
NEWS RELEASE

**Cliffs Natural Resources Inc. Appoints William C. Boor
Senior Vice President—President, Ferroalloys**

CLEVELAND – May 20, 2010 – Cliffs Natural Resources Inc. (**NYSE: CLF**) (**Paris: CLF**) today announced the appointment of William C. Boor, former senior vice president—Business Development, to the newly created position of senior vice president—president, Ferroalloys. Effective immediately, Mr. Boor will be responsible for all aspects of furthering Cliffs' strategic position in the ferroalloys industry, including the formation of a management team for the business unit and advancing the development of Cliffs' chromite deposits in northern Ontario, Canada.

Joseph Carrabba, Cliffs' president, chairman and chief executive officer, commented, "Our entry into ferroalloys is an exciting new chapter in our Company's history and will require a keen management focus as we move forward to execution. Under Bill's leadership, Cliffs will be able to apply its expertise in open-pit mining and mineral processing to maximize the effectiveness of what we believe to be a world-class deposit with a long life and significant expansion potential."

Since joining the Company in 2007, Mr. Boor has led the build-out of Cliffs' Business Development organization and processes. He holds a B.S. in Chemical Engineering from Pennsylvania State University and an MBA from Harvard Business School.

Cliffs indicated that while the search for a business development executive is conducted, its business development group will be led by Laurie Brlas, executive vice president and chief financial officer.

To be added to Cliffs Natural Resources' e-mail distribution list, please click on the link below:
<http://www.cpg-llc.com/clearsite/clf/emailoptin.html>.

ABOUT CLIFFS NATURAL RESOURCES INC.

Cliffs Natural Resources Inc. is an international mining and natural resources company. A member of the S&P 500 Index, we are the largest producer of iron ore pellets in North America, a major supplier of direct-shipping lump and fines iron ore out of Australia and a significant producer of metallurgical coal. With core values of environmental and capital stewardship, our colleagues across the globe endeavor to provide all stakeholders operating and financial

transparency as embodied in the Global Reporting Initiative (GRI) framework. Our Company is organized through three geographic business units:

The North American business unit is comprised of six iron ore mines owned or managed in Michigan, Minnesota and Canada and two coking coal mining complexes located in West Virginia and Alabama. The Asia Pacific business unit is comprised of two iron ore mining complexes in Western Australia and a 45% economic interest in a coking and thermal coal mine in Queensland, Australia. The Latin America business unit includes a 30% interest in the Amapá Project, an iron ore project in the state of Amapá in Brazil.

Other projects under development include a biomass production plant in Michigan and Ring of Fire chromite properties in Ontario, Canada. Over recent years, Cliffs has been executing a strategy designed to achieve scale in the mining industry and focused on serving the world's largest and fastest growing steel markets.

News releases and other information on the Company are available on the Internet at:

<http://www.cliffsnaturalresources.com> or
www.cliffsnaturalresources.com/Investors/Pages/default.aspx?b=1041&1=1.

Follow Cliffs on Twitter at: <http://twitter.com/CliffsIR>.

SOURCE: Cliffs Natural Resources Inc.

INVESTOR AND FINANCIAL MEDIA CONTACTS:

Steve Baisden
Director, Investor Relations and Corporate Communications
(216) 694-5280
steve.baisden@cliffsnr.com

Christine Dresch
Manager – Corporate Communications
(216) 694-4052
christine.dresch@cliffsnr.com

Jessica Moran
Sr. Investor Relations Analyst
(216) 694-6532
Jessica.moran@cliffsnr.com

#