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Saline Intrusion Groundwater And Coastal

Saltwater intrusion is the movement of saline water into freshwater aquifers, which can lead to groundwater quality degradation, including drinking water sources, and other consequences. Saltwater intrusion can naturally occur in coastal aquifers, owing to the hydraulic connection between groundwater and seawater. Because saline water has a higher mineral content than freshwater, it is denser ...

Saltwater intrusion - Wikipedia

The continued reliance on ground water has resulted in its

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decline in quantity and quality. In this study, the coastal aquifers of Lagos metropolis were selected for an assessment of its groundwater quality and impact of saline intrusion. Water samples collected along the coastal region were subjected to various physicochemical analyses.

Assessment of Groundwater Quality and Saline Intrusions in ...

R.J. Foot, M.S. Robinson, in Handbook of Water and Wastewater Microbiology, 2003. 3.1.2 Salinity. Saline intrusion into coastal towns can also result in poor sludge settleability. While the organisms in waste treatment are able to adapt to increased levels of chloride, the rate of change in chloride concentration through a spring tide can be more than activated sludge can accommodate.

Saline Intrusion - an overview | ScienceDirect Topics

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Saltwater intrusion is the induced flow of seawater into freshwater aquifers primarily caused by groundwater development near the coast. Where groundwater is being pumped from aquifers that are in hydraulic connection with the sea, induced gradients may cause the migration of salt water from the sea toward a well, making the freshwater well unusable.

Saltwater Intrusion - Solinst Groundwater and Surface ...

The coastal location of the aquifer combined with a history of pumping through dewatering of mine water within the deeper Coal Measures, and historically high levels of public supply abstraction in the area, make it vulnerable to saline intrusion. This can lead to long changes in groundwater chemistry and deterioration in water quality.

Assessing potential saline intrusion in a coastal aquifer

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Sea water intrusion (or salt water intrusion) is the encroachment of saline water into fresh ground water regions in coastal aquifer settings. It has been studied extensively for well over a century (Werner and Gallagher 2006; Voss and Souza 1987; Huyakorn et al. 1987; Pinder and Cooper 1970; Herzberg 1901; Ghyben 1888).

Impact of Sea-Level Rise on Sea Water Intrusion in Coastal ...

Groundwater remains the main source of quality and adequate water supply in the world over from which we get water for domestic, agricultural and industrial usage. One of the factors affecting the quality of water from this source is saline water intrusion, especially in coastal aquifers.

Saline Water Intrusion: Its Management and Control ...

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Saltwater intrusion can also contaminate critical freshwater sources that people living in coastal watersheds depend on for clean drinking water, reliable irrigation, and other needs. It also alters soil chemistry and mobilizes nutrients—contributing to nutrient loading in adjacent water bodies that reduces water quality and can harm species.

Saltwater Intrusion and Coastal Climate Adaptation ...

The present saline groundwater was largely formed during this period. Saline intrusion in coastal aquifers by marine flooding occurs today only incidentally under extreme storms. Such extreme conditions are rare, but they are expected to become much more frequent in future as a consequence of sea level rise (see Sea level rise) and land subsidence.

Groundwater management in low-lying coastal zones ...

Delineation of fresh/saline groundwater is essential for

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sustainable water quality management, especially in the coastal areas all around the globe. Seawater intrusion causes substantial degradation in quality of freshwater resources in the coastal areas. The main reason for saltwater intrusion is the changing environment in terms of sea-level rise, climate change, and over-extraction of ...

Assessment of Groundwater Resources in Coastal Areas of ...

In coastal areas, large withdrawals of groundwater can cause salt water intrusion. It is important that water withdrawal be closely managed in order to sustain fracture treatment activities. Regulatory agencies have (and in some cases are in the process of developing) guidelines that are protective of the groundwater.

Salt Water Intrusion - an overview | ScienceDirect Topics

Causes - Local Increase Consumption of Water Increase in fresh

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water demand (groundwater and surface water) Pumping Increase in fresh water demand and longer duration of pumping from an aquifer increases the potential for drawing in salt water along coastal aquifers

Salt Water Intrusion in Coastal Aquifers

1 Introduction. Seawater intrusion is a global phenomenon occurring in many coastal aquifers (van Weert et al., 2009; Werner et al., 2013). Reduction in recharge to aquifers and/or the abstraction of groundwater decreases the freshwater hydraulic head and can result in the saline front advancing inland toward abstraction boreholes (van Weert et al., 2009).

Remote Detection of Saline Intrusion in a Coastal Aquifer

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Pumping - coastal aquifer subject to saline intrusion - non saline. The effects of pumping in a coastal aquifer subject to a saline

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intrusion at increasing rates of abstraction without the abstracted water becoming saline. Download all images and text . Pumping - coastal aquifer subject to saline intrusion - saline

Saline Intrusion - Geological Survey of Ireland

Saltwater intrusion has occurred to some degree in many of the coastal aquifers of the United States. Since saltwater cannot be used to irrigate crops or be consumed by people, saltwater intrusion can be very problematic to coastal communities that rely on fresh groundwater supplies for the livelihood.

Saltwater Intrusion - USGS

Saltwater intrusion can happen in two cases: Lateral intrusion of sea water because of overpumping from the wells Deeper saline water movement due to to upconing near coastal wells. To prevent saltwater intrusion, some of the rules for well drilling should be followed: Well location – at least 50 m from the coast

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Well depth - avoid deep wells close to the coast.

Seawater Intrusion and How to Prevent It - The Water ...

SALine INtrusion in coastal Aquifers (SALINA): ... groundwater can play a vital role in meeting this need. Where too much water is extracted, saltwater can enter water supplies in a process called saline intrusion (SI).

SALine INtrusion in coastal Aquifers (SALINA ...

Adaptation to saline intrusion of the groundwater in the coastal area of Vĩnh Châu Author: Joep Hagenvoort Subject: Adaptation to saline intrusion Cooperation: Can Tho University and Van Hall Larenstein University of Applied Sciences Date: 3th of July 2013, Can Tho Version: Final

Adaptation to saline intrusion of the groundwater in the

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