

**FORMER LUEHMANN PROPERTY, NEW RIVER CROSSING  
POTENTIAL WETLAND MITIGATION SITE**

**ISGS #51**

FAP 999

Sequence #33

Madison County, near Stallings, Illinois

**Primary Project Manager: Steven E. Benton**

**Secondary Project Manager: Charles W. Knight**

#### SITE HISTORY

- February 2000: The ISGS was tasked to perform a Level II hydrogeologic assessment of the site.
- May 2003: A Level II hydrogeological characterization report was submitted to IDOT (ISGS Open-File Series 2003–09).
- June 2003: IDOT requested the suspension of groundwater monitoring.
- July 2010: IDOT requested that all monitoring at this site be ended.

#### SUMMARY OF 2010 EVENTS

The total area of the site is 27.5 ha (68.0 ac). Because monitoring was suspended at this site, an estimate of the area satisfying the criteria for wetland hydrology was not prepared for this report.

- According to the MRCC, the median date that the growing season begins in nearby Belleville, Illinois, is April 6 and the season lasts 199 days; 5% of the growing season is 10 days and 12.5% of the growing season is 25 days. No starting date for the growing season using methods outlined in the 2010 Midwest Region supplement was determined for this site.
- Total precipitation recorded at Edwardsville, Illinois, weather station during the monitoring period was 152% of normal and precipitation in spring 2010 (March through May) was 93% of normal.
- Measurements in the Cahokia Canal indicate that the water level exceeded 126.8 m (416.0 ft) on 10 occasions during the 2010 growing season. This is the suggested elevation of an intake culvert described in the Level II Report (ISGS Open-File Series 2003–09).

#### PLANNED FUTURE ACTIVITIES

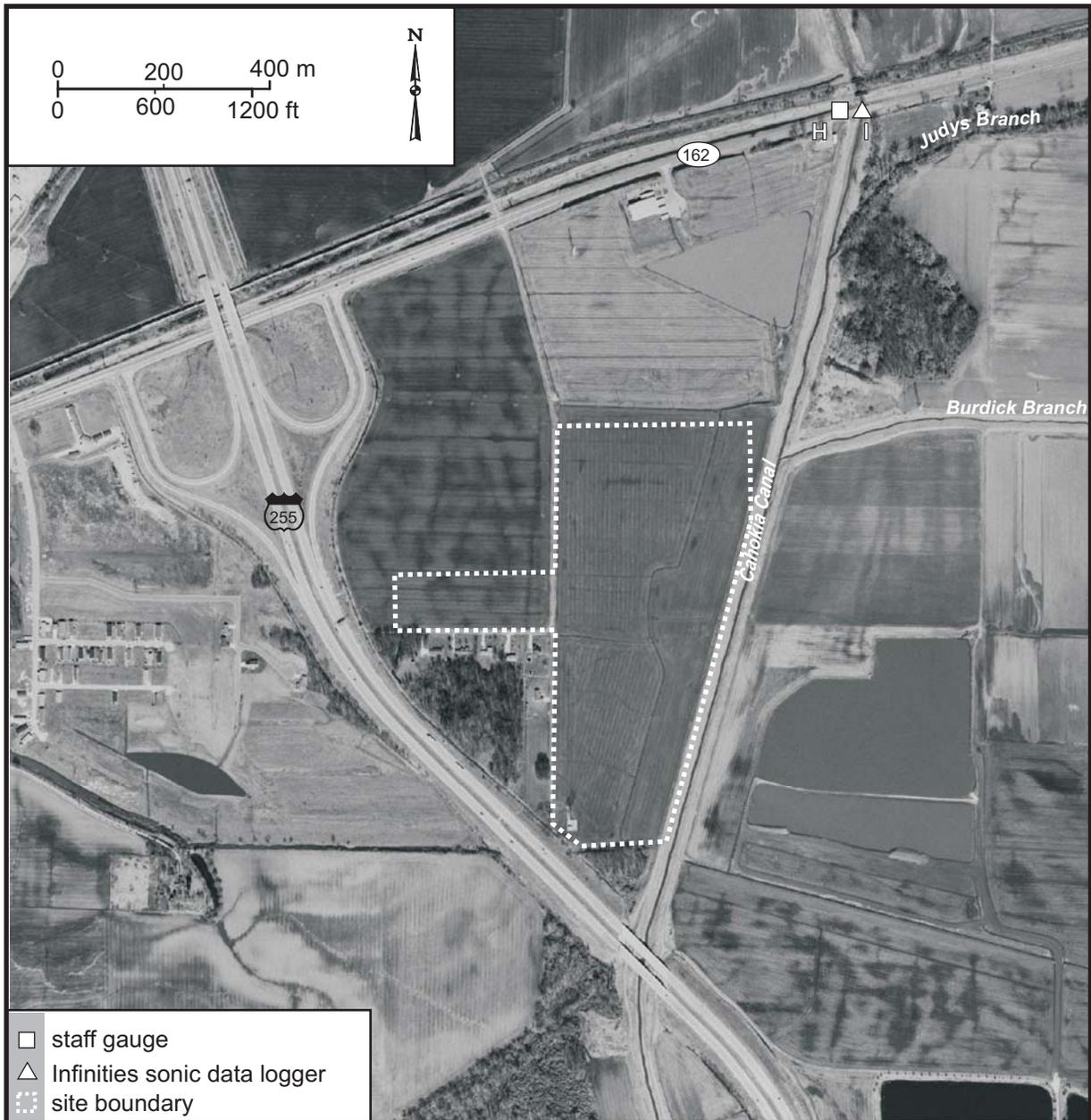
- All remaining elements of the monitoring network will be removed or properly abandoned in Fall 2010.



# Former Luehmann Property, New River Crossing Potential Wetland Mitigation Site (FAP 999)

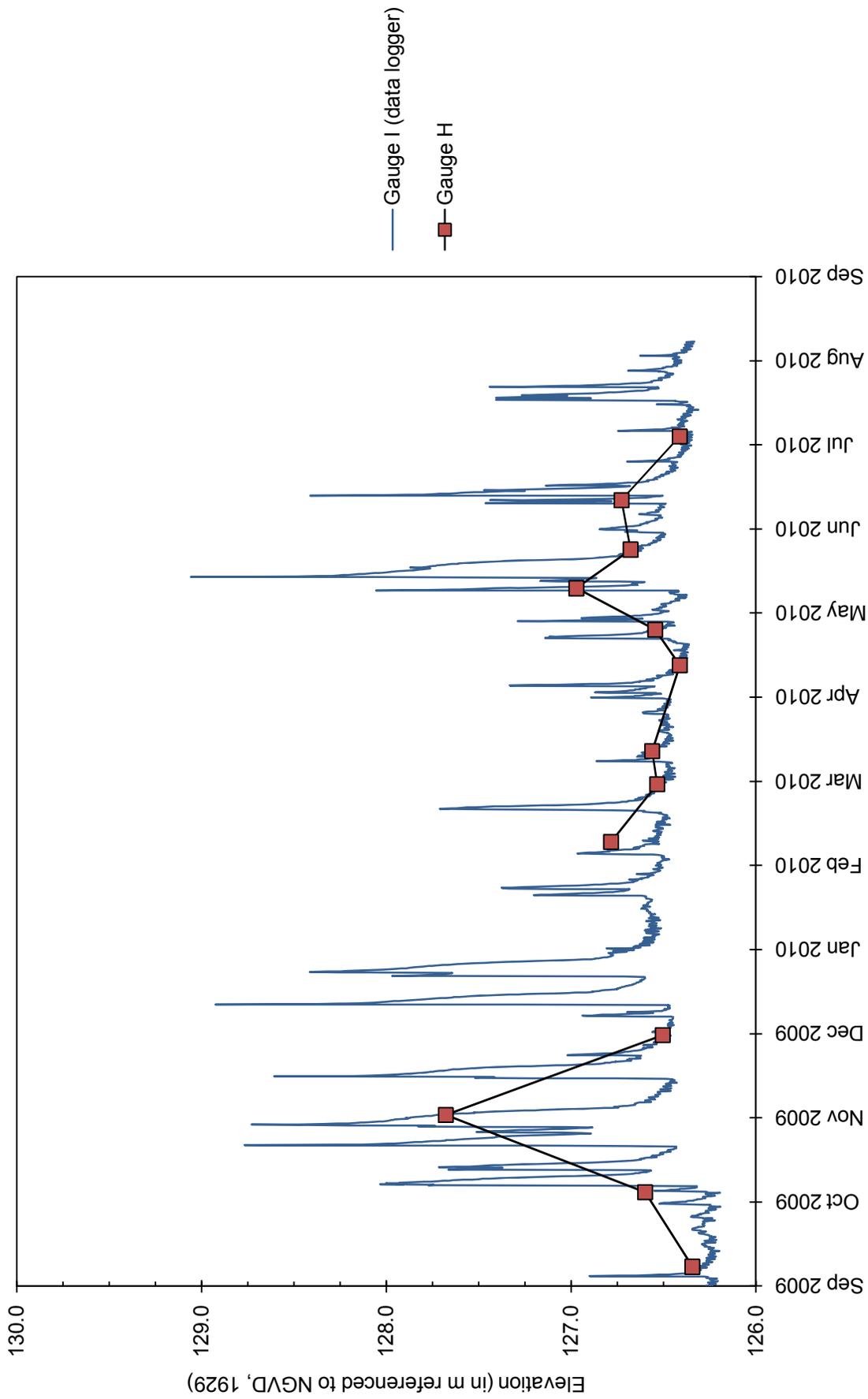
## Locations of ISGS Monitoring Instruments

Map based on USGS digital orthophotograph, Monks Mound NE quarter quadrangle  
produced from 2005 aerial photography (ISGS 2006)



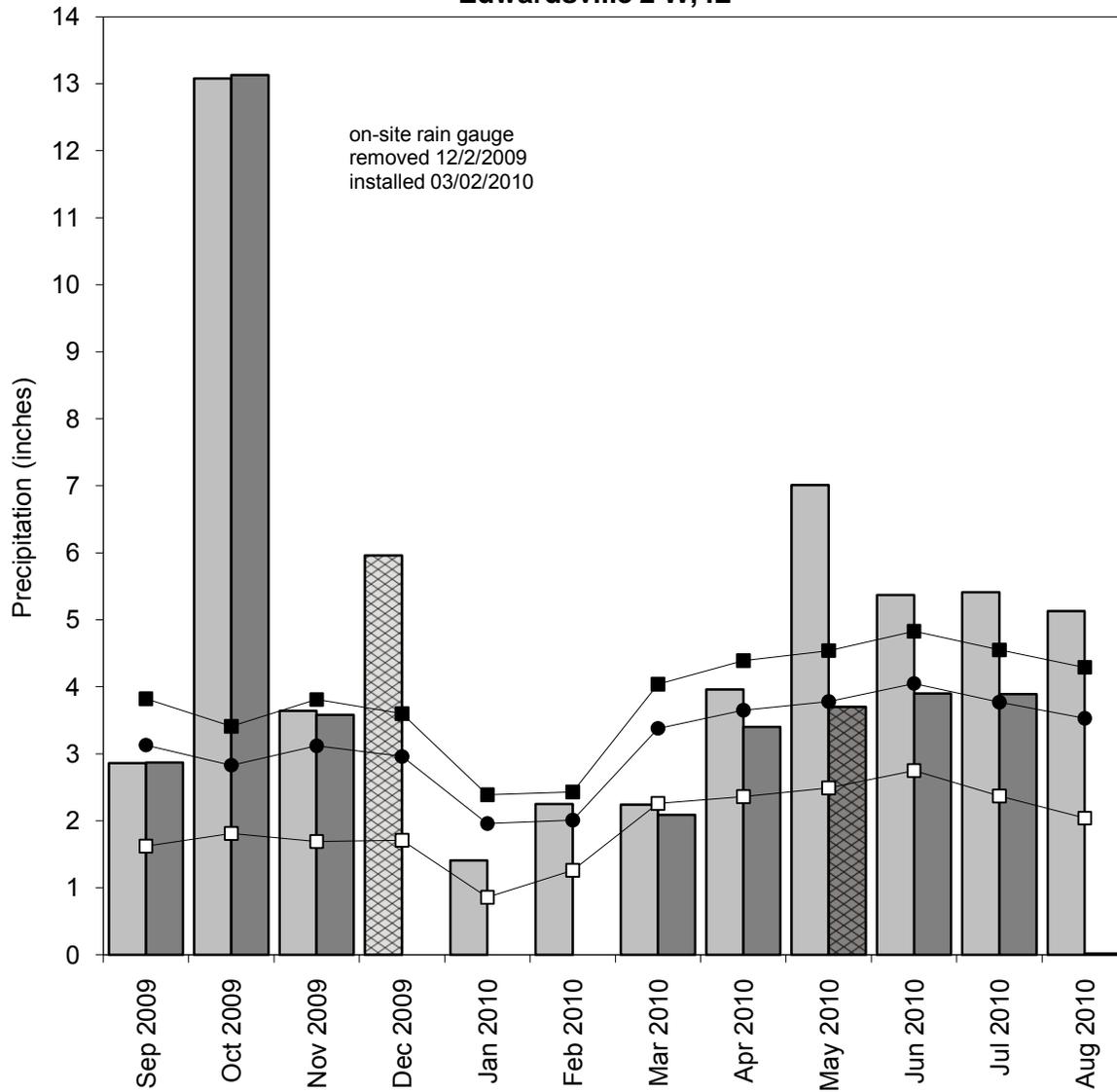
**Former Luehmann Property, New River Crossing Potential Wetland Mitigation Site**  
**September 1, 2009 through August 31, 2010**

**Water-Level Elevations at Staff Gauges and Surface-Water Data Loggers**



# Former Luehmann Property, New River Crossing Potential Wetland Mitigation Site September 2009 through August 2010

## Total Monthly Precipitation Recorded on Site and at Edwardsville 2 W, IL



- monthly precipitation recorded at Edwardsville, IL (MRCC)
- monthly precipitation recorded on site by ISGS
- data incomplete
- 1961-1990 monthly 30% above average threshold at Edwardsville, IL (NWCC)
- 1961-1990 monthly average precipitation at Edwardsville, IL (NWCC)
- 1961-1990 monthly 30% below average threshold at Edwardsville, IL (NWCC)

Graph last updated September 29, 2010