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as of 2015 there are 10 active phosphate mines in four states florida north carolina idaho and utah the eastern phosphate deposits are mined from open pits the western deposits are mined from both surface and underground mines a massive underground deposit of high grade phosphate rock in norway pitched as the world s largest is big enough to satisfy world demand for fertilisers solar panels and electric in 2013 phosphate rock was produced almost entirely from surface mines with only one active underground mine in the world phosphate rock when used in an untreated form is not very soluble and provides little available phosphorus to plants except in some moist acidic soils phosphate mining can be conducted either in strip mining or underground mining depending on the location and type of deposit unlike nitrogen phosphate is retained in the soil by a complex system of biological uptake absorption and mineralization phosphates are not toxic to people or animals unless they are present at very high levels digestive problems could occur from extremely high levels of phosphate norway has discovered a massive underground deposit of high grade phosphate rock which could satisfy the world s demand for fertilisers solar panels and electric car batteries for the next 100 phosphorus and groundwater establishing links between agricultural use and transport to streams by joseph l domagalski and henry johnson why study phosphorus phosphorus is a highly reactive element that is essential for life and forms a variety of compounds in terrestrial and aquatic ecosystems phosphorus cycle formation and accumulation the heaviest accumulation of phosphorus is mainly on the ocean floor phosphorus accumulation occurs from atmospheric precipitation dust glacial runoff cosmic activity underground hydrothermal volcanic activity and deposition of organic material effort to more effectively mine and process reserves resources of phosphate rock and to utilize phosphate fertilizer and phosphate containing waste as efficiently as possible while keeping nutrients out of watersheds and the oceans phosphate rock is extracted from open pit and underground mines depending on the geological and morphological properties of the phosphate ore generally the extraction from open pit mines generates dust emissions and produces large quantities of mine waste with 1 12 tons of waste extracted per 1 ton of phosphate ore taha et al 2021 understanding phosphorus dynamics in soil water and sediments is vital for sustainable agriculture and conservation efforts adsorption isotherms provide insights into phosphorus absorption mechanisms in sediments impacting water quality in surface and subsurface systems stacked phosphogypsum pg can not only cause a waste of resources but also has a serious negative impact on the surface environment phosphogypsum backfilling pgb in the underground goaf is a useful approach to effectively address the pg environmental problems the term phosphate rock or phosphorite is used to denote any rock with high phosphorus content the largest and least expensive source of phosphorus is obtained by mining and concentrating phosphate rock from the numerous phosphate deposits of the world adding phosphate and potash to the critical minerals list would be a significant step towards securing our own future and sending the clear message that safeguarding our nation s food supply is not only an economic imperative but a strategic priority that ensures our well being phosphates are the workhorses that build molecules like dna transfer energy and transport molecules in and out of cells and activate and inactivate proteins but we also require phosphates to build strong bones in vertebrates approximately 85 percent of the body s phosphorus is found in bones and teeth three major nutrients are

required in large quantities for plant growth nitrogen phosphorous and potassi um three secondary nutrients are required in smaller quantities on some soils sulfur calcium and magne sium seven micronutrients may be required in small amounts where deficient adenosine tri phosphate is a japanese alternative rock pop band 1 the group s name was suggested to the band from a fan 1 the concept of adenosine tri phosphate is powerful music with musical experiments 1 the group began with the guitarist mug who is the lead composer plays guitar and also plays other instruments 2 centrex subsidiary agriflex has secured the new queensland epm 28684 in australia the permit is located adjacent to ipl s phosphate hill mining lease and avenir makatea s mining lease application ml 100379 known as the korella north project in queensland australia the epm lies on the boundary of the prospective georgina basin close to in a new analysis of data from the retired cassini mission to saturn an international team of researchers say they have detected phosphorus a key ingredient for life coming from enceladus a phosphate blood test can diagnose everything from calcium deficiencies to kidney failure learn about what s involved in getting the test done

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