yuti

Hi Carson,

Let's see what's in your jar!

Collected by Carson · 15/04/26

What we found in your sample

Sample analysed

27	2	14	0	5
Elements found in your sample	Rare earth elements	Precious metals	Crude oil	Unique finds

Your sample fits your area, and precious metals turned up

Your sample from Carson's backyard in Perth, Western Australia, is a textbook match for the region. The mineral mix is dominated by iron and aluminium, which gives the soil its red colour. The presence of rare earth elements and precious metals is also consistent with the geology of the Yilgarn Craton, one of the oldest and most mineral-rich regions on Earth. Nothing unusual here, and that's exactly what we'd expect.

Tap any find in a card to view it on the elements.

Mineral-rich soil · Sedimentary rock · Ancient metamorphic formations · Oil-bearing rock formations

Full list of elements and minerals found	Rare earth elements	Precious metals	Crude oil
27 elements	Neodymium	Platinum	Hydrocarbons
Iron · Aluminium · Silicon · Titanium · Manganese · Vanadium · Chromium · Nickel · Copper · Zinc · Gallium · Germanium · Arsenic · Selenium · Yttrium · Zirconium · Niobium · Molybdenum · Tin · Antimony · Tungsten · Gold · Lead · Thorium · Uranium	Neodymium · Yttrium · Cerium · Lanthanum · Praseodymium · Gadolinium · Dysprosium	Platinum · Gold	Hydrocarbons

Drop Opening

Drop Opening
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Getting to know your dirt

Here's a look at what your soil is, and some things that shape how it's behaving.

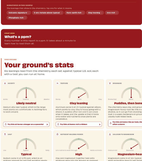
Where this starts today

Volcanic

Geological Type

Your sample is primarily rich in iron oxide and aluminium, which is the characteristic signature of soil formed from volcanic rock. That is among the most mineral-rich soil types on Earth, and it has helped make Carson's region so productive.

Volcanic rock is formed when magma from the interior of Earth erupts onto the surface and cools rapidly. Over thousands of years, that rock breaks down into soil that is naturally high in nutrients. Carson's sample shows exactly that: a deep red colour from the iron content and a fine, consistent texture.



What's a pure?

Pure is a term we use to describe a finding that's about 2 or more of a kind.

Your ground's stats

How your sample stacks up against the typical soil profile.

Should I be feeling heavy?

Soil Type
Sandy
Sandy Loam
Loam
Clay Loam
Clay
Sediment
Peat
Chalk
Silt

Volcanic soil is usually rich in iron and aluminium, which gives it a red colour and high fertility.

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Sandy soil is usually low in nutrients and drains quickly.

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Clay soil is usually heavy and can hold water.

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Loam is usually a good mix of sand, silt and clay.

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Peat soil is usually dark and rich in organic matter.

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Chalk soil is usually alkaline and can be stony.

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Silt soil is usually fine and can be prone to compaction.

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Sediment soil is usually made from layers of different materials.

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Sediment can be rich in minerals, but may also contain heavy metals.

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