

Facility Name Paducah Gaseous Diffusion Plant
 Mailing Address 5100 Hobbs Rd.
 City Paducah
 State Kentucky Zip 42001

Facility Address Same
 City _____
 State _____ Zip _____
 Owner's Phone () _____

Date Received: **NOV 15 2002**
 (3) IDENTIFICATION NUMBER
 8 0 0 4 - 3 8 6 5

(4) WELL LOCATION: USGS Quadrangle Name HEATH County McCracken Latitude N 37 06 50.5 Longitude W 88 48 39

(5) GENERAL WELL CONSTRUCTION:
 Start Date: 8-05-02
 Finish Date: 8-08-02
 Drilling Method:
 Auger HS () Reverse Rotary () Push/probe
 Auger SS () Cable Tool () Excavation
 Air Rotary () Hand Auger () Sonic
 Mud Rotary () Other: _____
 Work Type:
 New Well () Nested Well () Rework () Plug
 Surface Elevation: 380 Total Depth: 110'
 Depth to Bedrock: N/A Static Water Level: 52'
 Wellhead: JB
 Flush Mount () Locking Cap () No Cap
 Stickup; inches above surface: _____

(6) FACILITY TYPE:
 RCRA () Mining
 CERCLA () Site Assessment
 TSCA () Solid Waste Landfill
 UST () Landfarm
 Other: _____

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

(7) WELL USE: (check all that apply)
 Water Quality () Dry Hole
 Ambient Monitoring () Not Used
 Water Level Monitoring () Abandoned
 Remediation () Destroyed
 Other: _____

(9) ATTACHMENTS:
 Required
 1. Site plan or sketch map
 2. Well construction diagram
 3. Well location
 On topographic map, or
 Obtained by GPS unit ()
 Optional
 4. Laboratory analysis report ()
 5. Other: _____

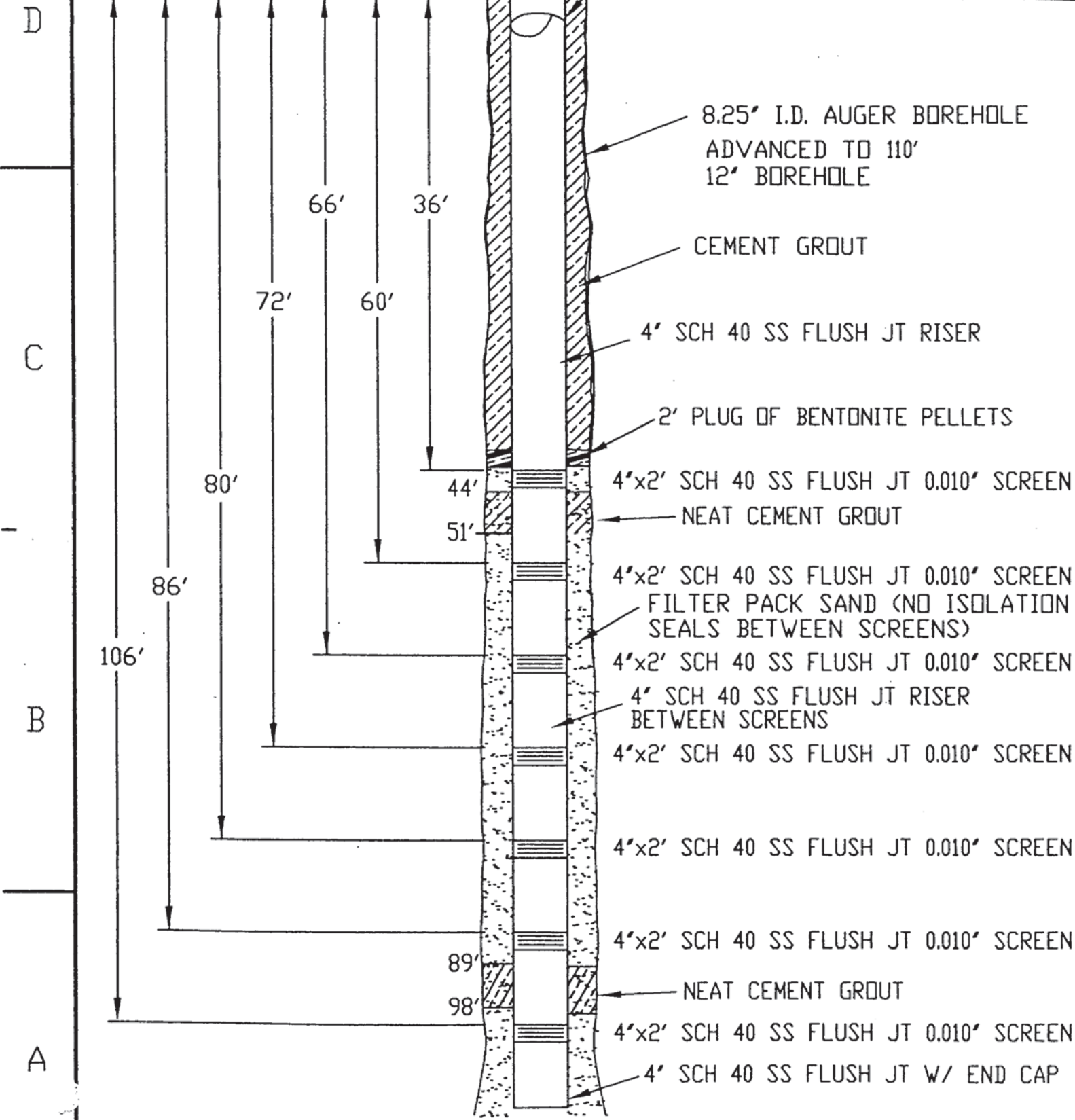
(10) WELL COMPLETION INFORMATION mw-407
 Feet Below Surface Borehole Casing
 From To Diameter Diameter Casing Type
See Attachments
 Well Screens: See Attachments
 I.D. (in.) From To Type Slot Size
 I.D. (in.) From To Type Slot Size
 I.D. (in.) From To Type Slot Size
 Annulus Fill and Seal:
 Feet Below Surface
 From To Material
See Attachments
No. 1 Filter Sand
Type II portland
151 Shur plug 3/8 betanite

(11) LITHOLOGIC LOG mw-407
 Feet Below Surface
 From To Description
See Attachments

(12) COMMENTS
 Drilled to 110ft. with 8.25 Hs augers (Multiport well) Type 316
 Stainless Steel .10 slot cont. wrap screen, 110-108 4' stainless riser.
 108-106-screen, 106-88 riser, 88-86 screen, 86-82 riser, 82-80 screen,
 80-74-riser, 74-72 screen, 72-68 riser, 68-66 screen, 66-62-riser. 62-60
 Screen, 60-38 riser, 38-36 screen, 36-0 riser.

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

MW-407



Request for Proposal No.
23900-RFP-RM789

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TIME	DEPTH	Recov.	SAMPLE ID	LITHOLOGY
1345	0-2'	2'	6P06SA002	0-1' Brown/tan clayey GRAVEL
1400	2-4'	1.5'	6P06SA004	1-3' Orange clayey gravel (3" diam)
	4-6'		No Sample	6" Bluish-green CLAY/SILT, most crumbly, semi-plastic
1410	6-8'	2'	6P06SA008	2.5' - Bluish-gray SILT/CLAY, damp semi-plastic
1420	8-10'	2'	6P06SA010	2' Mixture bluish-gray + yellowish-brn SILT/CLAY, damp, semi-plastic
1430	10-12'	2'	6P06SA012	Yellowish-brn and gray SILT/CLAY
1445	12-14'	2'	6P06SA014	similar to bottom of 5-10' interval
1505	14-16'	2'	6P06SA016	
1520	16-18'	2'	6P06SA018	Same as 10-15' interval!
1530	18-20'	2'	6P06SA020	
1540	20-22'	2'	6P06SA022	Top 4' yb + gray Sand w/ gravel
1550	22-24'	2'	6P06SA024	fine to med gr., damp, dense
1600	24-26'	2'	6P06SA026	6" Greenish-gray hard CLAY
1610	26-28'	2'	6P06SA028	6" Orange gravelly SAND
1620	28-30'	2'	6P06SA030	Gray + yb Sandy SILT/CLAY
1615			6P06SD030 (dup)	mod. dense to dense, damp semi-plastic to plastic few gravels
1630	30-32'	1.5'	6P06SA032	Top 1.5': Gravel w/ sand tr. silt/clay damp to wet, gravel to 1.5" dia.
1640	32-34'	1.5'	6P06SA034	Bottom 1.5': Sand, well-sorted, fine-gr., loose, subang to subrounded
1650	34-36'	1.5'	6P06SA036	
1700	36-38'	1.5'	6P06SA038	GRAVEL, extremely dense, compacted, angular chert up to 1.5", some clay/silt, wet.
	38-40'	No Sample	Poor Recovery	
0800	40-42'		6P06SA042	Sand + Gravel - 3 ft recovery angular
	42-44'	No Sample		
0810	44-46'	1'	6P06SA046	Gray sandy CLAY, non-plastic to semi-plastic
0820	46-48'	2'	6P06SA048	Mixture orange + gray clayey SAND & SAND w/ clay, semiplastic, saturated.
0830	48-50'	2'	6P06SA050	
0845	50-52'	2'	6P06SA052	Mixture orange + gray sandy CLAY clayey SAND, fine-gr., well-sorted non-plastic, saturated.
0900	52-54'	2'	6P06SA054	
0915	54-56'	1.5'	6P06SA056	SAND, orange, fine-gr. well sorted, saturated
0900			6P06WT24	Trip Blank
0730			6P06WT25	Trip Blank
0750			6P06WR08	Equip. Rinsate (CME Core Sampler 50-55')

Odor

Slight odor

Odor moderate

Some odor during drilling

Odor during drilling, slight during sample collection.

8

day

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Time	Depth	Lithology	Sample ID
1430	58-60'	Sand & Gravel, bottom well-sorted sand ang to subangular, gravel to 1" dia.	MW40BSA058
1445	68-70'	Coarse SAND/GRAVEL, ang to subrounded to 4" dia. avg 1-2" dia. sand med. to v. coarse	MW40BSA068
—	78-80'	No Sample	No Recovery (75-80')
—	88-90'	No Sample	No Recovery (85-90')
1715	98-100'	Top 8": Lt gray sandy CLAY, semi-plastic, wet to saturated, soft Moderately dense SAND w/tr. clay, orange, reddish-brn, & gray, laminar band, few sm. gravels, fine-gr. sand, well-sorted	MW40BSA 100 (95-100') Top clay = 28 ppm Middle/Lower Section = 9 ppm
—	100-105'	Tan, fine-grained SAND, well-sorted, saturated [0.0 ppm]	No Sample Required!
1240	Trip Blank	NA	MW40BTW001

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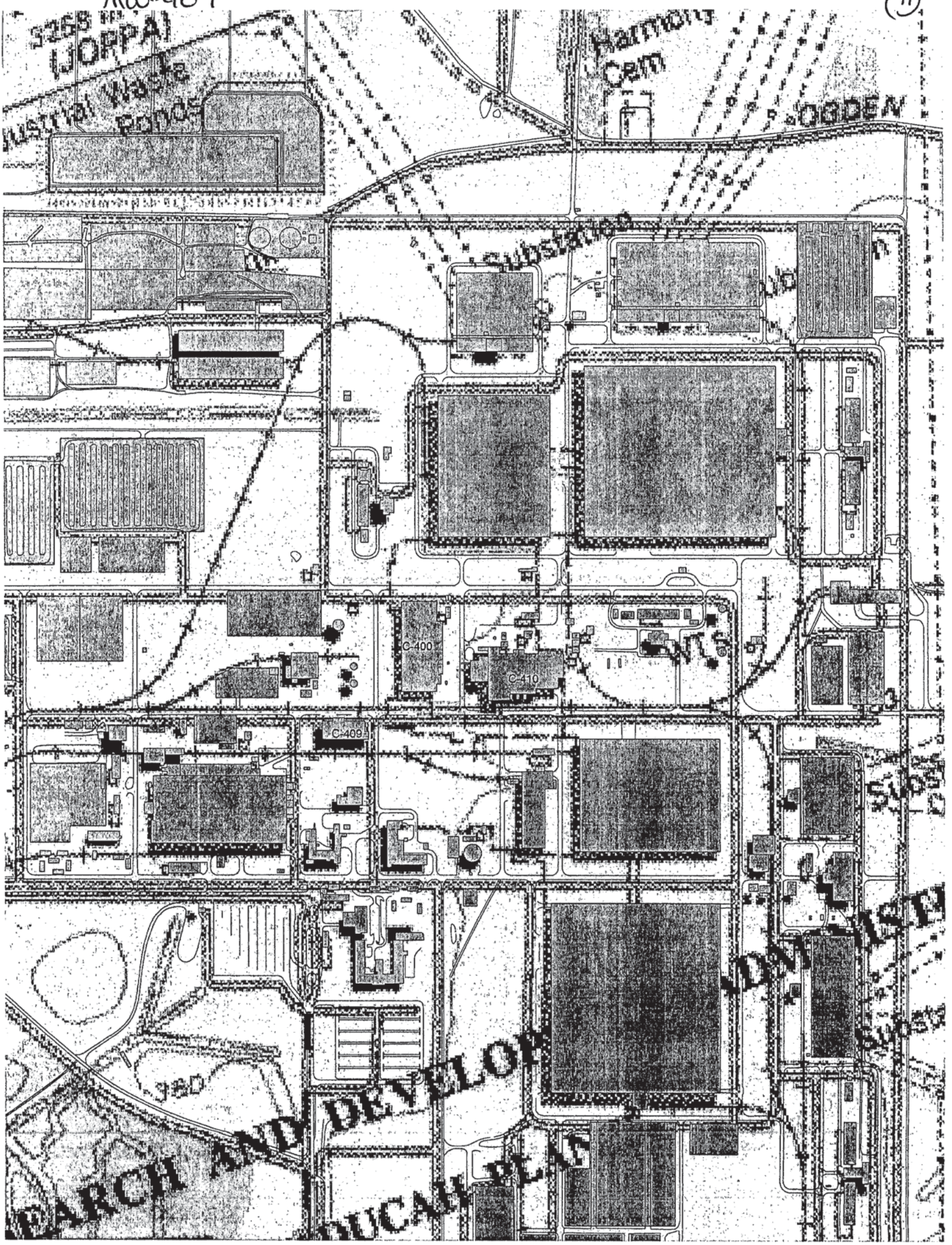
(11)

3255
LORRAI

INDUSTRIAL WASTE
POND

HARMONY
C&M

ROBBER



C-400

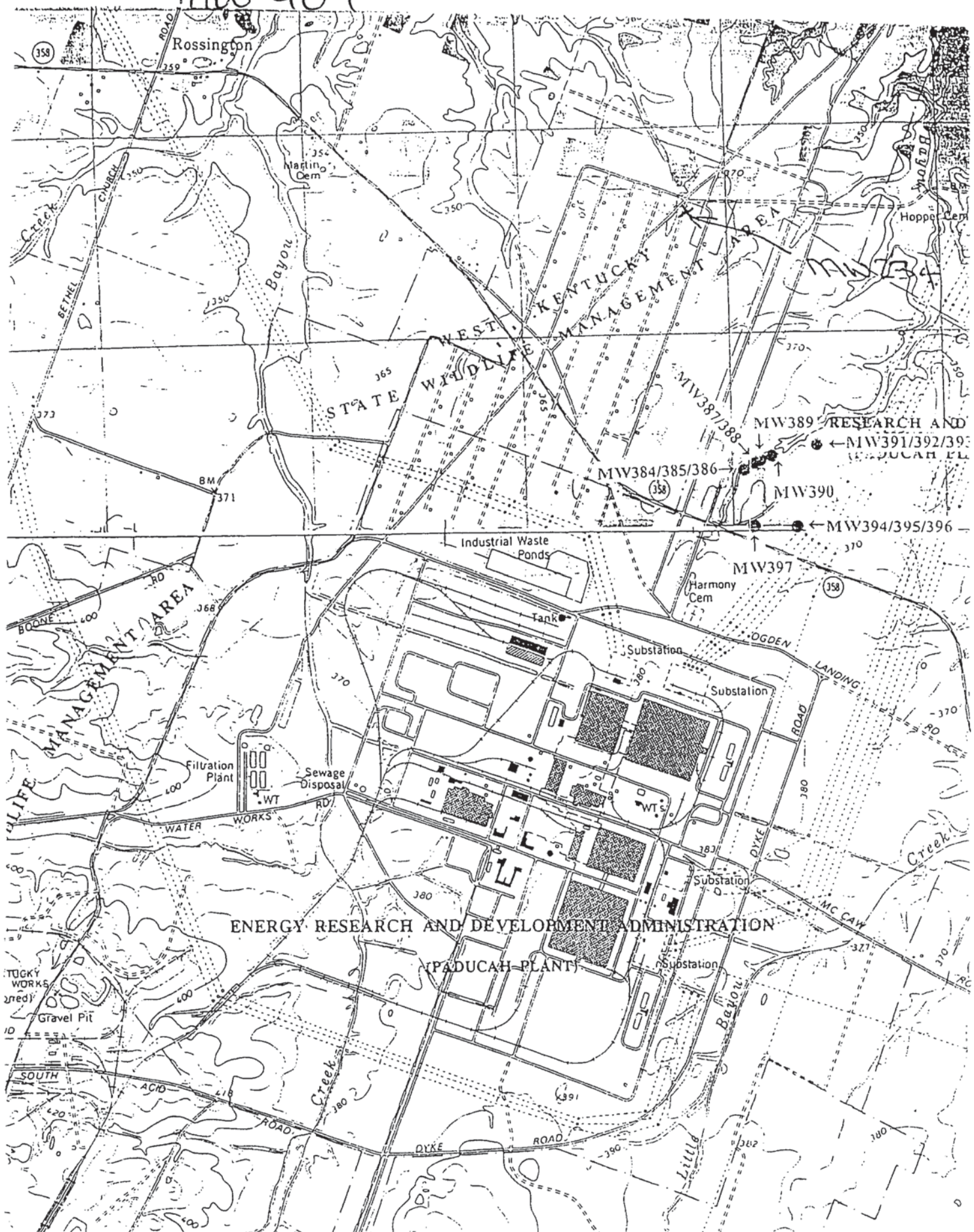
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RESEARCH AND DEVELOPMENT
CHEMICAL PLANT

MW-407



ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION
(PADUCAH PLANT)