

PROJECT PROFILE

**Johnson Space Center
Building 207A**
Houston, Texas

LEED for New Construction

20.4% Less energy

34% Reduced Potable Water Usage

44% Recycled Content

50% Tradable Renewable Certificates

84.4% Waste diverted from landfills

91.5% Regional Materials

**Gilruth
Fields**

LEED® Facts

NASA Johnson Space Center
Building 207A
Houston, TX

LEED for New Construction version 2.1 -
Certification Awarded July, 2009

Silver **33***

Sustainable Sites 5/14

Water Efficiency 4/5

Energy & Atmosphere 5/17

Materials & Resources 7/13

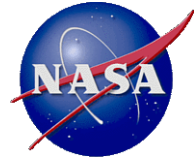
Indoor Environmental Quality 7/15

Innovation & Design 5/5

*Out of a possible 69 points

PROJECT PROFILE

NASA Johnson Space Center – Building 207A Maintaining and Supplying the FUN – JSC’s Gilruth Fields Concession Stand



PROJECT DESCRIPTION

The Gilruth Center is officially part of the NASA Johnson Space Center. The Gilruth Center facility is a multi-use recreation and conference facility, and is used for a wide variety of services, programs, and events which enhance the morale and welfare of all JSC civil service and contractor employees, authorized visitors, as well as the local community NASA JSC Building 207A is one of buildings within The Gilruth Center facility. It serves as a maintenance building and concessions stand for the Gilruth Fields.

SUSTAINABLE SITES (5/14)

Building 207A has provided bicycle storage and shower facilities for at least 5% of the building occupants. It also states that shower facilities are 23 yards from the building entrance. No new parking spaces have been created, and the existing parking has been updated to include designated preferred carpool/vanpool parking for more than 5% of the building occupants. The project has implemented a stormwater management plan that results in no net increase in runoff rate and quantity from calculated pre-project conditions, for a 1.5 year, 24 hour peak discharge. 100% of the total roof area consists of an Energy Star rated roofing material with emissivity of at least 0.9.

WATER EFFICIENCY (4/5)

Native/drought-tolerant plants have been installed on the site, only requiring watering during the initial plant establishment period. The project has reduced potable water use by 34% from a calculated baseline design through the installation of low-flow urinals, dual-flush water closets, low-flow lavatories and a low-flow kitchen sink.

ENERGY & ATMOSPHERE (5/17)

The project performs 20.4% better than ASHRAE 90.1-1999 requirements using the LEED ECB method. Energy efficiency measures include reduced lighting power density and enthalpy energy recovery wheel. The project has a 2-year purchase agreement to procure 50% of the project's regulated annual electric energy for Renewable Energy Certificates equal to 50% of the project's regulated annual electric energy consumption that meets the Green-E definition for renewable power.

MATERIALS & RESOURCES (7/13)

The project has diverted 20.3 tons (84.4%) of on-site generated construction waste from landfill. 44% of the total building materials content, by value, have been manufactured using recycled materials. 91.48% of the total building materials have been manufactured within 500 miles of the project site.

INDOOR ENVIRONMENTAL QUALITY (7/15)

Low emitting adhesives, sealants, paints, coatings, and carpets used in construction comply with VOC limits.

INNOVATION IN DESIGN (5/5)

The project received exemplary performance for its innovation in use of recycled materials (44%), use of regional materials (91.27%), and use of Tradable Renewable Certificates.

“The Gilruth Fields are used by numerous JSC employees to play ball season after season. It’s a great way to promote camaraderie and wellness among our employees.”

Laurie Peterson,
JSC Sustainability Champion



Owner: NASA, Johnson Space Center
Architect: PDG Architects
Structural Engineer: Paul Wottring & Associates
MEP Engineer: Thompson Engineering
Commissioning Authority: Page Sutherland Page
Contractor: LMC
Project Size: 5,737 SF
Project Cost: \$1,779,341
Completion: May 2008
Photography: NASA

ABOUT LEED

The LEED Green Building Rating System is the national benchmark for the design, construction, and operations of high-performance green buildings. Visit the U.S. Green Building Council's Web site at www.usgbc.org and the TX Gulf Coast Chapter of USGBC at www.usgbctexasgulfcoast.org to learn more about how you can make LEED work for you.