69-9]	0,055 ± 0,009	ppm	4-Acid Dig

± standard deviation	Calcium (Ca)	[7440-70-2]	6,2 ± 0,269	%	estion 4-Acid Dig
± standard deviation	Cadmium (Cd)	[7440-43-9]	0,65 ± 0,033	ppm	estion 4-Acid Dig
± standard deviation	Cerium (Ce)	[7440-45-1]	13,7 ± 0,8	ppm	estion 4-Acid Dig
± standard deviation	Cobalt (Co)	[7440-48-4]	39,5 ± 2,51	ppm	estion 4-Acid Dig
± standard deviation	Chromium (Cr)	[7440-47-3]	92 ± 9	ppm	estion 4-Acid Dig
± standard deviation	Caesium (Cs)	[7440-46-2]	1,03 ± 0,077	ppm	estion 4-Acid Dig
± standard deviation	Copper (Cu)	[7440-50-8]	174 ± 4	ppm	estion 4-Acid Dig
± standard deviation	Dysprosium (Dy)	[7429-91-6]	3,64 ± 0,224	ppm	estion 4-Acid Dig
± standard deviation	Erbium (Er)	[7440-52-0]	2,22 ± 0,118	ppm	estion 4-Acid Dig
± standard deviation	Europium (Eu)	[7440-53-1]	0,88 ± 0,07	ppm	estion 4-Acid Dig
± standard deviation	Iron (Fe)	[7439-89-6]	7,58 ± 0,241	%	estion 4-Acid Dig
± standard deviation	Gallium (Ga)	[7440-55-3]	15,1 ± 0,87	ppm	estion 4-Acid Dig
± standard deviation	Gadolinium (Gd)	[7440-54-2]	3,25 ± 0,265	ppm	estion 4-Acid Dig
± standard deviation	Hafnium (Hf)	[7440-58-6]	1,78 ± 0,132	ppm	estion 4-Acid Dig
± standard deviation	Holmium (Ho)	[7440-60-0]	0,76 ± 0,042	ppm	estion 4-Acid Dig
± standard deviation	Indium (In)	[7440-74-6]	0,079 ± 0,007	ppm	estion 4-Acid Dig
± standard deviation	Potassium (K)	[7440-09-7]	0,547 ± 0,024	%	estion 4-Acid Dig
± standard deviation	Lanthanum (La)	[7439-91-0]	5,92 ± 0,382	ppm	estion 4-Acid Dig
± standard deviation	Lithium (Li)	[7439-93-2]	11,5 ± 0,8	ppm	estion 4-Acid Dig

± standard deviation	Lutetium (Lu)	[7439-94-3]	0,31 ± 0,014	ppm	estion 4-Acid Dig
± standard deviation	Magnesium (Mg)	[7439-95-4]	3,32 ± 0,114	%	estion 4-Acid Dig
± standard deviation	Manganese (Mn)	[7439-96-5]	0,127 ± 0,004	%	estion 4-Acid Dig
± standard deviation	Molybdenum (Mo)	[7439-98-7]	1,61 ± 0,107	ppm	estion 4-Acid Dig
± standard deviation	Sodium (Na)	[7440-23-5]	1,89 ± 0,059	%	estion 4-Acid Dig
± standard deviation	Niobium (Nb)	[7440-03-1]	3,58 ± 0,178	ppm	estion 4-Acid Dig
± standard deviation	Neodymium (Nd)	[7440-00-8]	8,68 ± 0,439	ppm	estion 4-Acid Dig
± standard deviation	Nickel (Ni)	[7440-02-0]	70 ± 3,3	ppm	estion 4-Acid Dig
± standard deviation	Phosphorus (P)	[7723-14-0]	0,043 ± 0,002	%	estion 4-Acid Dig
± standard deviation	Lead (Pb)	[7439-92-1]	30,8 ± 1,75	ppm	estion 4-Acid Dig
± standard deviation	Praseodymium (Pr)	[7440-10-0]	1,86 ± 0,08	ppm	estion 4-Acid Dig
± standard deviation	Rubidium (Rb)	[7440-17-7]	15,5 ± 0,84	ppm	estion 4-Acid Dig
± standard deviation	Sulfur (S)	[7704-34-9]	0,444 ± 0,033	%	estion 4-Acid Dig
± standard deviation	Antimony (Sb)	[7440-36-0]	1,78 ± 0,088	ppm	estion 4-Acid Dig
± standard deviation	Scandium (Sc)	[7440-20-2]	37,3 ± 1,46	ppm	estion 4-Acid Dig
± standard deviation	Samarium (Sm)	[7440-19-9]	2,51 ± 0,136	ppm	estion 4-Acid Dig
± standard deviation	Tin (Sn)	[7440-31-5]	1,15 ± 0,16	ppm	estion 4-Acid Dig
± standard deviation	Strontium (Sr)	[7440-24-6]	147 ± 7	ppm	estion 4-Acid Dig
± standard deviation	Tantalum (Ta)	[7440-25-7]	0,25 ± 0,019	ppm	estion 4-Acid Dig

± standard deviation	Terbium (Tb)	[7440-27-9]	0,55 ± 0,04	ppm	estion 4-Acid Dig
± standard deviation	Tellurium (Te)	[13494-80-9]	0,11 ± 0,03	ppm	estion 4-Acid Dig
± standard deviation	Thorium (Th)	[7440-29-1]	1,19 ± 0,082	ppm	estion 4-Acid Dig
± standard deviation	Titanium (Ti)	[7440-32-6]	0,602 ± 0,02	%	estion 4-Acid Dig
± standard deviation	Thallium (Tl)	[7440-28-0]	0,26 ± 0,014	ppm	estion 4-Acid Dig
± standard deviation	Thulium (Tm)	[7440-30-4]	0,32 ± 0,022	ppm	estion 4-Acid Dig
± standard deviation	Uranium (U)	[7440-61-1]	0,36 ± 0,02	ppm	estion 4-Acid Dig
± standard deviation	Vanadium (V)	[7440-62-2]	262 ± 9	ppm	estion 4-Acid Dig
± standard deviation	Tungsten (W)	[7440-33-7]	35 ± 2,73	ppm	estion 4-Acid Dig
± standard deviation	Yttrium (Y)	[7440-65-5]	20,1 ± 0,82	ppm	estion 4-Acid Dig
± standard deviation	Ytterbium (Yb)	[7440-64-4]	2,18 ± 0,137	ppm	estion 4-Acid Dig
± standard deviation	Zinc (Zn)	[7440-66-6]	147 ± 8	ppm	estion 4-Acid Dig
± standard deviation	Zirconium (Zr)	[7440-67-7]	58 ± 5,1	ppm	estion 4-Acid Dig