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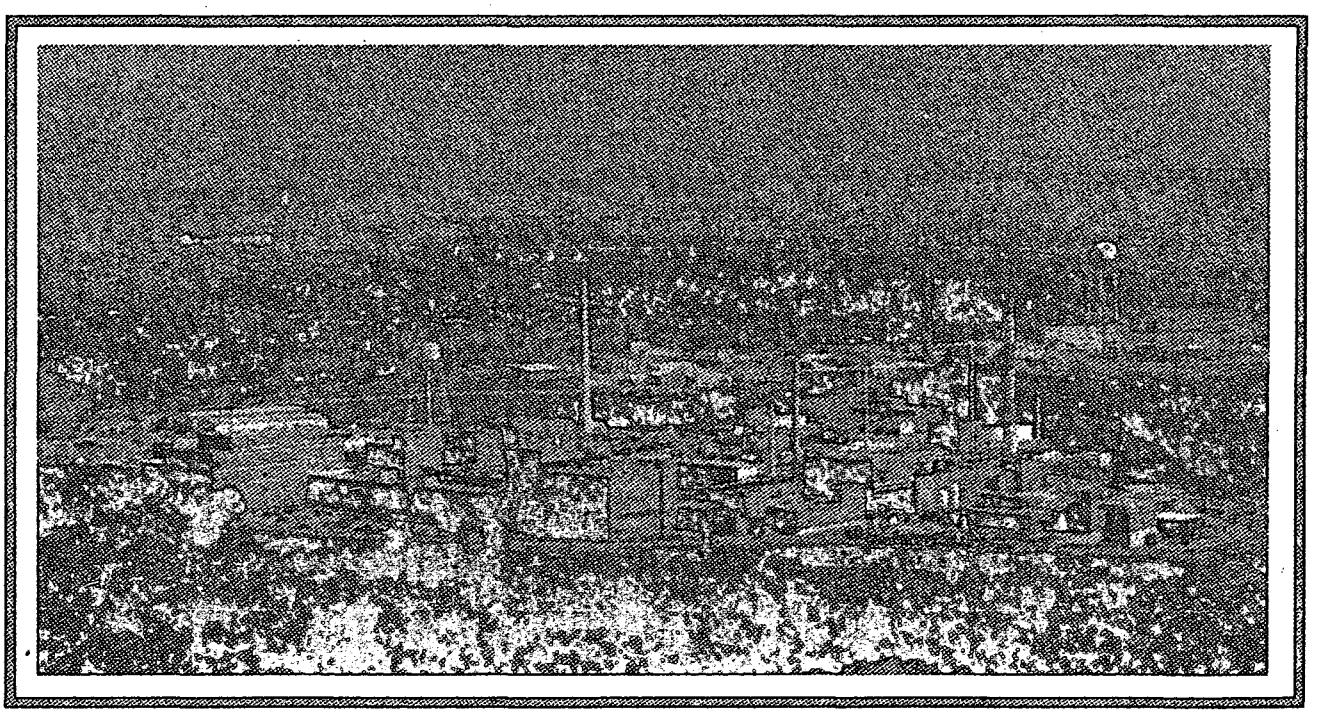
MOUND

Environmental
Restoration
Program

MOUND PLANT

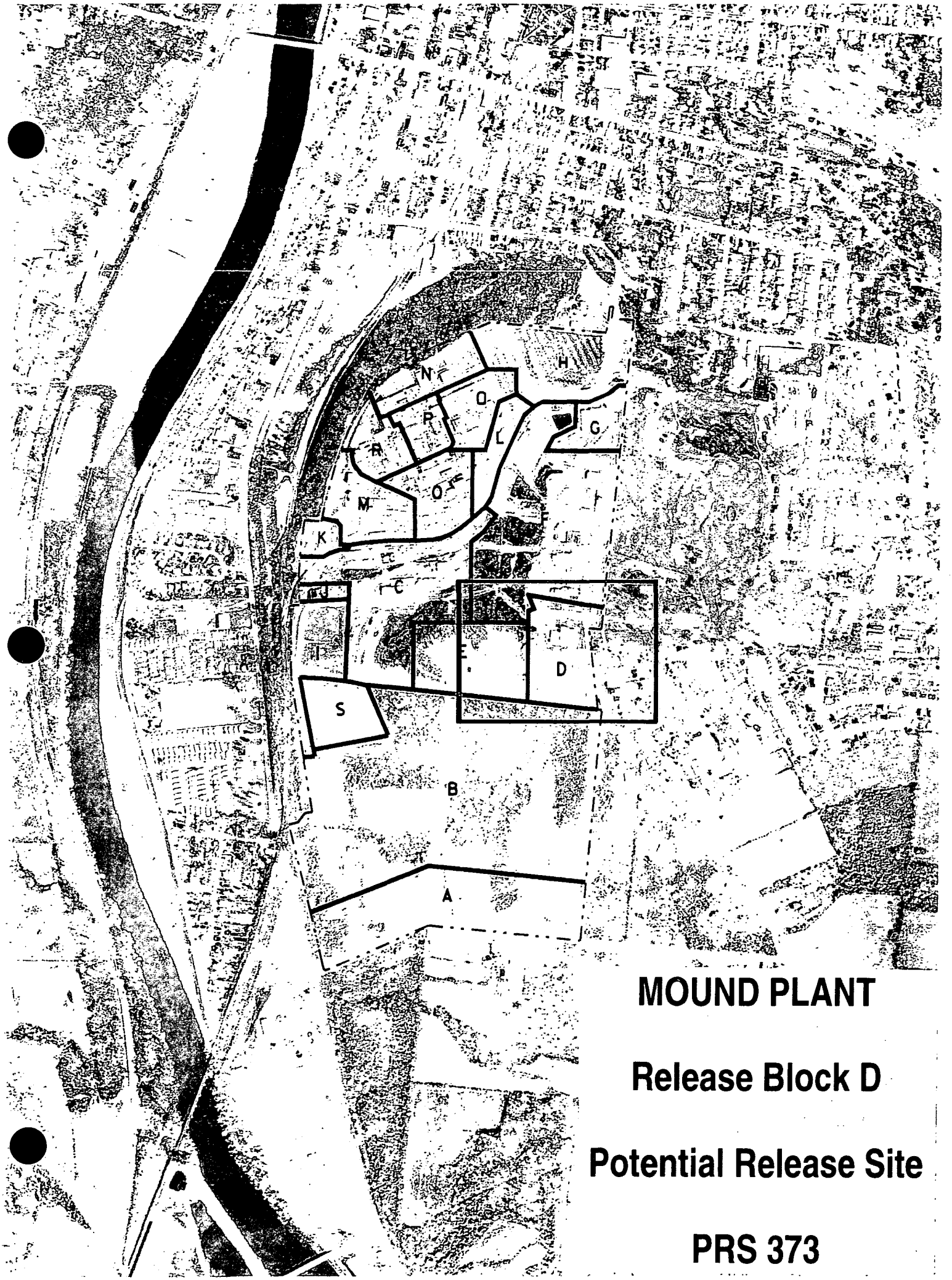
Potential Release Site Package

PRS # 373



PRS 373

REV	DESCRIPTION	DATE
PUBLIC RELEASE 0	Available for comment.	**Oct. 18, 1995**
FINAL 1	Comment period expired. No comments. Recommendation page annotated.	**Oct. 10, 1996**
FINAL 2	Signature page changed to show correct review period.	**Nov. 19, 1996**

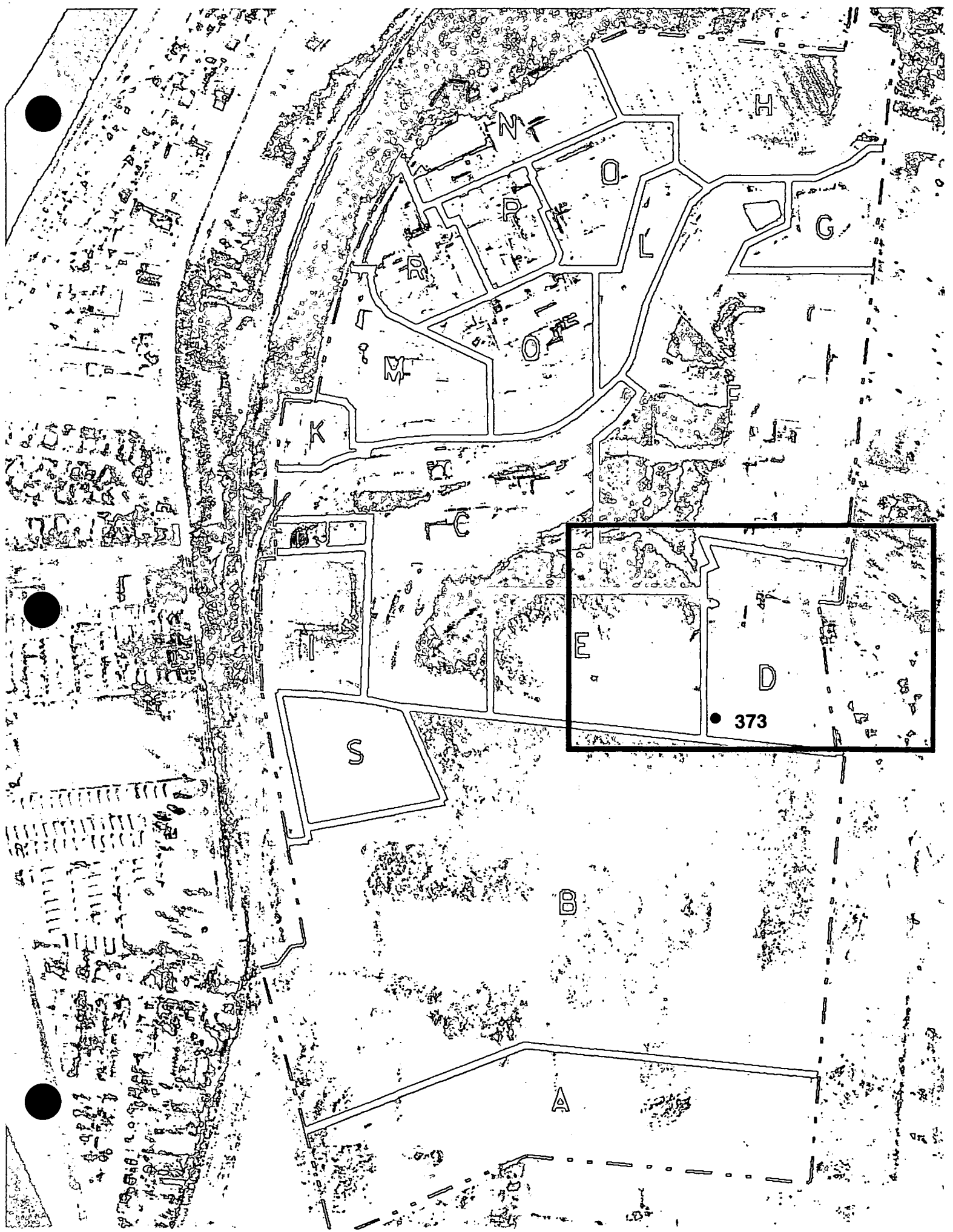


MOUND PLANT

Release Block D

Potential Release Site

PRS 373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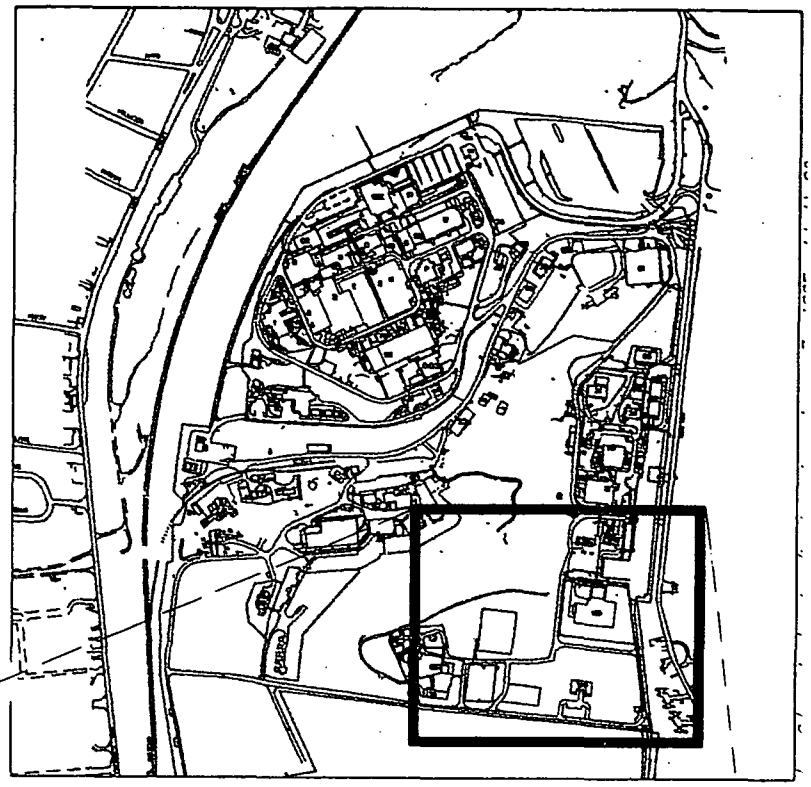
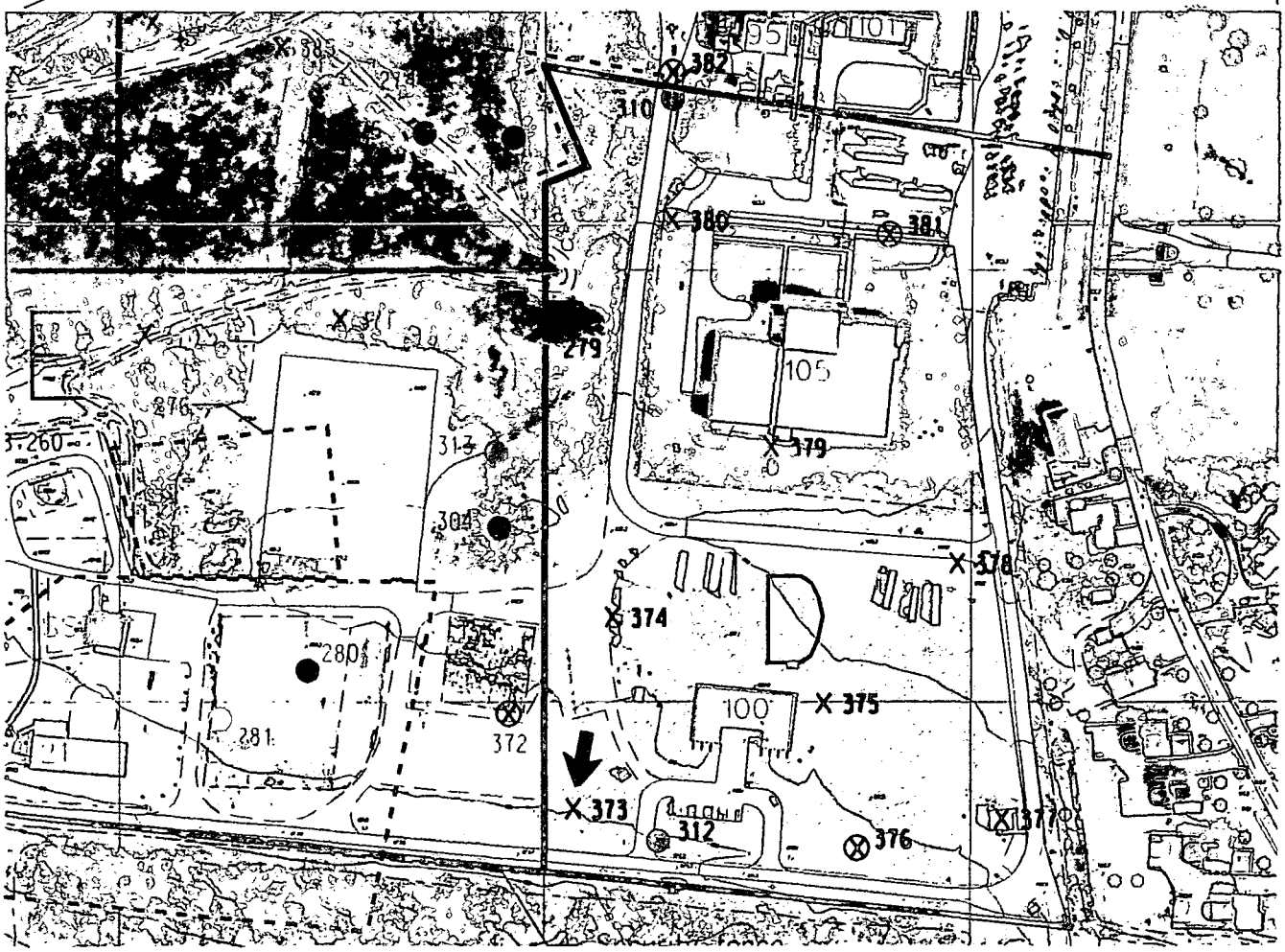
MOUND PLANT

Release Block D

Potential Release Site

PRS 373





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MOUND PLANT
PRS 373

PRS HISTORY:	Isolated plutonium (Pu-238) hot spot identified during the OU-5 Non-Area Of Concern (AOC) Phase 1 activities (location 01N06).[1]
PROCESS DESCRIPTION:	No radioactive or hazardous waste generating processes are known to have occurred at this location. Based on historical activities in nearby buildings, only isolated activity from plutonium (and/or thorium) may be expected.
CONTAMINATION:	Contamination levels were 1.1 pCi/g Thorium (Th-232) and 25 pCi/g Pu-238 in a surface sample. Nearby Phase 1 locations had comparable Th-232 concentrations and all Pu-238 concentrations less than 25 pCi/g. These samples were taken in 1994. The OU-5 Phase 1 soil gas sampling in this area showed no significant readings for organics.
READING ROOM REFERENCES:	1) OU-5 Operational Area Phase I Investigation, Non-AOC Field Report (Draft), March 1995. (pages 5-10)
PREPARED BY:	Richard Neff, DOE Technical Support Staff Joseph C. Geneczko, Member of EG&G Technical Staff George Liebson, Member of EG&G Technical Staff

MOUND PLANT
PRS 373
AUGUST 3, 1995

RECOMMENDATION: No further action. Since this is a point source with contamination below current cleanup guidelines and any exposure pathway would further reduce this concentration, PRS 373 is not a site problem.

CONCURRENCE:

DOE: Arthur W Klemmatt 10/18/95

USEPA: Timothy J. Fink 10/18/95

OEPA: [illegible] 10/18/95

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from ~~3/15/96~~ 2/15/96 to ~~4/15/96~~ 2/29/96.

☒ No comments were received during the comment period.

☐ Comment responses can be found on page_____ of this package.

REFERENCE MATERIAL

FOR

PRS 373

Environmental Restoration Program

OPERABLE UNIT 5
OPERATIONAL AREA PHASE I INVESTIGATION
NON-AOC FIELD REPORT

MOUND PLANT
MIAMISBURG, OHIO

VOLUME II - APPENDICES A-G

March 1995

Draft

U.S. Department of Energy
Ohio Field Office

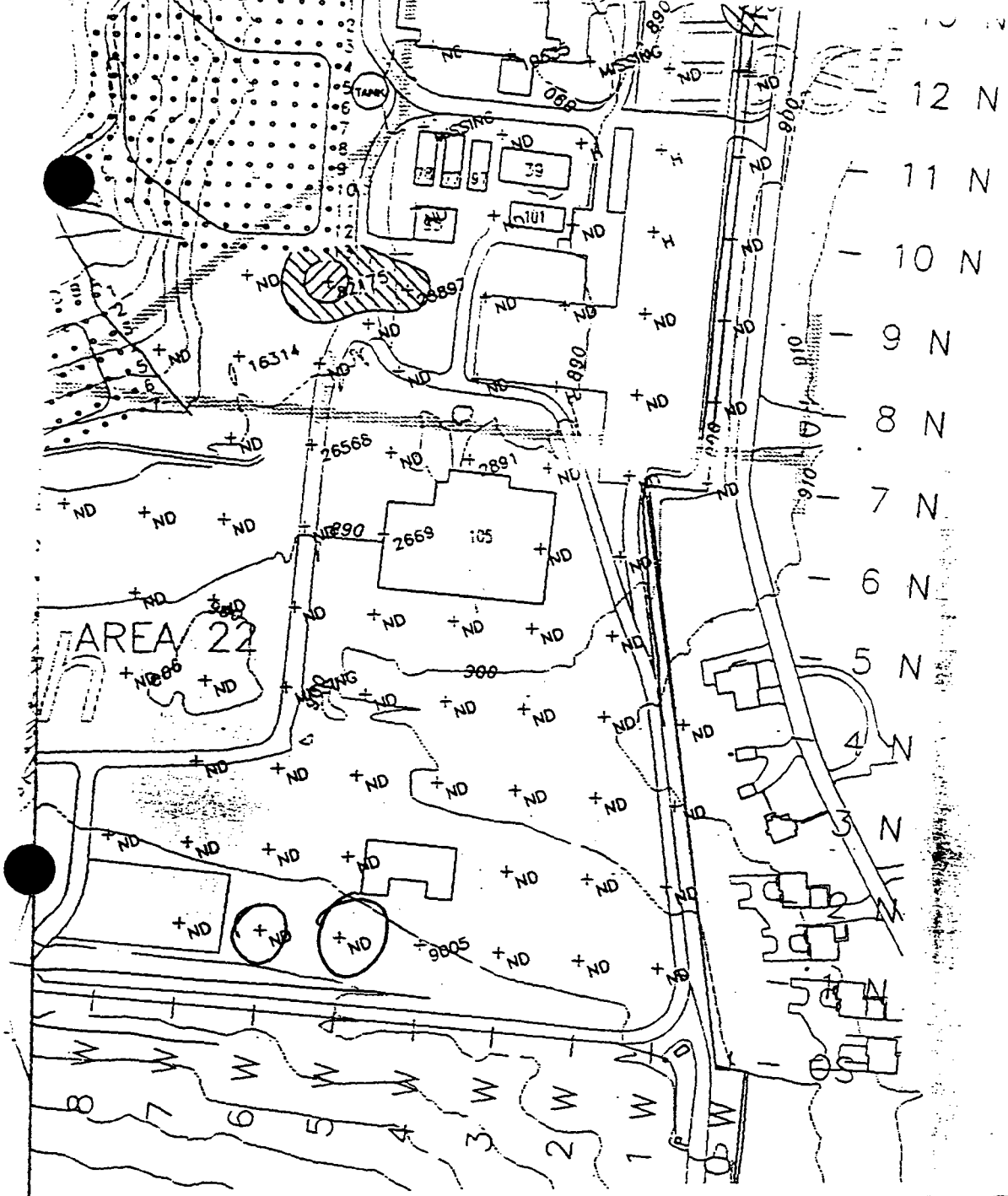
EG&G Mound Applied Technologies

MOUND SOIL SCREEN DATA

APPENDIX D

RADIOLOGICAL DATA (FIDLER SURVEY MOUND SOIL SCREENING FACILITY DATA) FOR NON-AOC POINTS

	FIDLER SURVEY DATA					MOUND SOIL SCREENING FACILITY DATA			
SMPID	Contamination Criteria CH1	FIDLER Readings CH1	Contamination Criteria CH2	FIDLER Readings CH2	FIDLER Readings Out Channel	Plutonium - 238		Thorium - 232	
	Units: CPM	Units: CPM	Units: KCPM	Units: KCPM	Units: KCPM	Units: pCi/g		Units: pCi/g	
	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	Note:	RESULTS	Note:
01N01	113	60	8.06	3.2	NC	3	a	1	a
01N02	113	130	8.06	8.01	NC	25	b	0.9	a
01N03	113	110	8.06	8.0	NC	60	b	1.1	a
01N04	113	75	8.06	7.0	NC	6	a	0.7	a
01N05	113	100	8.06	8.0	NC	15	a	1.3	a
01N06	113	90	8.06	7.5	NC	25	b	1.1	a
01N07	113	40	8.06	3.5	NC	10	a	0.3	a
01N14	113	120	8.06	9.0	NC	38	b	1.1	a
01N15	113	105	8.06	9.0	NC	34	b	1	a
01N16	210.6	130	12.22	9.0	NC	NR		NR	
01N17	210.6	135	12.22	9.0	NC	21	a	0.7	a
01N18	210.6	120	12.22	9.0	NC	24	a	0.6	a
01N19	210.6	135	12.22	9.0	NC	NR		NR	
01N21	170.3	110	9.72	7.5	NC	NR		NR	
01N22	210.6	135	12.22	7.0	NC	20	a	0.6	a
01N23	210.6	145	12.22	7.0	NC	17	a	0.9	a
02N01	98.8	70	6.76	4.4	NC	12	a	0.5	a
02N02	98.8	90	6.76	9.0	NC	25	b	1	a
02N03	98.8	90	6.76	8.5	NC	21	a	0.9	a
02N04	98.8	30	6.76	4.5	NC	NR		NR	
02N05	98.8	60	6.76	6.5	NC	19	a	0.8	a
02N06	98.8	60	6.76	6.0	NC	17	a	0.8	a
02N07	98.8	60	6.76	4.5	NC	1	a	0.4	a
02N08	98.8	100	6.76	6.5	NC	NR		NR	
02N11	157.3	55	8.45	3.5	NC	0	a	0.5	a
02N14	98.8	110	6.76	8.0	NC	6	a	0.5	a
02N15	179.4	120	10.92	9.0	NC	37	b	1	a
02N16	179.4	140	10.92	9.5	NC	28	b	1	a
02N17	179.4	130	10.92	6.0	NC	31	b	0.9	a



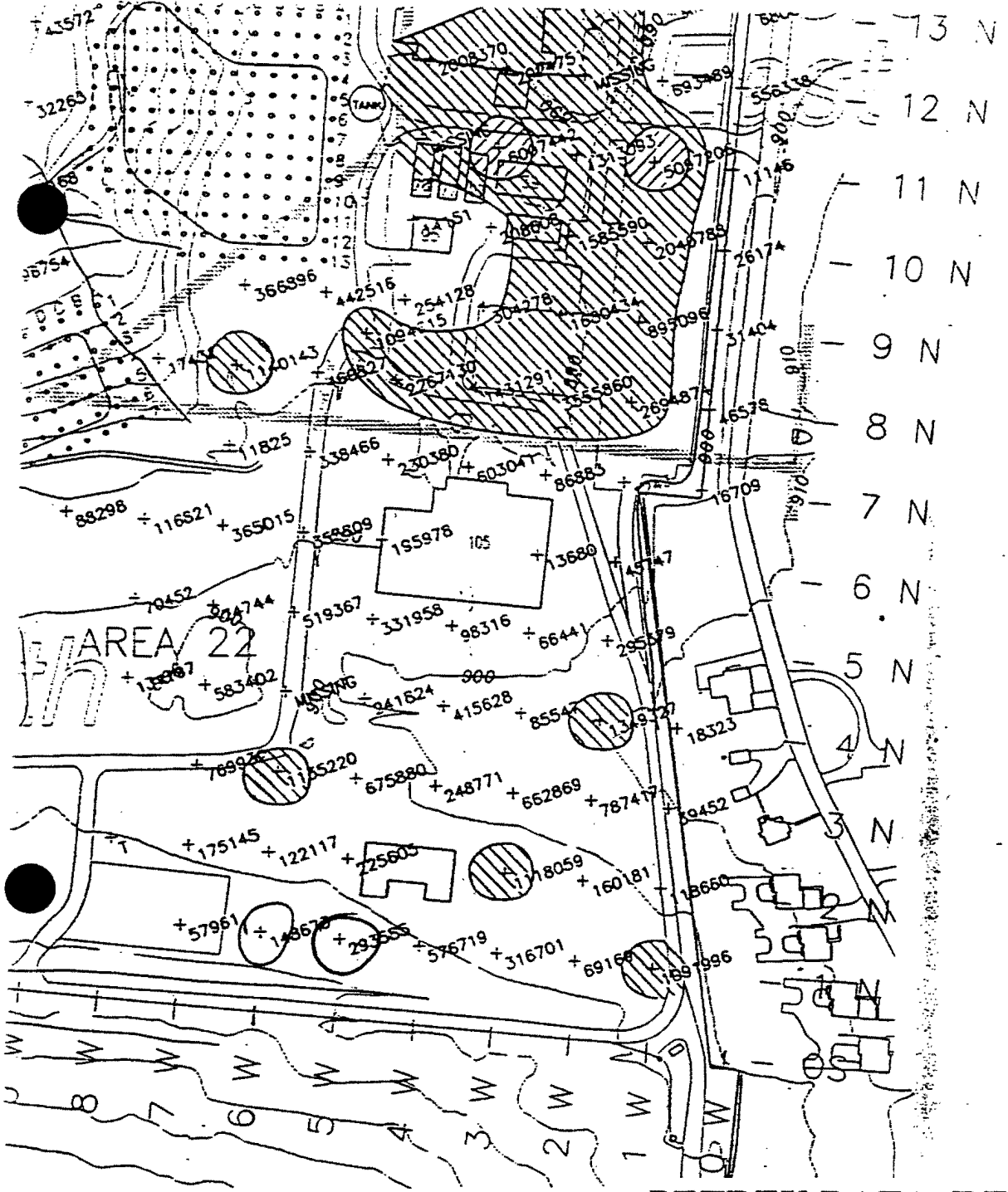
PETREX DATA (RELATIVE)

PRS 373
TOTAL HALOGENATED HYDROCARBONS
TOTAL ION COUNTS

LEGEND

Relative Response Values (in ion counts):

NonAOC–West	NonAOC–East	NonAOC–North	Area 61
≥ 500,000	≥ 80,000	≥ 400,000	≥ 250,000
50,000–499,999	20,000–79,999	40,000–399,999	35,000–249,999

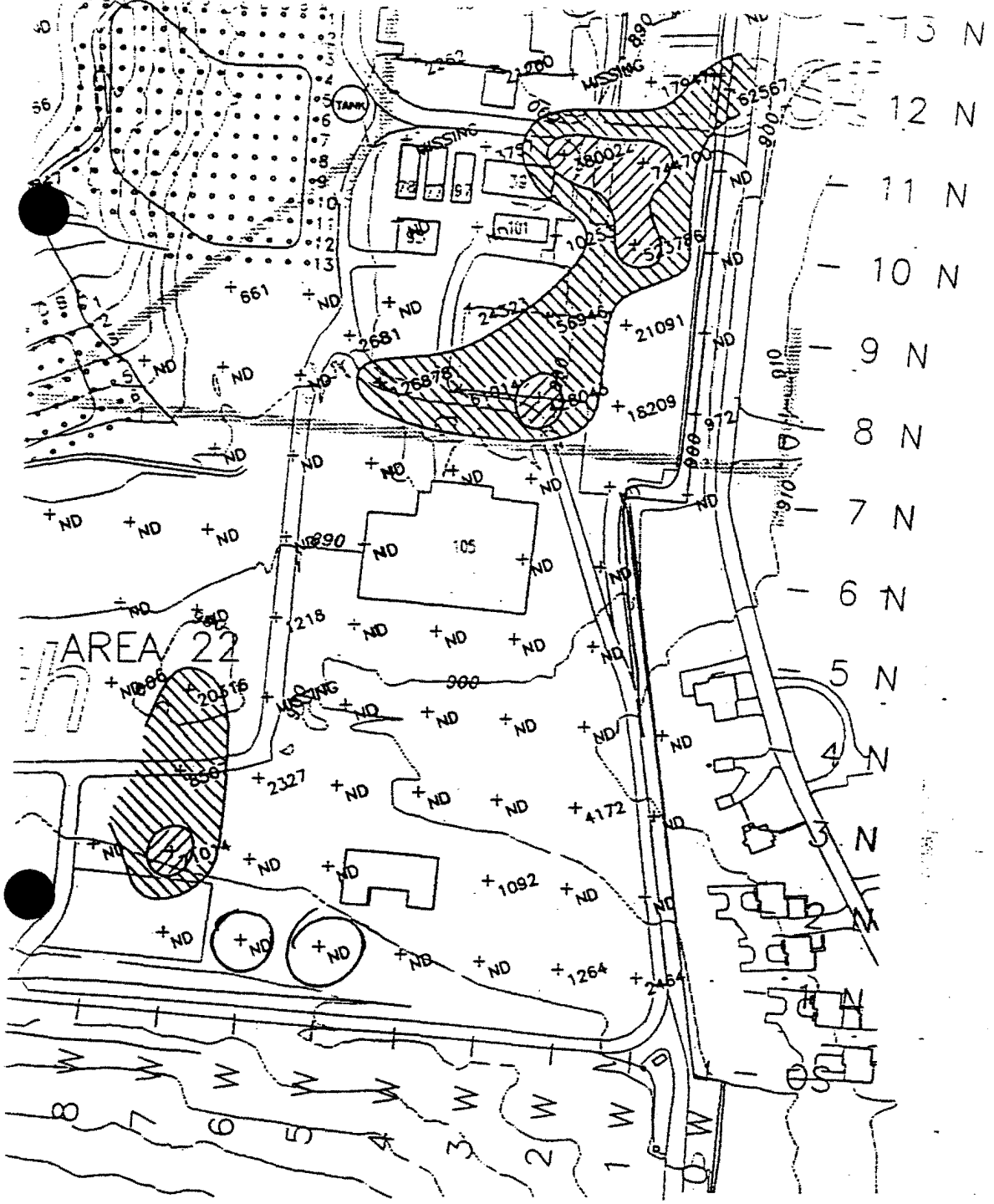


PETREX DATA (RELATIVE)

PRS 373
Total Aromatic Hydrocarbons
Total Ion Counts

LEGEND

Relative Response Values (in ion counts):				
uth	NonAOC–West	NonAOC–East	NonAOC–North	Area 61
	≥ 20,000,000	≥ 5,000,000	≥ 10,000,000	≥ 5,800,000
9,999	2,600,000–19,999,999	850,000–4,999,999	1,500,000–9,999,999	1,400,000–5,799,999



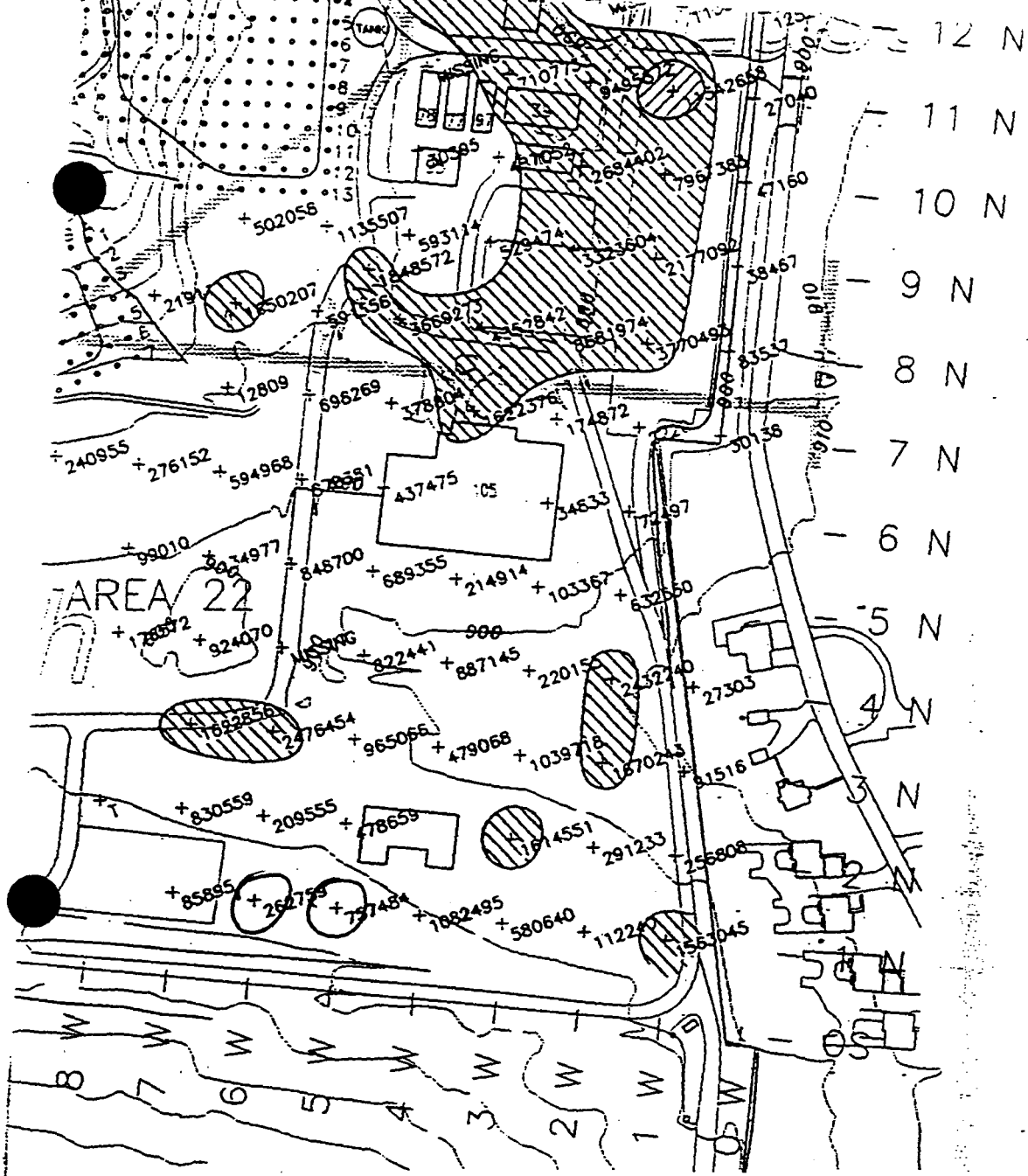
PETREX DATA (RELATIVE)

PRS 373
TOTAL SEMIVOLATILE HYDROCARBONS
TOTAL IONS

LEGEND

Relative Response Values (in ion counts):

th	NonAOC–West	NonAOC–East	NonAOC–North	Area 61
●	≥ 1,000,000	≥ 300,000	≥ 800,000	≥ 1,400,000
	100,000–999,999	30,000–299,999	80,000–799,999	180,000–1,399,999



PRS 373
TOTAL C5-C11 PETROLEUM HYDROCARBONS
TOTAL IONS

PETREX DATA (RELATIVE)

LEGEND

Relative Response Values (in ion counts):				
th	NonAOC–West	NonAOC–East	NonAOC–North	Area 61
	≥ 29,000,000	≥ 11,500,000	≥ 23,000,000	≥ 25,000,000
99	3,000,000–28,999,999	1,600,000–11,499,999	4,000,000–22,999,999	3,000,000–24,999,999