

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 United States Department of Energy				1. Kentucky Well ID (AKGWA) Number 8 0 0 5 - 6 3 8 7																																																																
5. Owner address 5600 Hobbs Road				2. Owner Well ID # MW-423 Shallow																																																																
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 <input type="checkbox"/>																																																																
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14. Agency Interest (AI) Number 3059		15. Facility type & ID Number <input checked="" type="checkbox"/> CERCLA <input type="checkbox"/> Solid Waste <input type="checkbox"/> Drinking Water <input type="checkbox"/> RCRA <input type="checkbox"/> UST		31. Work start date Jun 08 2009		3. Well diagram (monitoring well) <input type="checkbox"/>																																																														
16. Owner phone		17. Site phone		32. Work end date Jun 08 2009		4. Coliform analysis (if applicable) <input type="checkbox"/>																																																														
18. USGS topo map Heath				22. Physiographic Region																																																																
19. County Mccracken				<input type="checkbox"/> Bluegrass <input type="checkbox"/> Ohio River Alluvium <input type="checkbox"/> E. Coal Field <input type="checkbox"/> W. Coal Field <input type="checkbox"/> Miss. Plateau <input checked="" type="checkbox"/> Jackson Purchase																																																																
20. Surface elevation (ft) 381.00		21. Elevation determined by <input type="checkbox"/> GPS <input checked="" type="checkbox"/> Map <input type="checkbox"/> Prior report <input type="checkbox"/> Survey <input type="checkbox"/> Prior well log		33. Total depth (ft) 75.17		34. Depth to bedrock (ft)																																																														
23. Well Use		24. Drilling method		25. Well status		35. Static water level (ft) 50.00																																																														
<input type="checkbox"/> Agriculture <input type="checkbox"/> Geothermal <input type="checkbox"/> Commercial <input type="checkbox"/> Heat pump <input type="checkbox"/> Domestic <input type="checkbox"/> HVAC <input type="checkbox"/> Industrial <input type="checkbox"/> Injection <input checked="" type="checkbox"/> Monitoring / Ambient Monitor <input type="checkbox"/> Public <input type="checkbox"/> Unused		<input type="checkbox"/> Auger - HS <input type="checkbox"/> Jet wash <input type="checkbox"/> Auger - SS <input type="checkbox"/> Push/probe <input type="checkbox"/> Auger - bucket <input type="checkbox"/> Rotary - air <input type="checkbox"/> Auger - hand <input type="checkbox"/> Rotary - mud <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary - reverse <input type="checkbox"/> Core <input type="checkbox"/> Sand point <input type="checkbox"/> Driven casing <input type="checkbox"/> Sonic <input type="checkbox"/> Excavation <input type="checkbox"/> Unknown <input type="checkbox"/> Combined - HS auger & air rotary		<input checked="" type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Unsuitable for intended use		36. Casing height above surface (in) 33.00																																																														
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JB

see

UNIFORM KENTUCKY WELL CONSTRUCTION RECORD

Attach Well Identification Number

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23

8002-3020

JB

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: CERCLA, RCRA, Solid Waste, UST, Drinking Water

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, Survey, Prior report, Prior well log

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

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

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

25. Well status: Active, Inactive, Unsuited 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	78.83	8	2	PVC	
78.83	80.83	8	2	PVC screen	0.010
80.83	83.17	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
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
35.2	39.4	Sandy Gravel to Gravely Sand
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): 83.17 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, Bailer or bucket, Hand, No pump

43. Depth to intake (ft): _____ 44. Apparent quality and odor: Clear, Cloudy, Muddy, Turbid, none, slight, mod, high, Iron, Sulfur, Salt

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. 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.

Signature of certified driller: _____ Date signed: Jun 30 2009

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

Lat/Log method: INT, GPS, SUR, REP Latitude: 37.115993 Longitude: 88.811082 Date Received: JUL 13 2009

JB

SLC

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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: **JB** 3059

15. Facility type: 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

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

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)
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25.1	27.8	Sandy Gravel
27.8	35.2	Very Fine to Fine Sand W/Gravel
35.2	39.4	Sandy Gravel to Gravelly Sand
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: _____

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 _____

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Date Received: JUL 13 2009

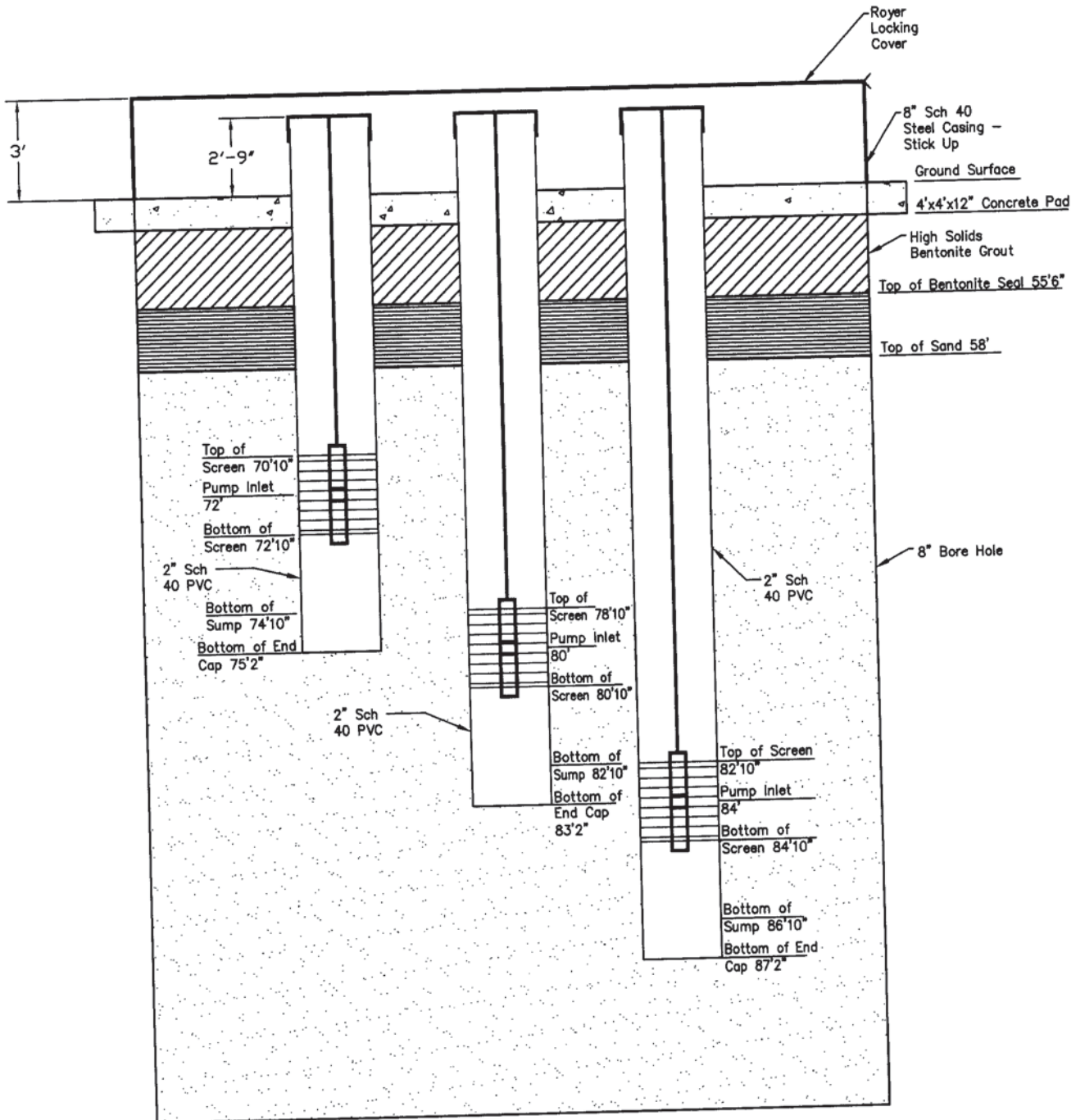
Initials of reviewer: _____

gsc

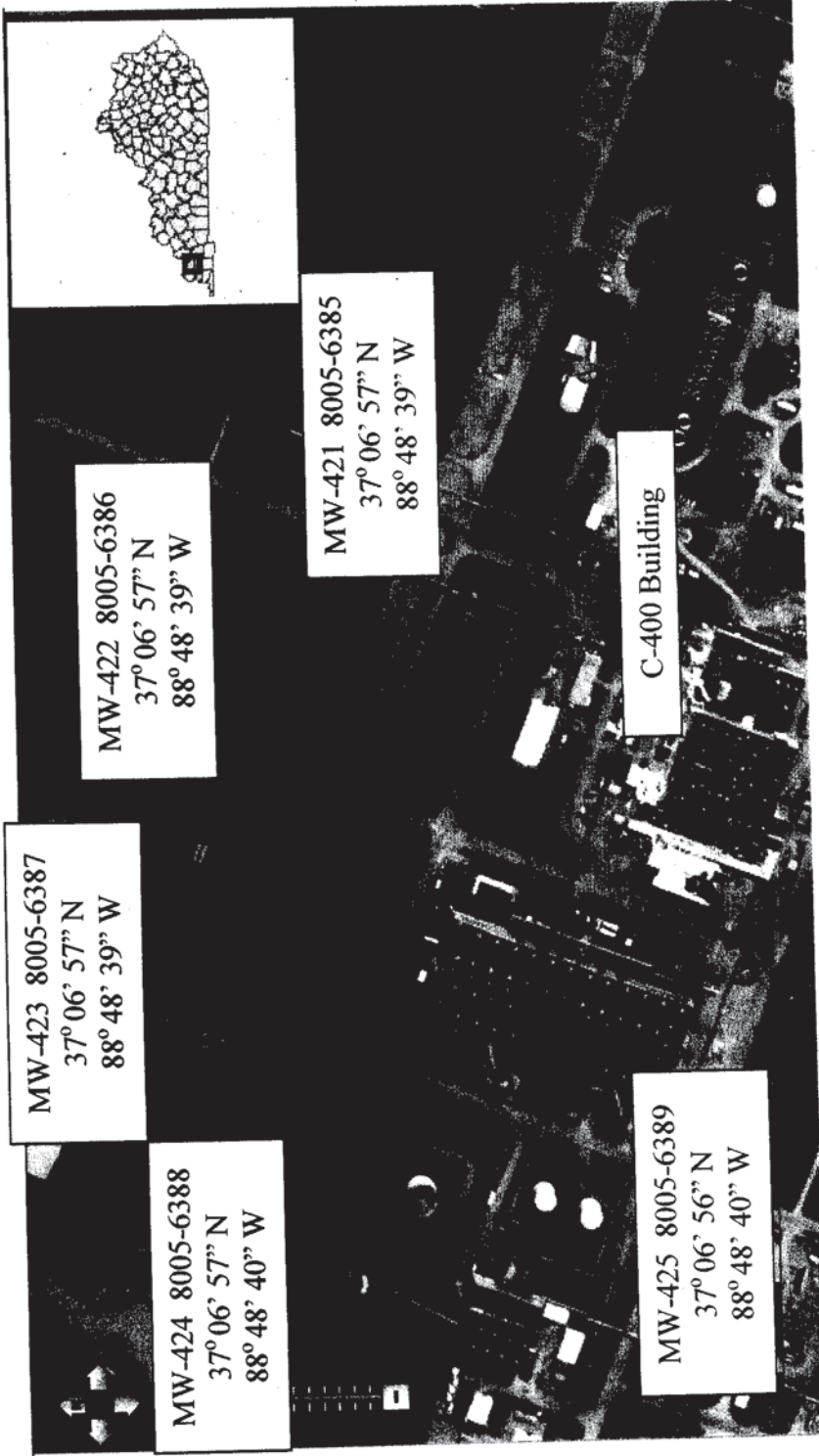
MONITORING WELL CONSTRUCTION LOG

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.



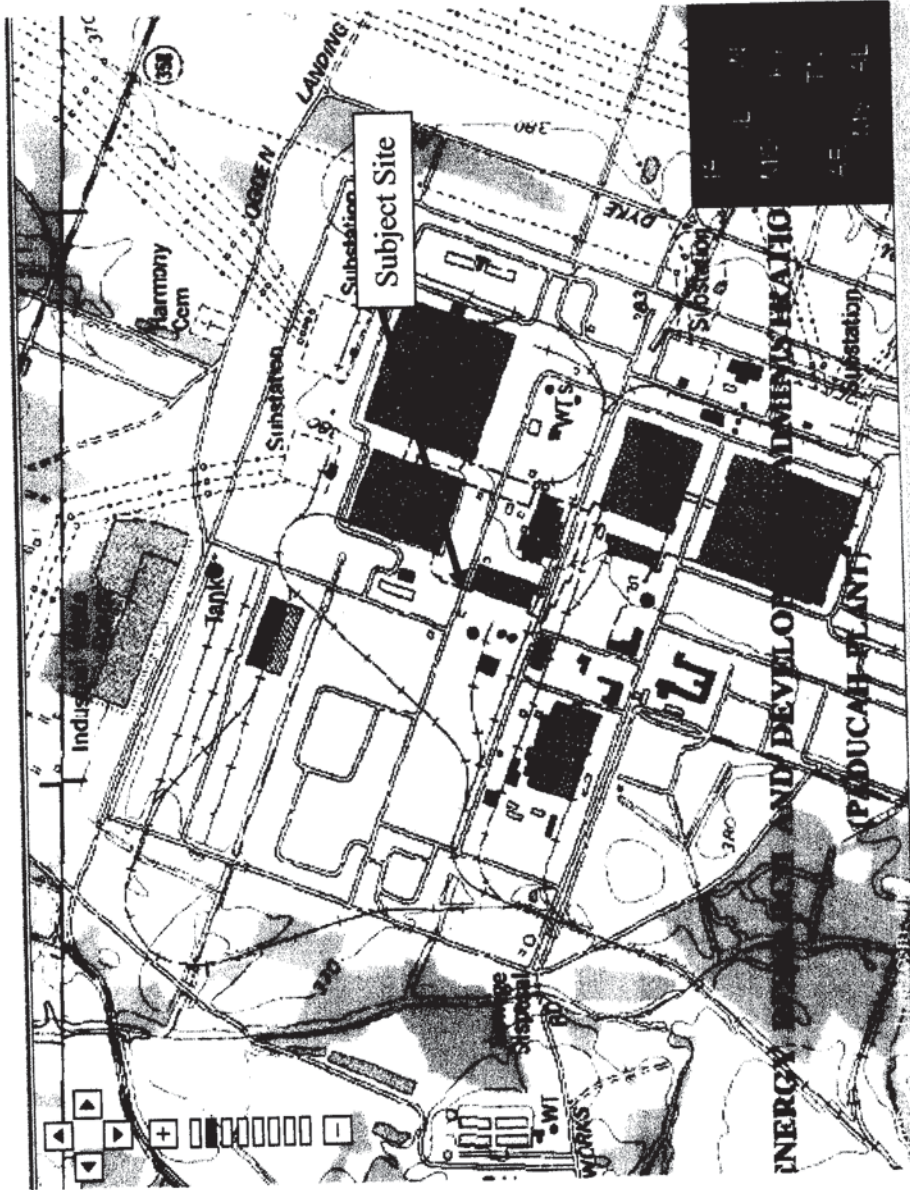
Title: Site Aerial Photograph
Paducah Gaseous Diffusion Plant - C-400 Building
5600 Hobbs Road, West Paducah, KY

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



Display format:
Decimal Degrees

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

<p>Ceg CHASE ENVIRONMENTAL GROUP, INC. environmental engineering, remediation & 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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