JANESVILLE SHINE SITE **ROCK RIVER** AIRIE SHINE UN-NAMED TRIBUTARY TO THE ROCK RIVER U.S. GEOLOGICAL SURVEY (USGS) 05430500 ROCK RIVER GAUGE AT AFTON, WI MILES SCALE

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

**LEGEND** 

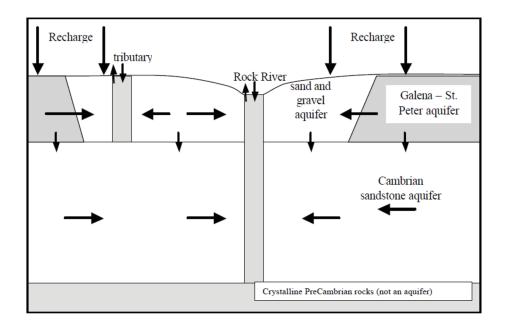
**REFERENCES** 

0

SHINE SITE

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

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



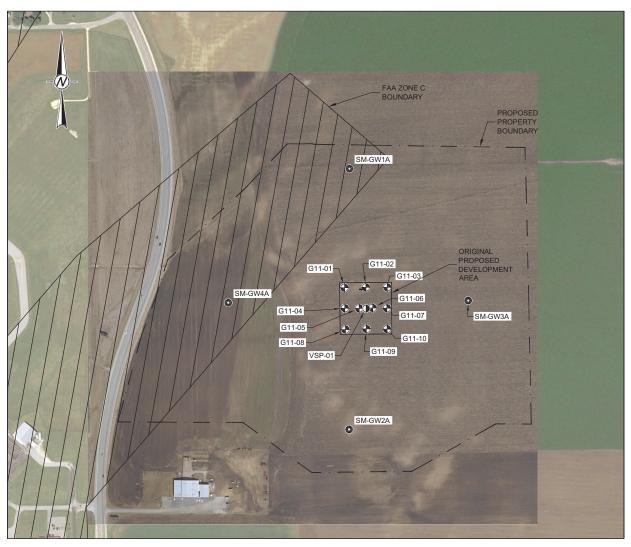
## **NOTE**

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

SEISMIC TESTING AND DESIGNATOR

SM-GW2A

WELL LOCATION AND DESIGNATOR



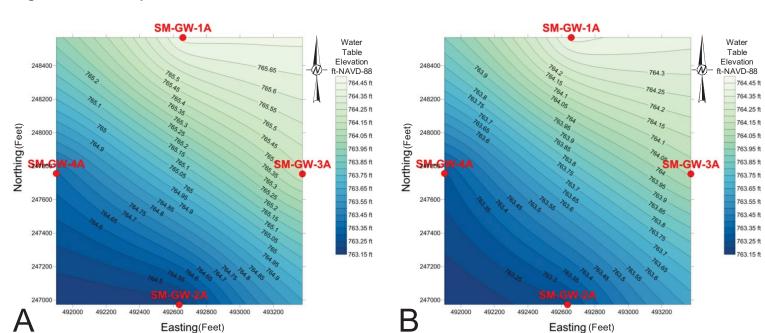
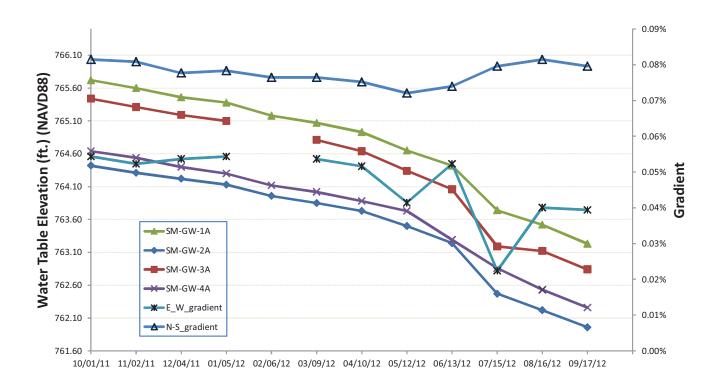


Figure 2.4-4 – Simplified Groundwater Table Contours Based on Measured Groundwater Elevations in Monitoring Wells

## **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



Janesville 0 767 [51] 0 755

Figure 2.4-6 – Piezometric Water Table Surface from 1958

# **LEGEND**

SHINE SITE

MILES

# REFERENCE

1.) LEROUX, 1963.

Lake Michigan RushLake Little Green Lake ake Emily Lake Redstone Fox Dake Sinissi pi Lake Pike4Lake Crystel Lake Pine4Lake **LEGEND** Lake Waubesa SHINE SITE Rome Pond Lake Kegonsa DAM LOCATION AND IDENTIFER Muskego Lake Tichigan Lake Indian Ford Yellowstane lake JANESVILLE (RM 177)
SOUTHERN WISCONSIN REGIONAL
AIRPORT / SITE (RM 172.5) LAKES (REGIONAL) .Eagle⊳Lake WATER (REGIONAL) Lake Ceneva AFTON USGS GUAGE (RM 172) 100 MILE RADIUS Lake Marie STATE BOUNDARY Crystal Lake Łake ⊈urich REFERENCE NATIONAL ATLAS OF THE US AND USGS, 2004a; NATIONAL ATLAS OF THE US AND USGS, 2004b; WDNR, 2012a Orland Lake Mississippi River NOTE

Figure 2.4-7 – SHINE Site Vicinity Hydraulic Features

Goose Lake

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

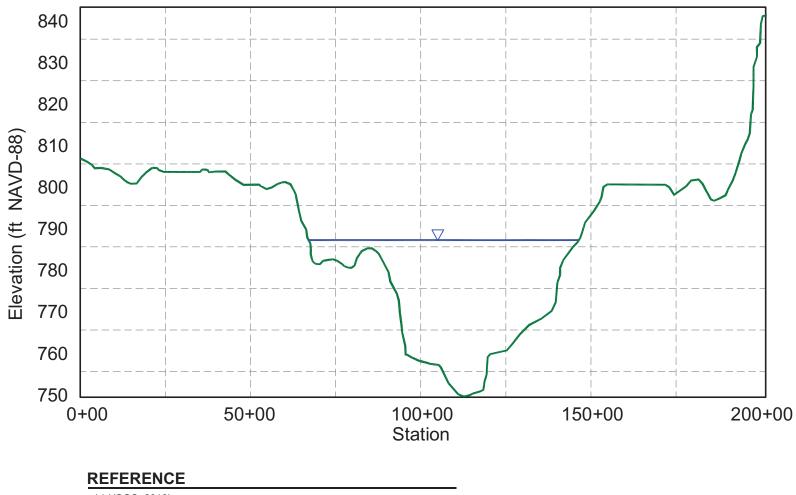


Figure 2.4-8 – Rock River Cross-Section Used in PMF Calculation

1.) USGS, 2012b.

Indianford Indian Ford Willie O'Pend SHINE SITE Upper Janesville Monteray **ROCK RIVER** SHINE SITE MILES

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

**LEGEND** 

**REFERENCES** 

SHINE SITE

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

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DAM LOCATION AND IDENTIFER

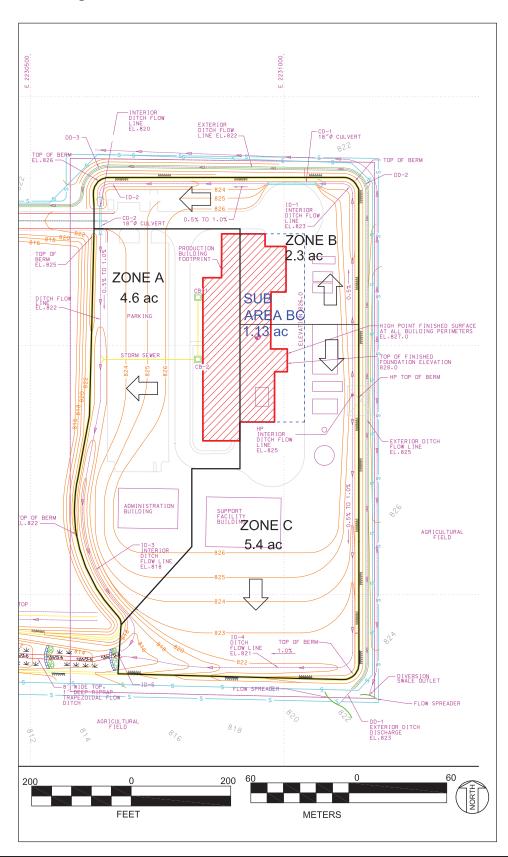


Figure 2.4-10 - Plan - PMP Zones for SHINE Site Area

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

