

SOURCE: SOUTH BELOIT, ILLINOIS
 U.S.G.S. 7.5 MINUTE QUADRANGLE

LOCATION: NW1/4, NW1/4, SECTION 28,
 RANGE 12E, TOWNSHIP 46N.



ILLINOIS



SCALE: 1"= 2000'



STATEMENT OF BASIS
 USEPA

DANA CORPORATION
 WARNER ELECTRIC
 ROSCOE, ILLINOIS

SITE LOCATION MAP

DRAWN BY:	FITZGERALD
APPROVED BY:	JAB
PROJECT NO.	02541.33
FILE NO.	25413301.DWG
DATE:	NOVEMBER 2009

FIGURE 1

EXTENT OF VOCs DETECTED AT ANY DEPTH IN ACQUIFER

CORE OF AFFECTED GROUNDWATER

MWCW-70,-80,-90,-100

PUMP 1 AND PUMP 2

HEMW-1,-2,-3,-4

APPROXIMATE AREA WHERE TCE EXCEEDS THE USEPA SCREENING CONCENTRATIONS AT WATER TABLE

CEDAR BROOK ROAD

WILD DEER TRAIL

TREATMENT SYSTEM

EDGEMERE TERRACE

0-2
0-1

ROCK RIVER

ROLLINGSFORD LANE

CROWNPOINT ROAD

HONONEGAH ROAD

N1-60,-70,-80,-100

MWCM-73,-85,-97

MWCE-70,-88

RECOVERY WELL

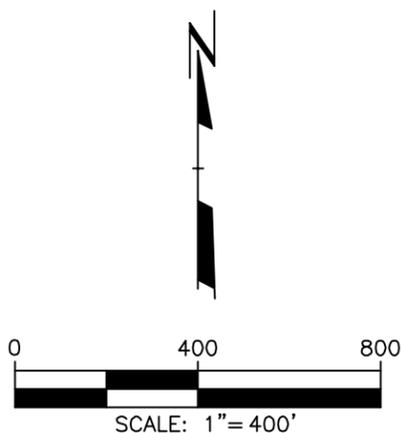
HWY 251

LEGEND

- W-1
 - ⊕ W-2/W-2A
 - PUMP 1 AND PUMP 2
 - ⊗
 - TW1
 - △
 - (with number)
- ROADWAY
- MONITORING WELL AND DESIGNATION
- MONITORING WELL NEST AND DESIGNATION
- NORTH PARK WATER DISTRICT STANDBY SUPPLY WELLS
- RECOVERY WELL
- TEMPORARY WELL LOCATION
- SURVEY CONTROL POINT
- EXTENT OF DETECTED VOCs AT ANY DEPTH IN ACQUIFER (DASHED WHERE APPROXIMATE)
- EXTENT OF VOCs GREATER THAN 100 ug/L (DASHED WHERE APPROXIMATE)
- APPROXIMATE AREA WHERE TCE GROUNDWATER CONCENTRATIONS EXCEED THE USEPA GENERIC SCREENING LEVEL FOR INDOOR AIR INTRUSION (5ug/L) AT THE WATER TABLE
- LOCATION AND DESIGNATION OF RESIDENCE WHERE INDOOR AIR SAMPLING WAS PERFORMED

NOTES

1. BASE MAP FROM USGS AERIAL PHOTO DATED APRIL 5, 1998.
2. WELL LOCATIONS SURVEYED BY JENKINS SURVEY & DESIGN, INC.
3. PROPERTY BOUNDARIES ARE BASED ON ROSCOE TOWNSHIP PLAT MAP AND ARE APPROXIMATE.

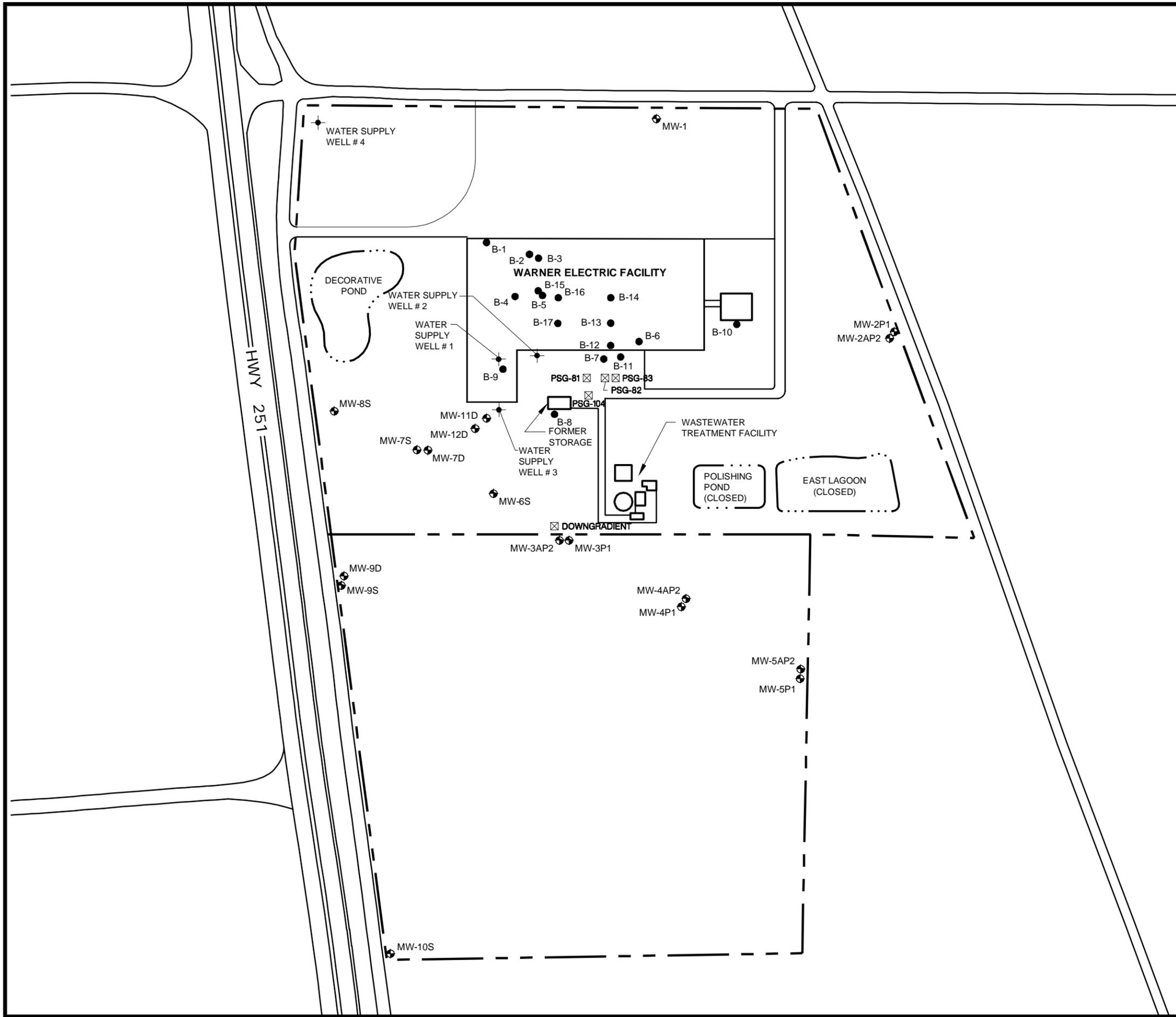


PROJECT:		DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS	
SHEET TITLE:		INDOOR AIR SAMPLE LOCATIONS	
DRAWN BY: FITZGERALD	SCALE:	PROJ. NO.	02541.33
CHECKED BY: JAB	1" = 400'	FILE NO.	25413302DWG
APPROVED BY: JAB	DATE PRINTED:	FIGURE 2	
DATE: APRIL 2009			

**STATEMENT OF BASIS
USEPA**

PLOT DATA
 Drawing Name: j:\02541\25\25412514.dwg
 Operator Name: FITZGERALD
 Scale: 1"=50'

PLOT DATA
 Drawing Name: j:\02541\25\25412513.dwg
 Operator Name: siewertd
 Scale: 1"=1'

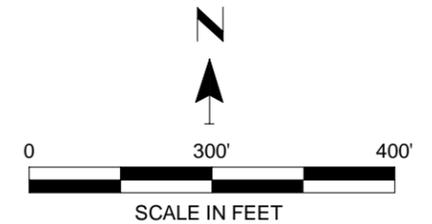


LEGEND

- APPROXIMATE SITE BOUNDARY
- B-5 ● BORING LOCATION AND NUMBER (EKI DRILLED B-1 TO B-10 IN 2002, AND RMT DRILLED B-11 TO B-17 IN 2006)
- MW-9D,S ◉ MONITORING WELL LOCATION AND NUMBER (S / AP2 = SHALLOW, D / P1 = DEEP)
- ◊ EXISTING HISTORICAL WATER SUPPLY WELL
- PSG-104 ☒ TEMPORARY WELL LOCATION (RMT, 2006) WITH SHALLOW AND DEEP GROUNDWATER SAMPLING

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC., PROJECT NO. A20007.02, DATED MAY 2003.

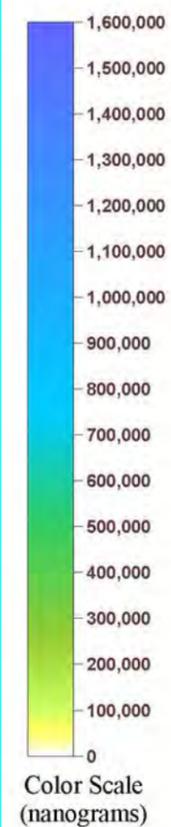
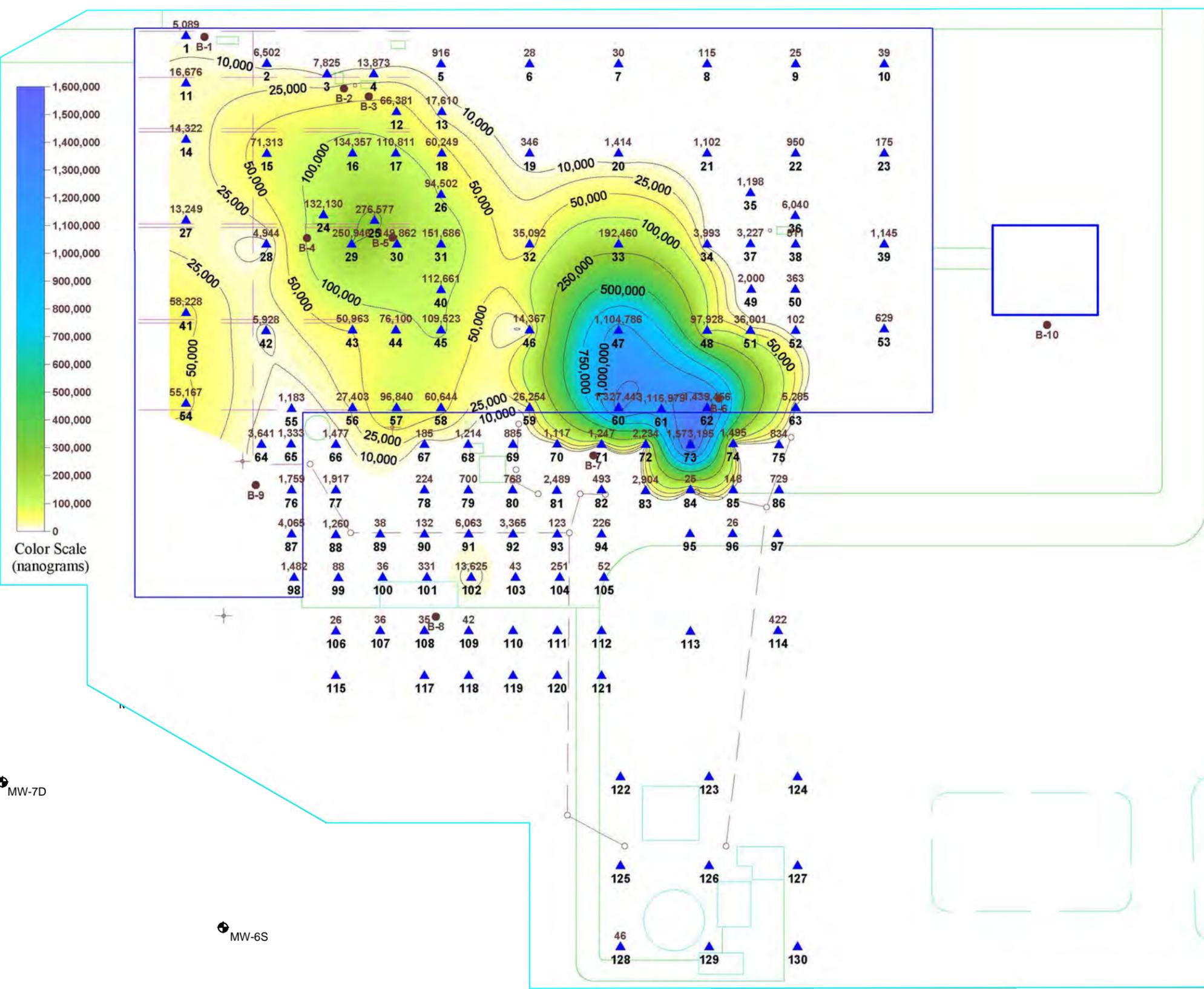


PROJECT: **DANA CORPORATION
 FORMER WARNER ELECTRIC DIVISION
 ROSCOE, ILLINOIS**

SHEET TITLE: **SITE PLAN**

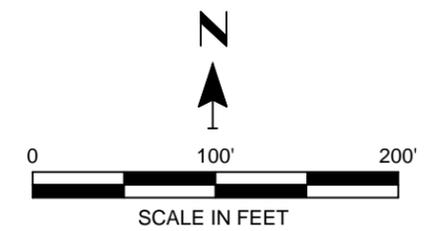
DRAWN BY: SIEWERTD	SCALE: AS SHOWN	PROJ. NO. 02541.33
CHECKED BY: JAB	DATE PRINTED:	FILE NO. 25413303.DWG
APPROVED BY: JAB	FIGURE 3	
DATE: APRIL 2009		

**STATEMENT OF BASIS
 USEPA**



- LEGEND**
- MW-9D,S MONITORING WELL LOCATION AND NUMBER (S / AP2 = SHALLOW, D / P1 = DEEP)
 - EXISTING HISTORICAL WATER SUPPLY WELL
 - B-5 EXISTING SOIL BORING LOCATION AND NUMBER
 - 16,676 MASS OF TOTAL VOCs (IN NANOGRAMS) DETECTED IN PSG SAMPLE
 - SOIL GAS SAMPLING LOCATION
 - PORTION OF INDUSTRIAL SEWER LINE AFTER 1977 per AS BUILT DRAWING DATED NOV. 1984 WARNER ELEC. BRAKE & CLUTCH CO. SEWER LINE REVISIONS
 - TRENCH SYSTEM (ABANDONED)

- NOTES**
1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC., PROJECT NO. A20007.02, DATED MAY 2003
 2. STORAGE TANKS SHOWN ARE NOT TO SCALE.
 3. SOIL GAS SAMPLE PREFIX (SG -) NOT INCLUDED IN MAP LABELS FOR THE PURPOSE OF SIMPLIFICATION.

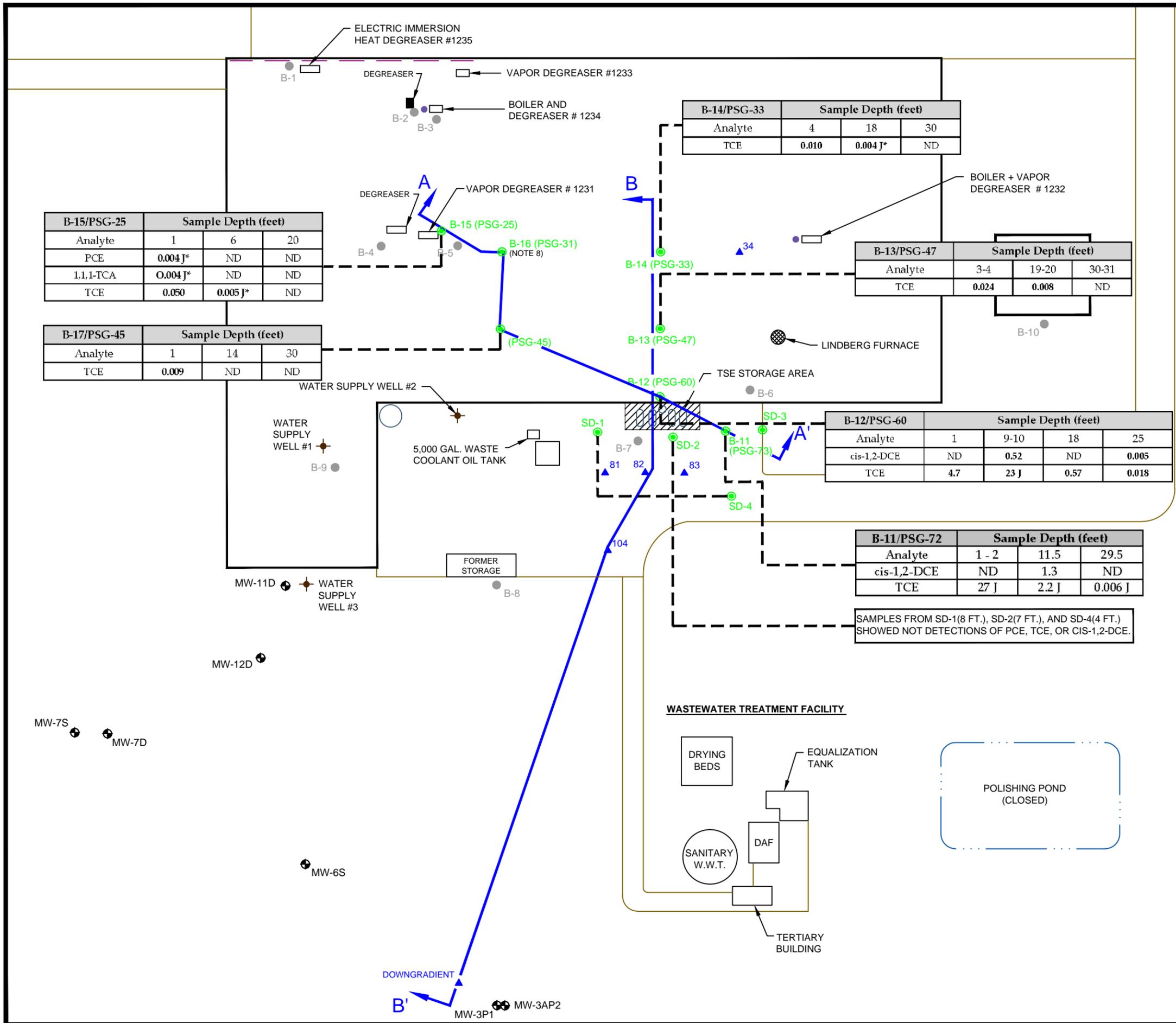


PROJECT: DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS		
SHEET TITLE: PASSIVE SOIL GAS SURVEY TOTAL VOCs		
DRAWN BY: SIEWERTD	SCALE: AS SHOWN	PROJ. NO. 02541.33
CHECKED BY: JAB	DATE PRINTED:	FILE NO. 25413304.DWG
APPROVED BY: JAB	FIGURE 4	
DATE: APRIL 2009		

**STATEMENT OF BASIS
USEPA**

PLOI DATA
 Drawing Name: J:\02541\25\25412517.dwg
 Operator Name: siewertd
 Scale: 1"=1'

PLOT DATA
 Drawing Name: j:\02541\30\25413003.dwg
 Operator Name: fitzgere
 Scale: 1"=100'

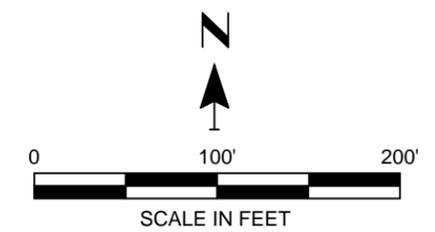


LEGEND

- MW-9D,S MONITORING WELL LOCATION AND NUMBER (S / AP2 = SHALLOW, D / P1 = DEEP)
- B-11 (PSG-73) SOIL / GROUNDWATER SAMPLE LOCATION ADVANCED AT SOIL GAS SAMPLE LOCATION (RMT, 2006)
- HISTORICAL WATER SUPPLY WELL
- B-5 SOIL BORING LOCATION AND NUMBER (EKI, 2003)

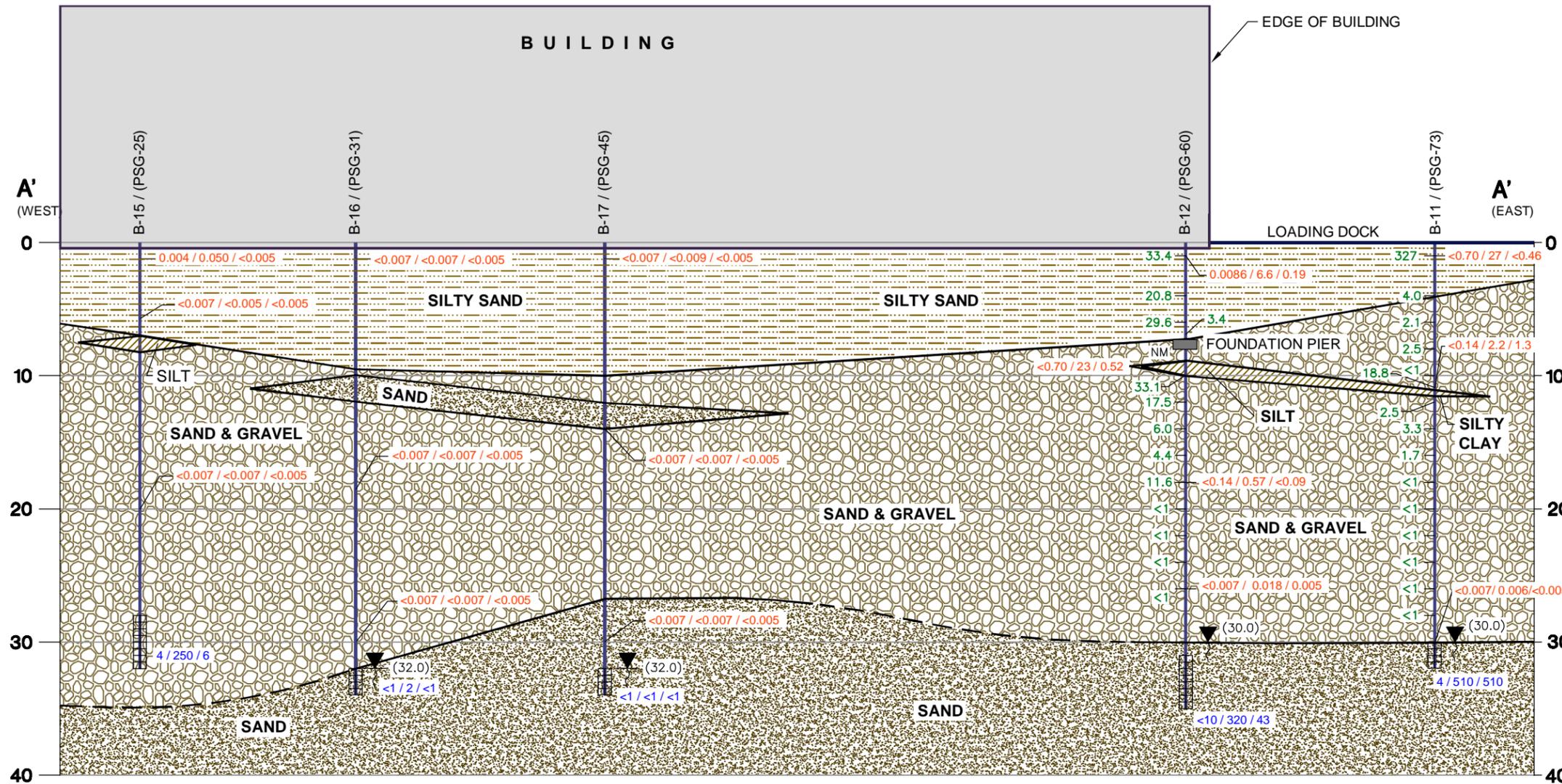
A A' CROSS SECTION LOCATOR

- NOTES**
1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC., PROJECT NO. A20007.02, DATED MAY 2003
 2. STORAGE TANKS ARE SHOWN NOT TO SCALE.
 3. SOIL GAS SAMPLE PREFIX (PSG -) NOT INCLUDED IN MAP LABELS FOR THE PURPOSE OF SIMPLIFICATION.
 4. LOCATIONS SHOWN IN BLUE DENOTE LOCATIONS WHERE ONLY GROUNDWATER PROFILING WAS PERFORMED IN MAY 2006.
 5. LOCATIONS SHOWN IN GREEN DENOTE LOCATIONS WHERE WATER AND SOIL SAMPLES WERE COLLECTED IN MAY 2006.
 6. ANALYTICAL RESULTS IN mg/kg.
 7. ONLY ANALYTES WITH AT LEAST ONE DETECTION DISPLAYED.
 8. SOIL SAMPLES ANALYZED, NO DETECTIONS.



PROJECT: DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS		
SHEET TITLE: VOCs IN SOIL		
DRAWN BY: FITZGERALD	SCALE: 1" = 100'	PROJ. NO. 02541.33
CHECKED BY: SW	DATE PRINTED:	FILE NO. 25413305.DWG
APPROVED BY: JAB	FIGURE 5	
DATE: APRIL 2009		

**STATEMENT OF BASIS
USEPA**



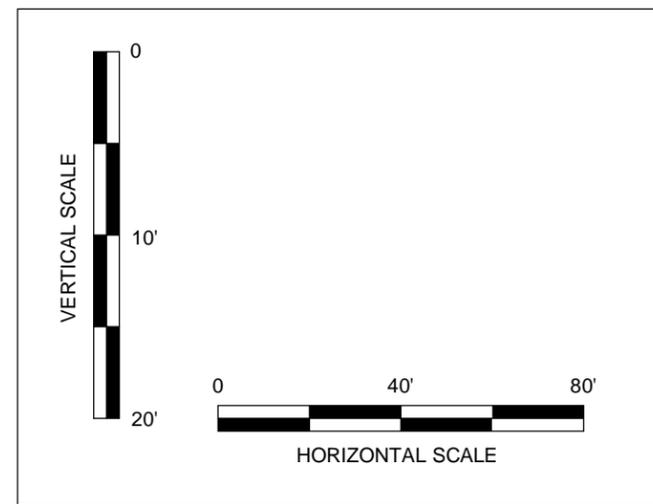
LEGEND

- APPROXIMATE GROUND SURFACE
- STRATIGRAPHIC CONTACT (DASHED WHERE INFERRED)
- 2.1 PID RESULTS FOR FIELD-SCREENED SOIL SAMPLES
- 0.007 / <0.007 / <0.005 PCE / TCE / CIS-1,2-DCE CONCENTRATIONS IN UNSATURATED SOIL, (mg/kg)
- <1 / 2 / <1 PCE/TCE/CIS-1,2-DCE CONCENTRATIONS IN GROUNDWATER, (ug/L)
- (32.0) DEPTH (BELOW GROUND SURFACE) AT WHICH SATURATED SOIL WAS ENCOUNTERED.
- NM NOT MEASURED
- BORING LOCATION
- SAMPLE LOCATION
- BOTTOM OF BORING
- SCREEN POINT SAMPLER DEPTH
- SAND AND GRAVEL
- SILT / SILTY CLAY
- SILTY SAND
- SAND

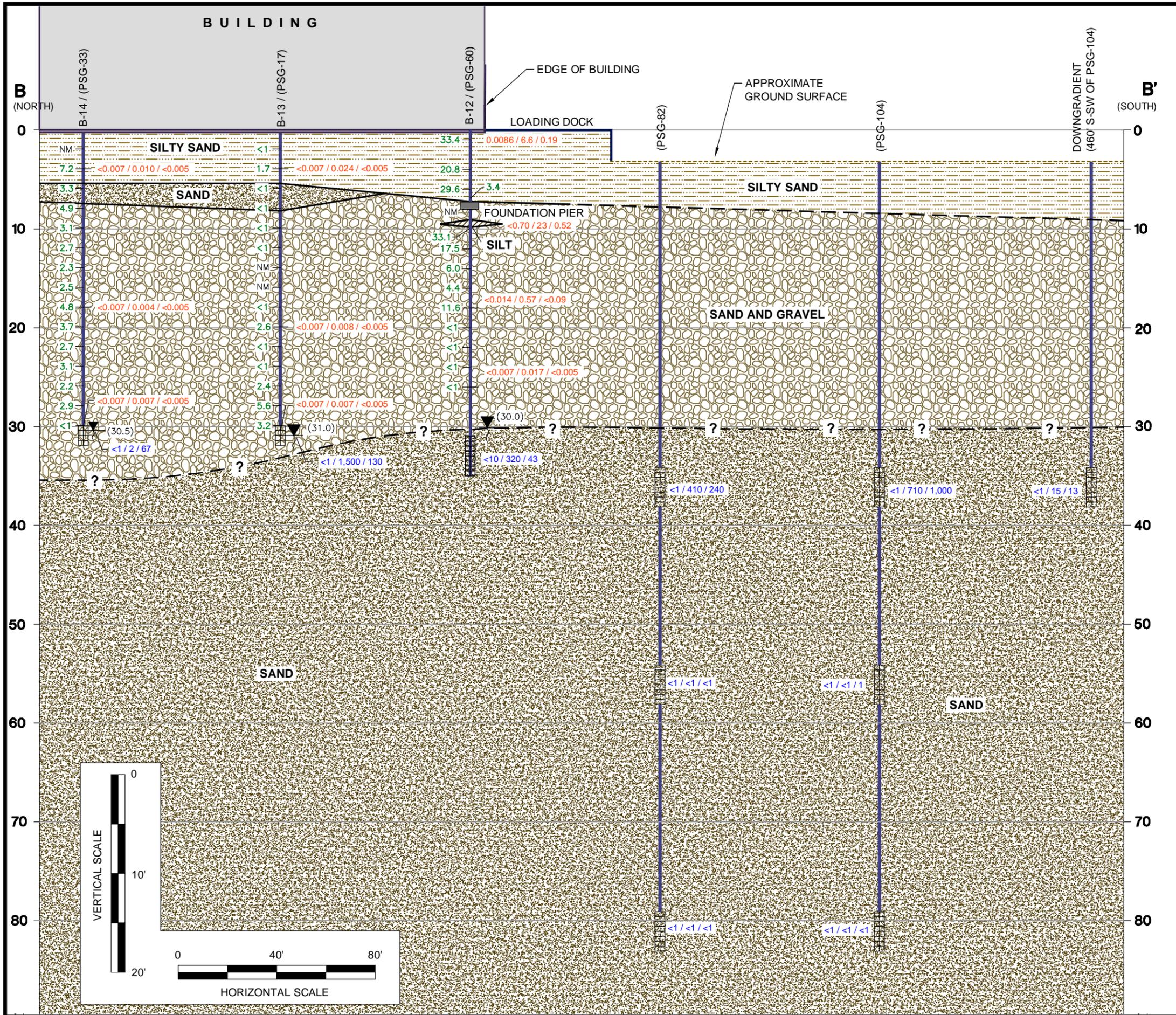
- NOTES**
- SOIL AND GROUNDWATER SAMPLES WERE COLLECTED BETWEEN MAY 8-11, 2006.
 - THE PID WAS NOT FUNCTIONING ON MAY 11, 2006 DURING DRILLING OF B-15, B-16, AND B-17; OLFACTORY EVIDENCE OF IMPACTS WERE OBSERVED AT B-15 IN SOIL FROM 0-6.5 FEET BELOW GROUND SURFACE (BGS) AND AT B-16 IN SOIL FROM 0-2 FEET BGS; ODORS WERE NOT OBSERVED AT B-17.
 - FIGURE 7 SHOWS THE CROSS SECTION LOCATIONS.

PROJECT:		DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS	
SHEET TITLE:		GEOLOGIC CROSS SECTION A-A'	
DRAWN BY:	SIEWERTD	SCALE:	AS SHOWN
CHECKED BY:	JAB	PROJ. NO.	02541.33
APPROVED BY:	JAB	FILE NO.	25413306.DWG
DATE:	APRIL 2009	DATE PRINTED:	
FIGURE 6			

**STATEMENT OF BASIS
USEPA**



PLOT DATA
 Drawing Name: j:\02541\25\25412522.dwg
 Operator Name: siewertd
 Scale: 1"=40'



LEGEND

- APPROXIMATE GROUND SURFACE
- - - STRATIGRAPHIC CONTACT (DASHED WHERE INFERRED)
- 2.1 PID RESULTS FOR FIELD-SCREENED SOIL SAMPLES
- <0.007 / <0.007 / <0.005 PCE / TCE / CIS-1,2-DCE CONCENTRATIONS IN UNSATURATED SOIL, (mg/kg)
- <1 / 2 / <1 PCE/TCE/CIS-1,2-DCE CONCENTRATIONS IN GROUNDWATER, (ug/L)
- (32.0) ▾ DEPTH (BELOW GROUND SURFACE) AT WHICH SATURATED SOIL WAS ENCOUNTERED.
- NM NOT MEASURED
- ┆ BORING LOCATION
- ┆ SAMPLE LOCATION
- ┆ BOTTOM OF BORING
- ▢ SCREEN POINT SAMPLER DEPTH
- ▢ SAND AND GRAVEL
- ▢ SILT / SILTY CLAY
- ▢ SILTY SAND
- ▢ SAND

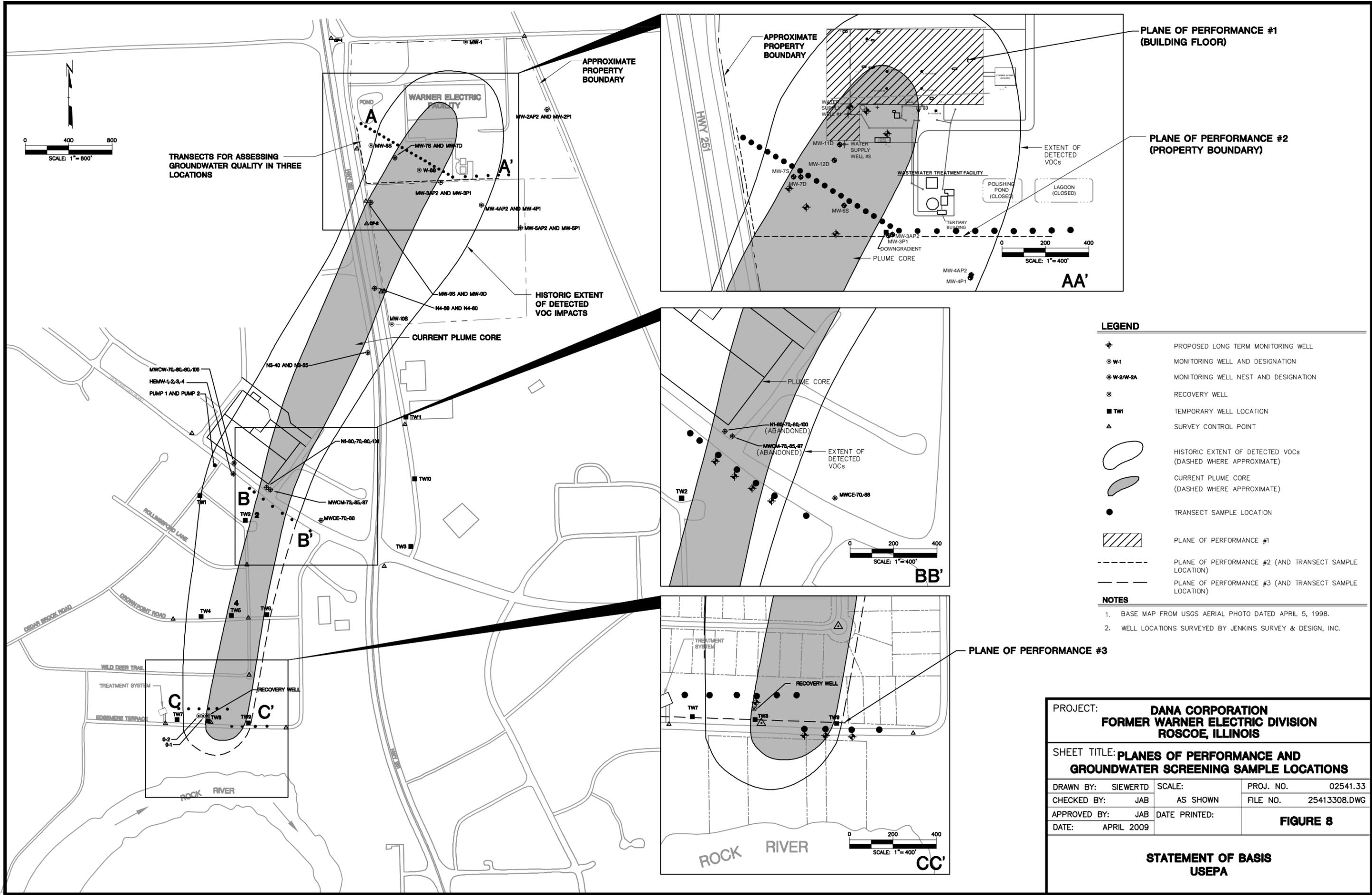
- NOTES**
- SOIL AND GROUNDWATER SAMPLES WERE COLLECTED BETWEEN MAY 8-11, 2006.
 - FIGURE 5 SHOWS THE CROSS SECTION LOCATIONS.

PROJECT: DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS		
SHEET TITLE: GEOLOGIC CROSS SECTION B -B'		
DRAWN BY: SIEWERTD	SCALE: AS SHOWN	PROJ. NO. 02541.25
CHECKED BY: JAB	DATE PRINTED:	FILE NO. 25412522.DWG
APPROVED BY: JAB	FIGURE 7	
DATE: APRIL 2009		

**STATEMENT OF BASIS
USEPA**

PLOT DATA
 Drawing Name: j:\02541\25\25412522.dwg
 Operator Name: siewertd
 Scale: 1"=40'

PLOT DATA
 Drawing Name: J:\02541\30\25413002.dwg
 Operator Name: siewertd
 Scale: 1"=400'



LEGEND

- ⊕ PROPOSED LONG TERM MONITORING WELL
- ⊙ W-1 MONITORING WELL AND DESIGNATION
- ⊕ W-2/W-2A MONITORING WELL NEST AND DESIGNATION
- ⊗ RECOVERY WELL
- TW1 TEMPORARY WELL LOCATION
- △ SURVEY CONTROL POINT
- HISTORIC EXTENT OF DETECTED VOCs (DASHED WHERE APPROXIMATE)
- CURRENT PLUME CORE (DASHED WHERE APPROXIMATE)
- TRANSECT SAMPLE LOCATION
- ▨ PLANE OF PERFORMANCE #1
- PLANE OF PERFORMANCE #2 (AND TRANSECT SAMPLE LOCATION)
- PLANE OF PERFORMANCE #3 (AND TRANSECT SAMPLE LOCATION)

NOTES

- BASE MAP FROM USGS AERIAL PHOTO DATED APRIL 5, 1998.
- WELL LOCATIONS SURVEYED BY JENKINS SURVEY & DESIGN, INC.

PROJECT:		DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS	
SHEET TITLE: PLANES OF PERFORMANCE AND GROUNDWATER SCREENING SAMPLE LOCATIONS			
DRAWN BY: SIEWERTD	SCALE: AS SHOWN	PROJ. NO. 02541.33	
CHECKED BY: JAB		FILE NO. 25413308.DWG	
APPROVED BY: JAB	DATE PRINTED:	FIGURE 8	
DATE: APRIL 2009			

**STATEMENT OF BASIS
USEPA**