

# KGS Earth Analysis Research Library

**Earth Analysis Research Library, or EARL,** is the largest and most comprehensive public research repository of solid geological samples in Kentucky. These samples provide the best available information for ground-truth observation of Kentucky's subsurface. Examination and understanding of these materials can provide critical and cost-saving insights for energy exploration, environmental management, geotechnical investigation, hydrologic assessment, and geologic research.



## Overview of Collections (September 2019)

- 2,870 Rock cores**
  - A continuous record of the subsurface rock through a specified interval
- 16,609 Well sample sets from oil and gas wells**
  - Fragments of rock produced during drilling
- 8,129 Limestone samples**
  - Hand specimens and powdered samples
- 5,210 Coal samples**
  - Coal quality and palynology samples from Center for Applied Energy Research and Kentucky Geological Survey
- 1,196 Soil/sediment auger samples**
  - Selected samples from 1960–1978 U.S. Geological Survey-KGS mapping program in Jackson Purchase Region

**KGS-EARL is the commonwealth's primary public research and education center for the examination and understanding of Kentucky earth materials.**

## Facility Capabilities (September 2019)

- Sample viewing (climate controlled)
- Core photography and digital microphotography
- Microscopy (transmitted and dissecting scopes)
- Core plugs (3/4 and 1 inch)
- Rock cutting, splitting, polishing
- Sediment smear slides
- Workshops (classroom or core programs)
- Robust digital communication infrastructure
- Supporting student and professional field trips
- Free guest Wi-Fi
- Document library related to collections
- Document scanning
- Microfilm and microfiche readers



- In support of the land-grant mission of the University of Kentucky, the various collections are available for review and research by academia, industry, government, and the general public.
- EARL collections may be sampled for specific research, with approval.
- Specific guidelines and more information are available via the website.



## KGS Earth Analysis Research Library

2500 Research Park Drive

Lexington, KY 40511

**Phone:** 859-389-8810

**Website:** [www.uky.edu/KGS/EARL](http://www.uky.edu/KGS/EARL)

**Open to the public Monday-Friday, 8:00 a.m.-4:30 p.m.  
Appointments preferred.**