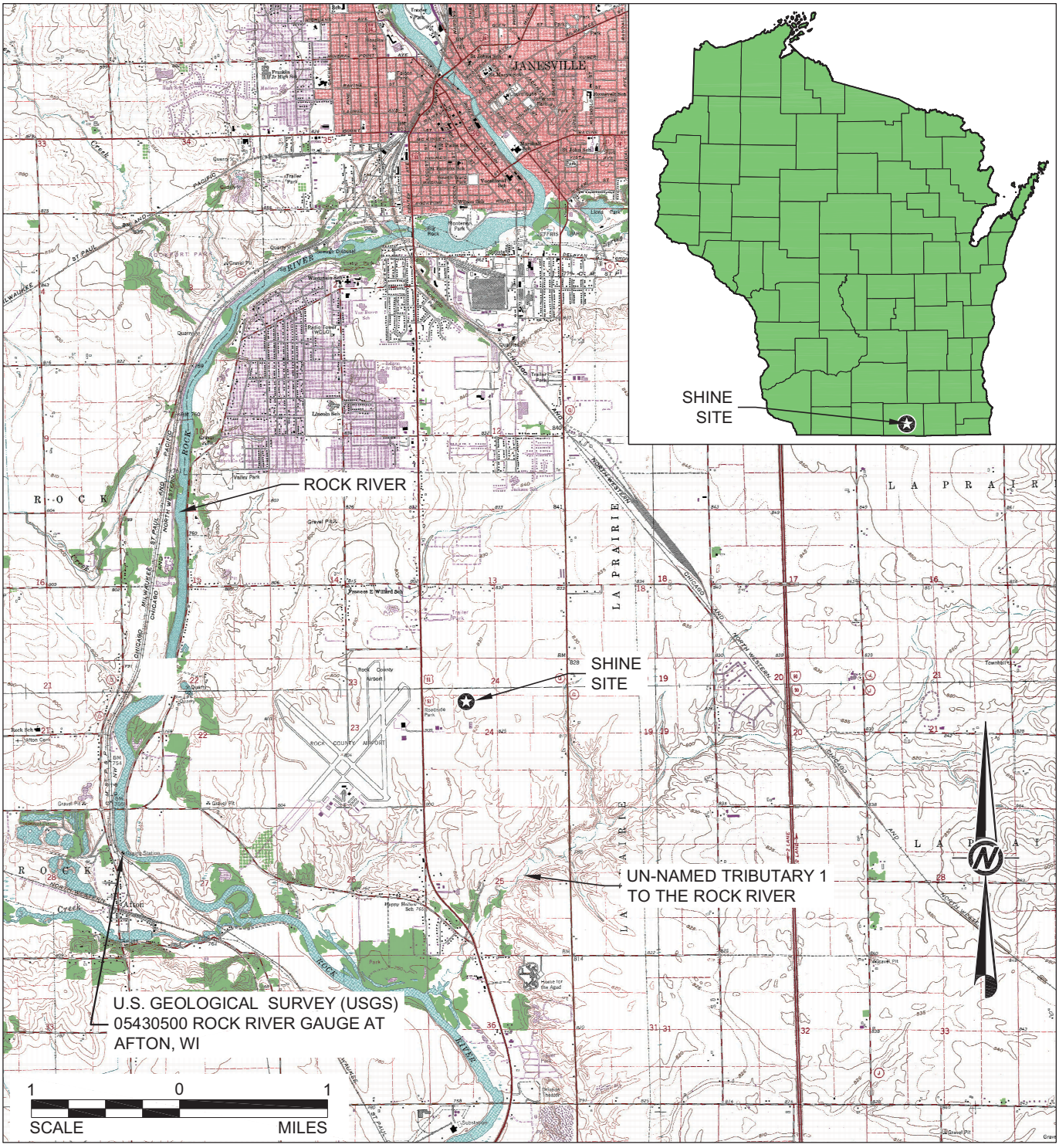
Figure 2.4-1 – SHINE Site in Relation to Rock River



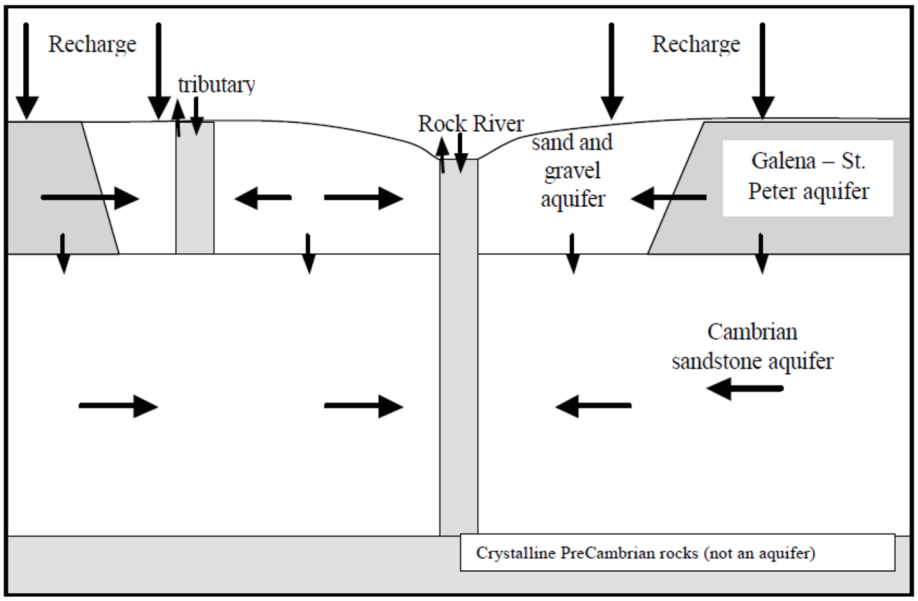
LEGEND

SHINE SITE

REFERENCES

WDNR, 1997a; WDNR, 1997b; WDNR, 1997c; WDNR, 1997d

Figure 2.4-2 – Schematic of the Flow System in Rock County



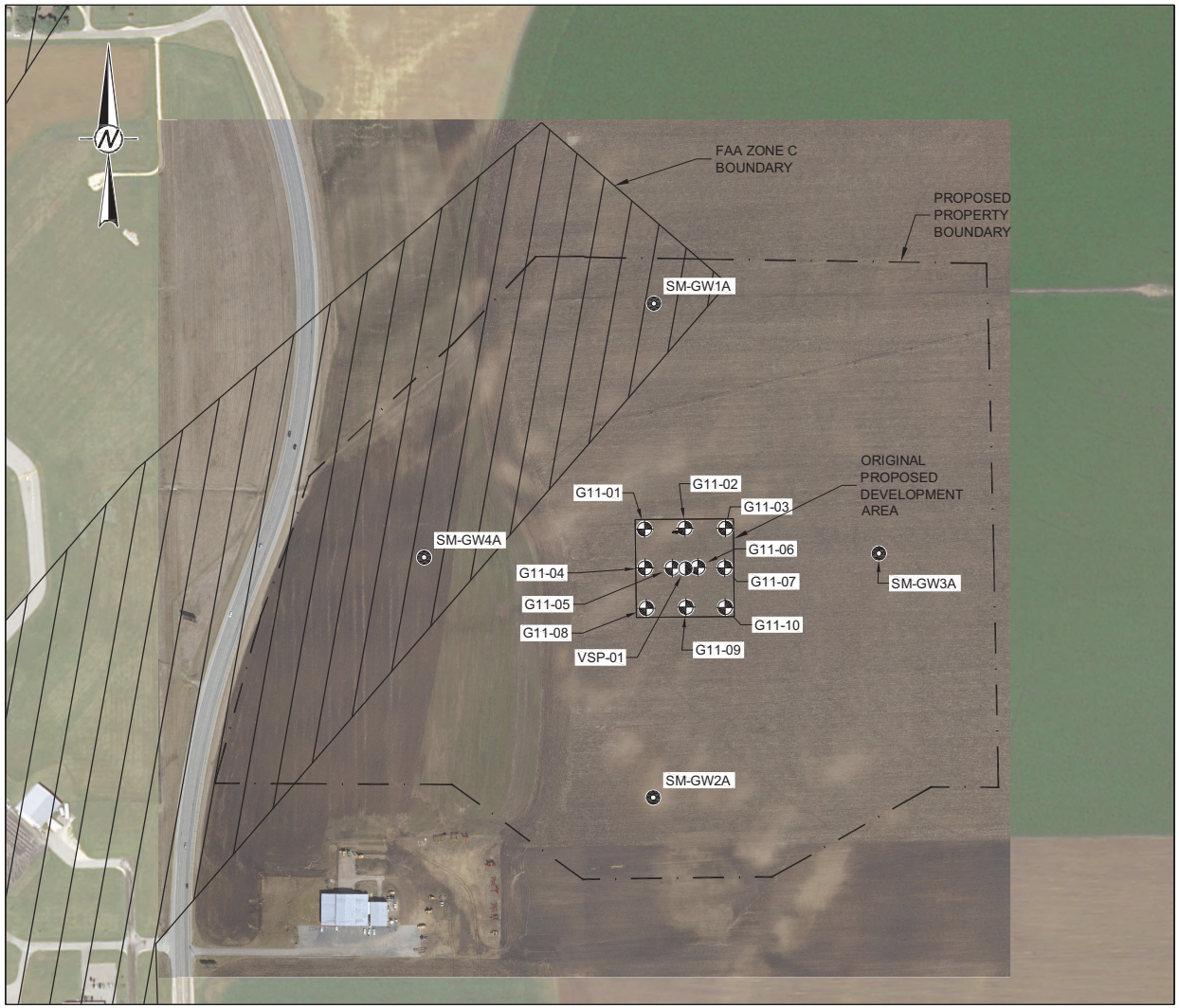
NOTE

1.) ARROWS INDICATE THE POTENTIAL FLOW DIRECTIONS

REFERENCE

1.) GAFFIELD ET AL., 2002.

Figure 2.4-3 – SHINE Site Groundwater Monitoring Wells



NOTES

1.) BOREHOLE AND WELL LOCATION LOCATIONS AS SURVEYED BY AYERS ASSOCIATES ON NOVEMBER 11, 2011.
2.) PROPOSED DEVELOPMENT AREA IS A SQUARE, MEASURING 316 FEET ON EACH SIDE.
3.) CENTER OF BUILDING OUTLINE PLACED WITHIN PROPOSED SITE POLYGON AS DIRECTED BY CLIENT.

REFERENCE

1.) USDA, 2011.

LEGEND

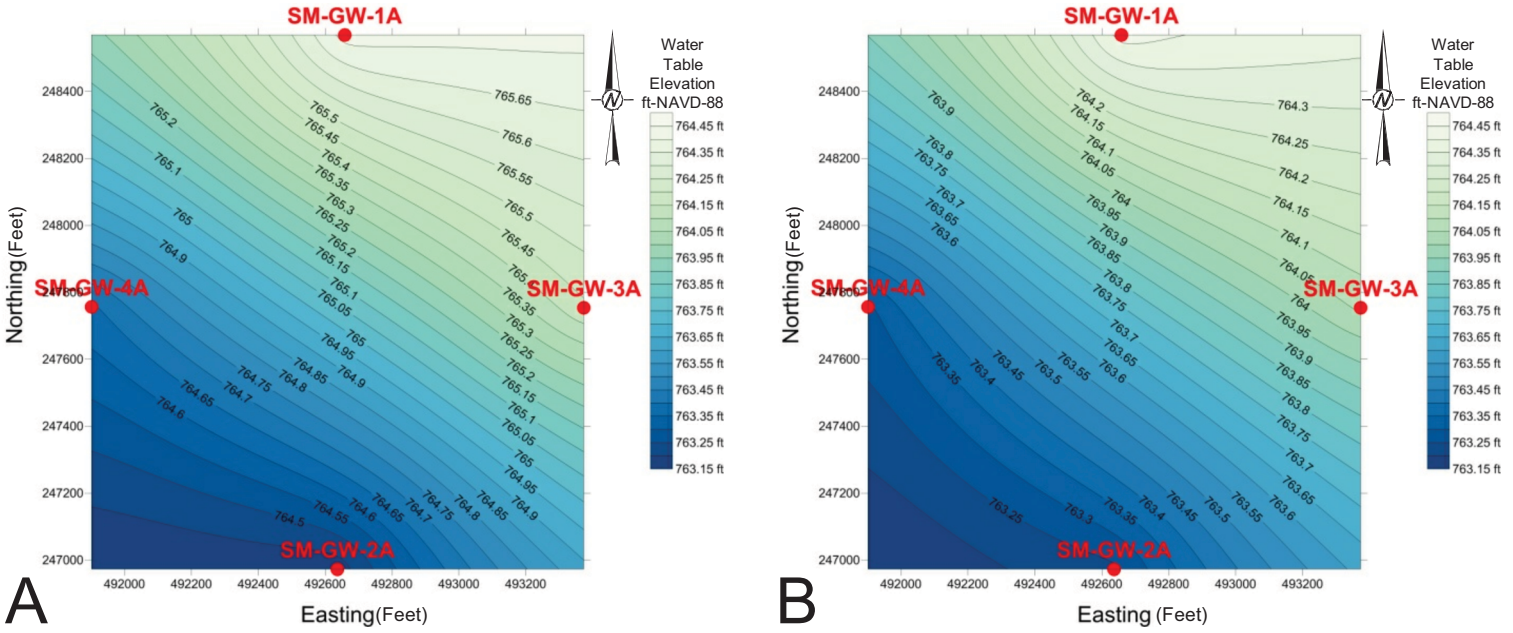
G11-08 — BOREHOLE LOCATION AND DESIGNATOR

VSP-01 — BOREHOLE LOCATION WITH 2 INCH PVC INSTALLED FOR SEISMIC TESTING AND DESIGNATOR

SM-GW2A — WELL LOCATION AND DESIGNATOR

400 0 400
SCALE FEET

Figure 2.4-4 – Simplified Groundwater Table Contours Based on Measured Groundwater Elevations in Monitoring Wells



NOTES

1.) PLOT A BASED ON MEASUREMENTS FROM 10/26/2011.
2.) PLOT B BASED ON MEASUREMENTS FROM 06/12/2012.
3.) MAPS ARE JUST FOR VISUALIZATION PURPOSES. MAPS HAVE BEEN GENERATED BY SURFER DEFAULT PARAMETERS OF KRIGING

Figure 2.4-5 – SHINE Site Monitored Hydraulic Gradients

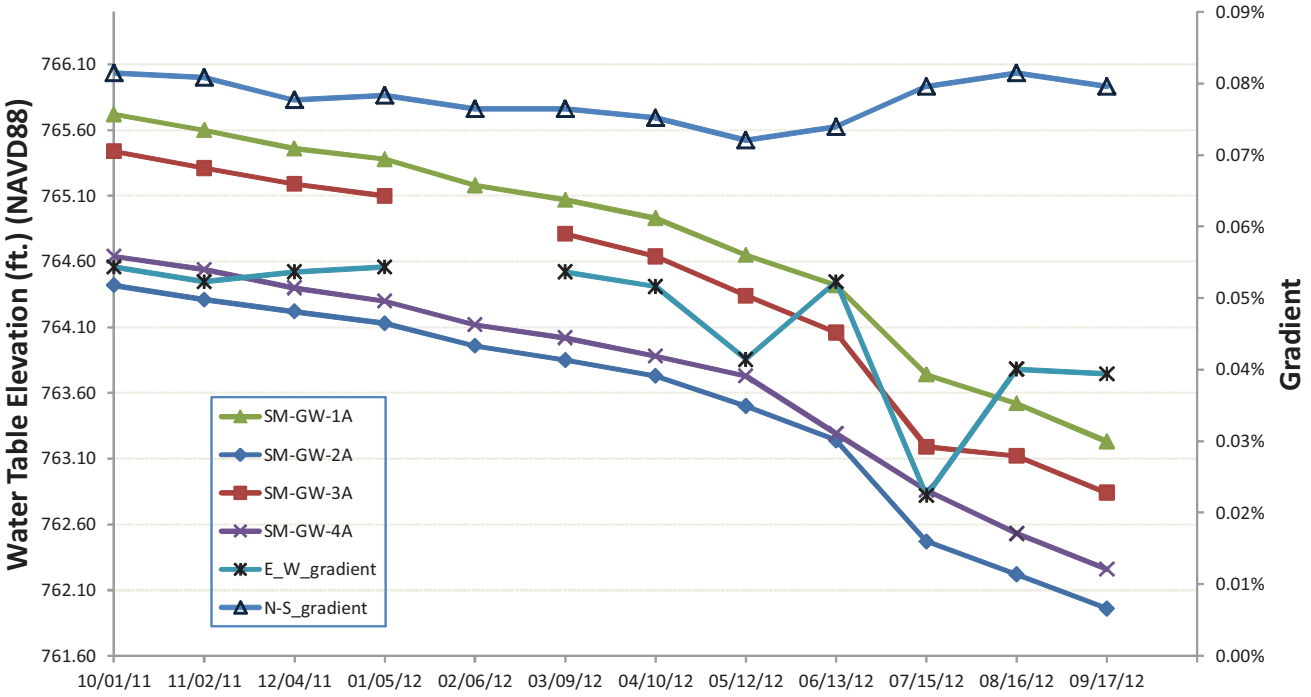
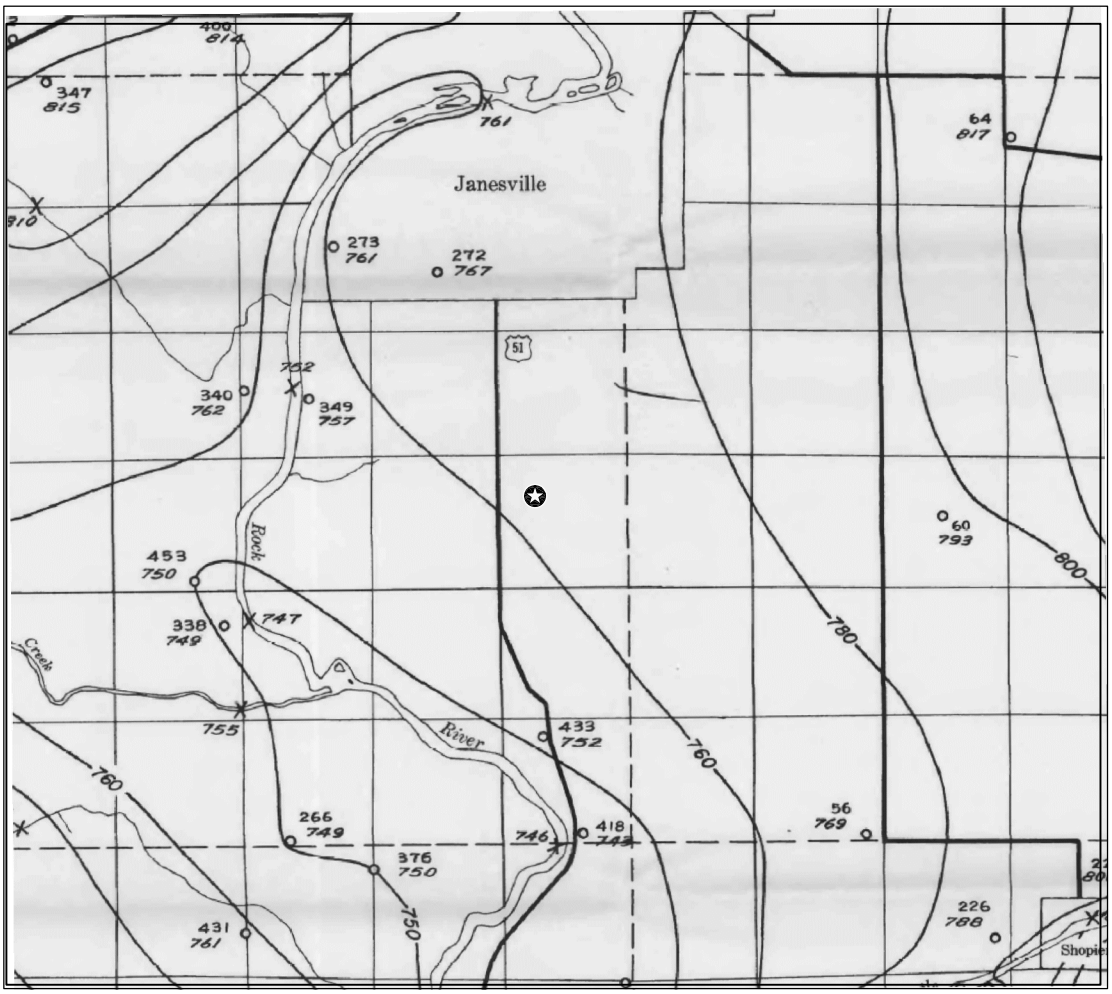


Figure 2.4-6 – Piezometric Water Table Surface from 1958



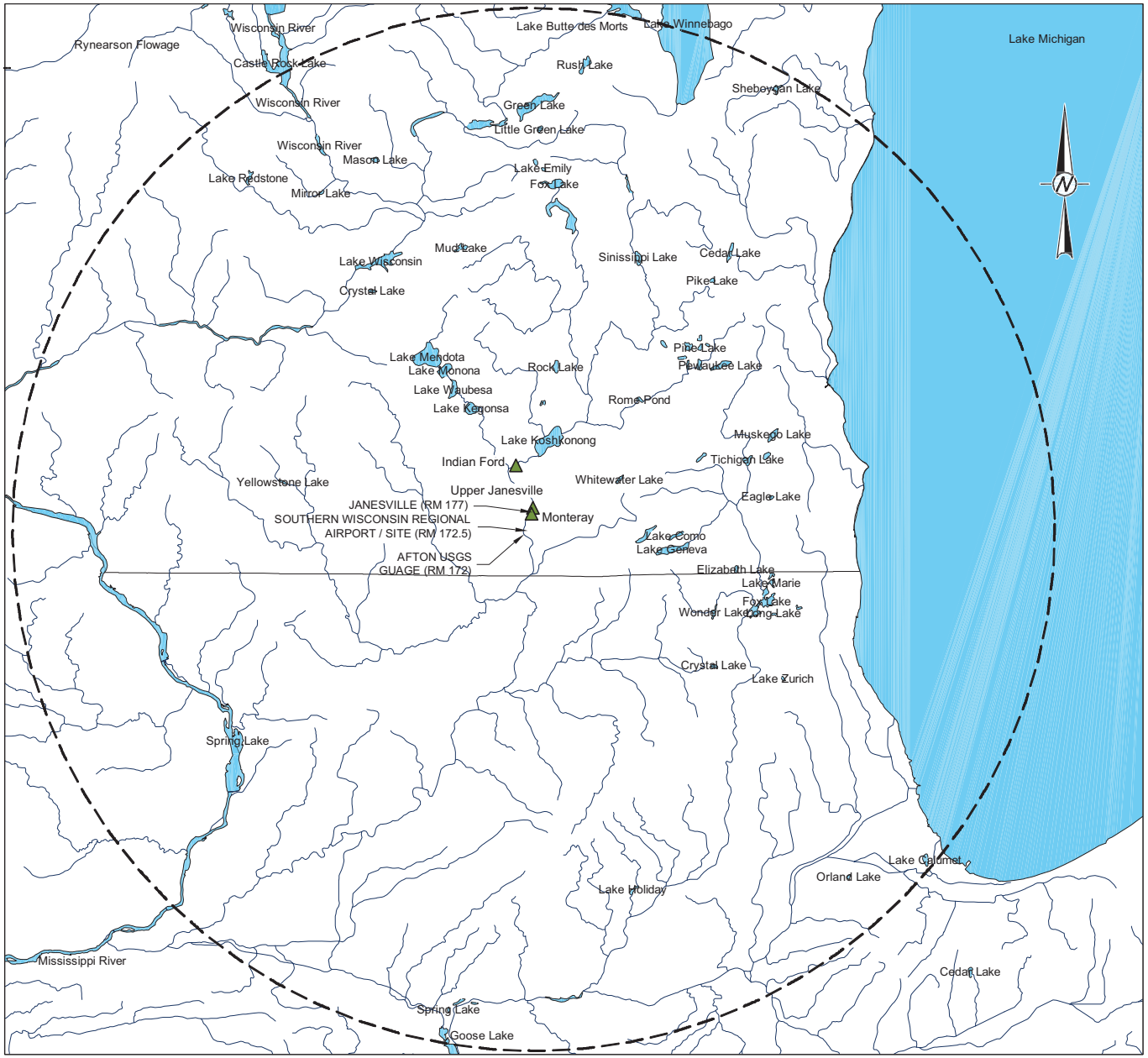
LEGEND

SHINE SITE

REFERENCE

1.) LEROUX, 1963.

Figure 2.4-7 – SHINE Site Vicinity Hydraulic Features



LEGEND

- SHINE SITE
- DAM LOCATION AND IDENTIFER
- LAKES (REGIONAL)
- WATER (REGIONAL)
- 100 MILE RADIUS
- STATE BOUNDARY

20 0 20
SCALE MILES

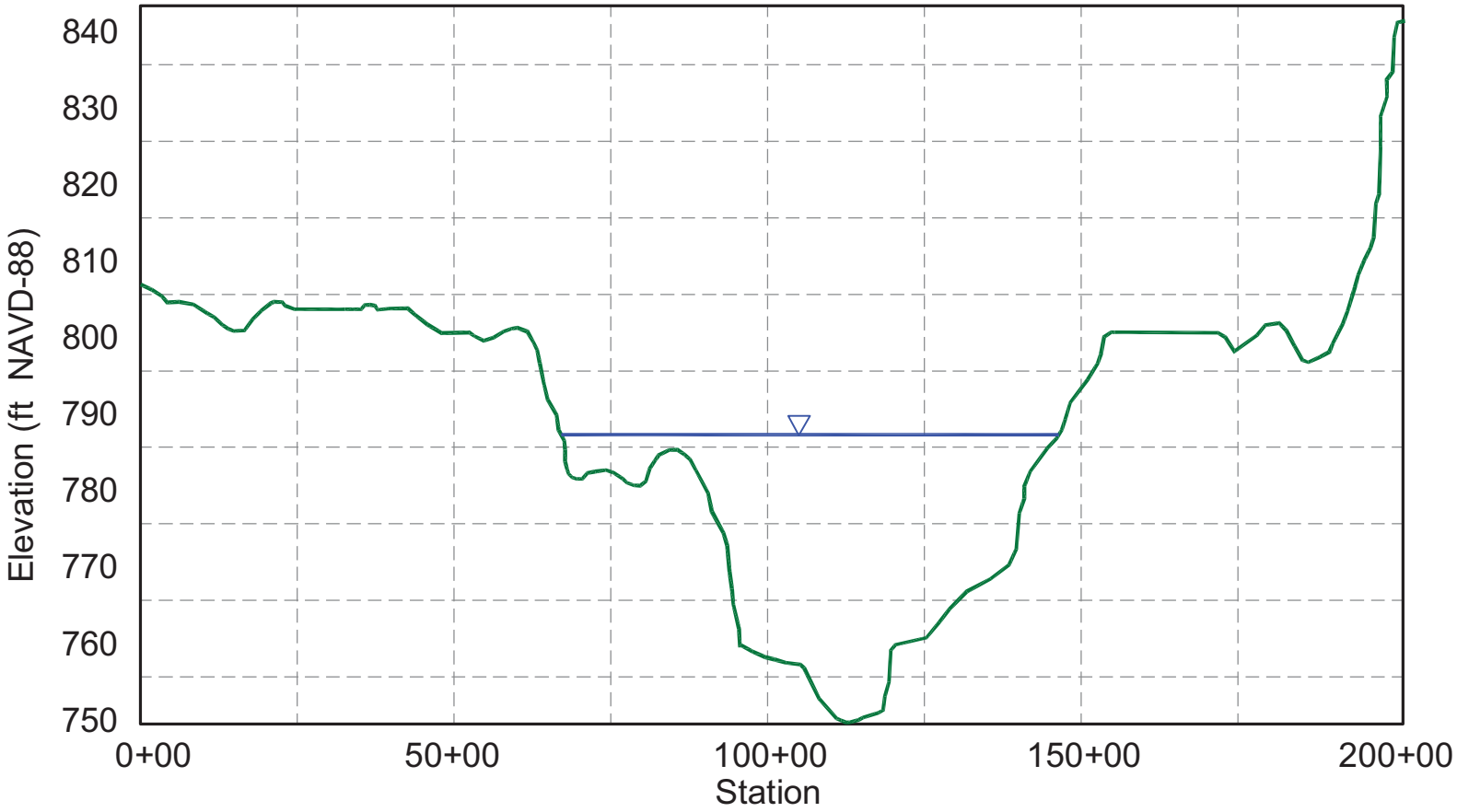
REFERENCE

NATIONAL ATLAS OF THE US AND USGS, 2004a;
NATIONAL ATLAS OF THE US AND USGS, 2004b; WDNR, 2012a

NOTE

1.) RIVER MILES (RM) ARE BASED ON UPSTREAM DISTANCES ALONG ROCK RIVER FROM CONFLUENCE OF THE MISSISSIPPI RIVER.

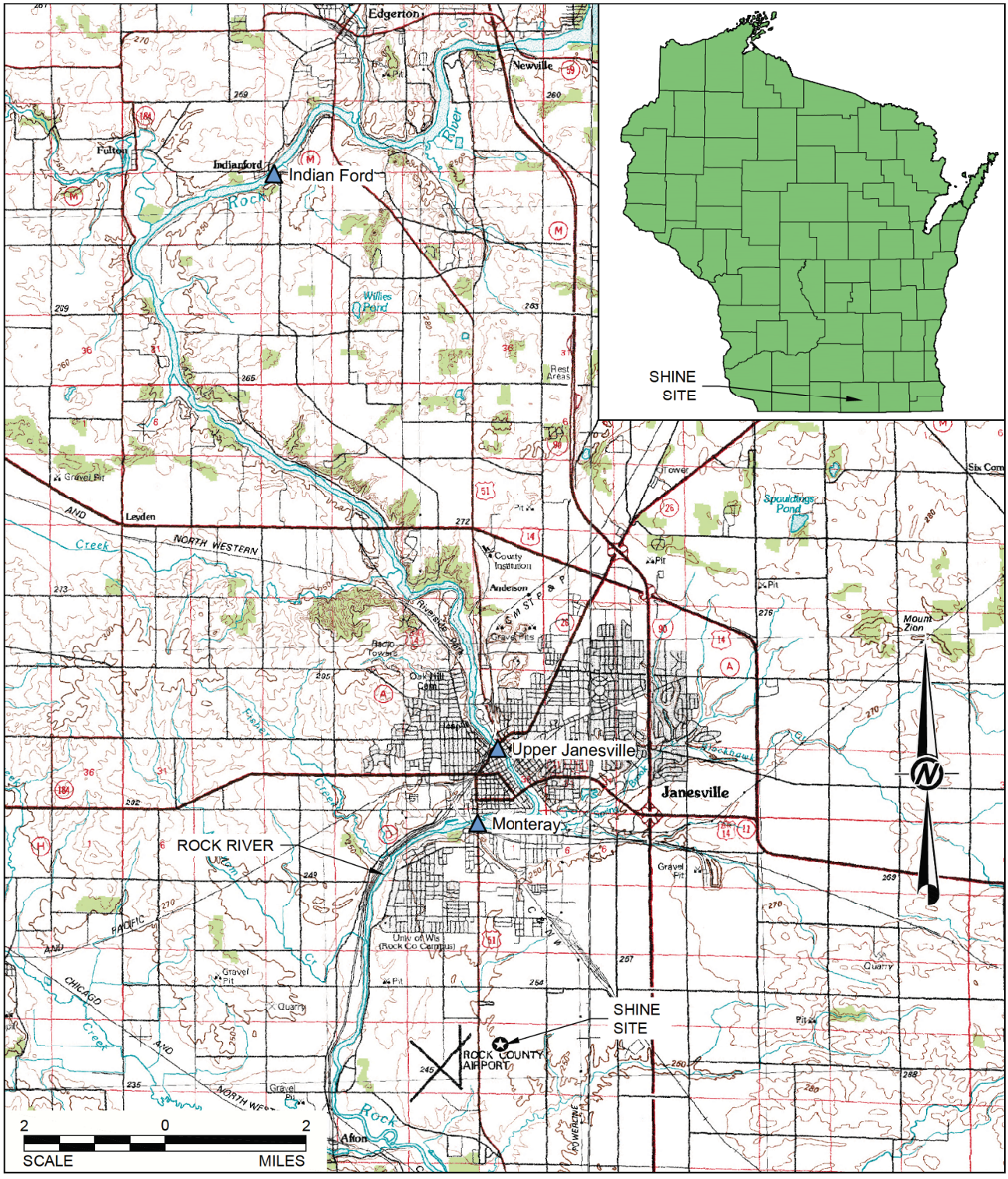
Figure 2.4-8 – Rock River Cross-Section Used in PMF Calculation



REFERENCE

1.) USGS, 2012b.

Figure 2.4-9 – Dam Locations in Vicinity of SHINE Site



LEGEND

SHINE SITE

DAM LOCATION AND IDENTIFER

REFERENCES

WDNR, 1980; WDNR, 1981; WDNR, 2012a

Figure 2.4-10 – Plan – PMP Zones for SHINE Site Area

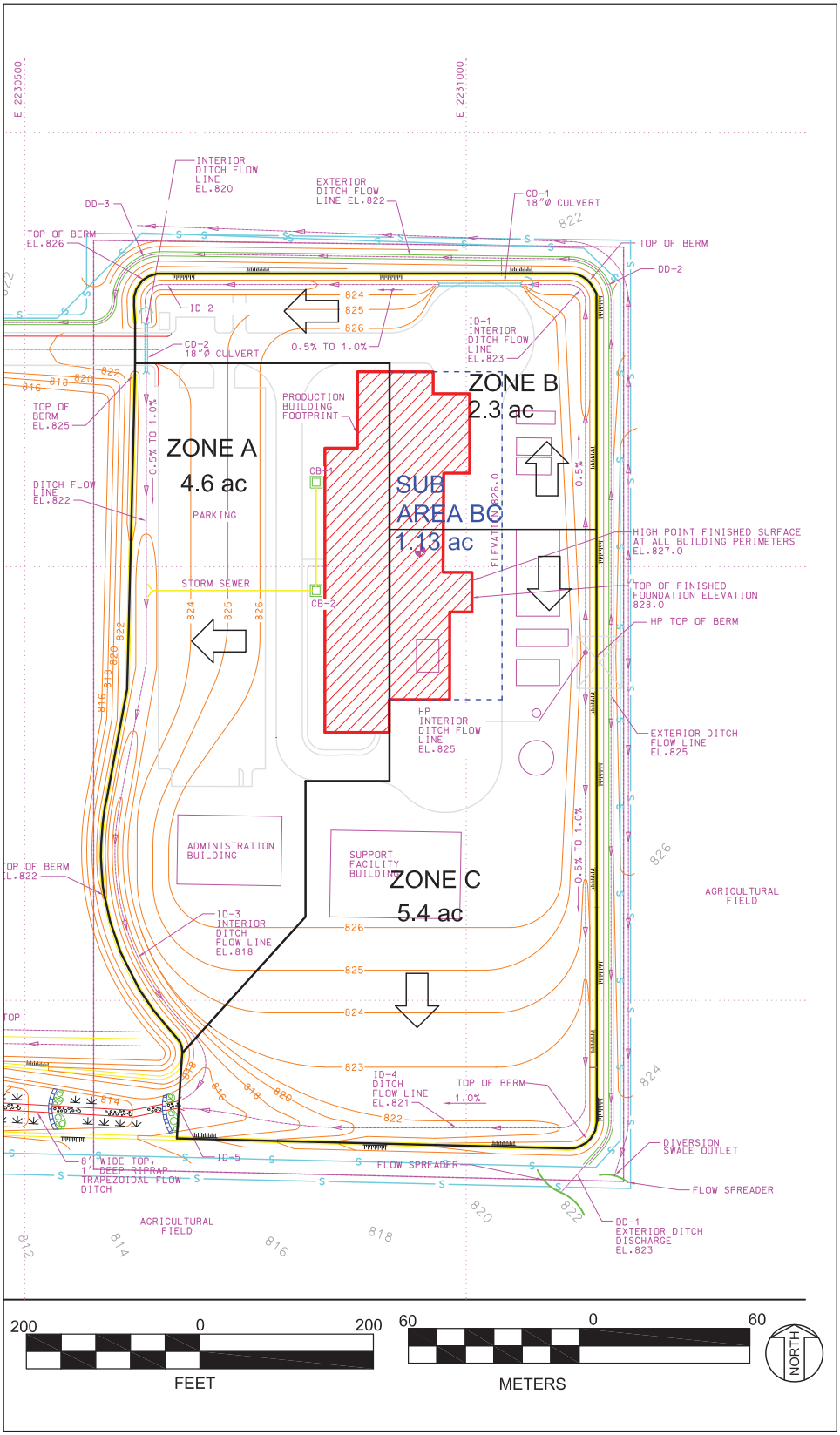


Figure 2.4-11 – Plan – Off-Site Drainage Area Delineation

