

# UNIFORM KENTUCKY WELL CONSTRUCTION RECORD

Use this form to report installation of monitoring or water wells.  
Original copy must be submitted to Division of Water within 30 days of completion.  
See instructions on reverse of form. Do not write in shaded areas.

Record must be typed or neatly printed or it will be returned to the driller as unacceptable.  
One copy to Division of Water, one copy to owner, one copy to driller's files.

800-6387

23

4. Owner name <b>United States Department of Energy</b>				1. Kentucky Well ID (AKGWA) Number <b>8 0 0 5 - 6 3 8 7</b>																																																																
5. Owner address <b>5600 Hobbs Road</b>				2. Owner Well ID # <b>MW-423 Shallow</b>																																																																
6. City <b>West Paducah</b>		7. State <b>KY</b>		8. Zip <b>42053</b>		3. Attachments Required																																																														
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20. Surface elevation (ft) <b>381.00</b>		21. Elevation determined by <input type="checkbox"/> GPS <input checked="" type="checkbox"/> Map <input type="checkbox"/> Prior report <input type="checkbox"/> Survey		33. Total depth (ft) <b>75.17</b>		34. Depth to bedrock (ft) _____																																																														
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JB

see

**UNIFORM KENTUCKY WELL CONSTRUCTION RECORD**

**Attach Well Identification Number**

Use this form to report installation of monitoring or water wells.  
Original copy must be submitted to Division of Water within 30 days of completion.  
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One copy to Division of Water, one copy to owner, one copy to driller's file

23

**8002-3020**

**JB**

4. Owner name **United States Department of Energy**

5. Owner address **5600 Hobbs Road**

2. Owner Well ID # **MW-423 Intermed**

6. City **West Paducah** 7. State **KY** 8. Zip **42053**

3. Attachments Required

If site name and address differ from owner name and address:  
9. Site name **Paducah Gaseous Diffusion Plant C-400 Building**

1. Site plan or sketch map   
2. Well location  
On topographic map, OR   
Obtained by GPS unit

10. Site address **5600 Hobbs Road**

Conditionally Required  
3. Well diagram (monitoring well)   
4. Coliform analysis (if applicable)   
5. Signed variance (if applicable)

11. City **West Paducah** 12. State **KY** 13. Zip **42053**

Optional  
6. Other laboratory analysis report

14. Agency Interest (AI) Number **3059**  
15. Facility type & ID Number  
 CERCLA  Solid Waste  Drinking Water  
 RCRA  UST

31. Work start date **Jun 08 2009**

32. Work end date **Jun 08 2009**

16. Owner phone \_\_\_\_\_ 17. Site phone \_\_\_\_\_

Please report depths in feet below surface, not as relative elevations

18. USGS topo map **Heath** 22. Physiographic Region

33. Total depth (ft) **83.17**

19. County **Mccracken**

34. Depth to bedrock (ft) \_\_\_\_\_

20. Surface elevation (ft) **381.00** 21. Elevation determined by  
 GPS  Map  Prior report  
 Survey  Prior well log

35. Static water level (ft) **50.00**

36. Casing height above surface (in) **33.00**

23. Well Use  
 Agriculture  Geothermal  
 Commercial  Heat pump  
 Domestic  HVAC  
 Industrial  Injection  
 Monitoring / Ambient Monitor  
Remed  Mining  
 Public  Unused

24. Drilling method  
 Auger - HS  Jet wash  
 Auger - SS  Push/probe  
 Auger - bucket  Rotary - air  
 Auger - hand  Rotary - mud  
 Cable tool  Rotary - reverse  
 Core  Sand point  
 Driven casing  Sonic  
 Excavation  Unknown  
 Combined - HS auger & air rotary

25. Well status  
 Active  
 Inactive  
 Unsuitable for intended use

26. Wellhead  
 Flush  Locking  
 Well cap  
 Sanitary seal

**WATER WELLS ONLY**

37. Estimated well yield \_\_\_\_\_  
 gpm  gph  gpd

38. Well service \_\_\_\_\_ # of people served

39. Disinfectant amount \_\_\_\_\_ 40. Type

oz  qts  cups  Bleach  
 lbs  gal  Hypo-chlorite

41. Pitless adapter installed  Yes  No

42. Pump installed:  
 Submersible  Jet  Turbine  
 Bailer or bucket  Hand  No pump

43. Depth to intake (ft) \_\_\_\_\_

44. Apparent quality and odor:

APPEARANCE  Clear  Cloudy  Muddy  Turbid

ODOR  none  slight  mod  high

Iron  Sulfur  Salt

**COLIFORM TEST**

45. Coliform test type  
 fecal  fecal and total

46. Coliform test results  
 0 or <1.0  TNTC  Confluent

or \_\_\_\_\_ # colonies per 100 ml

47. Date Sampled \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

48. Date Analyzed \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

27. Well completion: Casing and screens						28. Annulus fill and seal		
From depth, ft.	To depth, ft.	Borehole diameter	Casing diameter	Casing type	Screen slot size	From depth, ft.	To depth, ft.	Material
0.0	78.83	8	2	PVC		1.0	55.50	Bentonite
78.83	80.83	8	2	PVC screen	0.010	55.50	58.0	Bentonite pellets
80.83	83.17	8	2	PVC		58.0	87.5	Sand

29. Lithologic log (if more space is needed, continue on separate page)			30. Sketch map
From depth, ft.	To depth, ft.	Description (include any show of water and indicate apparent quality)	
0.0	19.6	Silt	
19.6	23.6	Sandy Gravel	
23.6	25.1	Fine Sand	
25.1	27.8	Sandy Gravel	
27.8	35.2	Very Fine to Fine Sand W/Gravel	
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39.4	50.4	Silt	
50.4	57.7	Fine Sand	
57.7	86.4	Sandy Gravel	
86.4	87.5	Silt	

49. Comments  
One of 3 nested wells completed in a common 8-inch borehole as MW-423. 4'X4'X12" concrete pad, 8-inch Sch 40 steel locking cover, 4 steel bollards.

Latitude **37.115993**

Longitude **88.811082**

50. Affirmation: The work described above was done under my supervision, and this report is true and correct to the best of my knowledge. Note: the driller is not responsible for natural groundwater quality or quantity encountered while drilling or completing this well.

Lat/Log method  
 INT  GPS  SUR  REP

Signature of certified driller \_\_\_\_\_ Date signed **Jun 30 2009**

Date Received **JUL 13 2009**

Certification number **0344-0454-00** Drilling company **Chase Environmental Group, Inc.**

Initials of reviewer \_\_\_\_\_

**UNIFORM KENTUCKY WELL CONSTRUCTION RECORD**

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8002-3021 JB

23

4. Owner name United States Department of Energy

5. Owner address 5600 Hobbs Road

6. City West Paducah 7. State KY 8. Zip 42053

9. Site name Paducah Gaseous Diffusion Plant C-400 Building

10. Site address 5600 Hobbs Road

11. City West Paducah 12. State KY 13. Zip 42053

14. Agency Interest (AI) Number 3059

15. Facility type & ID Number  CERCLA  Solid Waste  Drinking Water  RCRA  UST

16. Owner phone 17. Site phone

18. USGS topo map Heath 19. County Mccracken

20. Surface elevation (ft) 381.00 21. Elevation determined by  GPS  Map  Prior report  Survey  Prior well log

22. Physiographic Region  Bluegrass  Ohio River Alluvium  E. Coal Field  W. Coal Field  Miss. Plateau  Jackson Purchase

23. Well Use  Agriculture  Geothermal  Commercial  Heat pump  Domestic  HVAC  Industrial  Injection  Monitoring / Ambient Monitor  Mining  Public  Unused  Remed

24. Drilling method  Auger - HS  Jet wash  Auger - SS  Push/probe  Auger - bucket  Rotary - air  Auger - hand  Rotary - mud  Cable tool  Rotary - reverse  Core  Sand point  Driven casing  Sonic  Excavation  Unknown  Combined - HS auger & air rotary

25. Well status  Active  Inactive  Unsuitable for intended use

26. Wellhead  Flush  Locking  Well cap  Sanitary seal

27. Well completion: Casing and screens

From depth, ft.	To depth, ft.	Borehole diameter	Casing diameter	Casing type	Screen slot size
0.0	82.83	8	2	PVC	
82.83	84.83	8	2	PVC screen	0.010
84.83	87.17	8	2	PVC	

28. Annulus fill and seal

From depth, ft.	To depth, ft.	Material
1.0	55.50	Bentonite
55.50	58.0	Bentonite pellets
58.0	87.5	Sand

29. Lithologic log (if more space is needed, continue on separate page)

From depth, ft.	To depth, ft.	Description (include any show of water and indicate apparent quality)
0.0	19.6	Silt
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39.4	50.4	Silt
50.4	57.7	Fine Sand
57.7	86.4	Sandy Gravel
86.4	87.5	Silt

30. Sketch map

31. Work start date Jun 08 2009

32. Work end date Jun 08 2009

33. Total depth (ft) 87.17

34. Depth to bedrock (ft)

35. Static water level (ft) 50.00

36. Casing height above surface (in) 33.00

37. Estimated well yield  gpm  gph  gpd

38. Well service # of people served

39. Disinfectant amount 40. Type  Bleach  Hypochlorite

41. Pitless adapter installed  Yes  No

42. Pump installed:  Submersible  Jet  Turbine  Bailor or bucket  Hand  No pump

43. Depth to intake (ft)

44. Apparent quality and odor:

APPEARANCE  Clear  Cloudy  Muddy  Turbid

ODOR  none  slight  mod  high

Iron  Sulfur  Salt

COLIFORM TEST

45. Coliform test type  fecal  fecal and total

46. Coliform test results  0 or <1.0  TNTC  Confluent

or # colonies per 100 ml

47. Date Sampled Day Year

48. Date Analyzed Month Day Year

49. Comments One of 3 nested wells completed in a common 8-inch borehole as MW-423. 4'X4'X12" concrete pad, 8-inch Sch 40 steel locking cover, 4 steel bollards.

50. A firmation: The work described above was done under my supervision, and this report is true and correct to the best of my knowledge. Note: the driller is not responsible for natural groundwater quality or quantity encountered while drilling or completing this well.

Signature of certified driller [Signature] Date signed Jun 30 2009

Certification number 0344-0454-00 Drilling company Chase Environmental Group, Inc.

Date Received JUL 13 2009

Initials of reviewer [Signature]

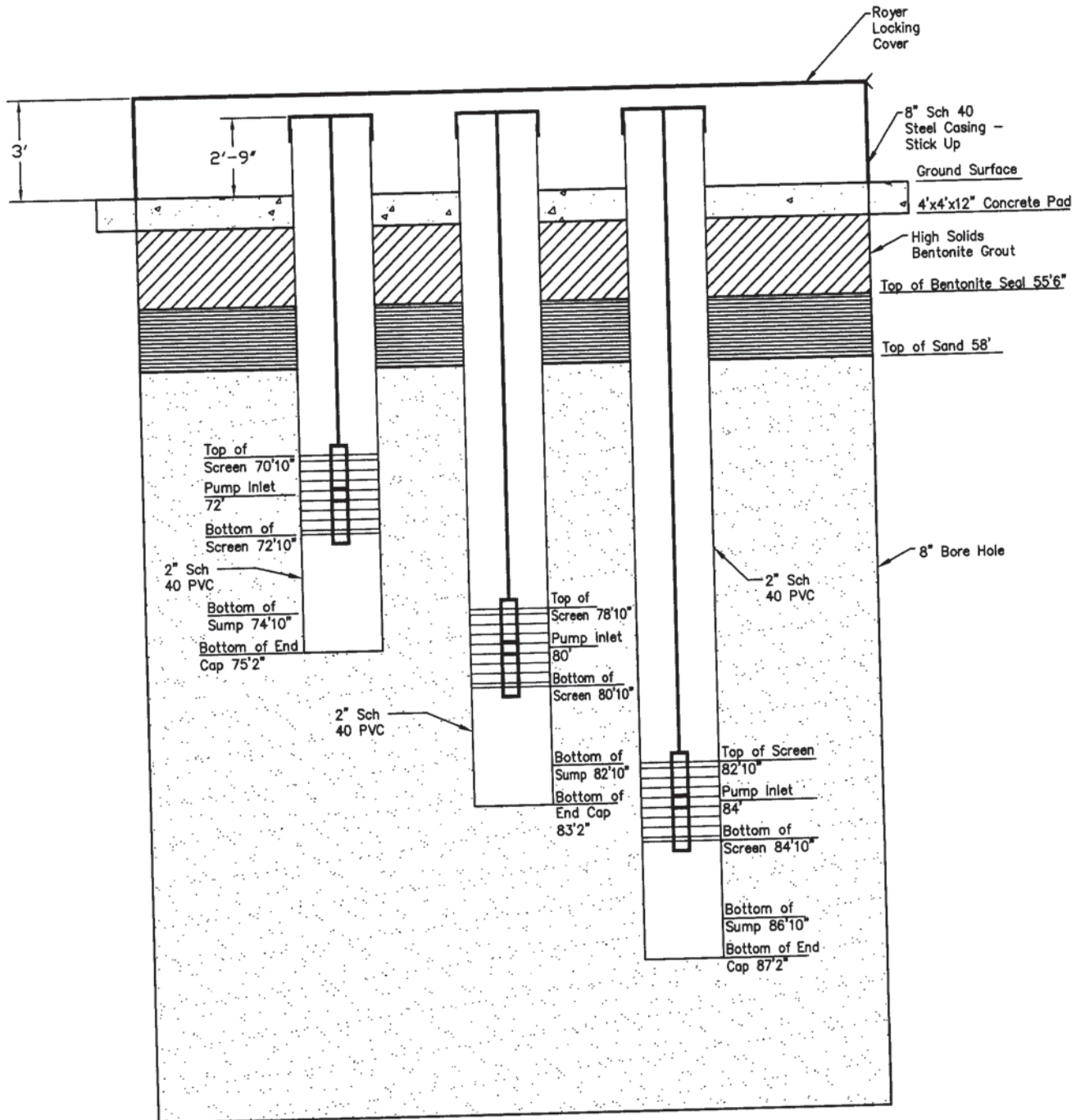
JB

gsc

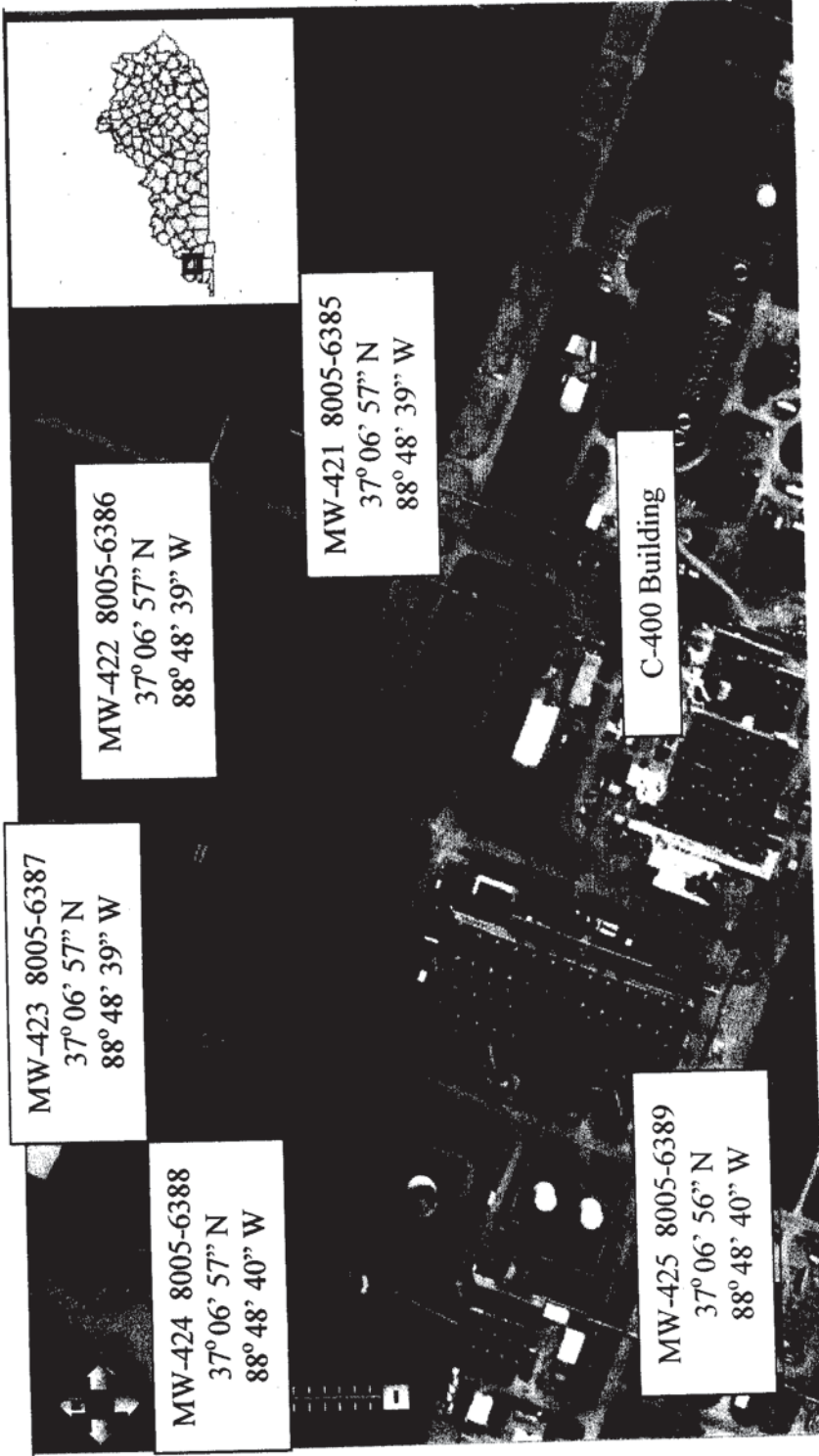
# MONITORING WELL CONSTRUCTION LOG

Location Name: Paducah Gaseous Diffusion Plant  
 Address: 5600 Hobbs Road  
 City/State/Zip: West Paducah, KY 42053

State Assigned # 8005-6387  
 Facility Assigned # MW-423



Comments: Drawing not to scale.



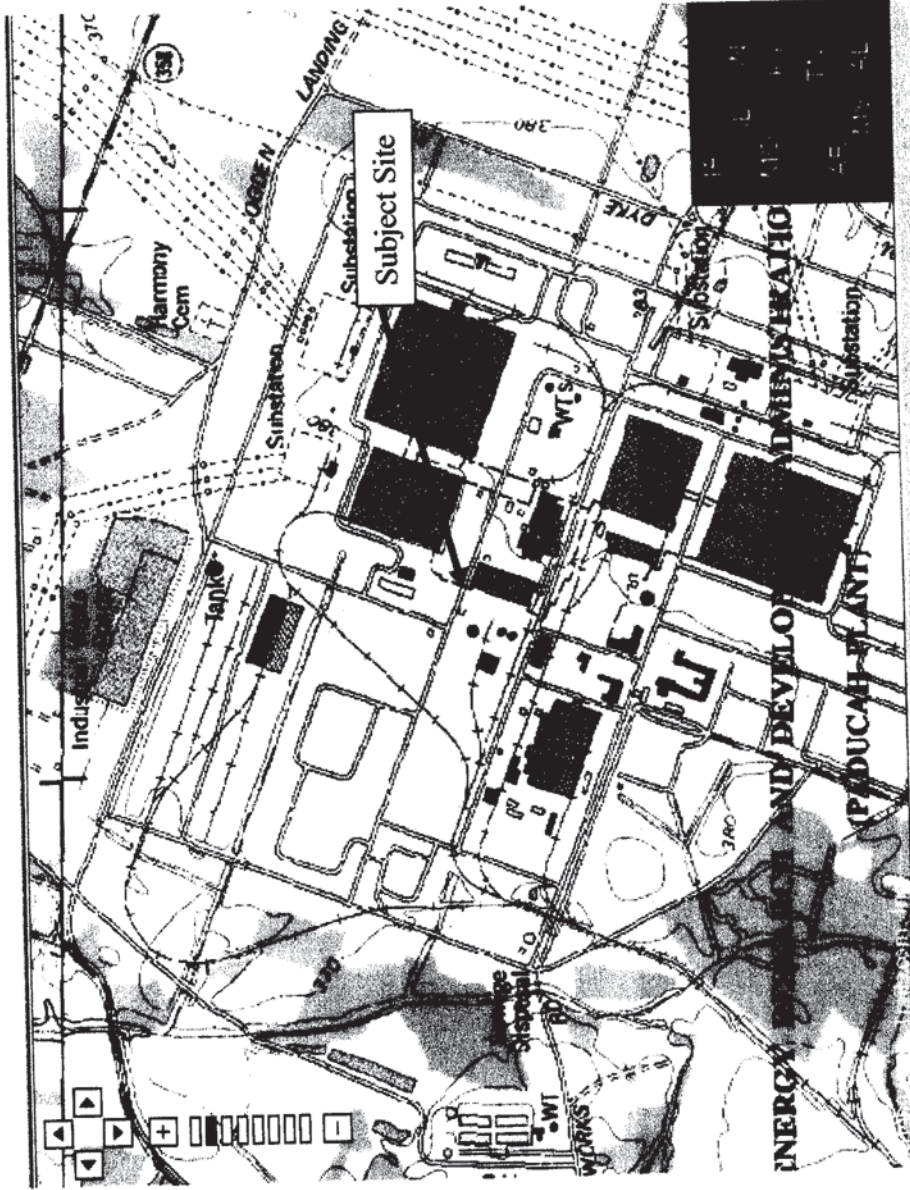
Title: Site Aerial Photograph  
Paducah Gaseous Diffusion Plant - C-400 Building  
5600 Hobbs Road, West Paducah, KY

Comments: Approximate Scale: 1" = 150'  
Coordinates taken from Google Earth

**Ceg**  
**CHASE ENVIRONMENTAL GROUP, INC.**  
environmental engineering, remediation & consulting

Drawn By: Todd W. Mills

Date: June 30, 2009



Center: 37.1157°N 88.8113°W  
 Elevation at center: 381 feet (116 meters)

Display format:  
 Decimal Degrees

<p><b>CHASE ENVIRONMENTAL GROUP, INC.</b>          environmental engineering, remediation &amp; consulting</p> <p>Drawn By: Todd W. Mills</p> <p>Date: June 30, 2009</p>	<p>Title: Site Topographic Map          Paducah Gaseous Diffusion Plant          West Paducah, Kentucky</p> <p>Comments: Scale: 1:24,000          Source: USGS 7.5' Topographic Series Heath Quadrangle</p>
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