

**MILAN BELTWAY, GREEN ROCK
WETLAND COMPENSATION SITE**

ISGS #44

FAU 5822

Sequence #67

Henry County, near Green Rock, Illinois

Primary Project Manager: Steven E. Benton

Secondary Project Manager: not assigned

SITE HISTORY

- December 2005: IDOT tasked the ISGS to conduct 5-year performance monitoring of the Green Rock wetland mitigation site.
- March 2006: The monitoring network was installed.

WETLAND HYDROLOGY CALCULATION FOR 2006

The area of the site that satisfied wetland hydrology criteria (Environmental Laboratory 1987) for more than 5% of the 2006 growing season was estimated to be 0.0 ha (0.0 ac) out of an area of 25.1 ha (62.0 ac). The area that satisfied wetland hydrology criteria for more than 12.5% of the growing season was estimated to be 0.0 ha (0.0 ac). These estimates are based on the following factors:

- According to the Midwestern Climate Center, the median date that the growing season begins at the Quad City International Airport in nearby Moline, Illinois, is April 13 and the season lasts 196 days; 5% of the growing season is 10 days and 12.5% of the growing season is 25 days.
- Total precipitation during the monitoring period was 33.71 inches, which was 89% of normal. Five months during the period (January, March, April, July, and August 2006) were at or above normal. Total precipitation in the spring was 77% of normal.
- Water levels in none of the monitoring wells satisfied wetland hydrology criteria for either 5% or 12.5% of the growing season.
- Ground-surface elevations measured at the site mostly ranged from 172.7 m(566.6 ft) to 172.9 m (567.3 ft). The highest elevation measured, 173.7 m (569.9 ft), was at the top of the natural levee near well 3S. The Green River did not get high enough to inundate the site.

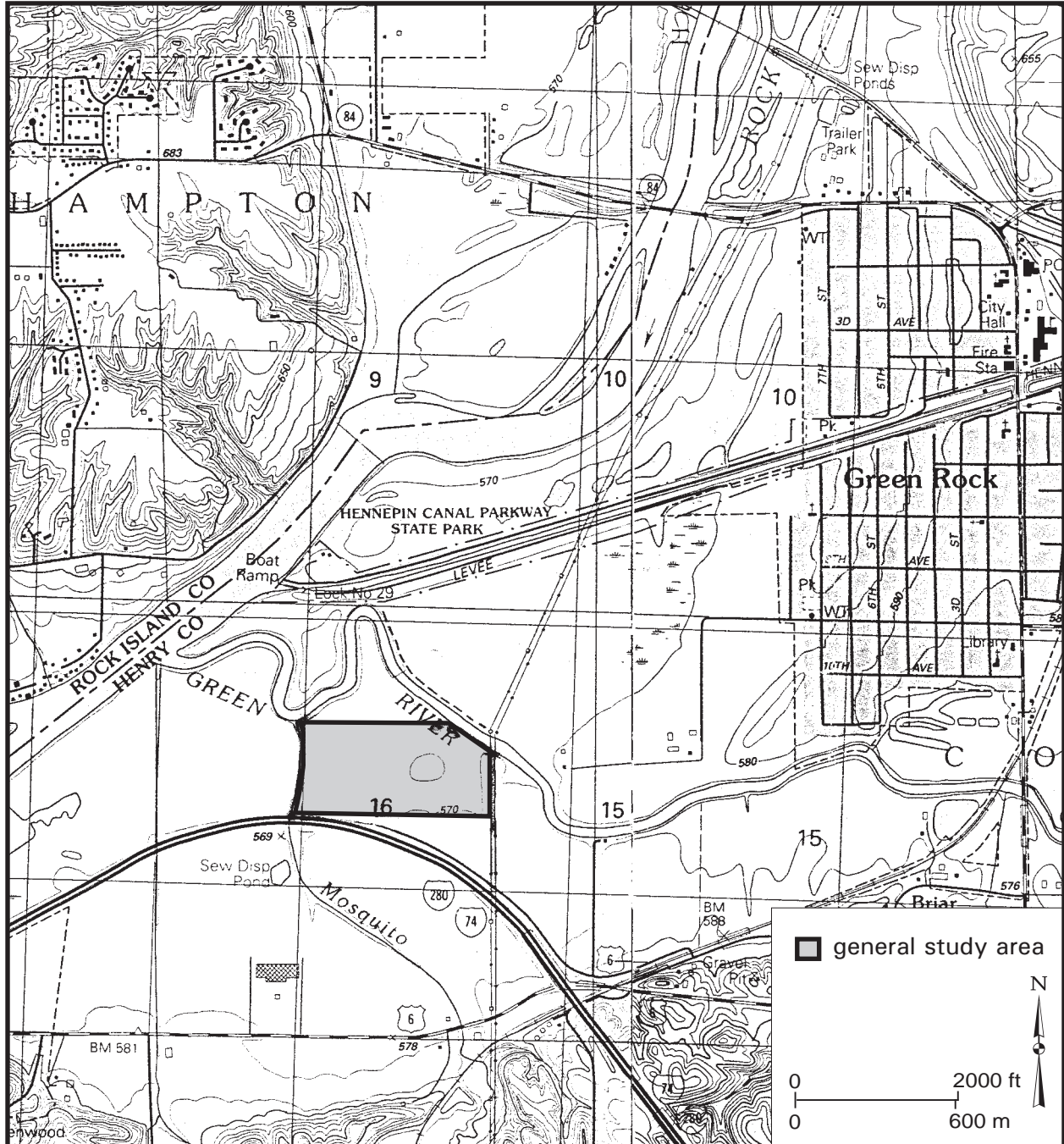
PLANNED FUTURE ACTIVITIES

- Monitoring of the site will continue until notified otherwise by IDOT.

Milan Beltway, Green Rock Potential Wetland Compensation Site (FAU 5822)

General Study Area and Vicinity

from the USGS Topographic Series, Coal Valley, IL (W) (USGS 1991) and
Green Rock, IL (E) (USGS 1992) 7.5-minute Quadrangles
contour interval is 10 feet

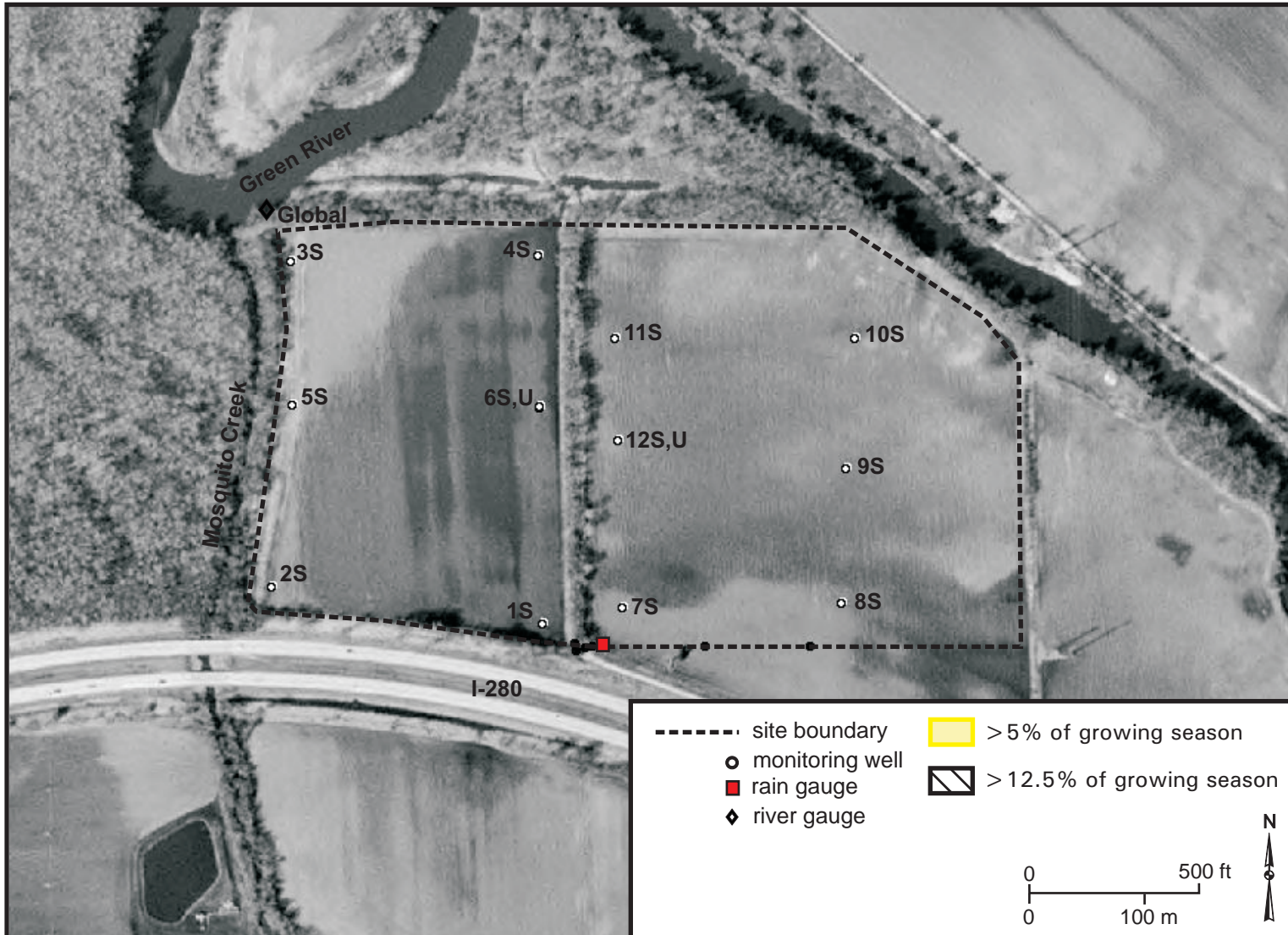


Milan Beltway, Green Rock Wetland Compensation Site (FAU 5822)

Estimated Areal Extent of 2006 Wetland Hydrology

based on data collected between September 1, 2005 and September 1, 2006

Map based on USGS digital orthophotograph, Coal Valley NE quarter quadrangle
produced from 4/14/98 aerial photography (ISGS 2006)

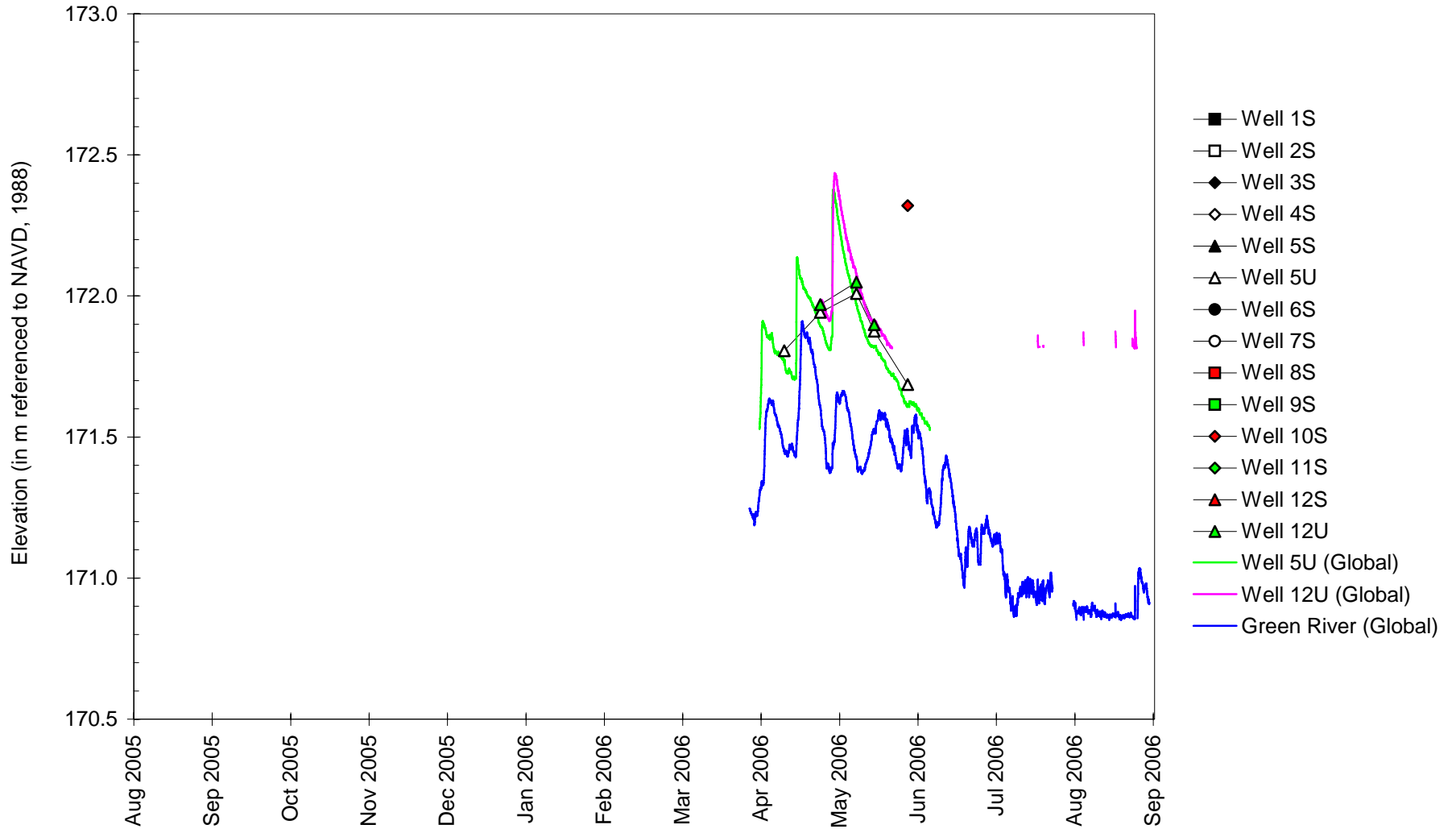


Green Rock Wetland Compensation Site

September 1, 2005 to September 1, 2006

Water-Level Elevations

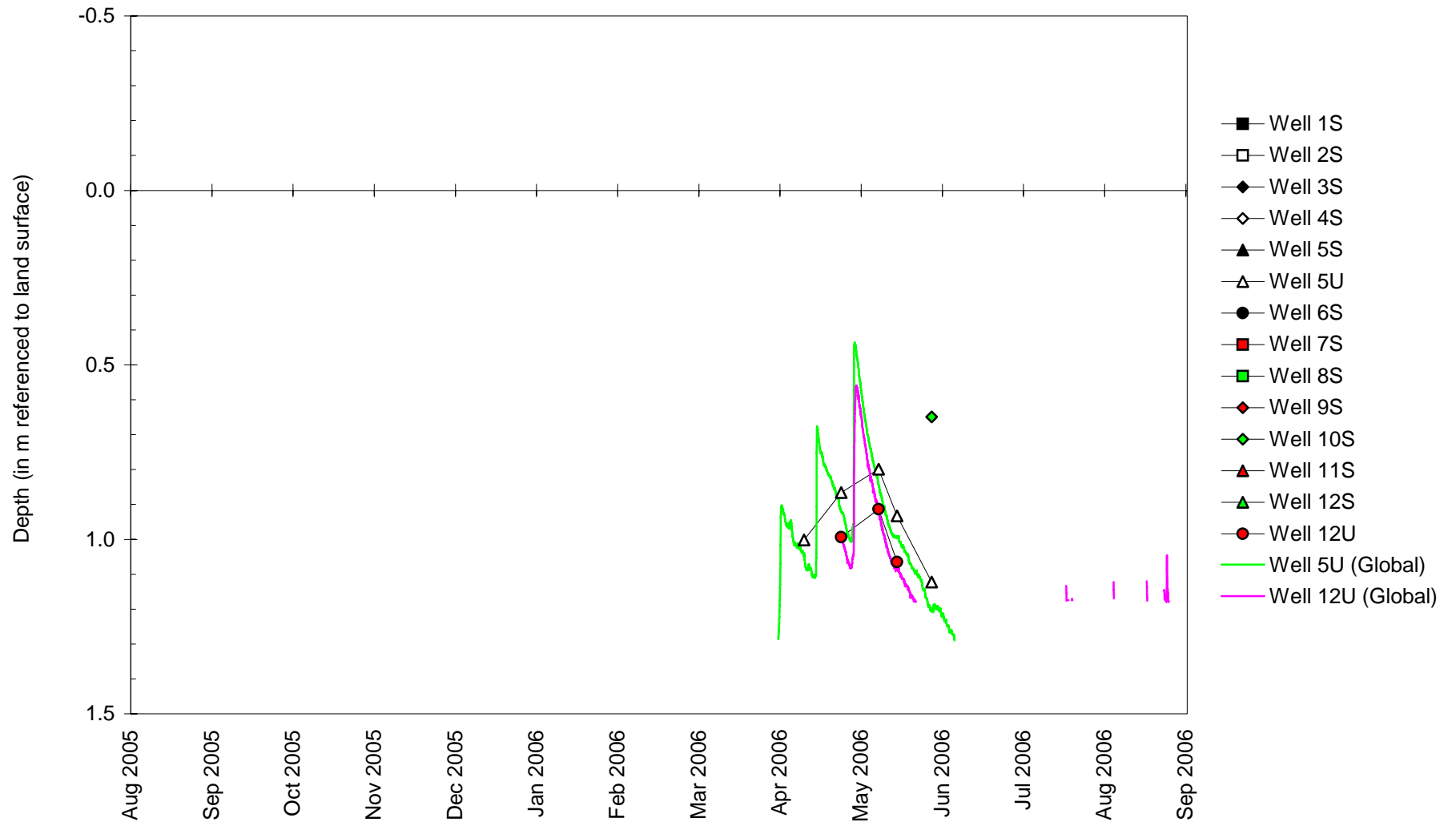
45



Green Rock Wetland Compensation Site

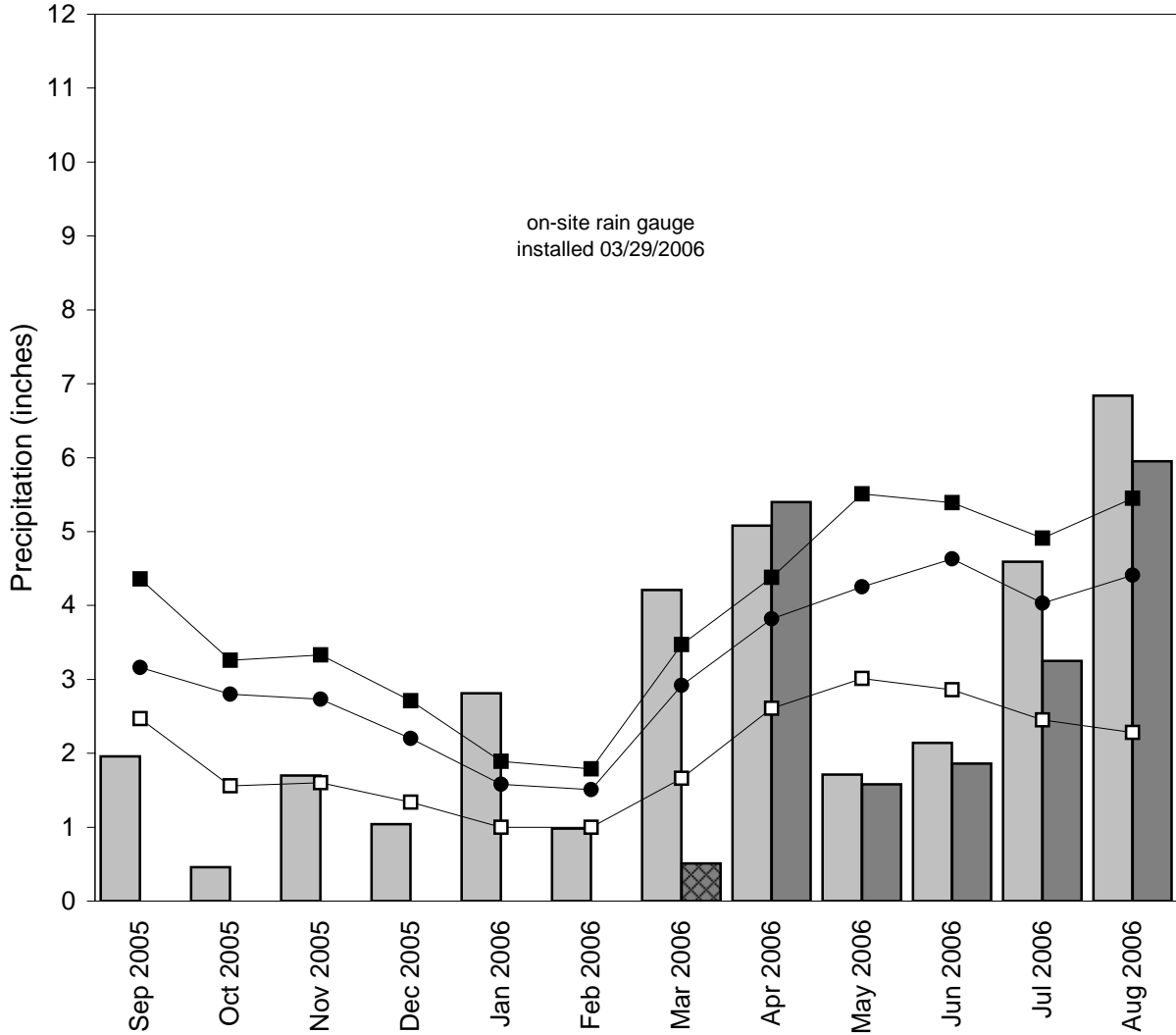
September 1, 2005 to September 1, 2006

Depth to Water



Green Rock Wetland Compensation Site September 2005 through August 2006

Total Monthly Precipitation Recorded On Site and at the Quad City International Airport Weather Station, Moline, IL



- monthly precipitation recorded at weather station (Midwestern Regional Climate Center)
- monthly precipitation recorded on site by ISGS
- 1971-2000 monthly average precipitation (National Water and Climate Center)
- 1971-2000 monthly 30% above average threshold (National Water and Climate Center)
- 1971-2000 monthly 30% below average threshold (National Water and Climate Center)
- data incomplete

Graph last updated October 13, 2006