

88180001 INDIANA MISCELLANEOUS MEASUREMENTS

Undefined Basin

LOCATION.-- Lat 39°50'00", long 86°10'00" referenced to North American Datum of 1927, Marion County, IN, Hydrologic Unit is unknown, The Indiana Water Science Center has made the following special study and miscellaneous measurements across the state.

MISCELLANEOUS MEASUREMENTS MADE IN WY2013

STREAMS TRIBUTARY TO WABASH RIVER BASIN

The following measurements were made at Citizens Gas for the August Mac Environmental and Citizens Energy Group.

Drainage area 320 mi²

Fall Creek, 500 ft downstream of Martin Luther Bridge, Lat 39°47'53.45 Long 86°10'16.83":

11-20-2012: cross-section less than 2.26 ft deep, 1.42 ft/s, 178 cfs

03-04-2013: cross-section max depth 4.60 ft deep, 1.64 ft/s, 516 cfs.

Fall Creek 1700 ft downstream of Martin Luther Bridge, Lat 39°48'0.67" Long 86°10'29.3":

11-20-2012: cross-section less than 5.86 ft deep, 0.51 ft/s, 179 cfs

03-04-2013: cross-section max depth 6.89 ft deep, 1.29 ft/s, 520 cfs.

The following measurement was made near the Cinergy PSI's Cayuga power plant coolant water pumping station. Measurements were made to determine discharge at this non-recording gaging site. They were collected in cooperation with Cinergy PSI, through the Indiana Department of Natural Resources.

Drainage area: 10,004 mi²

8-30-2013 (2012 Water Year) Discharge 2,70 cfs

LOCATION - Brown Ditch at Central Ave. at Beverly Shores, Lat. 41°41'46.6", Long 86°56'39.9" referenced to North American Datum of 1927, Porter County, IN, Hydrologic Unit 04060200.

10-25-2012, Width: 7.60 ft, Area: 3.07 ft², Mean Velocity: 0.14 ft/s, Discharge: 0.44 cfs

11-14-2012, Width: 8.50 ft, Area: 9.20 ft², Mean Velocity: 0.05 ft/s, Discharge: 0.48 cfs

03-06-2013, Width: 10.0 ft, Area: 5.88 ft², Mean Velocity: 0.69 ft/s, Discharge: 4.04 cfs

03-27-2013, Width: 10.0 ft, Area: 5.94 ft², Mean Velocity: 0.30 ft/s, Discharge: 1.78 cfs

04-23-2013, Width: 9.70 ft, Area: 11.4 ft², Mean Velocity: 0.59 ft/s, Discharge: 6.78 cfs

06-26-2013, Width: 7.70 ft, Area: 14.9 ft², Mean Velocity: 4.52 ft/s, Discharge: 67.6 cfs

08-22-2013, Width: unknown, Area: unknown, Mean Velocity: unknown, Discharge: 0.02 cfs

08-27-2013, Width: 1.80 ft, Area: 0.16 ft², Mean Velocity: 0.17 ft/s, Discharge: 0.03 cfs

10-24-2013, Width: unknown, Area: unknown, Mean Velocity: unknown, Discharge: 0.01 cfs

88180001 INDIANA MISCELLANEOUS MEASUREMENTS—Continued

LOCATION - Brown Ditch at Carolina Ave. at Beverly Shores, Porter County, IN, Hydrologic Unit 04060200

10-25-2012, Width: 7.90 ft, Area: 4.68 ft², Mean Velocity: 0.10 ft/s, Discharge: 0.47 cfs

01-29-2013, Width: 10.5 ft, Area: 6.84 ft², Mean Velocity: 0.67 ft/s, Discharge: 4.55 cfs

03-27-2013, Width: 11.0 ft, Area: 10.2 ft², Mean Velocity: 0.31 ft/s, Discharge: 3.13 cfs

LOCATION - Derby Ditch at Inflow at Beverly Shores, Lat. 41°40'50", Long. 86°59'47" referenced to North American Datum of 1927, Porter County, IN, Hydrologic Unit 04040001

03-28-2013: Width 15.0 ft, Area 5.97 ft², Mean Velocity: 0.58 ft/s, Discharge 3.44 cfs

LOCATION - Derby Ditch at Swamp at Beverly Shores, Lat. 41°40'38", Long. 86°59'39" referenced to North American Datum of 1927, Porter County, IN, Hydrologic Unit 04040001

03-28-2013, Width: 12.0 ft, Area: 10.7 ft², Mean Velocity: 0.33 ft/s, Discharge: 3.56 cfs

LOCATION - Derby Ditch at Outflow at Beverly Shores, Lat. 41°41'07", Long. 86°59'28" referenced to North American Datum of 1927, Porter County, IN, Hydrologic Unit 04040001

03-28-2013, Width: 10.0, Area: 4.82 ft², Mean Velocity: 0.81 ft/s, Discharge: 3.91 cfs

LOCATION - Kintzele Ditch at Inflow at Beverly Shores, Lat. 41°41'49", Long 86°56'08" referenced to North American Datum of 1927, Porter County, IN, Hydrologic Unit 04040001

03-27-2013, Width: 12.0 ft, Area: 11. ft², Mean Velocity: 0.33 ft/s, Discharge: 3.66 cfs

LOCATION - Thurman Creek near Hutsonville, IL, Lat. 39°07'14", Long 87°35'41.5" referenced to North American Datum of 1927

04-24-2013, Width 97.8 ft, Area: 958 ft², Mean Velocity: 1.46 ft/s, Discharge: 1,400 cfs

LOCATION - Wabash River at Hutsonville, IL, Lat. 39°06'37.7", Long 87°39'17.9" referenced to North American Datum of 1927

04-24-2013, Width: 905 ft, Area: 16,375 ft², Mean Velocity: 6.06 ft/s, Discharge: 99,218 cfs