

## **APPENDIX II**

### **THIRD QUARTER 2005 POTENTIOMETRIC CONTOUR MAPS FOR THE CEDARVILLE AQUIFER**

## LEGEND

-  Cedarville Aquifer Extraction Well
  -  Upper Cedarville Aquifer Monitoring Well
  -  Middle Cedarville Aquifer Monitoring Well
  -  Lower Cedarville Aquifer Monitoring Well
- Composite Potentiometric Ground Water Elevation from the Cedarville Aquifer  
Measured September 15, 2005.  
(1 Foot Contour Interval)

NOTE: Due to an apparent local dewatering at CW01-01 in the third quarter, the potentiometric surface from the second quarter was used to ensure a conservative minimum drawdown.

Particle Track (September 2005)

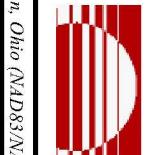
Vernay Facility Boundary

0 360  
Feet



CLIENT  
**VERNAY LABORATORIES, INC.**  
TITLE  
**MODELED EQUIPOTENTIAL SURFACES OF THE  
CEDARVILLE AQUIFER (SEPTEMBER 2005)**

FIGURE NO.  
**September 2005**  
DRAWN BY  
**ALH**  
PROJECT NO.  
**292.II.20**



**The Payne Firm, Inc.**  
Environmental Consultants  
Cincinnati / Cleveland

REFERENCE Greene County Auditors, Orthophotograph (2003); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)

## LEGEND

Cedarville Aquifer Extraction Well

Upper Cedarville Aquifer Monitoring Well

Potentiometric Ground Water  
Elevation from the Upper Cedarville Aquifer  
Measured September 15, 2005.  
(1 Foot Contour Interval)

NOTE: Due to an apparent local dewatering  
at CW01-01 in the third quarter, the potentiometric  
surface from the second quarter was used to  
ensure a conservative minimum drawdown.

Particle Track (September 2005)

Vernay Facility Boundary

0 360  
Feet

E:\Data\DE\DATA\Vernay\GSGround\WaterLevel\David\Back 2005\September 2005\Basin\_1.mxd

FIGURE NO.

September 2005

DATE

10/11/05

DRAWN BY

ALH

APPROVED BY

KDK

PROJECT NO.

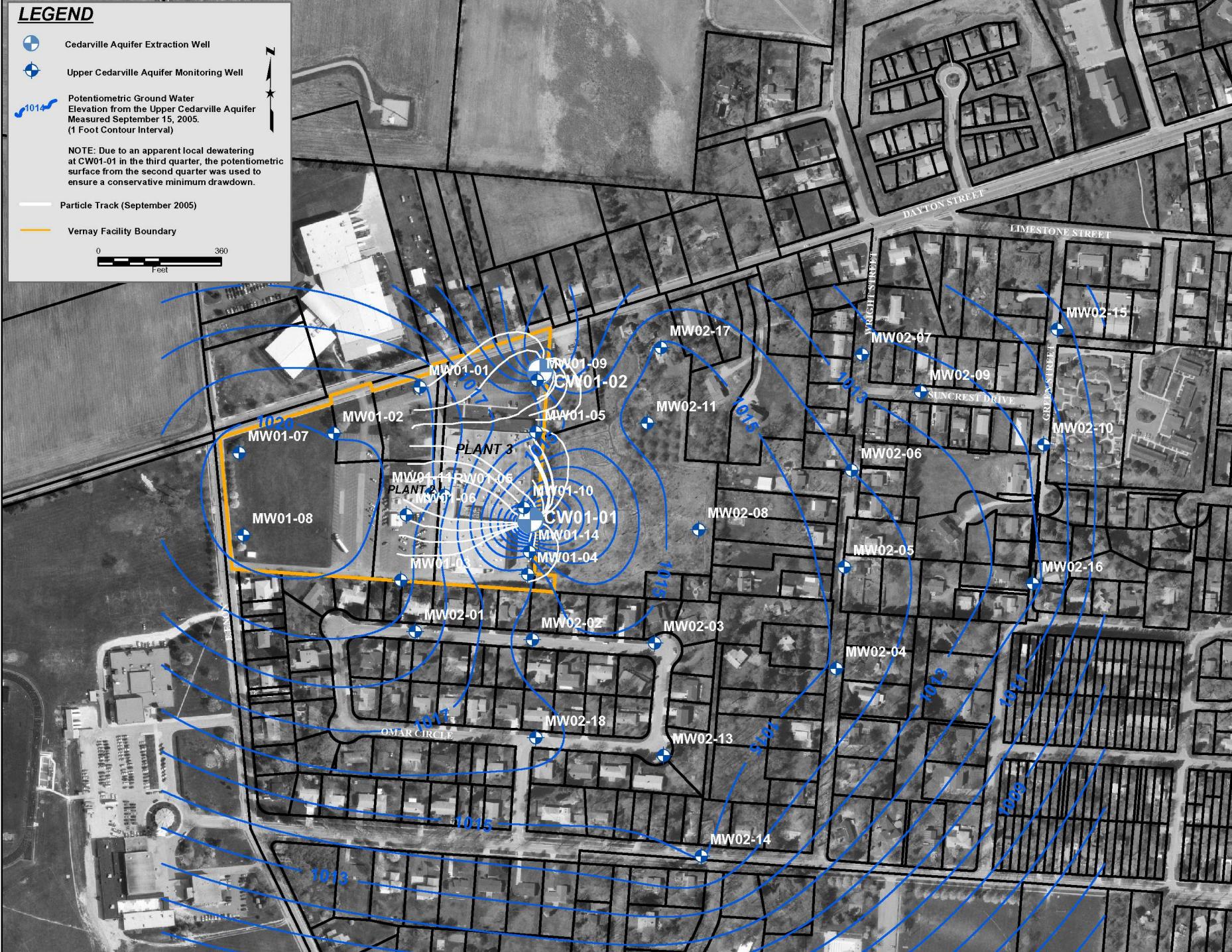
292.11.20



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CLIENT  
**VERNAY LABORATORIES, INC.**  
TITLE  
**MODELED EQUIPOTENTIAL SURFACES OF THE  
UPPER CEDARVILLE AQUIFER (SEPTEMBER 2005)**  
REFERENCE Greene County Auditors, Orthophotograph (2003); State Plane Coordinates from Woelpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)

## LEGEND

-  Cedarville Aquifer Extraction Well
-  Middle Cedarville Aquifer Monitoring Well
-  Potentiometric Ground Water  
Elevation from the Middle Cedarville Aquifer  
Measured September 15, 2005.  
(1 Foot Contour Interval)

NOTE: Due to an apparent local dewatering at CW01-01 in the third quarter, the potentiometric surface from the second quarter was used to ensure a conservative minimum drawdown.

Particle Track (September 2005)

Vernay Facility Boundary

0 360  
Feet

P:\Data\PH-MG\Vernay\GSG\Ground Water Levels\DavidBack\2005\September\2005\_PotSur\_Middle.mxd

FIGURE NO.

DATE

10/11/05

DRAWN BY

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PROJECT NO.

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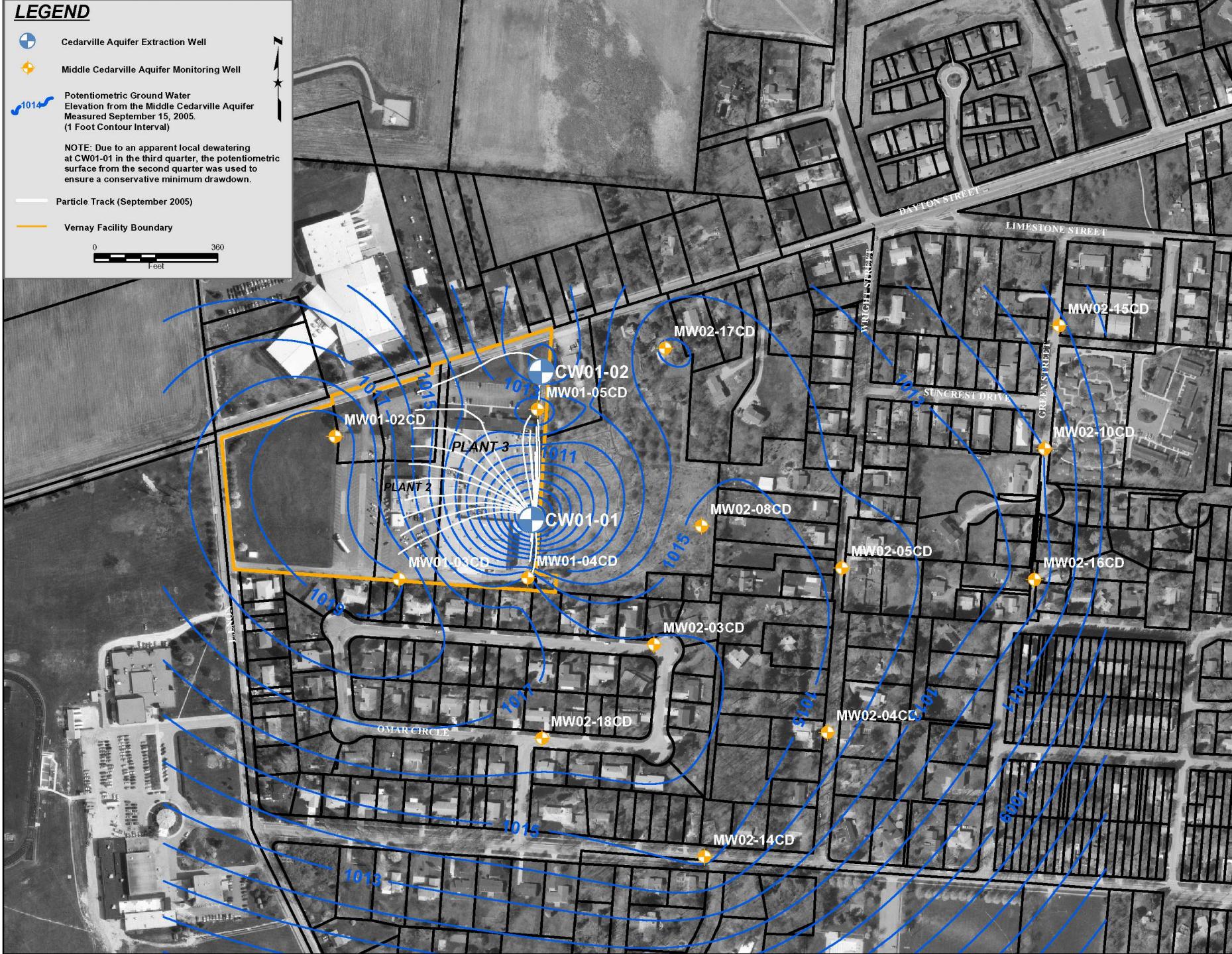
TITLE

MODELED EQUIPOTENTIAL SURFACES OF THE

MIDDLE CEDARVILLE AQUIFER (SEPTEMBER 2005)

REFERENCE

Greene County Auditors, Orthophotograph (2003); State Plane Coordinates from Woolpert Surveying, LLP, Dayton, Ohio (NAD83/NAVD88)



## LEGEND

Cedarville Aquifer Extraction Well

Lower Cedarville Aquifer Monitoring Well

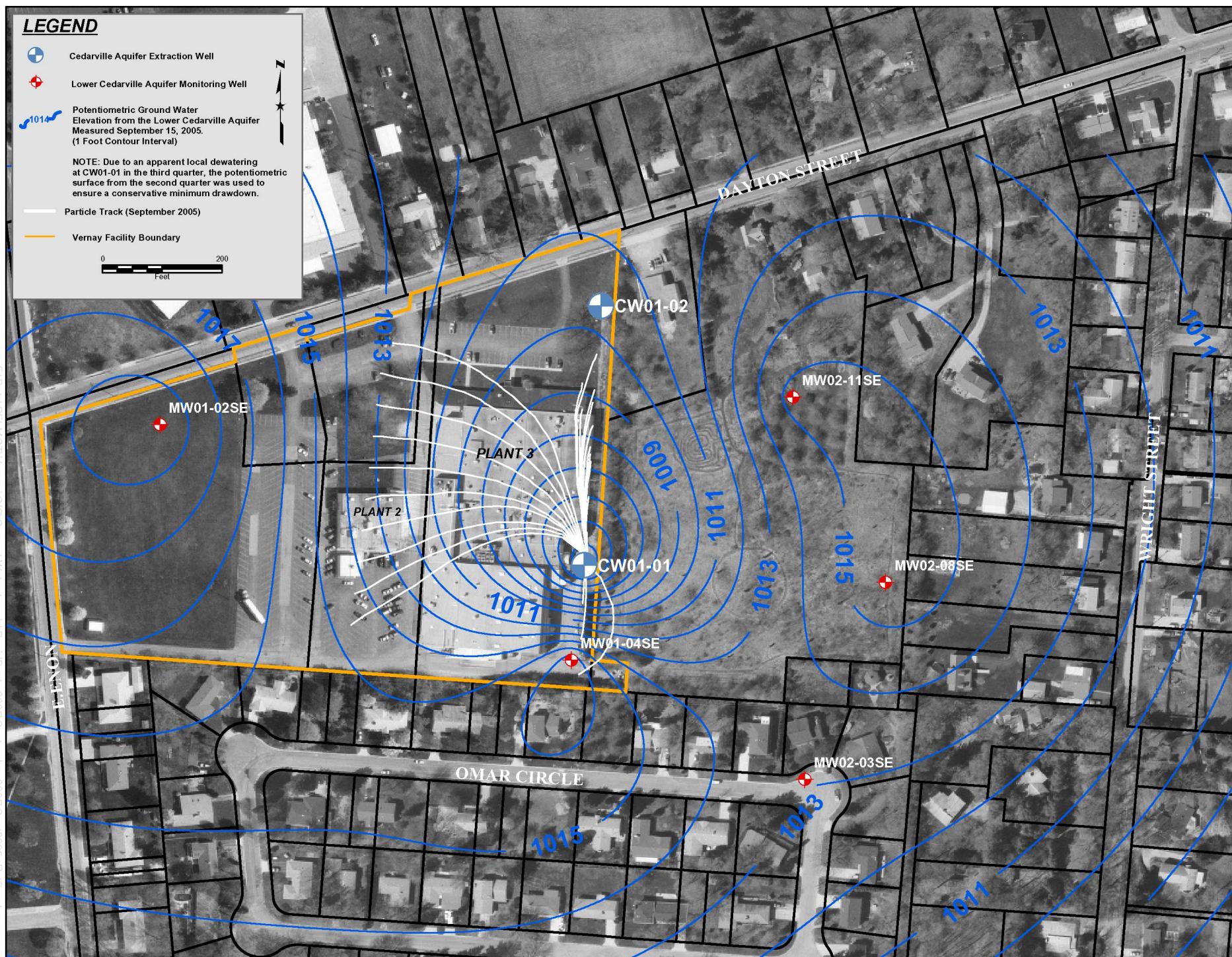
Potentiometric Ground Water Elevation from the Lower Cedarville Aquifer Measured September 15, 2005. (1 Foot Contour Interval)

NOTE: Due to an apparent local dewatering at CW01-01 in the third quarter, the potentiometric surface from the second quarter was used to ensure a conservative minimum drawdown.

Particle Track (September 2005)

Vernay Facility Boundary

0 200  
Feet



E:\Data\PF\LMG\Vernay\GIS\Ground Water\levels\David\Back 2005\September 2005\_ParSur\_Lower.mxd

CLIENT	VERNAY LABORATORIES, INC.
TITLE	MODELED EQUIPOTENTIAL SURFACES OF THE LOWER CEDARVILLE AQUIFER (SEPTEMBER 2005)

FIGURE NO.	September 2005	DATE	10/11/05
DRAWN BY	ALH	APPROVED BY	KDK
PROJECT NO.	292.11.20		



The Payne Firm, Inc.

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REFERENCE Greene County Auditors, Orthophotograph (2003); State Plane Coordinates from Woelpert Surveying, LLP, Dayton, Ohio (NAD83/NAD88)