MI-0121-07
R05-8303-03
c.2
07/84

US EPA RECORDS CENTER REGION 5
472176

EXECUTIVE SUMMARY

Site Name and Location

Albion - Sheridan Twp. Landfill
13355 29 Mile Road
Albion, Michigan 49224

County: Calhoun
Michigan Code Number: NE 1/4 SE 1/4 Sec. 36 T.2.S.R.4.W.
DNR District: Jackson
EPA ID Number: MID 980504450

The Albion - Sheridan Township Landfill received unknown quantities of general refuse and industrial wastes on its twenty-one acres. Located in a rural area approximately one mile from the city of Albion, about 6000 yds^3 of sludge is present on the site lacking adequate cover and lining. Gordon Stevick, 29951 Division Drive, Albion, Michigan 49224 or Lot #1, Crystal Lake, Cement City, Michigan 49233 is listed as the responsible party for this landfill which contaminated soils and groundwater.

Closed in 1980, this landfill is currently used as a transfer station. In the early 1970's, it received approval for sludges, described as insoluble hydroxides and carbonates, which were used to cover the landfill in 1979-80. The inorganic chemical contaminants have seeped into the shallow groundwater beneath the site. This confirmed contamination is suspected to be discharging to the South Branch Creek and a wetland area just South and East of the landfill. Contaminant levels have been recorded as follows: Nickel 1000 mg/kg , Lead 280 mg/kg, Chlorides 290 mg/l, Nitrites/Nitrates 3.6 mg/l, Cyanide 2100 ppm.

Follow-up Recommendation for EPA

Interim Response action, recommended funding of 82.5 thousand dollars, was slated for the 1985 fiscal year, emphasizing the need for fencing. Due to existing groundwater and soil contamination and the possibility for surface water contamination and direct contact, the Albion-Sheridan Township landfill received a "medium" priority for inspection. We suggest that further soil investigations be conducted and monitoring wells be installed to determine the existence of contamination from the Albion-Sheridan Township Landfill.

Date: July 1984
By: Leslie Bargero

CAPPED
COMPLETED

121

(Not RCRA)

EPA

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

I. IDENTIFICATION
01 STATE: 26 | 02 SITE NUMBER: MID980504450

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
ALBION/SHERIDAN TWP. LANDFILL	13355 29 MILE ROAD				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
ALBION	MI	49224	CALHOUN	025	49
09 COORDINATES LATITUDE	LONGITUDE				
42° 14' 57"	84° 43' 5"	NE 1/4 SE 1/4 T.2S. R.4.W, Section 36			

10 DIRECTIONS TO SITE (Starting from nearest public road)
ERIE ROAD and 1/2 to 3/4 MILE WEST OF FINLEY ROAD

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
GORDON STEVICK	*29951 DIVISION DRIVE		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
ALBION	MI	49224	( )
07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)		
ALBION / SHERIDAN TWP			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
ALBION	MI	49224	(517) 629-2604

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 c) DATE RECEIVED: / / (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 4 13 80 (MONTH DAY YEAR)
☐ NO

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

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1969 (BEGINNING YEAR) | 1980 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
SOLID AND SLUDGE (TOXIC/ PERSISTANT) HIGH IN CONCENTRATION OF NICKEL AND OTHER CHEMICAL CONTAMINANTS

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Potential for groundwater (POPULATION), surface water contamination from inadequate cover of sludge (POPULATION / ENVIRONMENT)
Also potential for direct contact. (POPULATION AND 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 (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
TERRY HARTMAN	MICH. DNR - GRAND RAPIDS OFFICE	(616) 456-5071

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
G. Danneffel / L. Bargero	MDNR	REMEDIAL ACTION	(517) 373 4800	6 27 84 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

* Also listed as Lot #1, Crystal Lake, Cement City, Mi. 49233

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
26	MID980504456

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [x] A. SOLID
- [ ] B. POWDER, FINES
- [x] C. SLUDGE
- [ ] D. OTHER _____ (Specify)
- [ ] E. SLURRY
- [ ] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____
CUBIC YARDS ~ 6000
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- [x] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [x] D. PERSISTENT
- [x] 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	6000	yds³	Ground Water Contamination Resulted
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	unknown		In samples from wells
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

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
SLU	NICKEL	7440-02-0	LANDFILL	1000	mg/Kg
SLU	LEAD	7439-92-1	LANDFILL	280	mg/Kg
IOC	Chlorine	7782-50-5	Landfill	4.4 - 290	mg/l
IOC	Nitrite/Nitrate Total	999	Landfill	3.6	mg/l
IOC	CYANIDE	999	Landfill	2100	ppm

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Cadmium	7440-43-9	FDS		
FDS	Chromium	7440-47-3	FDS		
FDS	Nickel	7440-02-0	FDS		
FDS	Chlorine	7782-50-5	FDS		

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

MICHIGAN DEPARTMENT OF NATURAL RESOURCES, GRAND RAPIDS OFFICE

EPA

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

I. IDENTIFICATION

01 STATE: 26 | 02 SITE NUMBER: MID 980 504450

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION | 02 [X] OBSERVED (DATE: 4/3/80) | [ ] POTENTIAL | [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 12,673 | 04 NARRATIVE DESCRIPTION

VARIOUS WELLS (Monitoring) WERE SAMPLED AND GROUNDWATER WAS CONTAMINATED WITH NICKEL AND OTHER CHEMICAL POLLUTANTS.

01 [X] B. SURFACE WATER CONTAMINATION | 02 [ ] OBSERVED (DATE:) | [X] POTENTIAL | [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10,360 | 04 NARRATIVE DESCRIPTION

THE INADEQUATE COVER OF THE SLUDGE OFFERS POTENTIAL SURFACE-WATER CONTAMINATION (SOUTH BRANCH CREEK AND SWAMP AREA)

01 [ ] C. CONTAMINATION OF AIR | 02 [ ] OBSERVED (DATE:) | [ ] POTENTIAL | [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION

01 [ ] D. FIRE/EXPLOSIVE CONDITIONS | 02 [ ] OBSERVED (DATE:) | [ ] POTENTIAL | [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION

01 [X] E. DIRECT CONTACT | 02 [ ] OBSERVED (DATE:) | [X] POTENTIAL | [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 4150 | 04 NARRATIVE DESCRIPTION

THE INADEQUATE COVER OF THE SLUDGE OFFERS THE OPPORTUNITY FOR DIRECT CONTACT BY THE POPULATION

01 [X] F. CONTAMINATION OF SOIL | 02 [X] OBSERVED (DATE: 4/3/80) | [ ] POTENTIAL | [ ] ALLEGED
03 AREA POTENTIALLY AFFECTED: 20 (Acres) | 04 NARRATIVE DESCRIPTION

THE SLUDGE WAS DISTRIBUTED THROUGHOUT THE SOIL OF THE LANDFILL.

01 [X] G. DRINKING WATER CONTAMINATION | 02 [X] OBSERVED (DATE: 4/3/80) | [X] POTENTIAL | [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 12,673 | 04 NARRATIVE DESCRIPTION

THE CONTAMINANTS ARE SEEPING INTO THE UNDERGROUND WATER SYSTEMS AND ARE BEING FOUND IN WELLS

01 [ ] H. WORKER EXPOSURE/INJURY | 02 [ ] OBSERVED (DATE:) | [ ] POTENTIAL | [ ] ALLEGED
03 WORKERS POTENTIALLY AFFECTED: | 04 NARRATIVE DESCRIPTION

01 [X] I. POPULATION EXPOSURE/INJURY | 02 [ ] OBSERVED (DATE:) | [X] POTENTIAL | [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 12,673 | 04 NARRATIVE DESCRIPTION

The population could potentially be exposed to the contamination if it seeped into residential wells.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
26	MID980504450

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 [X] J. DAMAGE TO FLORA — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
Possibility of Damage Present Because of the Inadequate Cover of Sludge resulting in surface water contamination.

01 [X] K. DAMAGE TO FAUNA — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
Possibility Present also because of the Inadequate Cover of Sludge contaminating the flora and water supply

01 [ ] L. CONTAMINATION OF FOOD CHAIN — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [X] M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids/Leaking drums) — 02 [X] OBSERVED (DATE: 4/3/80) — [ ] POTENTIAL — [ ] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 12,673
04 NARRATIVE DESCRIPTION
The containment proved unstable when the contamination seeped into the underground water supply. Inadequate cover further adds unstability.

01 [X] N. DAMAGE TO OFFSITE PROPERTY — 02 [ ] OBSERVED (DATE: _____) — [X] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION
The seepage of contamination into ground water and potentially into surface water offers the potential for damage to offsite property.

01 [ ] O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION

01 [ ] P. ILLEGAL/UNAUTHORIZED DUMPING — 02 [ ] OBSERVED (DATE: _____) — [ ] POTENTIAL — [ ] ALLEGED
04 NARRATIVE DESCRIPTION

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 12,673

IV. COMMENTS

Landfill is currently used as a transfer station. In early '70's LF received approval for sludges from Union Steel. In 79'-80' these sludges used to cover LF. LF was closed in 1980. Sludges described as "insoluble hydroxides + carbonates"

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

State Files, Sample Analysis, Site Visitation Reports

DATE 5-29-84 C2

COMPLETED BY G. Dauneffel 05/24/84

IDENTIFICATION

Site Name Albion-Sheridan Twp Landfill AKA:

Street Address 13355 29 Mile Road

City Albion State MI Zip 49224

LOCATION

County Calhoun Township Sheridan

Coordinates: Latitude 42° 14' 57" Longitude 84° 43' 5"

SE¼ SE¼ Section 36, T 2 S, R 4 W

Directions to Site (Road Directions): ERIE Road & ½ to ¾ mile west of Finley Road

Site Scored As: ____ Multiple Sites ✓ Unknown Chemical ____ Default

SUMMARY

		YES	NO	SCORE	SCREENED #	COMMENTS
Site of 307	Contamination	X		707		
	Date			8-30-83		
S.W. Contamination Potential		X				
G.W. Contamination "		X				
Air Contamination			X			
Direct Contact "		X				
Fire & Explosion			X			
Well Contam.	Public		X			
	Private		X			
	Monitoring	X				
Existing Exposure			X			
STATE	House District	003				
	Senate District	20				
	Congressional District	49				
	County Code	13				
FED	Congressional District	49				
	County Code	25				

TYPE OF SITE (Check all that apply)

Industrial ____ Landfill X Lagoon ____ Water Supply Well ____

Other ____

Source of Contamination X Yes ____ No ____ Unknown ____ Probable

Resource Contaminated ____ SW X GW ____ Air X Soils

TYPE OF OWNERSHIP

Private X Federal ____ State ____ County ____ Municipal ____

Water Supply Well ____

SITE STATUS

Active ____ Inactive X Unknown ____

ACTIVITY ON SITE

People on Site Yes ____ No X

Light Vehicles Yes ____ <5 cars/day ____ ≥5 cars/day ____ No ____

Heavy Vehicles Yes ____ <5 cars/day ____ ≥5 cars/day ____ No ____

On-site Construction Yes ____ No ____ Explain, ____

CHRONOLOGY OF OWNERSHIP

Owner ____ Street Address ____

City ____ State ____ Zip ____ Years of Ownership ____

Owner ____ Street Address ____

City ____ State ____ Zip ____ Years of Ownership ____

OWNER/OPERATOR (Presently)

Owner GORDON STEWICK Street Address 29951 DIVISION DRIVE

City ALBION State MI Zip 49224 Years of Ownership ____

Operator GORDON / STEWICK Street Address ____

City ____ State ____ Zip ____

YEARS OF OPERATION

Beginning year 1960 Ending Year ____ Unknown ____

Describe current operation ____

NUMBER OF EMPLOYEES

Present ____

SITE CONDITION

Access restricted: ____ Yes X No

If yes, how? ____

Erosion problems: ____ Yes ____ No Explain, Unknown

Waste exposed: X Yes ____ No Explain, Inadequate Cover

SITE CONDITION (Continued)

Noticeable odors: ____ Yes X No (On-site) ____

(Obnoxius or Chemical): ____ Yes X No (Off-site) ____

Ponding of surface water: ____ Yes X No Contaminated: ____ Yes ____ No

Volume ____

Visible off-site drainage: ____ Yes ____ No (Leachate)

If yes, describe ____

Impacts to area surface waters: ____ Yes ____ No X Potential

Describe ____

Soil contamination: ____ Yes X No Area or quantity ____

Damage to flora: ____ Yes ____ No (On-site) ____

____ Yes ____ No (Off-site) ____

Damage to fauna: ____ Yes ____ No (On-site) ____

____ Yes ____ No (Off-site) ____

Surface impoundments: ____ Yes ____ No ____ How many?

Covered ____ Yes ____ No Explain, ____

Lined ____ Yes ____ No Explain, ____

Diked ____ Yes ____ No Explain, ____

Free Board ____ Yes ____ No Explain, ____

Volume ____ (or) Dimensions ____

Landfill: Type General Refuse, Indust. Waste

Permitted ____ Yes X No Explain, Not by 641

Covered X Yes X No Explain, Covered, but not per 641

Lined ____ Yes X No Explain, ____

Acreage ~21 acres (of fill area used)

Containers: Surface ____ Yes X No Condition: ____

____ Quantity

Subsurface ____ Yes ____ No X Unknown ____ Suspected

____ Quantity

Piles: ____ Yes X No ____ How many? ____ Volume of each

Covered ____ Yes ____ No

Lined ____ Yes ____ No

Fishery: ____ Cold H_2O X Warm H_2O ? Describe (Name): ____

Has a fish advisory been issued? ____ Yes X No If yes, explain ____

Describe and explain any other potential hazards: ____

GENERAL HYDROGEOLOGY

Unsaturated Zone NOTE: Include Well Logs

Thickness (ft): ___ <3 ___ 4-10 X 11-30 ___ 31-100 ___ <100

SAS File

Material: ___ Gravel/med-coarse sand ___ Fine to very fine sand
___ Silt/sand w/<15% clay ___ Sand/>15% but <50% clay
X Clay w/<50% sand ___ Continuous clay >15'

Permeability: _____ gpd/ft^2 (or) _____ cm/sec.

Saturated Zone

Thickness (ft): ___ <10 X 10-100 ___ <100

Material: ___ Gravel or sand X Sand w/<50% clay
___ Clay w/<50% sand

Permeability: _____ gpd/ft^2 (or) _____ cm/sec.

Groundwater flow direction: (Attach Map) South

Aquifer conditions: ___ Confined X Unconfined ___ Unknown

Sole source aquifer ___ Yes ___ No X Unknown

Explain: _____

Estimated depth to the water table: Shallow - part of it is in wetland

Site located at or near: (approximate distance)

X Wetland ___ Lake or Pond X River or Stream

<100 yr. ___
100 yr. X Flood Plain ___ Intermittent Stream/Drain ___ Municipal Well Field
>100 yr. ___
X Residential Wells

Monitor wells on site: X Yes ___ No (If yes, record under sample analysis info.

Sampling data available: X Yes ___ No (If yes, record under sample analysis info.

Soil borings performed: ___ Yes ___ No (If yes, record under sample analysis info.

CONTAMINANT INFORMATION

Physical State:

Surface		Subsurface	
X Solid	___ Powder	X Solid	___ Powder
___ Liquid	___ Gas	___ Liquid	___ Gas
X Sludge		X Sludge	
___ Other _____		___ Other _____	

CONTAMINANT INFORMATION (Continued)

Waste Characteristics: (Specify chemicals)

X Toxic	____ Corrosive	____ Soluble
X Persistent	____ Flammable	____ Ignitable
____ Radioactive	____ Infectious	____ Volatile
____ Reactive	____ Explosive	____ Incompatible

Mobility of Solids: ____ Finely Divided ____ Coarsely Divided X Immobile

Explain, _____

Amount of waste present (total)

Surface

____ Tons ____ Barrels ____ Cubic Yards ____ acres

Subsurface

____ Tons ____ Barrels ____ Cubic Yards ____ acres

21 acres

Unknown contaminants: Gen Ref., probably some industrial waste

Documented contamination: X Yes ____ No (If yes, record on sample analysis info.)

Quantity of various wastes present (if known): L.F. 20 acres
Sludge ~ 6000 yds³

POPULATION POTENTIONALLY AFFECTED

Target Route \ Target Radius	S.A.S. Req.	S.A.S. ½ Mile	Req.	PRELIMINARY ASSESSMENT (P.A.) 1 Mile	Req.	2 Miles	Req.	3 Miles	Req.	4 Miles
Groundwater (G.W.)	✓	* 28					✓	12,673		
Surface Water (S.W.)	✓	** 176			✓	10,360				
Air	✓	—							✓	—
Direct Contact	✓	** 176	✓	4150						
Fire & Explosion	✓	—			✓	—				

* In direction of flow
** Multiply population by 0.5
NOTE: for S.A.S. Population Figures use, 4 People/Home
for P.A. Population Figures use, 3.8 People/Home and 1.5 People/Acre when either S.W. or G.W. is used for irrigation.

B.P. 4-25-84

SAMPLE ANALYSIS DATA

Site Name: Albion – Sheridan Twp L.F.

SAMPLE LOCATION	TYPE	CONTAMINANT	CONCEN-TRATION	SOURCE - COMMENTS	SAMPLE DATE
Monitor Well MW. Data			(mg/l)		
	G.W.	Lead	0.4	Lab analysis forms say "Supernatant analyzed". I don't know what this means – Supernat. from well or Supernat. from sampling bottle? But – it looks as if the sample(s) may have had sedimentation occur before analysis.	4-3-80
		NH_3	38		
		NO_2	.03		
		others – see SAS File			
			mg/Kg		
Metallic Sludge Sampled	S	CD	10		
		CR	250,000		
		CU	100		
		NI	1000		
		PB	280		
		ZN	150,000		
		FE	45,000		

SAMPLE LOCATION KEY:

.W. – Monitoring Well
.W. – Residential Well
.W. – Public Well
.S. – Distribution System

SAMPLE TYPE KEY:

GW – Groundwater
SW – Surface Water
A – Air
S – Soil

Actions/Decisions to be seen to for each incident addressed by staff relative to MERA (annual relative risk list) and CERCLA (preliminary assessments and superfund nominations).

1. Define incident. (Record in site description and/or master form).

   Is it a source of pollutants known or suspected to be releasing pollutants?

   Is it a part of the environment to which pollutants already have been released and are now limiting the usefulness of the resource?

2. Determine if there is a problem which needs immediate attention through EPA immediate removal or 307 interim response actions.

3. Assure other offices, such as field staff and health departments, are aware of incident.

4. Do SAS screening analysis to determine site priority for full SAS analysis.

5. Decide if site is candidate for Site Inspection and HRS analysis Superfund remedial action.

6. Complete and document incident information on master form. (Make decisions about site name, site conditions, etc.).

7. Assure file properly established.

GK
4-4-84

MODIFIED LEGRAND ASSESSMENT

COUNTY	OWNER	SITE CLASSIFICATION	SITE NUMBER	SITE LOCATION	STEP 10
CALHOUN	MUNA		S	1302S04W13	22

12/14/80

NAME: A) OWNER B) OPERATOR C) COMPLAINANT D) APPLICANT E) NONE

B ALBION-SHERIDAN TWP

MAILING ADDRESS

13355 29 mi RD

CITY	STATE	ZIP CODE	AREA CODE	TELEPHONE NUMBER
ALBION	MI	49224	517	629-2604

DATE ASSESSED	SIC CODE	WASTE ID	SITE STATUS	HYDROGEO REPORT?
12/16/80		E2207	U	C

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6	STEP 7	STEP 8	STEP 9	MISCELLANEOUS IDENTIFIERS
3D	2	0	2	8E	0	12	8C	11	11	10	5

Has the groundwater or surface water quality in the site area been adversely affected? 1) YES 2) NO 3) UNKNOWN

Explain:

Have drinking water wells in the site area been adversely affected? If so, what type? 1) YES 2) NO 3) UNKNOWN

Explain:

REPRESENTATIVE WELL RECORD

Location

A) ____ wells/____ sq. mi. @ ____ ft.
B) ____ wells/____ sq. mi. @ ____ ft.
C) ____ wells/____ sq. mi. @ ____ ft.
D) ____ wells/____ sq. mi. @ ____ ft.

Lithology	Thickness	DTB
sand + clay	10	10
gravel + clay	35	45
sandstone	10	55
shale	20	75
limestone	?	?

BR. varies bet. 40+ 70 ft. below surface.

No logs in sect. 13.

Clays are not continuous.

COMMENTS

SIC code - none given, municipal landfill

Waste ID - metal treatment wastes, have been metal sludges found, but other wastes from household, industry, commercial + farm have been found

Step 3 - not known what is in landfill

Step 5 - S. Branch creek runs thru sect. 13 + area directly East + South of sect 13 is swamp.

Step 6 + 7 - estimates - not known, but there are very few logs on file + none in sect 13.

There have been monitor wells installed, of the 3 wells just developed there are questionable results of samples taken

C.P.

5-80

Hopp School
Whitlo School
Damon School
Dewsbury School
Cutler School
Campbell School
Dyer School
Hawes School
Highland School
White School
Ringle School
Stoughton School
Pulaski School
Albion
Pulaski
Lake Cicero
Cicero Creek
Bronson Creek
Lake Sprague
Mill Creek
Kalamazoo River
Michigan Central
Chicago
Detroit
Michigan
Jackson Co.
T. 2 S.
20'

Shay
Montgomery

POTENTIAL GROUND WATER CONTAMINATION SOURCE

IDENTIFICATION AND PRELIMINARY ASSESSMENT

This form is completed for each potential hazardous waste site to help set priorities for site inspections. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections. If information is not available, place an "x" in the space provided.

SE SE 1/4

SITE IDENTIFICATION

COMPANY NAME Albion-Sheridan Twp Landfill

ADDRESS 29951 Division Drive (2 miles east of Albion)

LOCATION (COUNTY, TOWN & RANGE) SE 1/4 Section 36 T2S, R4W, Sheridan Twp (Calhoun Co.)

OWNER/OPERATOR Gordon Stewick / Gordon Stewick

HOW LONG HAS THIS FACILITY BEEN OPERATING AT THIS SITE? Licensed June 13, 1966

HAS THERE EVER BEEN AN OWNERSHIP TRANSFER? No

IF SO WHEN? ____

PREVIOUS OWNER? ____

OPERATION CHARACTERIZATION

TYPE OF OPERATION (I.E. MANUFACTURING, LANDFILL, ETC.) Landfill

WASTE CHARACTERIZATION

Waste type:

___ Unknown X Liquid X Solid X Sludge ___ Gas

Waste characteristics:

___ Unknown ___ Corrosive ___ Ignitable ___ Radioactive ___ Highly Volatile

___ Toxic ___ Reactive ___ Inert ___ Flamable

___ Other Specify ____

Waste description (metal sludges, PCB's, etc.) metallic sludges (as per 11-24-71 Dept instructions), thinner & paint skimmings

PROBLEM CHARACTERIZATION (I.E. UNLINED SEEPAGE LAGOON, IMPROPER BARREL DISPOSAL, ETC. Geological integrity of site not established and detailed engineering plans never submitted

LIST ALL APPLICABLE PERMITS HELD BY THE SITE (FILL IN DATE OF ISSUANCE & PERMIT NUMBER)

NPDES _____ Liquid industrial waste _____

Air _____ Groundwater discharge _____

Solid waste Dec 7, 1978 #4896 Soil & sedimentation _____

Inland lakes _____ Other (specify) _____

COMPLIANCE HISTORY Numerous violations of Act 87, i.e. no compaction, no daily cover, leachate breaks, sewage material accumulation, liquid disposal 1-27-71 – 11-19-7 apparent burning

CONTAMINATION INFORMATION

HAS THERE BEEN ANY ATTEMPT TO MONITOR THE GROUNDWATER IN THE PAST No

If so, give the location or identification number of the wells _____

List any pertinent monitoring data (include date and laboratory used for analysis _____

GIVE THE LOCATION & DISTANCE TO THE NEAREST PRIVATE WELL 800'

GIVE THE SOURCE OF MUNICIPAL WATER SUPPLY _____

LIST ANY KNOWN GEOLOGICAL CHARACTERISTICS OF THE AREA _____

DEPARTMENT ACTION

HISTORY OF SITE INSPECTIONS (LIST DATE, INSPECTING AGENCY & RESULTS)

Total of 63 site inspections by Calhoun Co H.D. & DNR

REGULATORY ACTIONS (NOTICES OF NONCOMPLIANCE & VIOLATIONS, DATES & REASONS)

3-28-73 - Informal hearing @ County Health Dept.

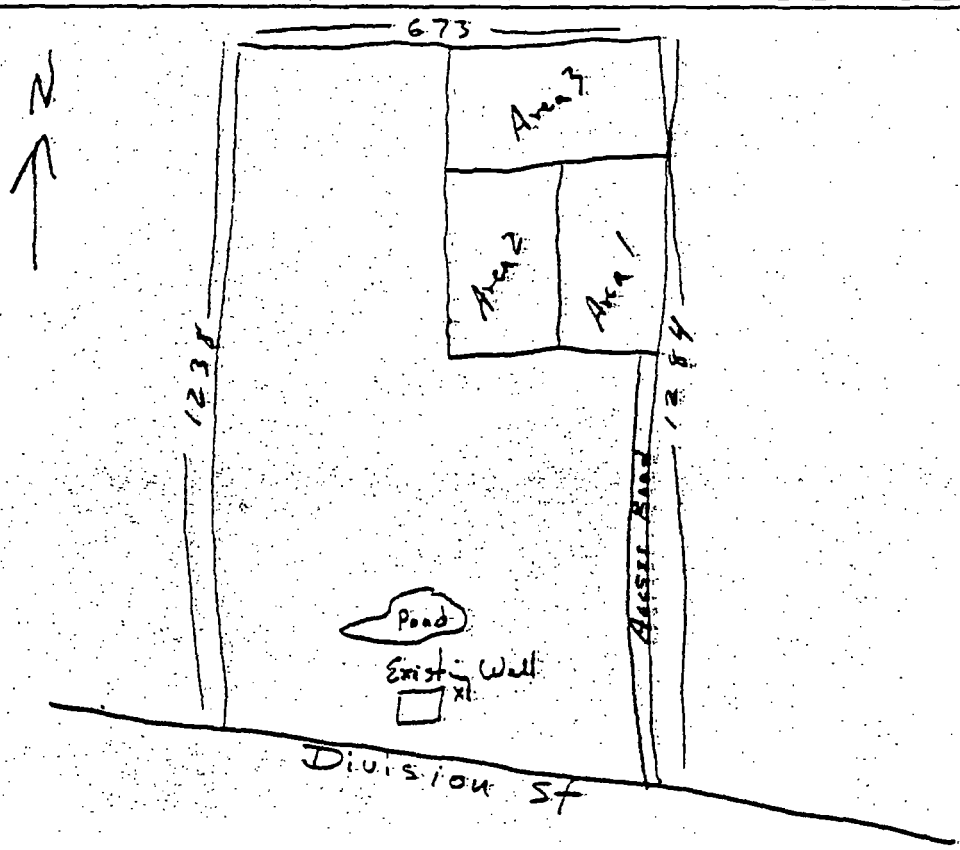
Most site inspections contained areas of noncompliance

REMEDIAL ACTIONS REQUESTED (ACTIONS & DATES)

DNR 10-4-78 Request for hydro study & engineering plans

DNR 11-21-79 Request for hydro study

Were these actions accomplished? No



Case name: Albion-Sheridan Land

PRELIMINARY PROBLEM ASSESSMENT

Date _____

POTENTIAL HAZARDS (CHECK ALL APPLICABLE CATEGORIES)

Human health	____	Noticeable odors	____
Contamination of water supply	____	Contamination of soils	____
Contamination of groundwater	Suspect	Property damage	____
		Sewer/storm drain problems	____
Contamination of surface water	____	Erosion problems	____
Contamination of food chain	____	Inadequate security	____
Damage to flora/fauna	____	Other (specify)	____
Fish kill	____	_____	
Contamination of air	____	_____	
Fire or explosion	____	_____	
Spills/leaking containers (runoff) standing liquids	____		
Incompatible wastes	____		
Midnight dumping	____		

WHAT ADDITIONAL INFORMATION IS REQUIRED? _____

DESCRIBE ANY NECESSARY ACTIONS WHICH SHOULD BE UNDERTAKEN? (ADDITIONAL SAMPLING, SITE INSPECTION, ETC.) Hydro survey needs to be conducted on this site to determine if groundwater contamination has occurred.

SUMMARY OF ACTIONABLE VIOLATIONS

Case Name _____

The following is a list of violations which may provide a basis for the development of enforcement strategy. The violations fall into two basic categories: 1. Operation without a permit or 2. violation of a permit, final order, consent agreement etc. Please note any of these violations during the course of your review.

Violation of Act 245, P.A. 1929, the Water Resources Commission Act (discharge violation)

No permit _____

Violation of permit _____

Surface water discharge _____

Groundwater discharge _____

Violation of Part 5 Rules for Act 245, P.A. 1929

Illegal storage _____

Improper storage _____

No PIPP _____

PIPP not implemented correctly _____

Violation of Act 641, P.A. 1978, the Solid Waste Management Act

No license _____

Violation of license _____

Other violations (failure to report critical materials, improper disposal of PCB's, illegal waste removal, etc.) _____

No Actionable Violation

NATIONAL PRIORITIES LIST
CHECKLIST OF DATA REQUIREMENTS

Site Name: Albion-Sheridan Landfill; Calhoun County (2)

Notes: Only information in file is LeGrand assessment and 4 well log. No monitoring data or information concerning G.W. was available. No info. available for direct contact route

DATA ELEMENT/PATHWAY	Available	Not Appropriate
Ground and Surface Water and Air		
1. Waste physical state		
2. Persistence		
3. Toxicity		
4. Quantity		
Ground Water		
1. Monitoring data OR		
1a. Depth of aquifer	X WELL LOGS	
1b. Net precipitation	X MITRE MANUAL	
1c. Permeability	X WELL LOGS	
2. Ground water use		
3. Distance to nearest down-gradient well		
4. Population served by wells within 3 miles		
Surface Water		
1. Monitoring data OR		
1a. Slope and terrain		
1b. Rainfall intensity	X MITRE MANUAL	
1c. Distance to surface water		
1d. Flood potential		
2. Surface water use		
3. Critical habitats		
4. Population served		
Air		
1. Monitoring data		
2. Waste reactivity		
3. Incompatibility		
4. Toxicity		
5. Distance to nearest population		
6. Population within 1 mile		
7. Critical environments		
8. Land use		

5 of 6

NATIONAL PRIORITIES LIST
CHECKLIST OF DATA REQUIREMENTS
Page 2

DATA ELEMENT/PATHWAY	Available	Not Appropriate
Fire and Explosion		
1. Ignition source		
2. Containment		
3. Ignitability		
4. Reactivity		
5. Incompatibility		
6. Distance to population		
7. Distance to off-site building		
8. Distance to sensitive ecosystems		
9. Land use		
10. Population within 2 miles		
11. Buildings within 2 miles		
Direct Contact		
1. Evidence OR		
1a. Accessibility		
1b. Containment		
2. Toxicity		
3. Population within 1 mile		
4. Critical habitat		
5. Land use		