

(2) GENERAL INFORMATION:

Facility Name PDGP  
Mailing Address P.O. Box 1410  
City Paducah  
State Ky Zip 42002

Facility Address McCaw Rd  
City Keok  
State Ky Zip 42053  
Owner's Phone (502) 441-6000

Date Received: JAN 12 1998

(3) AKGWA NUMBER:

8 0 0 3 - 3 4 8 4

(4) WELL LOCATION:

USGS Quadrangle Name HEAT-

County McCracken

Latitude 37 06 58N

Longitude 88 48 39 W

(5) GENERAL WELL CONSTRUCTION:

Start Date: 12/10/97  
Finish Date: 12/23/97  
Drilling Method: Roto Sonic  
Surface Elevation: 375 ft.  
Total Depth: 136' ft.  
Depth to Bedrock: — ft.  
(If Applicable)  
Depth to Static Water: 40 ft.

(6) PHYSIOGRAPHIC/HYDROLOGIC REGION:

( ) Blue Grass ( ) Ohio River Alluvium  
( ) E. Coal Field ( ) W. Coal Field  
( ) Miss. Plateau (  ) Jackson Purchase

(7) FACILITY TYPE:

( ) Surface Mining ( ) RCRA ( ) TSCA  
(  ) CERCLA ( ) Site Assessment  
( ) UST ( ) Solid Waste Landfil  
( ) Other: ( ) Landfarm

(8) WELL USE:

(  ) Water Quality ( ) Water Level Monitoring  
( ) Ambient Monitoring ( ) Remediation  
( ) Other

(9) LABORATORY ANALYSIS:

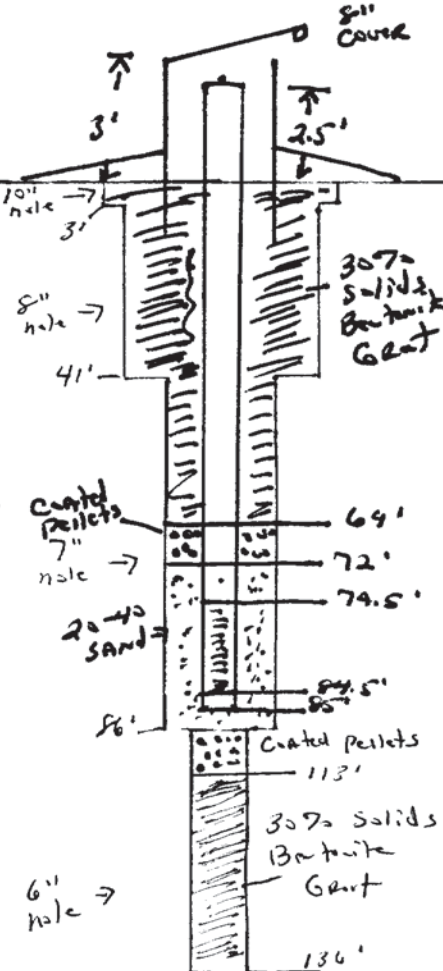
(Attach Copy of Results)  
Sampling Date: NA  
Analysis Date: \_\_\_\_\_  
Laboratory Name: \_\_\_\_\_

(10) WELL COMPLETION INFORMATION

Feet Below Surface From:	To:	Hole Diameter	Casing Diameter	Casing Type
0	3	10"	2"	SS
3	41	8"	2"	SS
41	74.5	7"	2"	SS
Screen 010" slot 2" SS				
74.5 84.5				
Sump				
84.5 85' 2" SS				
2" Centralizers SS @ 15' 40', 65'				

Attach additional sheets if necessary

(11) WELL CONSTRUCTION SKETCH:



(12) LITHOLOGIC LOG:

Feet Below Surface From:	To:	Description
0	1	Clayey Gravel
1	19.5	Clay
19.5	26	Sandy Gravel
26	27	Clay
27	32.5	Silty Sand
32.5	38.5	Silty Clay
38.5	42	Clay
42	58	Sand
58	84	Gravel
84	91	Silty Clay
91	95	Silty Sands
95	126	Clay
126	133	Sand
133	136	Clay

Attach additional sheets if necessary

(13) SITE SKETCH MAP:

See Attached maps.

(14) COMMENTS:

10" Temp. Sonic Csg to 3', 8" Temp. Sonic Csg to 41'. 7" Temp Sonic Csg to 86'. TD 6" Sonic hole at 136'. Backfill 113'-136' with 30% Solids bentonite grout. Let set overnight. Backfill 86'-113' with coated bentonite pellets. Let set overnight. Install well above 2" SS screen 74.5'-84.5' sump 84.5'-85' Sandpack 73'-86' (75%) coated pellet seal 69'-72' (15%) 30% Solids Grout 0-69' (15%).

(15) AFFIRMATION: The work described above was done under my supervision, and this report is true and correct to the best of my knowledge.

Drilling Company

State Certification Number or Rig Operator's No.

Signature of Responsible Certified Driller



# CH2MHILL

## MONITORING WELL CONSTRUCTION LOG: Standard

Installation Monitoring Well

Site WAG 6

AKGWA Number 8003-3484

Drilling Contractor Alliance Environmental, Inc.

Built By Ed Miller

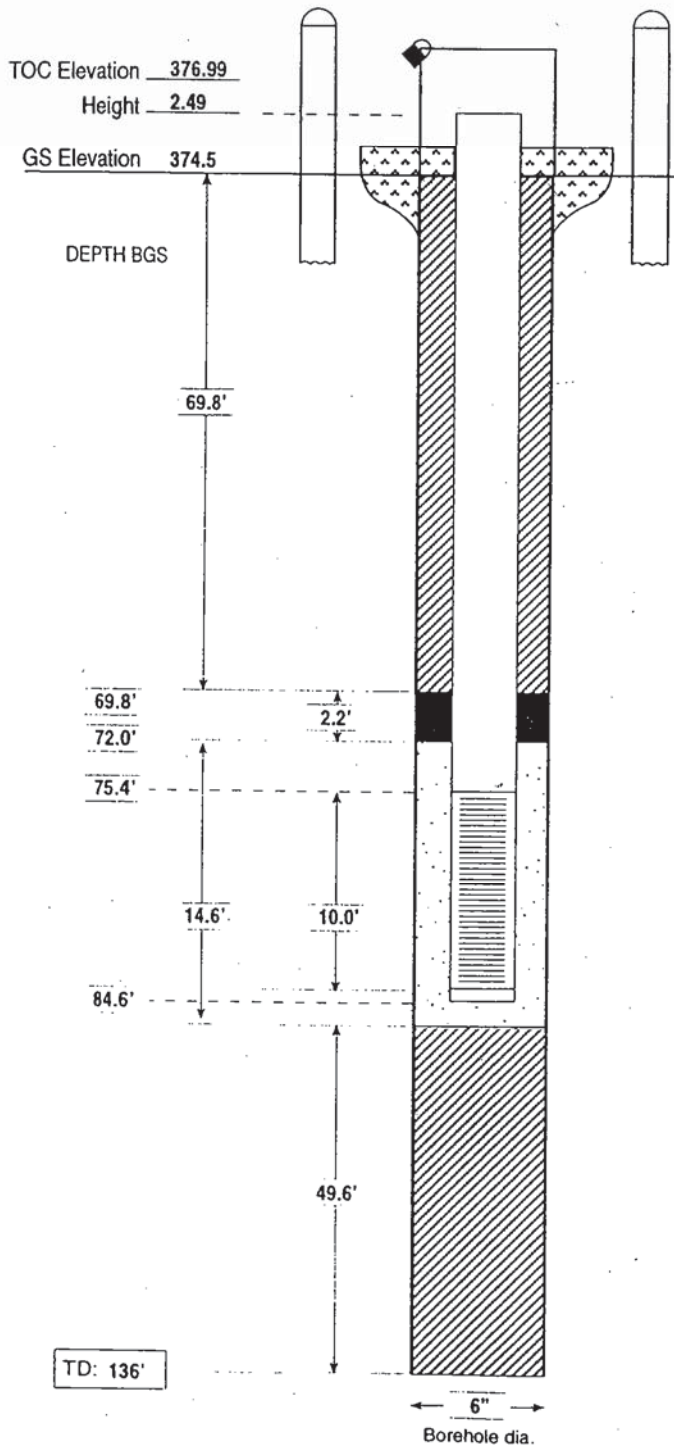
Well Number MW-343 (400-208)

Client/Project PGDP

Starting date 12/19/98 time 0830

Completion date 12/20/98 time 1600

Well Coordinates E 4403.97 N 1083.68



TD: 136'

### PROTECTIVE GROUND POST

Quantity 4  
Material / Type Seamless Steel Schedule 40 ASTM A53-90  
Diameter 6"

### PROTECTIVE CSG

Material / Type Steel / Schedule 40  
Diameter 6" Water Tight Seal (Y / N)  
Depth BGS 3.5' Weep Hole (Y / N)

### SURFACE PAD

Composition & Size Concrete 4' x 4' x 8"

### RISER PIPE

Type 316 Stainless Steel Schedule 55  
Diameter 2"  
Total Length (TOC to TOS) 72.5'

### GROUT / SEAL

Composition & Proportions Pure Gold Grout with 30% Solids  
Tremied (Y / N)  
Interval BGS Surface to 69.8'

### CENTRALIZERS (Y / N)

Depth(s) BGS 24', 49', 54'

### BENTONITE SEAL

Interval BGS 69.8' to 72.0'  
Hydration Time >8 hours

### FILTER PACK

Type Number 5 Quartz Sand  
Tremied (Y / N)

### SCREEN

Type 316 Stainless Steel Schedule 55  
Diameter 2"  
Slot Size & Type 0.01" Wire Wrap  
Interval BGS 75.4' to 85.1'

### BACKFILL PLUG

Material Pure Gold Grout with 30% Solids and Bentonite Pellets  
Hydration Time >24 hours  
Tremied (Y / N)

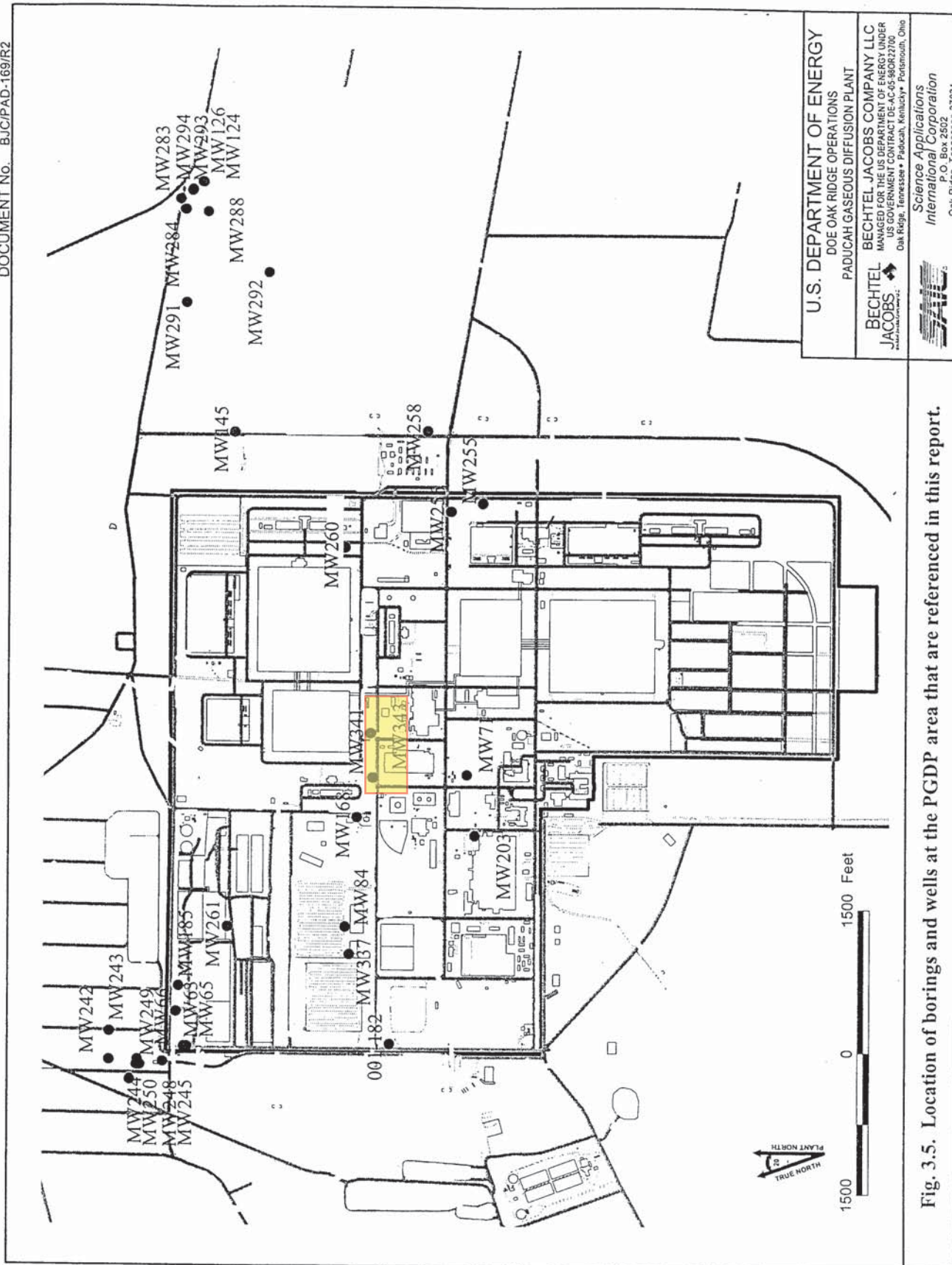


Fig. 3.5. Location of borings and wells at the PGDP area that are referenced in this report.

U.S. DEPARTMENT OF ENERGY  
DOE OAK RIDGE OPERATIONS  
PADUCAH GASEOUS DIFFUSION PLANT

BECHTEL JACOBS COMPANY LLC  
MANAGED FOR THE U.S. DEPARTMENT OF ENERGY UNDER  
US GOVERNMENT CONTRACT DE-AC-05-84OR21700  
Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio

Science Applications  
International Corporation  
P.O. Box 2502  
Oak Ridge, Tennessee 37831

FIGURE No. c5ac90001sk499 apr  
DATE 05-09-02

PLAN 12 1998

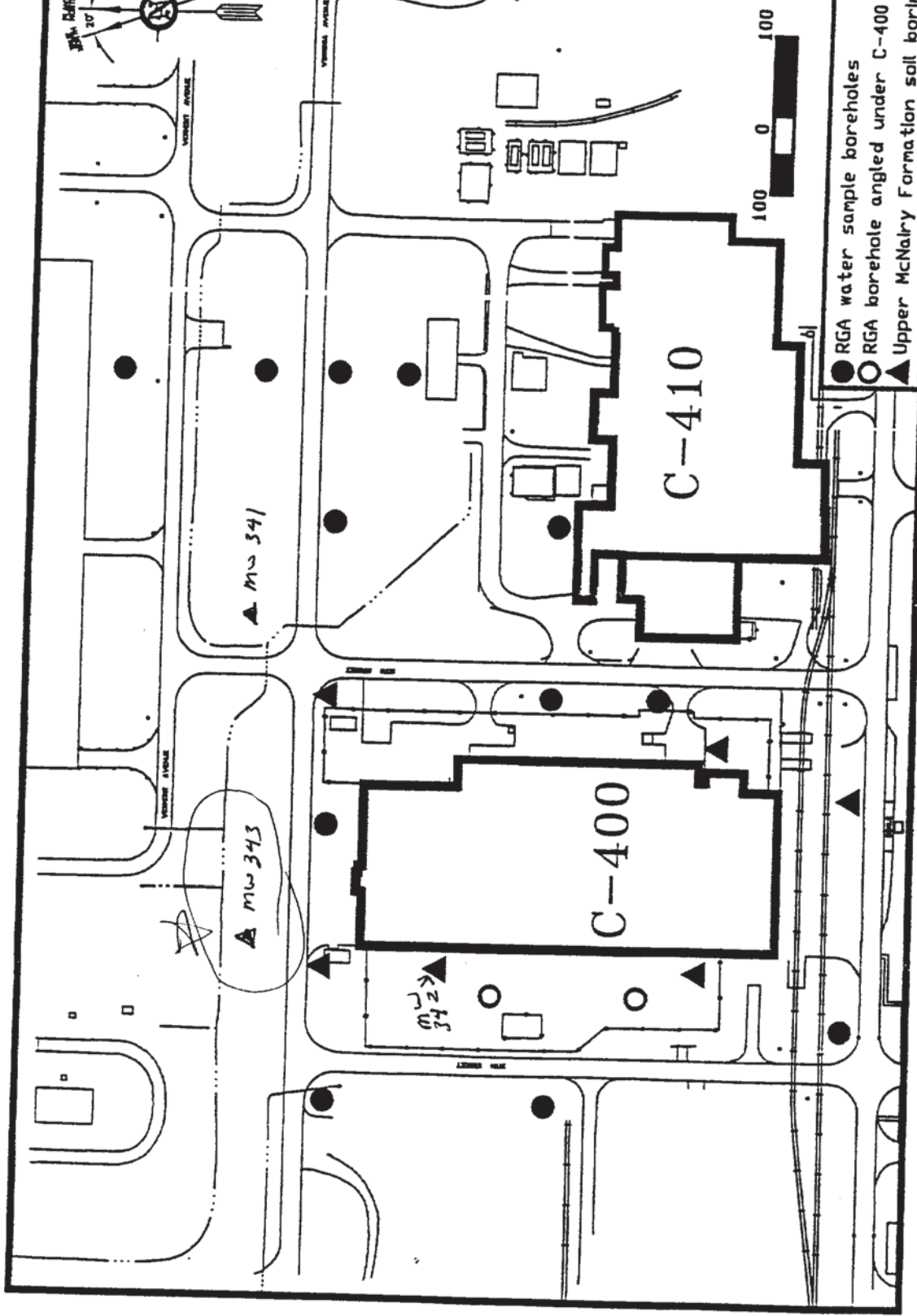
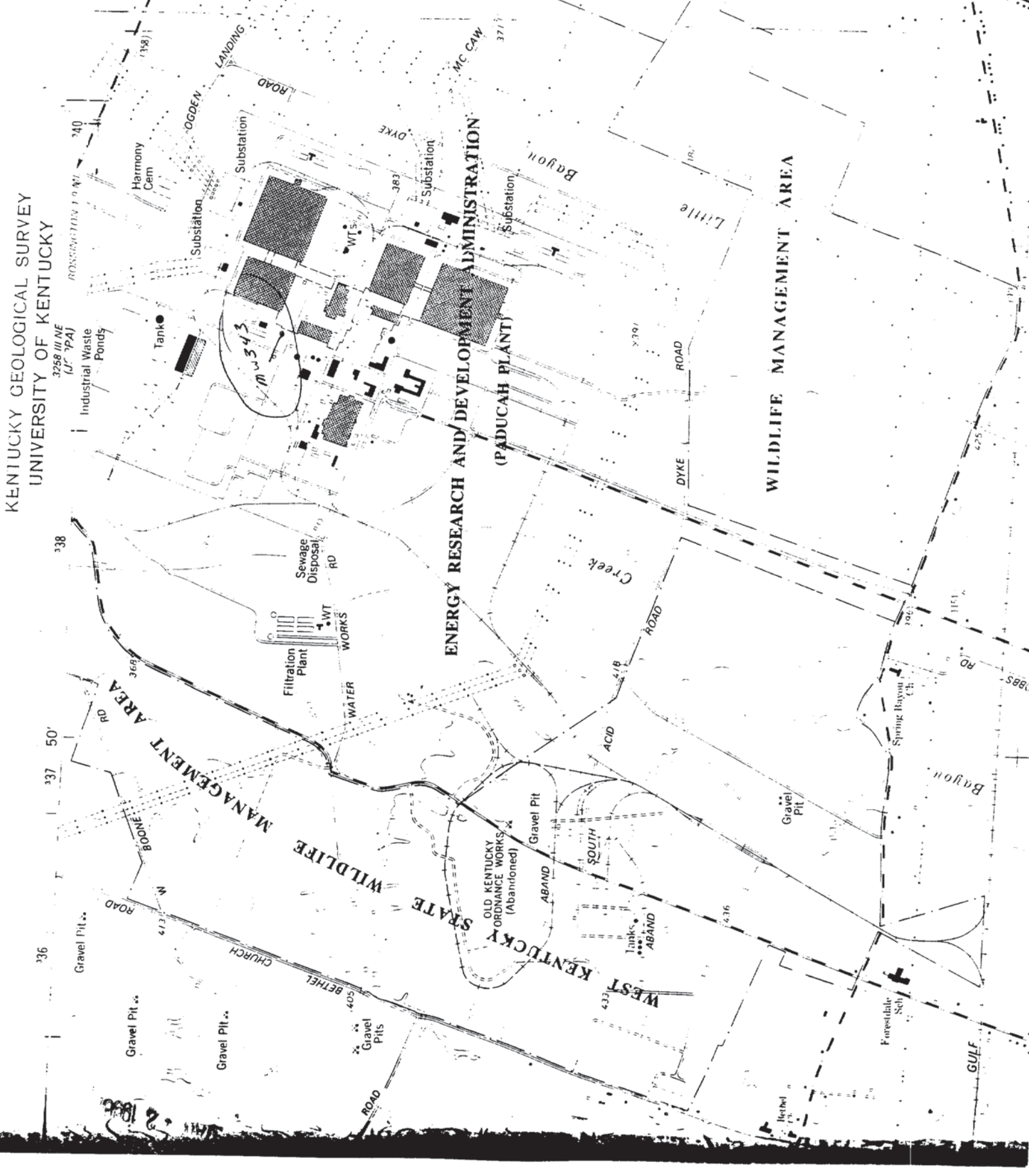


Fig. 10.7. Sampling locations for the C-400 Site Evaluation.

3258 III NE  
(JC-7PA)  
Industrial Waste  
Ponds



ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION  
(PADUCAH PLANT)

WILDLIFE MANAGEMENT AREA

WILDLIFE MANAGEMENT AREA

WEST KENTUCKY STATE  
ORDNANCE WORKS  
(Abandoned)

338

337 50'

336

Harmony Cem

Substation

Substation

Substation

Substation

Substation

Filtration Plant

Sewage Disposal

WT

WATER WORKS

Gravel Pit

Gravel Pit

Gravel Pit

Gravel Pit

Gravel Pit

Gravel Pits

Gravel Pit

Gravel Pit

OGDEN ROAD

ROAD

MC CAW

Bayou

Little

ROAD

DYKE ROAD

Creek

ROAD

ACID

SOUTH

ABAND

ABAND

Bayou

Forestdale Sch

Spring Bayou Ch

GULF

ROAD

ROAD

ROAD

ROAD

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ROAD

21806