



**Ardona for
Research & Studies**

Our Earth



**أرضنا
للبحوث والدراسات**

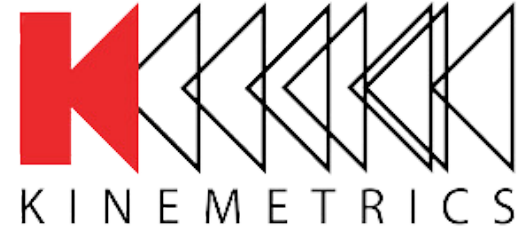
عن أرضنا

يقدم مكتب أرضنا خدمات استشارية جيولوجية وجيوفيزيائية وجيوتقنية وبيئية احترافية بالإضافة الى نمذجة ومحاكاة للمشاكل الجيولوجية. يمتلك المكتب تقنيات بحثية متخصصة وبرامج حاسوبية مطورة لمعالجة وتفسير المعطيات الجيولوجية والجيوفيزيائية المعقدة ويفتخر المكتب بفريقه العلمي المتميز من ذوي الخبرة العالية من حملة الدكتوراه في الجيولوجيا والجيوفيزياء والذي أشرف وانجز العديد من المشاريع التنموية خلال الأربعين سنة الماضية. علاوة على ذلك يتضامن المكتب مع كل من الكيانات الموضحة أدناه:



ABOUT ARDONA

Ardonna office provides professional geological, geophysical, geotechnical and environmental advisory services as well as modeling, simulation and solutions to geological problems. Our office has specialized research techniques and developed computer software to process and interpret complex geological and geophysical data. Ardonna office is proud of its distinguished scientific team of highly experienced Ph.D holders in Geology & Geophysics who have supervised and achieved several research projects during the past forty years Moreover, Ardonna Office has alliances with the following entities shown below :



تزويد القطاع العام والخاص والأفراد بخدمات جيولوجية وجيوفيزيائية وبيئية متطورة وعالية الجودة وجديرة بالثقة.



OUR VISION

Seeks to provide public and private sectors as well as individuals with advanced, high-quality and trustworthy geological, geophysical and environmental services.



مهمتنا

المحافظة على أعلى مستوى من النزاهة المهنية من خلال تقديم خدمات عالية الجودة والاحترام المتبادل والخيارات الاقتصادية والتقنية, والتعامل مع العقود في الوقت المناسب بموثوقية ومصداقية .

OUR MISSION

Maintaining the highest level of professional integrity by providing high quality services and mutual respect, economic and technical options, as well as handling contracts in a timely manner with reliability and credibility.

خدماتنا



- تقييم مستوى الخطر الزلزالي والنطق الزلزالية الدقيقة
- وضع مواصفات المباني المقاومة للزلازل طبقا لكود البناء السعودي
- دراسة مستوى النشاط الزلزالي والحركي
- مراقبة الأنشطة الاشعاعية و النووية
- حلول المشاكل الجيوتقنية للتربة



- الكشف عن مكامن الطبقات الحاملة للمياه
- عمل النماذج ثلاثية الابعاد للمياه الجوفية
- الاشراف على حفر الابار السطحية والعميقة ووضع مواصفاتها وتنميتها
- رسم وتحليل الخرائط الجيولوجية والكهرومغناطيسية
- سبر الابار وتفسيرها



- دراسات الجدوى الاقتصادية للمناجم والمحاجر
- إعداد خطط الاغلاق واعادة التاهيل للمواقع التعدينية
- إعداد خطط الأثر البيئي والمجتمعي للرخص التعدينية
- تحديد مواقع الكهوف والفجوات تحت سطحية
- تحليل المعطيات السيزمية والزلزالية
- دراسة مخاطر السدود

ARDONA SERVICES



- Locating subsurface cavities.
- Analysis of seismological & earthquake data .
- Solving soil geotechnical problems .
- Solving environmental hazards .
- Locating water-bearing layers .
- 3-D groundwater modelling.



- Supervising drilling of surface and deep wells, setting their specifications and developing .
- Surveying and Detection of mineral and mining ores .
- Probing and interpreting wells logs .
- Dams risks assessment studies .



- Assessment of Seismic hazard and microzonation.
- Setting specifications for earthquake-resistant buildings according to the Saudi Building Code .
- Investigation of seismicity and tectonic activities .
- Monitoring of radiation and nuclear activities .



OUR RESEARCH PROJECTS

Project 1

Groundwater resources evaluation of Wadi Ranyah area, Central Saudi Arabia, Ministry of Defense and Aviation.

Project 3

An investigation of the geophysical and hydrogeological characteristics of the NW part of AL-Madinah area. King Abdulaziz City for Science and Technology(AR-5-15).

Project 5

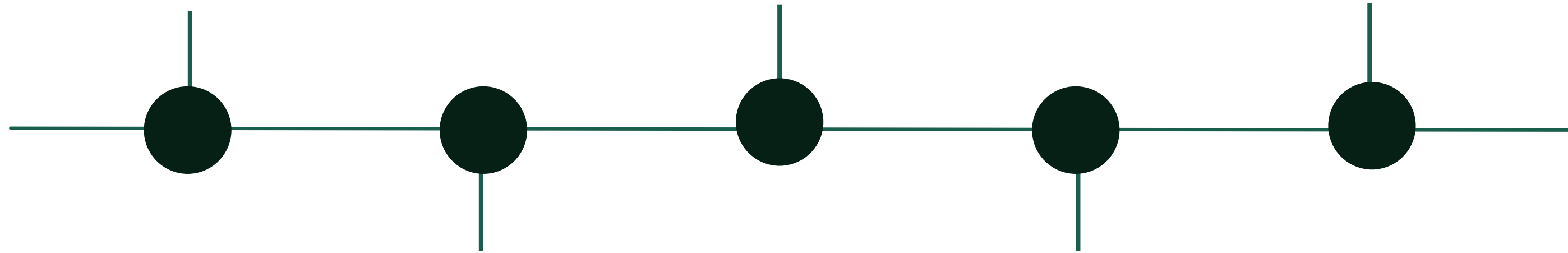
Natural Purification and the removal of pollutants, A case study of Wadi Hanifah, Riyadh region, King Saud University (DSR-68).

Project 2

The geophysical and hydrogeological characteristics of Wadi Damad, Sabya, and Nakhlan, southern Red Sea coast. Ministry of Agriculture.

Project 4

Groundwater Investigation of AL-Madinah area, NW Saudi Arabia, King Abdulaziz City for Science and Technology.





OUR RESEARCH PROJECTS

Project 6

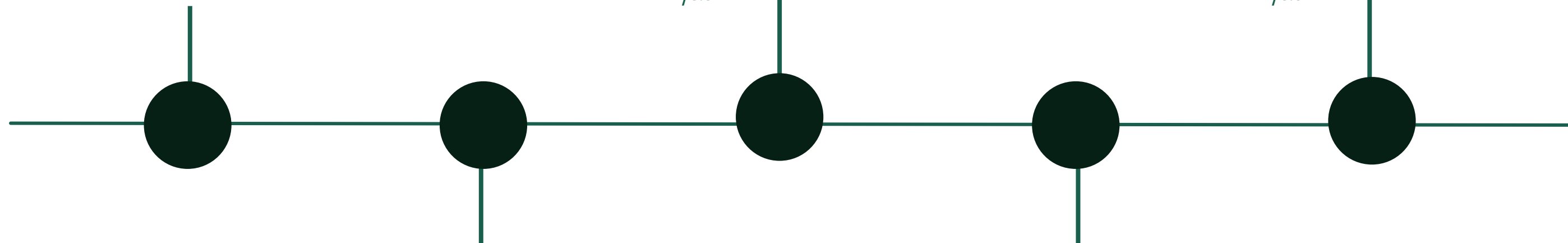
Groundwater Potentiality in Shaiba AL-Haysiyah, NW Riyadh, Ministry OF Agriculture.

Project 8

Hydrogeological And Environmental Evaluation of Tayma area-Tabuk. RAE consultancy for Environmental Services, Riyadh.

Project 10

Hydrogeological and Environmental Evaluation of Turaif –Northern Saudi Arabia. RAE consultancy for Environmental Services, Riyadh.



Project 7

Hydrogeological And Environmental Evaluation of Al-Ardah, Jizan area. RAE consultancy for Environmental Services, Riyadh.

Project 9

Hydrogeological And Environmental Evaluation of Al-Majmaah area, RAE consultancy for Environmental Services, Riyadh





OUR RESEARCH PROJECTS

Project 11

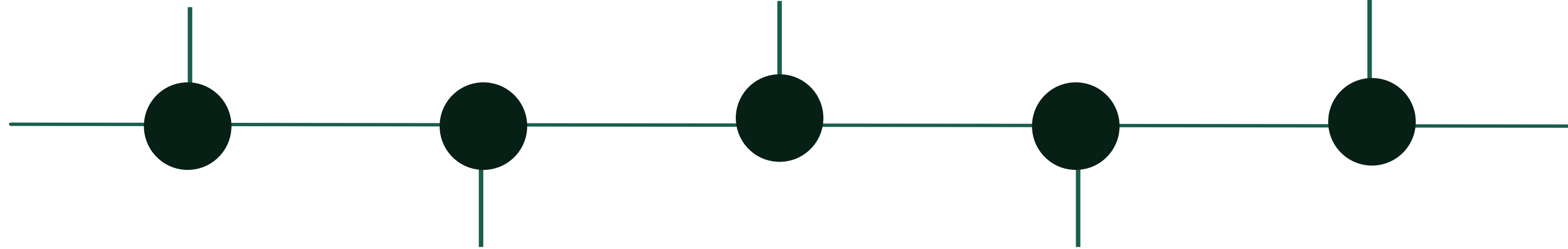
Groundwater Potentiality in Wadi Malakan_makkah area. Dept. of Geology, King Saud University, Riyadh

Project 13

Groundwater Investigation at Royal Commission for Jubail and Yanbu Site, West Riyadh, for AL-Mashrik Company.

Project 15

Environmental Impact Study for Project of AL-Ruya Company Fertilizer Manufacturing, industrial area, Riyadh.



Project 12

Groundwater Potentiality in Wadi Malakan_makkah area. Dept. of Geology, King Saud University, Riyadh

Project 14

Supervision of Drilling Deep Well and Construction for Durrat Ar riaydh project, North Riyadh.



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OUR RESEARCH PROJECTS

Project 16

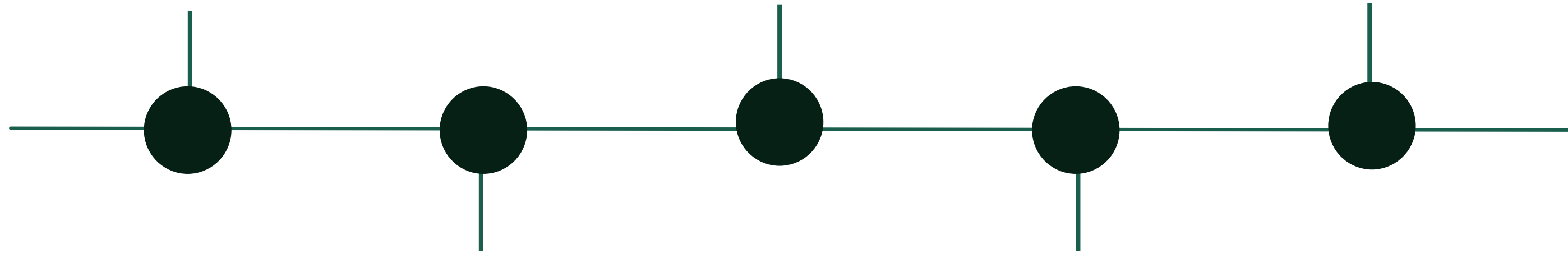
Supervision and Development of Minjorian well For HHR Turki Bin Naser Palace.

Project 18

Groundwater Exploration at King Saud Univ. for Binladen Company.

Project 20

Environmental Impact Study for Abdul Aziz O. Al Omran Co., As Sulay, Riyadh.



Project 17

Geophysical Surveying for ALOhadiyah Company for Development plan of King Abdullah Road.

Project 19

Environmental Impact Study for Al-Ahli Leather Factory Co.Ltd., Second Industrial area, Riyadh.





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OUR RESEARCH PROJECTS

Project 21

Environmental Impact Study for Al-Khafrah Industrial Gases, Second Industrial area, Riyadh.

Project 23

Environmental Impact Study for Arabian Tile Co.Ltd.-ARTIC, Second Industrial area, Riyadh.

Project 22

Environmental Impact Study for Khalid Factory for Tanning & Polishing, Hair area, Riyadh.

Project 24

Investigation of Asbestos in certain sites of Riyadh city.

LIST OF EQUIPMENTS AND DEVICES

1. Electric resistivity meter (ERT) electric imaging system.
2. Magnetotelluric adm1200sx 16 channel system.
1200m depth.
3. Magnetotelluric adm13000sx 32 channel system.
3000m depth.
4. Magnetotelluric system imaging admts500ax-16d.
500m depth.
5. Iris syscas1 pro instrument for groundwater investigations.
6. Borehole cctv camera control 600m and 1500m.
7. Flowmeter 6 inches water flow control.
8. Different tds and ph instruments for water quality control.
9. Water level meter tape 500m depth.

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PREVIOUS APPROVED PROJECT FROM ANOTHER CLIENT

- 1- Groundwater investigation survey for new wells AL MOAGEL COMP IN AL ULA Governorate near AL Ula Airport
- 2- Geophysical Surveying for Al Akaria Saudi Company for new estate project plan of Dammam Road.
- 3- Drilling supervision for digging 5 wells in Dammam Road for Al Akaria Saudi Company.
- 4- Geophysical Surveying for Chinese Company in AL Nabhania for new well project to product 400m cubic meter per day.



CONCLUSION

Diverse Opportunities in Various Industries

One of the most appealing aspects of a career in geology is the diverse range of industries and sectors that require the expertise of geologists. From the energy sector to environmental consulting, geologists can find job opportunities in both the public and private sectors. Some of the major industries that employ geologists include: Oil, gas, and mining: Geologists play a vital role in the exploration and extraction of valuable resources such as oil, natural gas, and minerals. They help to locate new deposits, assess their economic viability, and develop extraction methods that minimize environmental impacts. Environmental consulting: Geologists often work as environmental consultants, helping to assess the impact of human activities on the environment, develop remediation strategies for contaminated sites, and provide guidance on sustainable land use practices. Government and regulatory agencies: Geologists can work for government agencies such as Geological Survey Environmental Protection Agency and state geological surveys, where they conduct research, collect data, and develop policies to manage natural resources and mitigate geological hazards. Education and research: Geologists also have the opportunity to work in academia, teaching the next generation of geoscientists and conducting research to advance our understanding of Earth's processes.



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