Not RCRA NO SD entry PA 9/25/85

PRELIMINARY ASSESSMENT NARRATIVE

Date:
Company: Magnode Products Corp., 400 E. State, P.O. Box 292-H, Trenton, OH 45067
I.D.#: OHD004232823

The Magnode Products Corp. was inventoried by the Ohio EPA for surface impoundment assessment. The site is a magnesium and aluminum extrusion operation. Quench water from the extrusion process is discharged into an on-site, unlined lagoon which lies over the shallow valley sand and gravel aquifer which supplies water to the town of Trenton. The Trenton well field is located within 3 miles of the site with the nearest well being about 550-800 feet north of the lagoon.

This lagoon contains wastewater from the extrusion processes and run-off from the roof and the yard/parking lot area. The lagoon was observed to contain a considerable amount of oil - possibly hydraulic oil-allegedly from plant operations and machinery. The potential for worker exposure or injury exists because the lagoon is located in the parking lot. Although the entire site is fenced, the lagoon itself is not fenced.

There is a potential for air contamination at the site due to fugitive emissions which were noted from furnaces prior to 1982. A slight potential for surface water contamination to the Great Miami River also exists. The wastes could conceivably reach the river if a leak in the dikes or in the lagoon's discharge pipe occurred, but the waste material would have to cross Highway 73 before reaching the river.

The potential for groundwater contamination poses a serious threat due to the permeability and location of the aquifer. An Ohio EPA inspection indicated that evidence of a leak in the lagoon's discharge pipe exists. The Magnode Corp.'s well was sampled in 1980 and no degredation was indicated.

According to an Ohio EPA SIA Follow-up Report (10-8-80), "the company does not appear to be extremely well informed about the disposition and quantity of some of its wastes." This report also states that an old lagoon used for the same purposes as the newer lagoon is allegedly on-site and is now buried. The old lagoon was used from 1967-1969.

It is recommended that this site be given a medium priority for State and FIT actions. FIT activities should include sampling of water in the lagoon and the Magnode well (use unknown), and possible installation and sampling of groundwater monitoring wells. The site inspection should include observing site for direct contact potential and checking the lagoon and surrounding areas for integrity of dikes and any possible leaks in the discharge line to the lagoon. The investigation should also include observation of any potential fugitive air emissions.

lmr

Revised 2/25/86-TJR

US EPA RECORDS CENTER REGION 5
453166

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 SITE INFORMATION AND ASSESSMENT

I IDENTIFICATION

01 STATE	02 SITE NUMBER
OH	D004232823

II SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER
Magnode Products Corp	400 E State / PO Box 292 - H

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Trenton	OH	45067	BUTLER	017	8

09 COORDINATES LATITUDE	LONGITUDE	
39° 29' 00'	084 26 59 0'	Trenton Quadrangle # 163NW

10 DIRECTIONS TO SITE (Starting from nearest public road)
73 South to 4 73 South to 73 West (State Road) into Trenton
Site is located at 400 E State

III RESPONSIBLE PARTIES

01 OWNER (if known)	02 STREET (Business, mailing, residential)
Magnode Products Corp.	400 E State / PO Box 292-H

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Trenton	OH	45067	(513) 988 6351

07 OPERATOR (if known and different from owner)	08 STREET (Business, mailing, residential)
SAME AS ABOVE	

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☒ A PRIVATE ☐ B FEDERAL _____ (Agency name) ☐ C STATE ☐ D COUNTY ☐ E MUNICIPAL
☐ F OTHER _____ (Specify) ☐ G UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A RCRA 3001 DATE RECEIVED ___ / ___ / ___ (MONTH DAY YEAR) ☐ B UNCONTROLLED WASTE SITE (CERCLA 103) DATE RECEIVED ___ / ___ / ___ (MONTH DAY YEAR) ☒ C NONE

IV CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 10 / 8 / 80 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☒ A EPA (Ohio) ☐ B EPA CONTRACTOR ☒ C STATE ☐ D OTHER CONTRACTOR
☐ E LOCAL HEALTH OFFICIAL ☐ F OTHER _____ (Specify)
CONTRACTOR NAME(S) _____

02 SITE STATUS (Check one)	03 YEARS OF OPERATION
☒ A ACTIVE ☐ B INACTIVE ☐ C UNKNOWN	1952 (BEGINNING YEAR) / present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN OR ALLEGED
Heavy Metals (Persistent / Toxic)
Oily Waste (Toxic / Soluble / Ignitable)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Ground Water (Population / Environment)
Surface Water (Population / Environment) Direct Contact (Population)
Air (Population / Environment)

V PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A HIGH (Inspection required promptly) ☐ B MEDIUM (Inspection required) ☐ C LOW (Inspection on time available basis) ☐ D NONE (No further action needed, complete w/ an disposition form)

VI INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Scott Shane	OHIO EPA SWDO	(513) 449-6359

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION (E&E)	07 TELEPHONE NUMBER	08 DATE
Cynthia Pugh	FIT	ECOLOGY & ENVIRONMENT, INC	(312) 663 4415	7 / 12 / 85 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 WASTE INFORMATION

I IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D004232823

II WASTE STATES QUANTITIES AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A SOLID
- ☐ B POWDER FINES
- ☐ C SLUDGE
- ☐ D OTHER _____ (Specify)
- ☐ E SLURRY
- ☒ F LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE (Measures)

- TONS: unknown
- CUBIC YARDS: ✓
- NO OF DRUMS: ✓

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A TOXIC
- ☐ B CORROSIVE
- ☐ C RADIOACTIVE
- ☒ D PERSISTENT
- ☒ E SOLUBLE
- ☐ F INFECTIOUS
- ☐ G FLAMMABLE
- ☒ H IGNITABLE
- ☐ I HIGHLY VOLATILE
- ☐ J EXPLOSIVE
- ☐ K REACTIVE
- ☐ L INCOMPATIBLE
- ☐ M NOT APPLICABLE

III WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	unk.	unk	u
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	100-200	gallons	

IV HAZARDOUS SUBSTANCES (See appendix for most frequently cited CAS numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Aluminum	7429-90-5	lagoon	unk	N/A
MES	Magnesium	7439-954	lagoon	unk	N/A
OLW	Hydraulic Oil	N/A	lagoon	unk	N/A

V FEEDSTOCKS (See appendix for CAS numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Aluminum	7429-90-5	FDS		
FDS	Magnesium	7439-75-4	FDS		
FDS			FDS		
FDS			FDS		

VI SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See attached list of sources

5, 16, 6, 3, 19

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	D001232823

II HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 9532 — 04 NARRATIVE DESCRIPTION
Lagoon containing alleged wastes is unlined and lies over a shallow valley highly permeable sand and gravel aquifer. According to OEPA some sediment exists of a bath in lagoons, discharge pipe - 1 yr runs through and old abandoned Trenton well field (well is capped) OEPA groundwater study (1-4 80) stated that Magnolia well was sampled and no degradation was indicated

01 ☐ B SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 17,839 — 04 NARRATIVE DESCRIPTION
The site is elevated about 20 feet above the Great Miami River. Leaks in the dikes or the lagoons discharge pipe will run into the Great Miami River. But the run off would have to cross highway 73 before it reached the river.

01 ☐ C CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 30,046 — 04 NARRATIVE DESCRIPTION
Fugitive emissions have been seen around site but no complaints have been reported in the last 2-3 years. Emission from melting furnace stack (particulate) have been in compliance, but fugitive emissions generated by furnaces are not regulated under this regulation because they are in a non-Appendix area

01 ☐ D FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 9476 — 04 NARRATIVE DESCRIPTION
Hydraulic oils which are used on onsite and may be in the lagoon are considered reputable. Since heating and extrusion occur on-site the potential for fire/explosive conditions exist.

01 ☐ E DIRECT CONTACT — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 6519 — 04 NARRATIVE DESCRIPTION
The lagoon, located in the parking lot, is not fenced. This poses potential contact of the workers to the lagoon. The site is fenced and patrolled by a security guard

01 ☐ F CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED 17,839 — 04 NARRATIVE DESCRIPTION
The lagoon in which the quench water from the aluminum and magnesium extrusion process is discharged is not lined allowing possible contaminants to leach into the soils.

01 ☐ G DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 9532 — 04 NARRATIVE DESCRIPTION
The new Trenton well field is located within ~~the~~ three miles of the site, the closest being 550-800 ft north of the site. The shallow valley aquifer serves these wells and many private wells located within 1 mile of the site

01 ☐ H WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED 225 — 04 NARRATIVE DESCRIPTION
Workers parking in the parking lot where the lagoon is located may become exposed to contaminants

01 ☐ I POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I IDENTIFICATION	
01 STATE	02 SITE NUMBER
OH	000 232823

II HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ J DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE N/A) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
N/A The lagoon was overgrown with brush and weeds and algae was lying in the water

01 ☐ K DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE N/A) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 ☐ L CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 ☐ M UNSTABLE CONTAINMENT OF WASTES — 02 ☐ OBSERVED (DATE 10-8-87) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED 30,046 — 04 NARRATIVE DESCRIPTION
The lagoon is unlined which allows leachate into the soils and groundwater. The discharge pipe may allegedly have a leak

01 ☐ N DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 ☐ O CONTAMINATION OF SEWERS STORM DRAINS WWTPs — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
N/A

01 ☐ P ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
N/A

05 DESCRIPTION OF ANY OTHER KNOWN POTENTIAL OR ALLEGED HAZARDS
N/A

III TOTAL POPULATION POTENTIALLY AFFECTED 30,046

IV COMMENTS
According to Ohio EPA SIA Follow Up - The company does not appear to be extremely well informed about the disposition and quantity of some of its wastes. Also, apparently during heavy rains roof drainage is insufficient & the inside of the plant experienced flooding. The flood water probably carried off to the lagoon, much of the oils observed in the lagoon. Musgrove Corp. does not have a NPDES permit

V SOURCES OF INFORMATION
see attached list of sources
6, 15, 12, 8, 3, 2, 1

EPA FORM 2070-12 (7-81)

PA DOCUMENTATION SHEET

SITE Magnode Products, Inc
IDENTIFICATION NUMBER OHD004232823

SOURCE NUMBER	DESCRIPTION OF SOURCE
1A, 1B, 1C, 1D	1A) QUAD NAME Trenton SIZE: (7.5) or 15 YEAR 1966 1B) QUAD NAME Hamilton SIZE: (7.5) or 15 YEAR 1965 1C) QUAD NAME Middletown SIZE: (7.5) or 15 YEAR 1959 1D) QUAD NAME West Elkton SIZE: (7.5) or 15 YEAR 1961
#2	Phone Interview- Pat Petrella- Chemical Engineer- RV-
	Ecology and Environment, Inc to Thomas Tucker- SW
	OHIO- Air Pollution Control, 9 5 85, 1 23pm, (513) 251-
	8777, 1 page.
#3	Report of Investigation on Ground Water Contamination
	Potential at Twenty-One Industrial Wastewater
	Impoundments in OHIO, OHIO EPA- Division of
	Groundwater- Columbus, OH 11-4-80
#4	Middletown Landfill Hydrologic Study- Middletown,
	OHIO, Burgess and Niple, Limited- Engineers and
	Architects, June, 1982
#5	Harris '84 OHIO Industrial Directory, Harris Publishing
	Company in cooperation with Ohio Department of Development
	1984
#6	SIA (Surface Impoundment Assessment) Follow-UP,
	Magnode Corporation -OHIO EPA Groundwater, Pennino-
	McCarty-Rehme, 10-8-80, 4 pages.

PA DOCUMENTATION SHEET

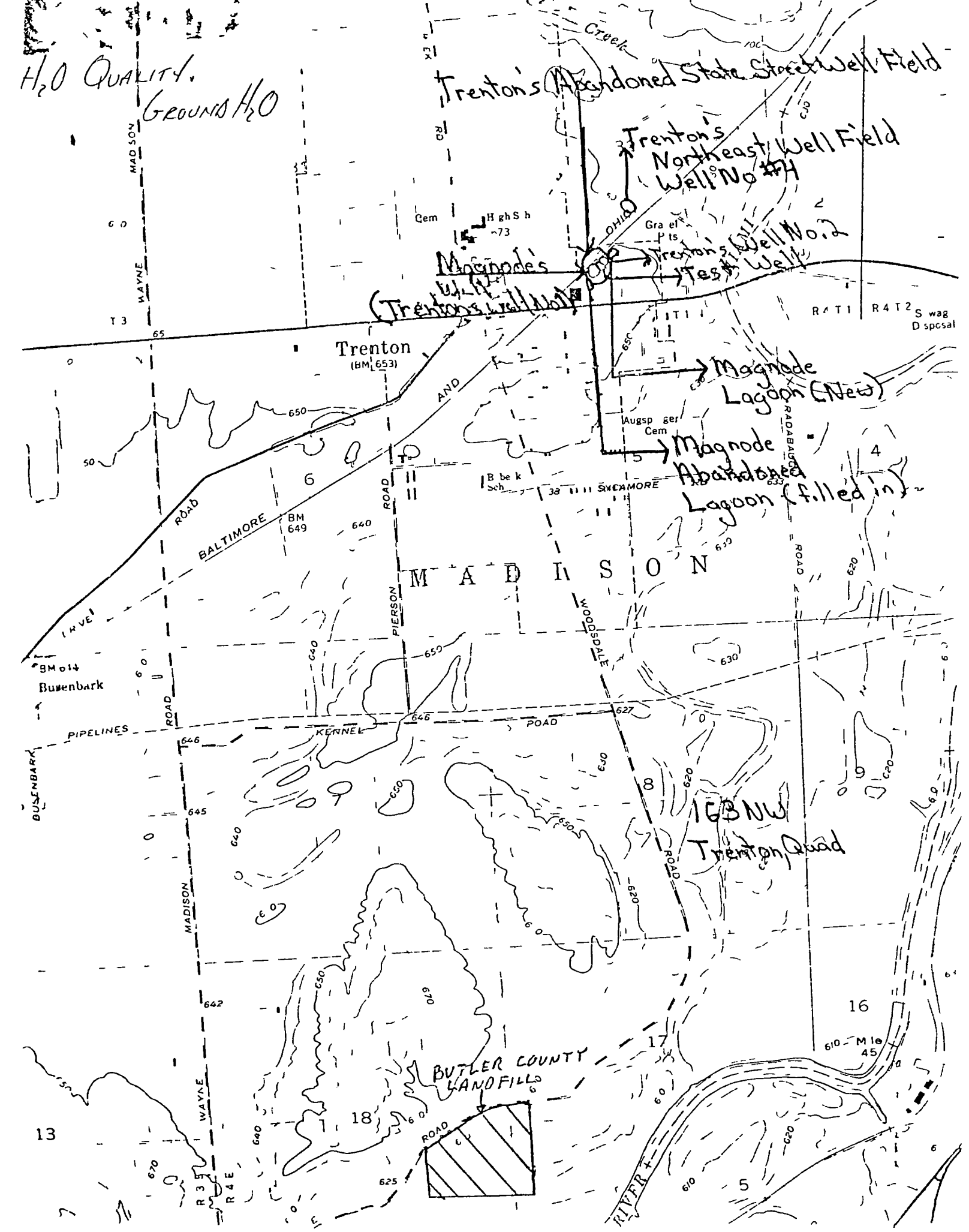
SITE Magnode Products, Inc
IDENTIFICATION NUMBER OHD004232823

SOURCE NUMBER	DESCRIPTION OF SOURCE
#7	Interview Log - Cynthia Pugh Environmental Scientist
	Reg V - Ecology and Environment, Inc to Tim Stayer -
	Water Quality Management OHIO EPA 9-11-85, 9 15am
	(513) 425-7929, 1 page
#8	Off-Site Inspection Report - Magnode Products, Inc -
	Steve Nelson - Zoologist - Ecology and Environment,
	Inc - Region V, 9-12-85 - Report Date, 9-11-85 -
	Inspection Date, 4 pages
#9	Phone Log Cy[illegible] - Environmental Scientist -
	Reg V - Ecology and Environment Inc to David Thaler -
	Water Supervisor - Middletown Water Dept, 9 10-85,
	3'50 pm, (513) 425-7729, 1 page.
#10	Interview Log Cynthia P[illegible] - Environmental Scientist -
	Reg V Ecology and Environment, Inc to Tim Stayer -
	Water Quality Management - OHIO EPA, 9-5-85, 10 35am,
	(513) 449-6557, 1 [illegible]
#11	Interview Log - Cynthia P[illegible] Environmental Scientist
	Reg V Ecology and Environment, Inc to Richard Bendula -
	Geologist - OHIO EPA - SWDO, 9 10-85 1'00, m,
	(513) 449-6357, 1 [illegible]
#12	Interview Log Cynthia Pugh - Environmental Scientist -
	Reg V - Ecology and Environment, Inc to Valerie

PA DOCUMENTATION SHEET

SITE Magnetic Products, Inc.
IDENTIFICATION NUMBER OHD004232823

SOURCE NUMBER	DESCRIPTION OF SOURCE
	Brinker - Industrial Wastewater - OHIO EPA - SWDO
	9-9-85, 4:00pm, (513) 449-6357, 1 page.
#13	Phone Log - Bridget Haugh - Geologist - Ray V - Ecology
	and Environment, Inc. to Freelan Whitt - Trenton Water
	Department, 9-3-85, 2:00pm, (513) 988-6304, 1pg
#14	Phone Log - Bridget Haugh - Geologist Ray V Ecology
	and Environment, Inc. to Freelan Whitt - Trenton
	Water Department, 9-6-85, 11:00am, (513) 988-6304,
	1 page.
#15	1980 Census Population and Housing Data (Inter-
	Office Communication) Ada Hortman - Assistant
	Manager - Environmental Assessment Section - OHIO
	EPA, 12-27-82
#16	OHIO Congress District and County Code List by -
	Sherrod Brown, Secretary of State
#17	Map Key of all Impoundments Inventoried for STA (Surface
	Impoundment Assessment) Cathleen L McCarty - OHIO EPA -
	Southwest District Office
#18	Endangered Species List - Dept of the Interior - Fish and Wildlife
	Service
#19	Merck Index 9th Edition, Merck & Co, 1976, 1313 pages
	END


H2O Quality.
Ground H2O
Trenton's Abandoned State Street Well Field
Trenton's Northeast Well Field Well No #4
Magnode's Well
(Trenton's Well No 1)
Trenton's Well No. 2 Test Well
Magnode Lagoon (New)
Magnode Abandoned Lagoon (filled in)
Trenton
(BM 653)
MADISON
BALTIMORE AND OHIO
SYCAMORE
PIERSON ROAD
WOODSDALE ROAD
RADABAUGH ROAD
KENNEL ROAD
PIPELINES
BUSENBARK ROAD
MADISON ROAD
WAYNE ROAD
Busenbark
BUTLER COUNTY LANDFILL
RIVER
16BNW Trenton Quad