2021 Hazardous Waste Scanning Project

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Specific File Naming Convention Label:

Report.HW.932032.1988-01-01.Phase_I.pdf

932032

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Guterl (Special) Steel Co.

City Of Lockport

Site No. 932032

Niagara County

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233

Thomas C. Jorling, *Commissioner*

Division of Hazardous Waste Remediation

Michael J. O'Toole, P.E., *Director*

By:

ENGINEERING-SCIENCE

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATIONS

GUTERL SPECIAL STEEL CORPORATION
NYS SITE NUMBER 932032
CITY OF LOCKPORT
NIAGARA COUNTY
NEW YORK STATE

Prepared For

DIVISION OF HAZARDOUS WASTE REMEDIATION
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 WOLF ROAD
ALBANY, NEW YORK 12233-0001

Prepared By

ENGINEERING-SCIENCE
290 ELWOOD DAVIS ROAD
LIVERPOOL, NEW YORK 13088

In Association With

DAMES & MOORE
2996 BELGIUM ROAD
BALDWINSVILLE, NEW YORK 13027

DATE OF SUBMITTAL: JANUARY, 1988

GUTERL SPECIAL STEEL CORPORATION

TABLE OF CONTENTS

SECTION I
EXECUTIVE SUMMARY

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC), presents the results of the Phase I investigation of the Guterl Special Steel Corporation site (NYS I.D. Number 932032, No EPA Number), located in the City of Lockport, Niagara County, New York (see Figure I-1).

SITE HISTORY

Guterl Special Steel Corporation, and their predecessor Simonds Saw and Steel Company, used a landfill at the Lockport manufacturing facility for the disposal of slag, baghouse dust, foundry sand, and miscellaneous plant rubbish. The landfill was operated from 1962 until 1981 (Snyder, 1981; Buri, 1986; Hopkins, 1983). In 1982, Guterl Steel salvaged approximately 2 million pounds of alloy steel from the landfill (Dogle, 1981) and applied for a permit to operate a solid waste management facility (Dogle, 1981). Four groundwater monitoring wells were installed around the perimeter of the landfill as part of the application for this permit (Dogle, 1981).

The landfill has not been used since the salvaging operation, and is currently graded but uncovered and unvegetated (ES Site Visit, 1986).

ASSESSMENT

In an attempt to quantify the risk associated with this site, the Hazard Ranking Scoring system (HRS) was applied as currently being used by the NYSDEC to evaluate abandoned hazardous waste sites in New York State. This system takes into account the types of wastes at the site,

receptors, and transport routes to apply a numerical ranking of the site. As stated in 40 CFR Subpart H Section 300.81, the HRS scoring system was developed to be used in evaluating the relative potential of uncontrolled hazardous disposal substances to cause health or safety problems or ecological or environmental damage. It is assumed by the EPA that a uniform application of the ranking system in each state will permit EPA to identify those releases of hazardous substances that pose the greatest hazard to humans or the environment.

Under the HRS, three numerical scores are computed for each site, to express the relative risk or danger from the site, taking into account the population at risk; the hazardous potential of the substances at a facility; the potential for contamination of drinking water supplies, for direct human contact, and for destruction of sensitive ecological systems and other appropriate factors. The three scores are:

- S_M reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving groundwater, surface water or air. It is a composite of separate scores for each of the three routes (S_{GW} = groundwater route score, S_{SW} = surface water route score, and S_A = air route score).

- S_{FE} reflects the potential for harm from substances that can explode or cause fires.

- S_{DC} reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The preliminary HRS score was:

S_M	= 3.00	S_{GW}	= 2.98
S_{FE}	= 0.00	S_{SW}	= 4.25
S_{DC}	= 37.50	S_A	= 0.00

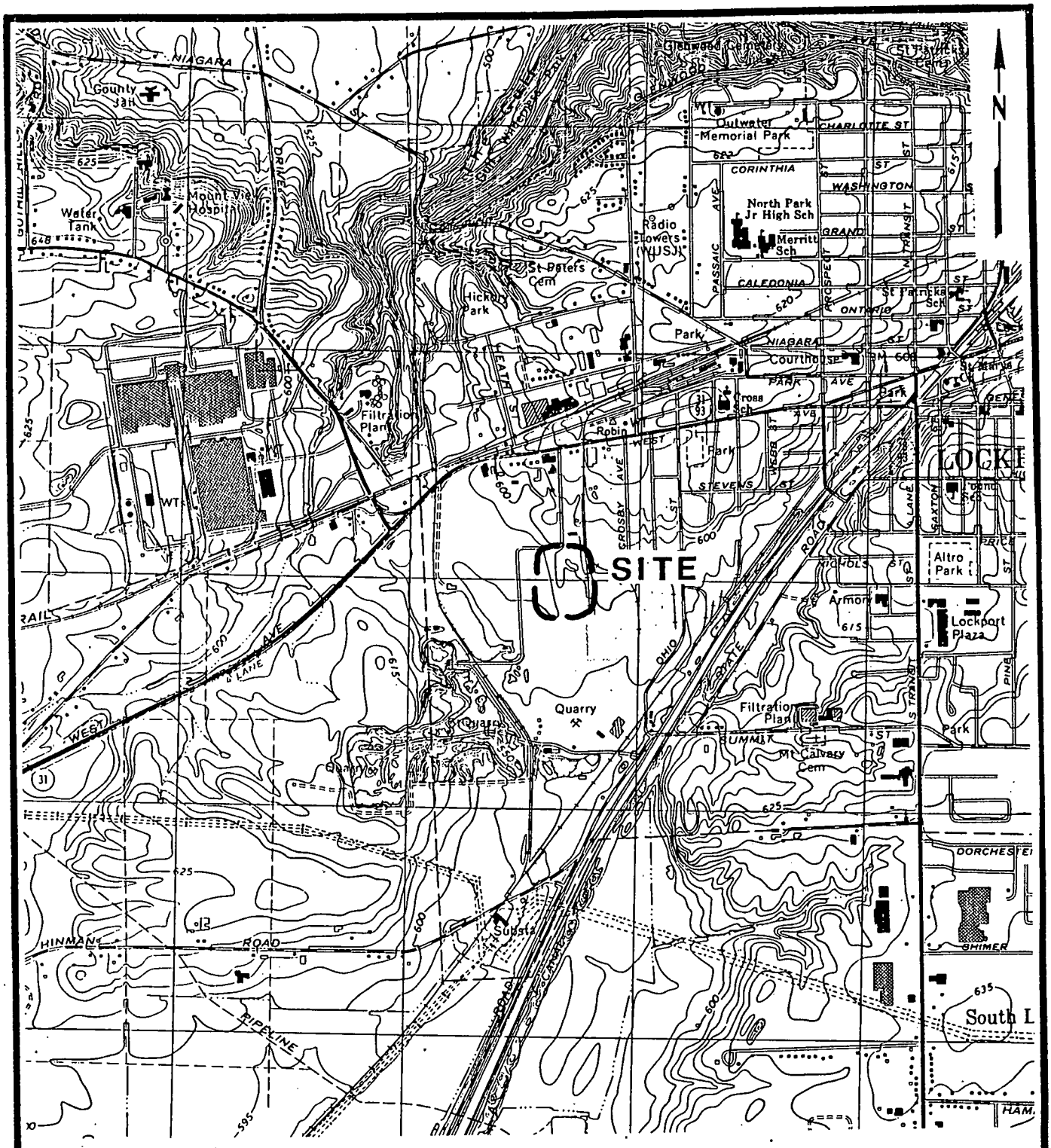
These scores are very low because neither the groundwater nor surface water are used for drinking purposes.

RECOMMENDATIONS

The following recommendations are made for the completion of Phase II:

- Geophysical study consisting of an electrical resistivity and magnetometer surveys.
- Groundwater monitoring system consisting of one upgradient and three downgradient wells based on results of geophysical surveys. Two of the downgradient samples will be collected from existing wells.
- Waste sampling consisting of one sample collected from the leachate seep.
- Analyses to include Hazardous Substance List (HSL) metals, phenols, and TOX.

The estimated man-hours required to complete Phase II are 1,253, while the estimated cost is $67,858.



LATITUDE: 43°09'45" N
LONGITUDE: 78°42'57" W

SCALE

0 1000 2000 3000 4000 FEET

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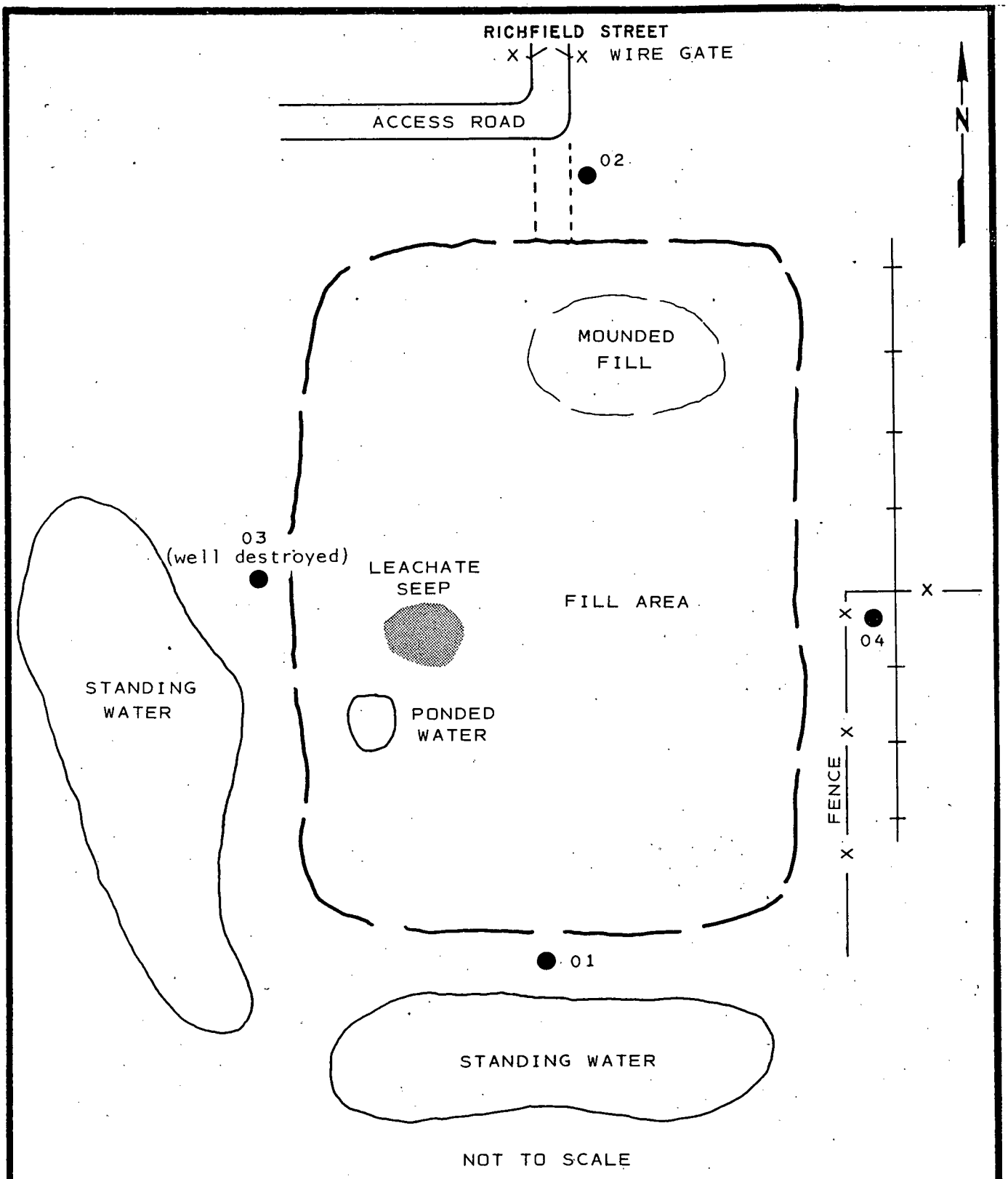
SITE LOCATION MAP
GUTERL SPECIAL STEEL CORP.

FIGURE I-1

REFERENCE: U.S.G.S. 7.5' Topographic Map
Lockport, NY (1980) Quadrangle.



EXPLANATION:

● EXISTING WELL, INSTALLED BY EARTH DIMENSIONS, 1980

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PLOT PLAN
GUTERL SPECIAL STEEL CORP.

FIGURE I-2

SECTION II
PURPOSE

The purpose of the Phase I investigation at the Guterl Special Steel Corporation site was to assess the hazard to the environment caused by the present condition of the site. This assessment is based on the Hazard Ranking System, which involves the compilation and rating of numerous geological, toxicological, environmental, chemical, and demographic factors and the calculation of an HRS score. Details of HRS implementation are included in Section V. During the initial portion of the investigation, available data and records, combined with information collected from a site inspection, were reviewed and evaluated. The investigation at this site focused on the disposal of slag, baghouse dust and foundry sand containing heavy metals in the on-site landfill. Based on this initial evaluation of the Guterl Steel site, a Phase II Work Plan has been prepared for collecting any additional data needed to complete the HRS score. In addition, a cost estimate for the recommended Phase II work is provided.

SECTION III
SCOPE OF WORK

The scope of work for the New York State Inactive Site Investigation Program (Phase I) was to collect and review available information necessary for the documentation and preparation of a Hazard Ranking System score and a Phase II work plan and cost estimate if required. The work activities performed included data collection and review, a site inspection, and interviews with knowledgeable individuals of past and present disposal activities at the site.

The sources contacted during this Phase I investigation included government agencies (federal, state and local), present site owners and operators, and any other individuals that may have knowledge of the site, as identified during the performance of the investigation. These sources are listed in Appendix A. The intent of the list is to identify all persons, departments, and/or agencies contacted during the fourth round of the Phase I investigations even though useful information may not have been collected from each source contacted.

SECTION IV
SITE ASSESSMENT

SITE HISTORY

The 8.6 acre Guterl Special Steel site is located in the City of Lockport, Niagara County, New York. This site was used as a disposal area for slag, baghouse dust, foundry sand and miscellaneous plant rubbish from 1962 until 1981 (Snyder, 1981; Buri, 1986; Hopkins, 1983). This site was originally owned and operated by Simonds Saw and Steel, and was sold to Guterl Steel in 1978 (Buri, 1986).

In 1981, Guterl Special Steel applied for a permit to operate a solid waste management facility with the intent of reclaiming steel previously disposed of in the on-site landfill (Dogle, 1981). This operation resulted in the reclamation of approximately 2 million pounds of alloy steel from the landfill (Dogle, 1981). The site was not properly closed after the salvaging operation was completed in 1982, and is currently graded but unvegetated (Hopkins, 1983; ES Site Visit, 1986). Allegheny Ludlum has recently filed an application to operate a solid waste management facility at this site (Odasso, 1985). The site would be used for non-hazardous slag with a final elevation 15 to 18 feet above the present grade. No action has been taken by the state to accept or deny this permit application (Odasso, 1985).

SITE TOPOGRAPHY

The Guterl Special Steel landfill site is located in the City of Lockport, Niagara County, New York. The site is bordered to the north and west by the New York State Electric and Gas Corporation. The City of Lockport water line easement borders the site to the south and

Conrail property forms the eastern boundary (Snyder, 1981). Rolling hills are characteristic of the region and the Niagara Escarpment is located north of the landfill. The 8.6 acre site has been graded and has a slope of 2 to 4 percent toward the west (ES Site Visit, 1986). Based on the height of mounds observed on-site, the former height of fill prior to metal recovery operations was about 5 to 10 feet.

Although there is a gate across the northern access road to the landfill site, access to the site is not restricted because fencing does not enclose the landfill to prevent unauthorized entry (ES Site Visit, 1986).

Surface water drainage from the site is to the south and west. The nearest downslope surface water is a tributary of Eighteen Mile Creek which is located 4,000 feet northwest of the site and flows to the north. The Erie Canal passes within 3,000 feet of the site to the southeast. A berm structure exists along the canal edge and prevents runoff from directly entering this water body (USGS Topographic Map: Lockport Quadrangle, 1980). Both Eighteen Mile Creek and the Erie Canal are used for recreational purposes. In addition, an emergency drinking water intake for the City of Lockport is located at Summit Street on the canal (Hopkins, 1986). The City of Lockport and the surrounding areas obtain their municipal water from the Niagara River. Irrigation water is also drawn from the municipal system (Hopkins, 1986). There is a low-lying wet area to the west and southwest of the site. This area is not classified as a regulated wetland (Doleski, 1980) and has no visible connection to other surface water bodies.

Regional Geology and Hydrology

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region is predominantly limestone, dolostone, and shale.

In the recent past, most of New York State, including this site, has been repeatedly covered by a series of continental ice sheets. The

activity of the glacier widened pre-existing valleys, and deposited widespread accumulations of till. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water subsequently shaped channels and deposited thick accumulations of stratified, granular sediments.

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. This region is covered by lake sediments, the most recent being from Lake Iroquois (a larger predecessor to Lake Ontario) and from Lake Tonawanda (an elongate lake which occupied an east-west valley and drained north into Lake Iroquois). The sediments consist of blanket sands and beach ridges which are occasionally underlain by lacustrine silts and clays (indicating quiet or deeper water deposition). In some areas, bedrock is within a few feet of the ground surface and other sediments have been eroded away. Drainage channels carved into the Niagara Escarpment indicate positions of former outlets from Lake Tonawanda.

Granular deposits in this region frequently act as shallow aquifers, whereas lacustrine clays, as well as tills, often inhibit groundwater movement. However, fine-grained, water-lain sediments, such as silts and clays, frequently contain horizontal laminations and sand seams. These internal features facilitate lateral groundwater movement through otherwise low permeability materials.

SITE HYDROGEOLOGY

A series of soil borings were completed by Earth Dimensions in 1980 at the site. Borings were continued until refusal which tentatively identified the shallow bedrock surface. Glacial till varies in thickness across the site from 0 to 3-1/2 feet (Snyder, 1981). Due to its proximity to the ground surface, the till has been influenced by erosional processes, and developed a "blocky" structure (Snyder, 1981). The soil was found to be well drained, which seems to indicate moderate permeability of the bedrock. The soils overlying the bedrock have an

estimated permeability of 10^{-6} to 10^{-7} cm/sec and the bedrock is expected to have a permeability at least an order of magnitude greater. Bedrock in the area is Lockport Dolomite (NYS Museum and Science Service Bedrock Map, 1970).

Water occurs in the dolomite along joints and horizontal bedding lane fractures which may have been widened by solution (Johnston, 1964). Wells tapping the upper and middle sections of the Lockport Dolomite have an average yield of 31 gallons per minute although local conditions are variable (Johnston, 1964). Groundwater was detected in on-site wells at depths ranging from 1-1/2 feet to 4-1/2 feet. Groundwater is contained in the reworked glacial till and in the underlying bedrock (Snyder, 1981). The "aquifer of concern" at this site includes the thin till layers as well as the upper part of the Lockport Dolomite. The swampy area located southwest of the site may be indicative of a less permeable expanse of bedrock in this area which limits the drainage of surficial soils (Snyder, 1981).

The Frontier Stone Company is located adjacent to the Guterl Steel site. Dewatering activities conducted at the Stone Company site could influence groundwater and depress the groundwater table by a depth of thirty feet (Hopkins, 1986). Because the extent of this influence is unknown, the boring logs provided in the solid waste management facility report will be used to rate the site. However, the depth to groundwater and influence of dewatering at the Stone Company site will be assessed during the Phase II study.

The City of Lockport and the surrounding areas are all supplied with municipal water from the Niagara River (Hopkins, 1986). Irrigation water is also drawn from the river.

SITE CONTAMINATION

The waste material disposed of at the Guterl Special Steel site from 1962 until 1981 includes slag, pelletized baghouse dust, foundry sand, wood, and miscellaneous plant rubbish (Snyder, 1981). The slag

disposed of in the landfill contained an estimated two million pounds of economically recoverable metals including chromium and nickel (Snyder, 1981). Most of this material was removed from the site in 1982 (Buri, 1986). The baghouse dust also contained chromium and nickel (Hopkins, 1983), and in 1980 it was listed as a RCRA hazardous waste. Disposal of this material in the landfill ceased at that time (Buri, 1986).

In 1981, four groundwater wells were installed around the perimeter of the landfill for Guterl Special Steel to comply with NYSDEC requirements for operation of a solid waste management facility (Snyder, 1981; Erk, 1980) (see Figure IV-1). Background wells are 02 and 04 while downgradient wells are 01 and 03 (Snyder, 1981). Groundwater samples were collected at the site on five occasions between December, 1980 and April, 1982. In general, the concentration of total organic carbon, phenol, aluminum and nickel was greater in the downgradient wells than in the upgradient wells (Table IV-1) (Kahn, 1982). Phenol was detected in both of the upgradient and downgradient wells which exceeded the NYSDEC groundwater quality standards (Kahn, 1982). Several metals were also detected during the monitoring that exceeded the NYSDEC Standards or were found in higher concentrations in the upgradient wells than in the downgradient wells. These data and the fact that all of the wells were placed near the boundaries of the landfill suggest that the background wells cannot be defined as truly upgradient wells (ES Site Visit, 1986). Dispersion of contaminants in the groundwater and/or well placement within the source could cause these elevated concentrations observed in the upgradient wells. Another factor that could impact the water quality in the on-site wells is that an active Niagara County Landfill is located approximately 1/2 mile from the site (Hopkins, 1986).

No surface water, sediment or waste samples have been collected at this site (NYSDEC, Registry Sheet, 1985). An air quality survey with a Photovac meter was conducted as part of the Phase I site inspection. The results of this survey show no increase in volatile organic contamination in the air above the background level of 0.00 ppm (ES Site Visit, 1986).

TABLE IV-1.A
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]

Parameter	Well Location 01 (Down)	02 (Up)	03 (Down)	04 (Up)	Water Qual.[2] Standard
pH	9.2	7.9	*	*	6.5-8.5
Oil & Grease (mg/l)	37.8	25.8	*	*	NS
Conductivity (u/cm)	2,450	3,400	*	*	NS
TOC (mg/l)	110	80	*	*	0.10
Phenol (ug/l)	92	2	39	*	1.0
Total Halogenated Organics (ug/l)	5.7	0.6	*	*	100
Aluminum (ug/l)	760	5,720	158,000	*	NS
Total Chromium (ug/l)	18	12	10	*	50[3]
Copper (ug/l)	460	160	250	*	1,000
Iron (ug/l)	150	2,820	100	*	300
Lead (ug/l)	17	21	74	*	25
Manganese (ug/l)	90	2,770	80	*	300
Nickel (ug/l)	131	1.5	27	*	NS

(1) Samples collected by Secure Landfill Contractors 12/11/80 and 12/12/80 (Kahn, 1982).

(2) NYSDEC Groundwater Quality Standards (NYSDEC, 1985).

(3) Standard for hexavalent chromium.

* No sample.

NS No standard.

TABLE IV-1.A
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]

Parameter	Well Location 01 (Down)	02 (Up)	03 (Down)	04 (Up)	Water Qual.[2] Standard
pH	9.2	7.9	*	*	6.5-8.5
Oil & Grease (mg/l)	37.8	25.8	*	*	NS
Conductivity (u/cm)	2,450	3,400	*	*	NS
TOC (mg/l)	110	80	*	*	0.10
Phenol (ug/l)	92	2	39	*	1.0
Total Halogenated Organics (ug/l)	5.7	0.6	*	*	100
Aluminum (ug/l)	760	5,720	158,000	*	NS
Total Chromium (ug/l)	18	12	10	*	50[3]
Copper (ug/l)	460	160	250	*	1,000
Iron (ug/l)	150	2,820	100	*	300
Lead (ug/l)	17	21	74	*	25
Manganese (ug/l)	90	2,770	80	*	300
Nickel (ug/l)	131	1.5	27	*	NS

(1) Samples collected by Secure Landfill Contractors 12/11/80 and 12/12/80 (Kahn, 1982).

(2) NYSDEC Groundwater Quality Standards (NYSDEC, 1985).

(3) Standard for hexavalent chromium.

* No sample.

NS No standard.

TABLE IV-1.B
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]

Parameter	Well Location 01 (Down)	02 (Up)	03 (Down)	04 (Up)	Water Qual.[2] Standard
pH	7.8	7.9	10.8	*	6.5-8.5
Oil & Grease (mg/l)	5.4	5.1	4.4	*	NS
Conductivity (u/cm)	2,800	3,000	3,400	*	NS
TOC (mg/l)	160	18.5	132.5	*	0.10
Phenol (ug/l)	250	< 1.0	180	*	1.0
Total Halogenated Organics (ug/l)	0.1	0.1	< 0.1	*	100
Aluminum (ug/l)	1,000	1,500	180,000	2,400	NS
Total Chromium (ug/l)	21	19	13	100	50[3]
Copper (ug/l)	95	83	76	57	1,000
Iron (ug/l)	1,100	2,100	300	< 50	300
Lead (ug/l)	8	14	1	3	25
Manganese (ug/l)	550	4,900	44	< 10	300
Nickel (ug/l)	106	72	66	21	NS

(1) Samples collected by Secure Landfill Contractors 3/10/80 to 3/16/80 (Kahn, 1982).

(2) NYSDEC Groundwater Quality Standards (NYSDEC, 1985).

(3) Standard for hexavalent chromium.

* No sample.

NS No standard.

TABLE IV-1.C
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]

Parameter	Well Location 01 (Down)	02 (Up)	03 (Down)	04 (Up)	Water Qual.[2] Standard
pH	7.8	8.0	11.3	*	6.5-8.5
Oil & Grease (mg/l)	< 1.0	< 1.0	1.0	*	NS
Conductivity (u/cm)	3,000	3,700	3,850	*	NS
TOC (mg/l)	117	9.0	106	*	0.10
Phenol (ug/l)	12	468	122	*	1.0
Total Halogenated Organics (ug/l)	< 0.1	< 0.1	< 0.1	*	100
Aluminum (ug/l)	19,10	131,000	< 1,000	2,400	NS
Total Chromium (ug/l)	74	223	109	100	50[3]
Copper (ug/l)	162	146	39	57	1,000
Iron (ug/l)	27,600	28,800	60	< 50	300
Lead (ug/l)	50	36	< 10	3	25
Manganese (ug/l)	4,400	1,300	27	< 10	300
Nickel (ug/l)	300	140	160	21	NS

(1) Samples collected by Secure Landfill Contractors 6/22/81 (Kahn, 1982).

(2) NYSDEC Groundwater Quality Standards (NYSDEC, 1985).

(3) Standard for hexavalent chromium.

* No sample.

NS No standard.

TABLE IV-1.D
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]

Parameter	Well Location 01 (Down)	02 (Up)	03 (Down)	04 (Up)	Water Qual.[2] Standard
pH	7.4	7.3	10.7	11.1	6.5-8.5
Oil & Grease (mg/l)	2.0	< 1.0	1.0	*	NS
Conductivity (u/cm)	3,150	3,700	2,900	1,300	NS
TOC (mg/l)	280	200	118	63	0.10
Phenol (ug/l)	120	5	1,250	6	1.0
Total Halogenated Organics (ug/l)	< 0.1	< 0.1	< 0.1	*	100
Aluminum (ug/l)	< 300	< 300	63,400	590	NS
Total Chromium (ug/l)	10	< 10	< 10	348	50[3]
Copper (ug/l)	< 25	< 25	139	52	1,000
Iron (ug/l)	< 60	< 60	< 60	< 60	300
Lead (ug/l)	16	13	15	18	25
Manganese (ug/l)	427	3,740	< 20	< 20	300
Nickel (ug/l)	706	653	855	281	NS

(1) Samples collected by Secure Landfill Contractors 9/28/81 (Kahn, 1982).

(2) NYSDEC Groundwater Quality Standards (NYSDEC, 1985).

(3) Standard for hexavalent chromium.

* No sample.

NS No standard.

TABLE IV-1.E
SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES[1]

Parameter	Well Location 01 (Down)	02 (Up)	03 (Down)	04 (Up)	Water Qual.[2] Standard
pH	7.7	7.3	*	7.5	6.5-8.5
Oil & Grease (mg/l)	98	11	*	15.2	NS
Conductivity (u/cm)	1,800	2,280	*	1,310	NS
TOC (mg/l)	110	120	*	175	0.10
Phenol (ug/l)	58	< 1	*	27	1.0
Total Halogenated Organics (ug/l)	3.2	0.4	*	1.3	100
Aluminum (ug/l)	< 300	< 300	*	< 300	NS
Total Chromium (ug/l)	< 10	12	*	201	50[3]
Copper (ug/l)	34	47	*	42	1,000
Iron (ug/l)	< 50	< 50	*	< 50	300
Lead (ug/l)	< 10	< 10	*	< 50	300
Manganese (ug/l)	318	720	*	< 20	300
Nickel (ug/l)	95	64	*	74	NS

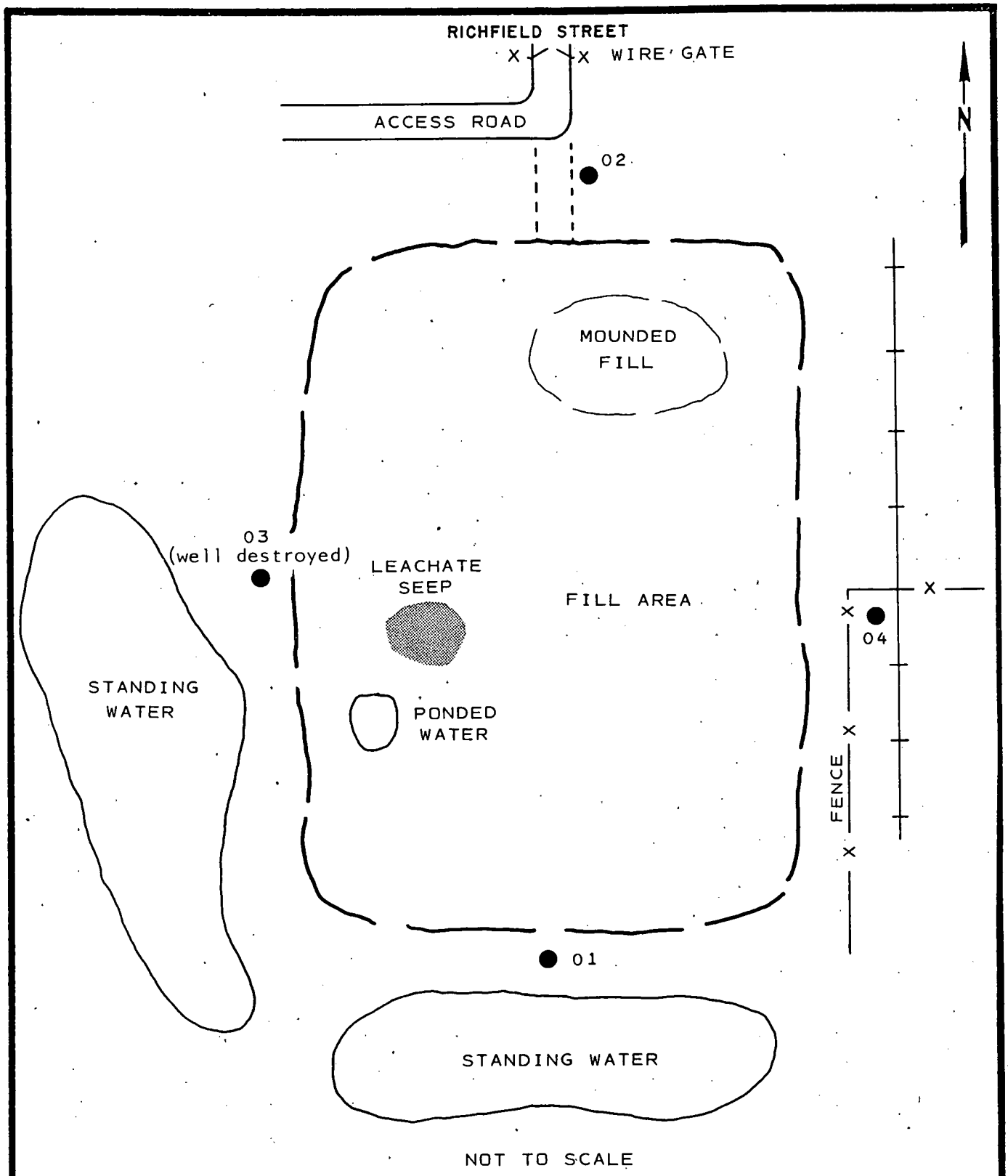
(1) Samples collected by Secure Landfill Contractors 4/14/82 (Kahn, 1982).

(2) NYSDEC Groundwater Quality Standards (NYSDEC, 1985).

(3) Standard for hexavalent chromium.

* No sample.

NS No standard.



EXPLANATION:

● EXISTING WELL, INSTALLED BY EARTH DIMENSIONS, 1980

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PLOT PLAN
GUTERL SPECIAL STEEL CORP.

FIGURE IV-1

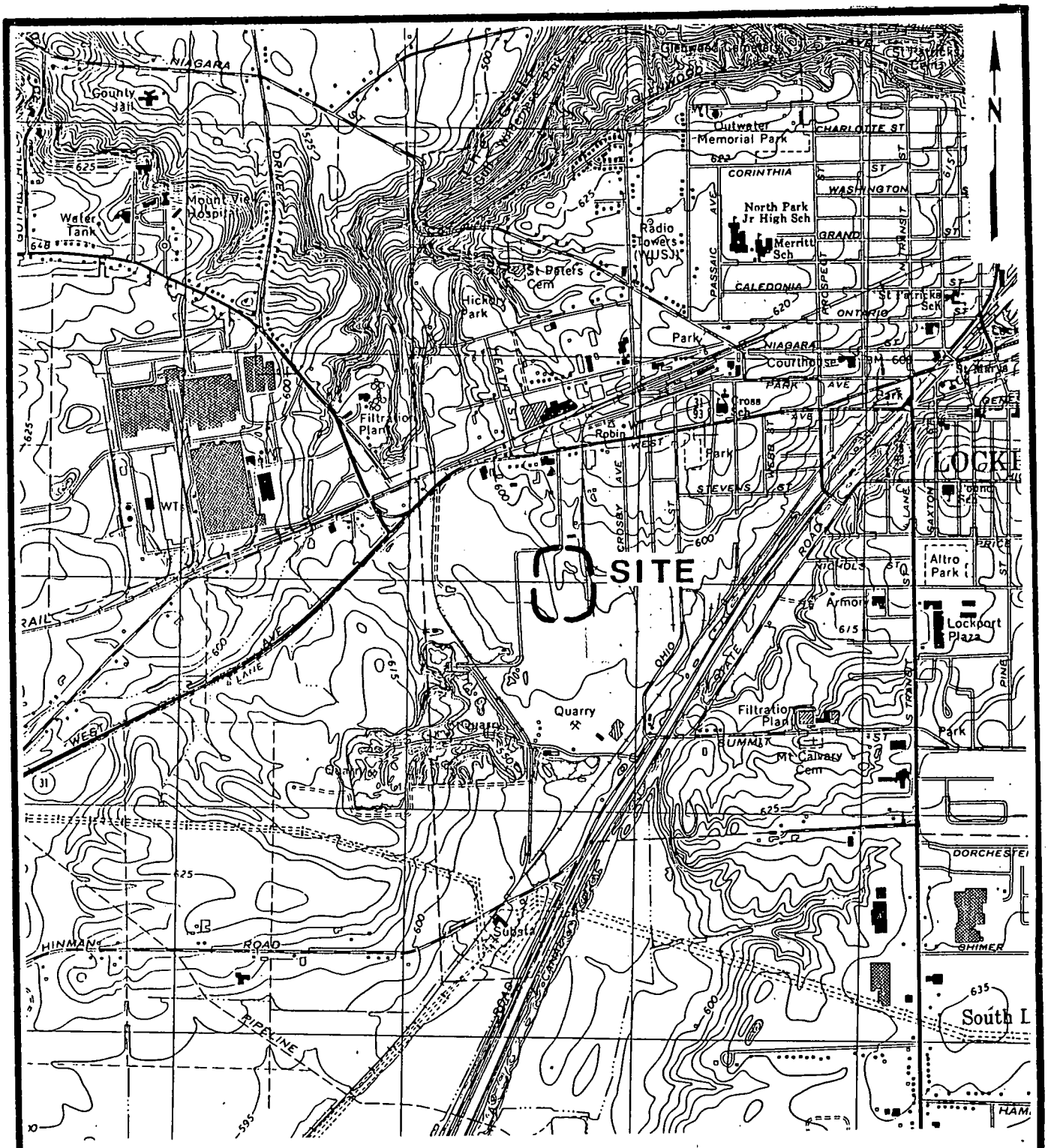
SECTION V

NARRATIVE SUMMARY

Guterl Special Steel used an 8.6 acre landfill at their plant in Lockport, NY from 1962 until 1981 for the disposal of foundry sand, baghouse dust, slag and miscellaneous plant rubbish (Snyder, 1981; Buri, 1986; Hopkins, 1983). In 1982, approximately two million pounds of alloy steel were reclaimed from the landfill (Dogle, 1981). At this time, four groundwater monitoring wells were installed around the perimeter of the landfill. The results of the analysis showed elevated levels of several heavy metals and phenol, although it appears that there was no true upgradient sample. No soil, surface water or waste monitoring has been conducted at the site to date (NYSDEC, Registry Sheet, 1985).

The groundwater beneath this site is at a depth of 5 to 10 feet. The Frontier Stone Company is located adjacent to the Guterl Steel site. Dewatering conducted at this location could influence the depth and movement of groundwater at the site (Hopkins, 1986). This groundwater is not used for drinking or irrigation purposes within three miles of the site.

The site has been recently graded, but not properly closed. No legal action has occurred as a result of past waste management practices at the site.



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PHASE I REPORT

SITE LOCATION MAP
GUTERL SPECIAL STEEL CORP.

FIGURE V-1

REFERENCE: U.S.G.S. 7.5' Topographic Map
Lockport, NY (1980) Quadrangle.

HRS COVER SHEET

Facility Name: Guterl Special Steel

Location: Lockport, New York

EPA Region: II

Person(s) in charge of the facility: A. Sil Oddaso, Gregg Eckstein

Name of Reviewer: S. Powers/L. Ryan Date: 4/30/86

General Description of the facility:

This unlined, uncovered landfill was used for the disposal of slag, baghouse dust, and foundry sand from 1968 through 1981. Chromium and nickel were contained in these wastes. Groundwater occurs at very shallow depths beneath the site in the till and the Lockport Dolomite. This groundwater aquifer is not used as a source of drinking water within a three mile radius of the site.

Scores: S_M = 3.00 (S_{gw} = 2.98 S_{sw} = 4.25 S_a = 0.00)

S_{FE} = 0.00

S_{DC} = 37.50

56510-9R:31

Facility Name: Gutenl 'Steel Site   Date: 4/30/86

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
[1] Observed Release	(0) 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line [4]. If observed release is given a score of 0, proceed to line [2].					
[2] Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6	
Net Precipitation	0 1 (2) 3	1	2	3	
Permeability of the Unsaturated Zone	0 (1) 2 3	1	1	3	
Physical State	0 (1) 2 3	1	1	3	
Total Route Characteristics Score			10	15	
[3] Containment	0 1 2 (3)	1	3	3	3.3
[4] Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			19	26	
[5] Targets					3.5
Ground Water Use	0 (1) 2 3	3	3	9	
Distance to Nearest Well/Population Served	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			3	49	
[6] If line [1] is 45, multiply [1] x [4] x [5]. If line [1] is 0, multiply [2] x [3] x [4] x [5]			1710	57,330	
[7] Divide line [6] by 57,330 and multiply by 100	S_{gw} = 2.98				

GROUND WATER ROUTE WORK SHEET

Facility Name: Guteral Steel Sta Date: 4/30/86

Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	0 (1) 2 3	1	1	3	
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	
Distance to Nearest Surface Water	0 1 (2) 3	2	4	6	
Physical State	0 (1) 2 3	1	1	3	
Total Route Characteristics Score			8	15	
3 Containment	0 1 2 (3)	1	3	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 (18)	1	18	18	
Hazardous Waste Quantity	0 (1) 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			19	26	
5 Targets					4.5
Surface Water Use	0 1 (2) 3	3	6	9	
Distance to a Sensitive Environment	(0) 1 2 3	2	0	6	
Population Served/ Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			6	55	
6 If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5			2736	64,350	
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 4.25		

SURFACE WATER ROUTE WORK SHEET

Facility Name: Gutenal Steel Site Date: 4/30/86

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
[1] Observed Release	(0) 45	1	0	45	5.1
Date and Location: 4/3/86 up & downwind at site					
Sampling Protocol: HNu meter					
If line [1] is 0, the S_a = 0. Enter on line [5]. If line [1] is 45, then proceed to line [2].					
[2] Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
[3] Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
[4] Multiply [1] x [2] x [3]				35,100	
[5] Divide line [4] by 35,100 and multiply by 100			S_a = 0		

AIR ROUTE WORK SHEET

Facility Name: Guteral Steel Date: 4/30/86

Worksheet for Computing S_M

	S	S^2
Groundwater Route Score (S_{gw})	2.98	8.88
Surface Water Route Score (S_{sw})	4.25	18.06
Air Route Score (S_a)	0.0	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		26.94
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		5.19
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		3.00

WORK SHEET FOR COMPUTING S_M

Facility Name: Guteral Steel Date: 4/30/86

Fire and Explosion Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} = 0		

FIRE AND EXPLOSION WORK SHEET

Facility Name: Guteral Steel Date: 4/30/86

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Incident	(0) 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	1	3	3	8.2
3 Containment	0 (15)	1	15		8.3
4 Waste Characteristics Toxicity	0 1 2 (3)	5	15	15	8.4
5 Targets					8.5
Population Within 1-Mile Radius	0 1 2 (3) 4 5	4	12	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			12	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			8100	21,600	
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 37.50		

DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

FACILITY NAME: Guterl Special Steel

LOCATION: Lockport, Niagara County, New York

GROUND WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

Phenol, chromium, copper, lead, and nickel detected in groundwater samples (Kahn, 1982).

Rationale for attributing the contaminants to the facility:

No observed release. Concentration of several heavy metals were higher in the upgradient well than in the downgradient well. The placement of monitoring wells within the boundaries of the site or within the landfilled material may be responsible for the elevated concentrations observed.

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

Thin veneer of glacial till with a blocky structure overlying a moderately permeable zone of the Lockport Dolomite. Flow within the dolomite occurs along vertical joints and bedding planes (Snyder, 1981).

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

Water table at 1.5 to 4.5 feet in well borings completed by Earth Dimensions in 1980, water levels were recorded directly below the fill material (Snyder, 1981).

Note: The Frontier Stone Company is located adjacent to the Guterl Steel site. Dewatering conducted at this location could influence the depth and movement of groundwater at the site (Hopkins, 1986). Because the extent of this effect is unknown, it will not be used to rate the site.

Depth from the ground surface to the lowest point of waste disposal/ storage:

Estimate of 5 to 10 feet (ES Phase I Site Visit, 1986).

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual precipitation is 36" (USDOC, 1979).

Mean annual lake or seasonal evaporation (list months for seasonal):

Mean annual lake evaporation is 27" (USDOC, 1979).

Net precipitation (subtract the above figures):

9" (36" - 27" = 9") (USDOC, 1979).

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Reworked glacial till with blocky soil structure (Snyder, 1981).

Permeability associated with soil type

10^{-6} to 10^{-7} cm/sec (Snyder, 1981).

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Solid, unconsolidated waste - Score = 1 (Snyder, 1981).

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill with no liner, surface graded to permit ponding on surface (Snyder, 1981; Abbott, 1983; ES Phase I Site Visit, 1986).

Method with highest score:

Unlined landfill, no run-on control - HRS score = 3.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Chromium, phenol, nickel, copper and lead (Kahn, 1982).

Compound with highest score:

Heavy metals all have toxicity = 3, persistence = 3, combined score = 18.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Unknown quantity of baghouse dust containing heavy metals and small chunks of steel in landfill (Snyder, 1981; Hopkins, 1983).

Basis of estimating and/or computing waste quantity:

The total quantity of hazardous waste disposed of in the landfill is unknown. Because industrial wastes containing hazardous constituents are known to exist on-site (Snyder, 1981), the lowest non-zero score is used for the hazardous waste quantity score.

5. TARGETS

Ground Water Use

Uses(s) of aquifer(s) of concern within a 3-mile radius of the facility:

The water table aquifer is not currently used, but is useable (Hopkins, 1986).

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

There are no wells within 3 miles of the site which are used as a source from drinking water (Hopkins, 1986).

Distance to above well or building:

Not applicable, there are no wells within 3 miles of the site (Hopkins, 1986).

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Not applicable, there are no wells within 3 miles of the site which are used as a source of drinking water (Hopkins, 1986).

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Irrigation water is obtained from the Niagara River through municipal supplies (Hopkins, 1986).

Total population served by ground water within a 3-mile radius:

None (Hopkins, 1986).

SURFACE WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

No surface water samples collected or analyzed (NYSDEC, 1983).

Rationale for attributing the contaminants to the facility:

Although there has been no observed release, contaminants are known to be disposed on-site. The surface water route is scored because the landfill has not been capped with an adequate cover system and the potential exists for pollutant migration via the surface water.

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

2 to 4 percent (ES Phase I Site Visit, 1986).

Name/description of nearest downslope surface water:

Tributary of Eighteen Mile Creek located 4,000 feet northwest of the site (USGS Topographic Map: Lockport Quadrangle, 1980).

Average slope of terrain between facility and above-cited surface water body in percent:

< 1 percent (USGS Topographic Map: Lockport Quadrangle, 1980).

Is the facility located either totally or partially in surface water?

Fill was reportedly disposed of in a "low wetland type area" at the southwestern edge of the landfill (Abbott, 1983). For scoring purposes, however, this swampy area is not scored as surface water (HRS User's Manual, 1984).

Is the facility completely surrounded by areas of higher elevation?

No (ES Phase I Site Visit, 1986).

1-Year 24-Hour Rainfall in Inches

2.1" (USDOC, 1963).

Distance to Nearest Downslope Surface Water

4,000 feet (USGS Topographic Map: Lockport Quadrangle, 1980).

Physical State of Waste

Solid, unconsolidated waste (Snyder, 1981) - score = 1.

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill not covered, no diversion system present (Abbott, 1983; ES Phase I Site Visit, 1986).

Method with highest score:

Above method has a score of 3.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Chromium, nickel (Snyder, 1981; Buri, 1986).

Compound with highest score:

Both compounds have combined scores of 18.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Unknown quantity of baghouse dust containing heavy metals and small chunks of steel (Snyder, 1981; Hopkins, 1983).

Basis of estimating and/or computing waste quantity:

The total quantity of hazardous waste disposed of in the landfill is unknown. Because industrial wastes containing hazardous constituents are known to exist on-site (Snyder, 1981), the lowest non-zero score is used for the hazardous waste quantity score.

* * *

5. TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Recreational uses (Hopkins, 1986).

Is there tidal influence?

No, site is not near coastal area (USGS Topographic Map: Lockport Quadrangle, 1980).

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Site is not near costal area (USGS Topographic Map: Lockport Quadrangle, 1980).

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

None within 1 mile (USGS Topographic Map: Lockport Quadrangle, 1980).

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

There are no federally designated critical habitats in New York State (Ozard, 1986).

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

None, the emergency water supply intakes at Summit Street are isolated from overland flow from the Guterl Steel site by berms along the canal edge (Hopkins, 1986 and USGS Topographic Map: Lockport Quadrangle, 1980).

Computation of land area by above-cited intake(s) and conversion to population (1.5 people per acre):

Irrigation water is drawn from the Niagara River (Hopkins, 1986).

Total population served:

None (Hopkins, 1986).

Name/description of nearest of above water bodies:

Not applicable, population not supplied drinking water from surface water sources (Hopkins, 1986).

Distance to above-cited intakes, measured in stream miles:

Not applicable, population not supplied drinking water from surface water sources (Hopkins, 1986).

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

No volatile organics detected in up or downwind locations above background concentrations (ES Phase I Site Visit, 1986).

Date and location of detection of contaminants:

No contaminants detected - 4/23/86 (ES Phase I Site Visit, 1986).

Methods used to detect the contaminants:

Photovac meter survey of site in up and downwind locations (ES Phase I Site Visit, 1986).

Rationale for attributing the contaminants to the site:

Not applicable, no volatile organics detected at site above background levels.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

No reactive compounds are known to exist at the site (Kahn, 1982; NYSDEC, Registry Sheet, 1985).

Most incompatible pair of compounds:

No incompatible compounds are known to exist at the site (Kahn, 1982; NYSDEC, Registry Sheet, 1985).

Toxicity

Most toxic compound:

No toxic chemicals present that could migrate via the air pathway (Kahn, 1982; Snyder, 1981; Buri, 1986).

Hazardous Waste Quantity

Total quantity of hazardous waste:

The hazardous waste quantity score for the air pathway is zero because no chemicals with the potential to impact the air pathway are known to exist on-site (Kahn, 1982; Snyder, 1981; Buri, 1986; NYSDEC, Registry Sheet, 1985).

Basis of estimating and/or computing waste quantity:

Not applicable, see above comment.

* * *

3. TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi (0 to 1 mi) 0 to 1/2 mi 0 to 1/4 mi

1,403 people (1980 Census Tract Data for Niagara County).

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Site is not near a coastal area (USGS Topographic Map: Lockport Quadrangle, 1980).

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

None within 1 mile (USGS Topographic Map: Lockport Quadrangle, 1980).

Distance to critical habitat of an endangered species, if 1 mile or less:

There are no federally designated critical habitats in New York State (Ozard, 1986).

Land Use

Distance to commerical/industrial area, if 1 mile or less:

0.0 miles, site is in an industrial area (ES Phase I Site Visit, 1986).

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

More than 2 miles (USGS Topographic Maps: Lockport and Cambia Quadrangles, 1980).

Distance to residential area, if 2 miles or less:

2,000 feet (USGS Topographic Maps: Lockport and Cambia Quadrangles, 1980).

Distance to agricultural land in production within past 5 years, if 1 mile or less:

More than 1 mile (ES Phase I Site Visit, 1986; USGS Topographic Maps: Lockport and Cambia Quadrangles, 1980).

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

More than 2 miles (ES Phase I Site Visit, 1986; USGS Topographic Maps: Lockport and Cambia Quadrangles, 1980).

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within view of the site?

No (ES Phase I Site Visit, 1986; USDOI, 1983).

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

Note: There are no compounds present at this site which would create a fire or explosion hazard (Snyder, 1981; Kahn, 1982). A state or local fire marshall has not certified that the site presents a fire or explosion threat.

Type of containment, if applicable:

Not applicable.

* * *

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No measurements to determine the fire and explosion potential were taken at the site (ES/D&M Site Visit, 1986).

Ignitability

Compound used:

No ignitable compounds are known to exist on-site (Kahn, 1982; NYSDEC, Registry Sheet, 1985).

Reactivity

Most reactive compound:

No reactive compounds are known to exist on-site (Kahn, 1982; NYSDEC, Registry Sheet, 1985).

Incompatibility

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site (Kahn, 1982; NYSDEC, Registry Sheet, 1985).

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

No hazardous wastes with the potential to create a fire and explosion are known to exist on-site (Kahn, 1982; NYSDEC Registry Sheet, 1985).

Basis of estimating and/or computing waste quantity:

The hazardous waste quantity score is zero since no hazardous wastes with the potential to create a fire/explosion are known to exist on-site (Kahn, 1982; NYSDEC Registry Sheet, 1985).

* * *

3. TARGETS

Distance to Nearest Population

1,000 feet (ES Phase I Site Visit, 1986).

Distance to Nearest Building

200 feet (ES Phase I Site Visit, 1986).

Distance to Sensitive Environment

Distance to wetlands:

None within 1 mile (ES Phase I Site Visit, 1986).

Distance to critical habitat:

There are no federally recognized critical habitats in New York State (Ozard, 1986).

Land Use

Distance to commercial/industrial area, if 1 mile or less:

0.0 miles, site is in an industrial area (ES Phase I Site Visit, 1986).

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

More than 2 miles (USGS Topographic Maps: Lockport and Cambia Quadrangles, 1980).

Distance to residential area, if 2 miles or less:

2,000 feet (USGS Topographic Maps: Lockport and Cambia Quadrangles, 1980).

Distance to agricultural land in production within past 5 years, if 1 mile or less:

More than 1 mile (ES Phase I Site Visit, 1986; USGS Topographic Maps: Lockport and Cambia Quadrangles, 1980).

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

More than 2 miles (ES Phase I Site Visit, 1986; USGS Topographic Maps: Lockport and Cambia Quadrangles, 1980).

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

No (ES Phase I Site Visit, 1986; USDOI, 1983).

Population within 2-Mile Radius

7,828 people (1980 Census Tract Data).

Buildings Within 2-Mile Radius

Estimate 2,060 (1980 Census Tract Data).
7,828 people ÷ 3.8 people per building = 2,060 buildings.

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

Based on information reviewed during the Phase I study, there are no confirmed instances in which contact with hazardous substances at the site has caused injury, illness or death to humans or animals.

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

Site is not completely fenced, but Niagara County landfill forms boundary on unfenced side (ES Phase I Site Visit, 1986).

* * *

3. CONTAINMENT

Type of containment, if applicable:

The landfill is uncovered and industrial wastes (baghouse dust) containing hazardous constituents (metals) are accessible to direct contact (ES Phase I Site Visit, 1986; Abbott, 1983).

* * *

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Baghouse dust containing chromium and nickel (Snyder, 1981).

Compound with highest score:

Baghouse dust containing metals - HRS score = 15.

5. TARGETS

Population within one-mile radius

1,403 people (1980 Census Tract Data).

Distance to critical habitat (of endangered species)

No federally designated critial habitats are located in New York State (Ozard, 1986).

HRS REFERENCES*

1. Abbott, R. (1983), NYSDEC. "Facility Inspection Report". April 15, 1983.

2. Buri, R. (1986), Allegheny Ludlum. Interview for Phase I Investigation. March 31, 1986.

3. Engineering-Science (1986). Phase I Site Inspection Form. April 23, 1986.

4. Hopkins, Michael (1986), NCHD. Telephone Interview for Phase I Investigation. May 5, 1986.

5. Kahn, D. J. (1982), SLC. Letter and Analytical Results sent to R. Buri, Guterl Steel. May 7, 1982.

6. NYSDEC (1983). "Inactive Hazardous Waste Disposal Site Report". November 15, 1983.

7. Ozard, J. W. (1986), NYSDEC. Interview for Phase I Investigation. January 17, 1986.

8. Snyder, R. R. (1981). "Plans and Report for a Solid Waste Management Facility at Guterl Special Steel Corporation".

9. USEPA (1984). "Uncontrolled Hazardous Waste Site Ranking System: A User's Manual".

10. USDOC (1979). "Climatic Atlas of the United States".

11. USDOC (1963). "Rainfall Frequency Atlas of the United States", Technical Paper No. 40.

12. USDOI (1983). "National Register of Historic Places" and "National Register of Natural Landmarks".

13. USGS (1980). Topographic Map: Lockport, NY Quadrangle.

*For general references; see Appendix A.

REGION 9

47-15-1 (8/80)

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID WASTE MANAGEMENT

FACILITY INSPECTION REPORT

FACILITY NAME: GUTERL STEEL

LOCATION: OHIO ST. - LKPT

PERSONS INTERVIEWED & TITLES: REGGIE BURI 433-4411

1 TRANS. TYPE: 1 ☐ Delete 2 ☐ Add
2 FACILITY NO. 7 8
DATE 13 14
TIME 17
INSPECTOR'S NAME 36 37 38
REMARKS 72
20 CARD 21 22
TYPE 1 1
ABBOTT, RICHARD II
01/15/83 1000

20 CARD 21 22
TYPE 1 2

LEACHATE
1. Leachate is entering surface water.
2. Leachate is known to be contravening groundwater standards.
3. Refuse is being placed into water. — 57 X

BURNING
4. Refuse is burning without permit or not under permit conditions.
5. There is evidence of unapproved previous burning. — 55 56

COVER
6. Previous days refuse is not covered. — 54 X
7. Refuse is protruding through daily, intermediate or final cover. — 53 X
8. Intermediate or final cover is not in place or improperly applied. — 52 X

GRADING
9. Depressions, ponding, cracked cover, or slopes steeper than 3 to 1 exist. — 51 X
10. Vegetative cover is missing or inadequate on completed areas. — 50 X
11. Soil erosion or other drainage problems exist. — 49 X

SEPARATION DISTANCES
12. Refuse is closer than 50 feet to site boundaries. — 48
13. Refuse is being placed less than 5 feet above groundwater or bedrock. — 46
14. Refuse is being placed too close to surface water.

NUISANCE CONDITIONS
15. Odors are detectable off site. — 45
16. Blowing dust or dirt is a nuisance.
17. Papers are uncontrolled or are blowing off-site.
18. Methane gas is known to be leaving the site.
19. Noise is a nuisance off-site. — 41

OPERATION CONTROL
20. Operation Permit conditions are being violated. (List violations) — 40
21. Refuse is not sufficiently confined or controlled.
22. Refuse is spread in layers thicker than 2 feet.
23. Refuse is not compacted or compacted insufficiently.
24. The working face height is greater than 10 feet.
25. Equipment on the site is not adequate for proper operation. — 35

SAFETY AND HEALTH
26. Salvaging is uncontrolled or is creating a nuisance. — 34
27. Rodents, insects, birds, or other vectors are not controlled.
28. Unsafe conditions or equipment exist. (List items) — 32

ACCESS CONTROL
29. Access to the site is improper, unsafe, or inadequately controlled. — 31
30. The site is open without an attendant.
31. Information about the site is not posted. (e.g., hours of operation)
32. Access to the operating area is poor or unsafe. — 28

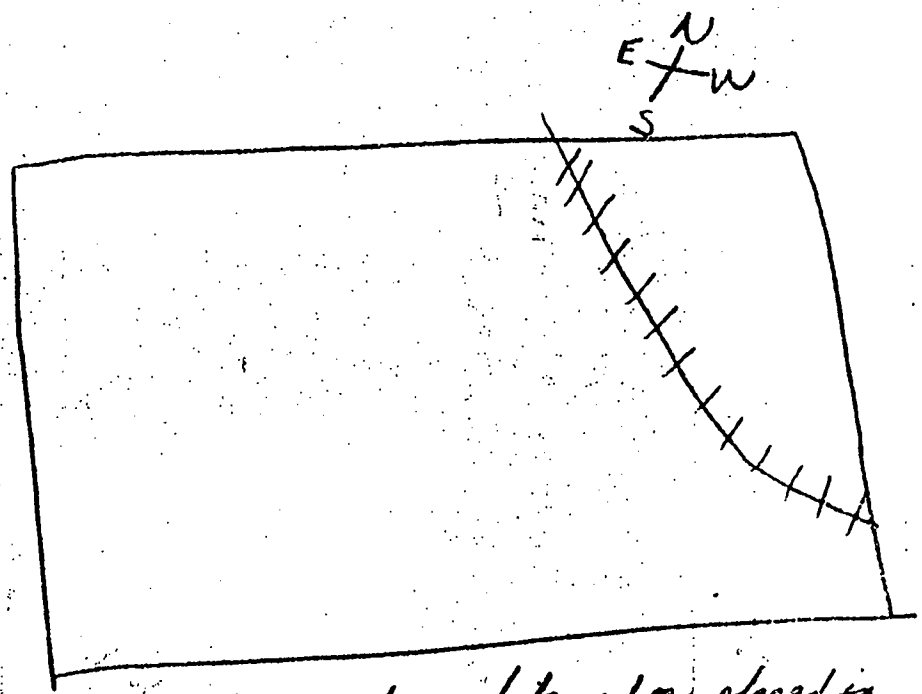
OTHER
33. Uncontrolled leachate is visible on, or near the site. — 27
34. The quality of cover material is inadequate.
35. The working face is steeper than a 3 to 1 slope.
36. Monitoring wells are not operative.
37. Unapproved wastes have been deposited since last inspection.
38. Operator is unfamiliar with site boundaries, operation plan or permit — 22

MARK BOXES WITH "X" ONLY IF ANSWER IS YES

Central Office Copy

FACILITY COPY

SITE SKETCH/COMMENTS (additional sheets attached ☐ YES ☐ NO)



#3 - Wood, slag and sand has been placed in low wetland area

#6/7/8 Disposed material is not properly covered (daily, ~~normal~~ intermediate or final)

#9 - Ponding is evident in low areas that are below grade.

#10 - Lacks vegetative cover

#11 - Improper grade prevents proper runoff.

Richard Abbott
INSPECTOR'S SIGNATURE

1

(2)

INTERVIEW FORM

INTERVIEWEE/CODE Reg Buri /

TITLE - POSITION Allegheny Ludlum Steel

ADDRESS 695 Ohio Street

CITY Lockport STATE NY ZIP 14094

PHONE (716) 433-4411 RESIDENCE PERIOD ____ TO ____

LOCATION Telephone INTERVIEWER S. Powers

DATE/TIME 3/31/86 / 4:15 PM

SUBJECT: Phase I investigation.

REMARKS: Mr. Buri worked for Guteil and now works for Allegheny Ludlum.

The landfill was operated from 1962 until 1978 by Simmonds Saw and Steel, and from 1978 through 1983 by Guteil Specialty steel for the disposal of slag and five dust. Chunks of solid Nickel and Chromium were contained in the slag. The fist sized pieces were hand picked for recycling, smaller pieces are presumably still in the landfill.

In 1980 or 1981, five dust was listed as a hazardous waste and was no longer disposed of in the landfill. At that time SLC (Secure Landfill Contractors) prepared an application for a 30 permit to operate a landfill. This permit included the installation and monitoring of 4 Ground water wells. The site is now inactive.

Since the purchase of the facility by Allegheny, No records exist pertaining to the amount of material that was disposed in the landfill.

I agree with the above interview summary:

Signature/Title: ~~Reginald C. Buri~~, Maintenance Supervisor (as per amendment below)

Comments: see additional sheet attached, "Remarks"

(2)

INTERVIEW FORM

INTERVIEWEE/CODE Reg Buri /

TITLE - POSITION Allegheny Ludlane Steel

ADDRESS 695 Ohio Street

CITY Lockport STATE NY ZIP 14094

PHONE (416) 433-4411 RESIDENCE PERIOD _____ TO _____

LOCATION telephone INTERVIEWER S.Powers

DATE/TIME 3/31/86 / 4:15 PM

SUBJECT: Phase I investigation

REMARKS: Mr. Buri worked for Guterl and now works for Allegheny Ludlam. The landfill was operated from 1962 until 1978 by Simmonds Saw and Steel, and from 1978 through 1983 by Guterl Specialty steel for the disposal of slag and flue dust. Chunks of solid nickel and chromium were contained in the slag. The fist sized pieces were handpicked for recycling. Smaller pieces are presumably still in the landfill.

In 1980 or 1981, flue dust was listed as a hazardous waste and was no longer disposed of in the landfill. At that time SLC (Secure Landfill Contractors) prepared an application for a 360 permit to operate a landfill. THis permit included the installation and monitoring of 4 groundwaterwells. The site is now inactive.

Since the purchase of the facility by Allegheny, no records exist pertaining to the amount of material that was disposed in the landfill.

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

SIGNATURE:

COMMENTS:

(2)

ALLEGHENY LUDLUM STEEL CORPORATION

SUBJECT: Revision to "Remarks" Section of Interview Form Attached to Letter from Susan E. Powers to Reginald C. Buri, dated April 30, 1986.

Remarks: Mr. Buri worked for Guterl and now works for Allegheny Ludlum.

The landfill was operated from 1962 until 1978 by Simmonds Saw and Steel, and from 1978 through 1983 by Guterl Specialty Steel primarily for the disposal of electric furnace slag. It is believed that some flue dust may have been disposed at the site prior to being listed as a hazardous waste. In 1980 or 1981 a "mining" operation was conducted in order to recover material which contained high metallics (i.e.: nickel and chrome). At the same time it is believed that slag was also "mined" from the site. This is substantiated by comparing old photographs of the site to the current topography. It can be seen that the majority of the material which was disposed at the site no longer is present.

In approximately 1980 or 1981 SLC (Secure Landfill Contractors) prepared an application for a permit to operate a landfill. This permit included the installation and monitoring of four groundwater wells. The site is now inactive.

Allegheny Ludlum does not have any records pertaining to the volume of material that was previously disposed in the landfill.

Signature: Reginald C. Buri

Reginald C. Buri
Maintenance Supervisor

(3)

SITE INSPECTION FORM

Site Name Allegany Ludlum - (Guterl Special Steel Corp.

Site ID Number 932032

Site Location (Directions)

Rt. 31 (West Ave) → Richfield St. (kFt)

Date/Time 4/23 / 1500hrs Weather Sunny

Inspection Team L. Cordone

Site Representatives Sil Odasso

Gregg Eq. Eckstein

Other Parties

Site Description

1. Prepare a site location sketch and site map (Figure 1) noting approximate area of site, site boundary, surface water features, streets, north arrow, access roads, containment or storage areas, impoundments, areas of contamination, odor and leachate or seepage areas, vegetative stress areas, monitoring well locations, areas of past waste surface water, sediment or soil sampling. A previous site map can be updated (if applicable).

2. Take 35mm photographs of significant site features. Provide a description and reference for each photo.

a. _____

b. _____

c. _____

d. _____

e. _____

f. _____

g. _____

h. _____

i. _____

j. _____

Observations

Site Status Inactive

Accessibility (Describe potential for direct contact at site, i.e., are there any fences, gates, security guards, natural barriers, etc.)

Gate is located on northern access road (Entrance to Niagara County LandFill. Site is not completely surrounded by a fence.

Waste Types (Describe type, quantity, and physical state of waste present) Slag (unknown quantity)

(3)

Waste Type	Quantity	Time Period Disposed On-site

Storage of Wastes (Record number, condition and location of drums, tanks, surface impoundments, etc.) No drums or any evidence of liquid waste observed.

Waste Type	Quantity	Time Period Disposed On-site

Contamination (Record any visual evidence of contamination)

a. ~~HNU~~ Photovac Meter readings upwind (background) 0.00

Site ~~HNU~~ Photovac readings 0.00

Readings	Location On-site

b. Odor no odor

c. Vegetative stress not observed

d. Drum/Tank leakage not observed. No drums observed

e. Visible leachate, seepage (Describe location on-site) Iron leachate observed in the west/south west corner of site.

f. Surface discoloration (Describe location on-site)

g. Surface water runoff (Describe location on-site) Water runoff is expected to be to the west. Standing water on north end is presently draining to the west.

Comments on special site conditions

Containment (Record presence and characteristic features of natural or manmade containment measures such as dikes, barriers, pits, slurry walls, ets. None.

Present/Proposed Facility Management Practices (Describe based on personnel interviews and site visit) Site was "mined". Approximately 5-10 Ft of the surface Fill was removed to mine "buttons" of stainless steel (containing chrome + nickel). When slag is poured off pure steel a portion of the steel is lost forming a "button". In addition the slag ages to form rocks containing lime. This can be used as Fill.

Remedial Actions (Record status and extend of any remedial activity such as:

a. Liners, dikes, barrier walls
None observed.

b. Monitoring well installation

Number	Location On-site
01	Southern boundary
02	Northern boundary
03	Western boundary (destroyed)
04	eastern boundary

c. Describe access restrictions Access to the plant is restricted by a gate with guard house. fence does not completely surround landfill.

d. Leachate/waste treatment No

e. Describe drum/soil/waste removal 5-10' of soil was "mined" from the surface

f. Covers, surface water diversions No.

Area Land Use (Note proximity of residential areas, industrial commercial entities and any environmentally sensitive areas)

Name of business/resident	Address	No. of People	Direction from Site
Frontier Stone Company			South (1 mile)
Niagara County Landfill			West (0.5-1 mile)
Harvey Pfenning Redimix (concrete)			North (adjacent)

Water Supply Wells (Describe residences/businesses which have water supply wells in vicinity of site)

Unknown. Nearest residential area is thought to be 2 or 3 miles west of site.

Site Geology Information

Climate Physiography - Regional Reference _____

Geology - Regional Reference _____

Surface Water - Regional Reference _____

Groundwater - Regional Reference _____

Access:

Condition of access roads _____

Adjacent Property Owners (Permission Required) _____

Accessibility to Proposed Well/Sampling Locations _____

Topography/Relief - Site Visit

Site is well graded and slopes gently to the west (2-4 %)
There is a mound on the northend of the site. The mound is approx. 5-10' higher than the surrounding area and is the approx. height of the former landfill.

Geology - Site Visit (i.e., bedrock outcrops, surface soil description, site specific information gained from DEC personnel or others).

Site appears to be located in a wetland area. The areas to the west and south of the site are low-lying and contain surface water. Groundwater is expected at 3-4'.

(4)

INTERVIEW FORM

INTERVIEWEE/CODE Mike Hopkins /

TITLE - POSITION Niagara COunty Health Department

ADDRESS 10th Street and East Falls

CITY Niagara Falls STATE N.Y. ZIP 14301

PHONE (716) 284-3124 RESIDENCE PERIOD _____ TO _____

LOCATION phone conversation INTERVIEWER Lisa A. Ryan

DATE/TIME May 5, 1986 / 3:00 pm

SUBJECT: water supply in Lockport Area (Guterl Steel Site)

REMARKS: The city of Lockport is supplied with municipal water form the Niagara River, The areas surrounding the city are also supplied with municipal water through the Niagara County Water District. There are three homes on Jackson Street (Town of Niagara) that draw their water from shallow groundwater wells. These houses are located nqth of the Niagara Escarpment and tap an aquifer entirely unrelated to the site.

Area streams and the Erie Canal are used for recreational purposes. The canal is also available to provide an emergency water supply to the City of Lockport. Emergency intakes are located at Summit Street. The canal is dry along certain sections during the winter.

Irrigation water is drawn from the municipal water system.

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

SIGNATURE:

COMMENTS:

INTERVIEW FORM

INTERVIEWEE/CODE Mike Hopkins /

TITLE - POSITION Niagara County Health Department

ADDRESS 10th Street and East Falls

CITY Niagara Falls STATE N.Y ZIP 14301

PHONE (716) 284-3124 RESIDENCE PERIOD _____ TO _____

LOCATION phone conversation INTERVIEWER Lisa A. Ryan

DATE/TIME May 5, 1986 / @3:00 PM

SUBJECT: Water Supply in Lockport Area (Mutual Steel Site).

REMARKS: The City of Lockport is supplied with municipal water from the Niagara River. The areas surrounding the city are also supplied with municipal water through the Niagara County Water District. There are three homes on Jackson Street (Town of Niagara) which draw their water from shallow groundwater wells. These houses are located North of the Niagara Escarpment and tap an aquifer entirely unrelated to the site.

Area streams and the Erie Canal are used for recreational purposes. The canal is also available to provide an emergency water supply to the City of Lockport. Emergency intakes are located at Summit Street. The canal is dry along certain sections during the winter.

Irrigation water is drawn from the municipal water system.

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

SIGNATURE:

COMMENTS:

SLC CONSULTANTS/CONSTRUCTORS, INC.
Box 142
North Tonawanda,
New York 14120-0142
(716) 695-1491

(5)

May 7, 1982

Guterl Special Steel Corp.
695 Ohio Street
P.O. Box 509
Lockport, NY 14094

ATTENTION: R. Buri
Project Engineer

Dear Mr. Buri:

Enclosed are the sample chemical analysis from April, 1982.

After you have reviewed the analysis, I will come out and we can review them and discuss the other project.

Please note Well 81-03 has been broken by someone.

Thank you.

Sincerely,

Donald J. Kuhn
President
SLC CONSULTANTS/CONSTRUCTORS, INC.

DJK/rs
Enc.: chemical analysis

SAMPLE LOCATION 81-01

Sample Date	pH Units	Oil & Grease mg/l	Cond. µ/cm	Total Organic Carbon mg/l	Phenol mg/l	Total Halogenated Organics As Lindane mg/l	Aluminum mg/l	Chromium Total mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Nicke mg/l
12/11 & 12/12/80	9.2	37.8	2450	110	0.092	0.0057	0.76	0.0180	0.460	0.15	0.017	0.09	0.131
3/10, 11, 12,13 & 16/81	7.8	5.4	2800	160	0.250	0.0001	1.0	0.021	0.095	1.10	0.008	0.55	0.106
6/22/81	7.8	< 1.0	3000	117	0.012	< 0.0001	19.1	0.074	0.162	27.60	0.050	4.40	0.300
9/28/81	7.4	2.0	3150	280	0.120	<0.0001	<0.30	0.010	<0.025	<0.06	0.016	0.427	0.706
4/14/82	7.7	98.0*	1800	110	0.058	0.0032	<0.300	<0.010	0.034	<0.050	<0.010	0.318	0.095

*Insufficient sample collected in glass. 100 mL taken from plastic container.

(5)

SAMPLE LOCATION 81-02

Sample Date	pH Units	Oil & Grease mg/l	Cond. µ/cm	Total Organic Carbon mg/l	Phenol mg/l	Total Halogenated Organics As Lindane mg/l	Aluminum mg/l	Chromium Total mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Nic mg
12/11 & 12/12/80	7.9	25.8	3400	80	0.002	0.0006	5.72	0.0120	0.160	2.82	0.021	2.77	0.1
3/10, 12, 13&16/81	7.9	5.1	3000	18.5	<0.001	0.0001	1.5	0.019	0.083	2.10	0.014	4.90	0.0
6/22/81	8.0	<1.0	3700	9.0	0.468	<0.0001	131.0	0.223	0.146	28.8	0.036	1.30	0.1
9/28/81	7.3	<1.0	3700	200	0.005	<0.0001	<0.30	<0.010	<0.025	<0.06	0.013	3.74	0.6
4/14/82	7.3	11.0	2280	120	<0.001	0.0004	<0.300	0.012	0.047	<0.050	<0.010	0.720	0.0

SAMPLE LOCATION 81-03

Sample Date	pH Units	Oil & Grease mg/l	Cond. µ/cm	Total Organic Carbon mg/l	Phenol mg/l	Total Halogenated Organics As Lindane mg/l	Aluminum mg/l	Chromium Total mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Nicke mg/l
12/11 & 12/12/80		NO SAMPLE			0.039	No Sample	158	0.0100	0.250	0.10	0.074	0.08	0.02
3/10, 12, 13&16/81	10.8	4.4	3400	132.5	0.180	<0.0001	180	0.013	0.076	0.30	0.001	0.04	0.06
6/22/81	11.3	1.0	3850	106.0	0.122	< 0.0001	< 1.0	0.109	0.039	0.06	< 0.010	0.27	0.16
9/28/81	10.7	1.0	2900	118	1.25	<0.0001	63.4	<0.010	0.139	<0.06	0.015	<0.02	0.85
4/14/82		NO SAMPLE TAKEN - WELL DAMAGED BY OUTSIDE SOURCES											

SAMPLE LOCATION 81-04

Sample Date	pH Units	Oil & Grease mg/l	Cond. µ/cm	Total Organic Carbon mg/l	Phenol mg/l	Total Halogenated Organics As Lindane mg/l	Aluminum mg/l	Chromium Total mg/l	Copper mg/l	Iron mg/l	Lead mg/l	Manganese mg/l	Nickel mg/l
3/13/81			NO SAMPLE				2.4	0.100	0.057	<0.05	0.003	<0.01	0.021
6/22/81			NO SAMPLE				58.3	0.450	2.100	27.0	0.590	21.00	3.50
9/28/81	11.1	—	1300	63	0.006	—	0.59	0.348	0.052	<0.06	0.018	<0.02	0.281
4/14/82	7.5	15.2	1310	175	0.027	0.0013	<0.300	0.201	0.042	<0.050	<0.010	<0.020	0.074

NOTE: No Sample was obtained at this location in December, 1980

(47-15-11 (10/83)

(6)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF SOLID AND HAZARDOUS WASTE

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: 2a SITE CODE: 932032

NAME OF SITE: Guterl Specialty Steel Corporation REGION: 9

STREET ADDRESS: 695 Ohio Street

TOWN/CITY: Lockport COUNTY: Niagara

NAME OF CURRENT OWNER OF SITE: Guterl Specialty Steel Corporation

ADDRESS OF CURRENT OWNER OF SITE: 695 Ohio Street, Lockport, NY 14094

TYPE OF SITE: OPEN DUMP ☐ STRUCTURE ☐ LAGOON ☐

LANDFILL ☐ TREATMENT POND ☐

ESTIMATED SIZE: 8.6+ ACRES

SITE DESCRIPTION:

Site is located adjacent to Erie Barge Canal in industrially zoned area. Slag, scrap wood, some packaging materials were deposited on site. Area is generally flat with less than 10' of elevation change. Firm currently in bankruptcy proceedings and site is inactive

HAZARDOUS WASTE DISPOSED:

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE	QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
Slag	3000 Tons/year
Baghouse Dust	
Casting Sand	
Grinding Dust	
Waste oil & grease	

(6)

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

_____, 19____ TO _____, 19____

OWNER(S) DURING PERIOD OF USE: Simunds Saw & Steel - Guterl Spec. Stl. Corporation

SITE OPERATOR DURING PERIOD OF USE: Simonds, Guterl

ADDRESS OF SITE OPERATOR: 695 Ohio Street, Lockport, NY 14094

ANALYTICAL DATA AVAILABLE: AIR [ ] SURFACE WATER [X] GROUNDWATER [X]
SOIL [ ] SEDIMENT [ ] NONE [ ]

CONTRAVENTION OF STANDARDS: GROUNDWATER [X] DRINKING WATER [ ]
SURFACE WATER [ ] AIR [ ]

SOIL TYPE: Fill over clay & silt to gravel & occasional cobbles

DEPTH TO GROUNDWATER TABLE: 1-5'

LEGAL ACTION: TYPE: _____ STATE [ ] FEDERAL [ ]
STATUS: IN PROGRESS [ ] COMPLETED [ ]

REMEDIAL ACTION: PROPOSED [ ] UNDER DESIGN [X]
IN PROGRESS [ ] COMPLETED [ ]

NATURE OF ACTION: Removal of saleable or reuseable ores, sale of slag then cover & grade apply vegetative cover

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

No significant environmental problems are noted at the site

ASSESSMENT OF HEALTH PROBLEMS:

INSUFFICIENT INFORMATION

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION		NEW YORK STATE DEPARTMENT OF HEALTH	
NAME	(518) 457-0315	NAME	
TITLE	John S. Tygert, P.E.	TITLE	R. Tramontano
NAME	Sr. Sanitary Engr.	NAME	Bur. Tox. Subst. Assess.
TITLE	Robert A. Olazagasti	TITLE	
DATE:	Solid Waste Management Spec.	DATE:	
	November 15, 1983		12/83

(1)

INTERVIEW FORM

INTERVIEWEE/CODE John Ozard /

TITLE - POSITION Senior Wildlife Biologist, Significant Habitat Unit

ADDRESS NYSDEC Wildlife Resources Center, Building 8

CITY Delmar STATE NY ZIP 12054

PHONE (518) 439-7486 RESIDENCE PERIOD ____ TO ____

LOCATION phone conversation INTERVIEWER Lisa A. Ryan

DATE/TIME Jan. 17, 1986 / 3:00 p.m.

SUBJECT: Sensitive environments in NY

REMARKS: There are no federally designated critical habitats of endangered species located within New York State.

There are 16 map sets (1:250000) which show icologically significant areas within the state and copies will be sent to us for future use.

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

SIGNATURE: /s/ John W. Ozard

COMMENTS: The 1:250000 scale maps show state potent. significant wildlife habitats.

(7)

FEB 6 1986

INTERVIEW FORM

INTERVIEWEE/CODE John Ozard /
TITLE - POSITION Senior Wildlife Biologist, Significant Habitat Unit
ADDRESS NYSDEC Wildlife Resources Center, Building 8
CITY Delmar STATE N.Y. ZIP 12054
PHONE (518) 439-7486 RESIDENCE PERIOD ____ TO ____
LOCATION phone conversation INTERVIEWER Lisa A. Ryan
DATE/TIME Jan 17, 1986 1@3:00
SUBJECT: Sensitive Environments in N.Y.

REMARKS:

- There are no federally designated critical habitats of endangered species located within New York State.

- There are 16 map sets (1:250000) which show ecologically significant areas within the state and copies will be sent to us for future use.

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

SIGNATURE: John (W.) Ozard

COMMENTS: The 1:250,000 scale maps show State listed significant wildlife habitats.

(8)

PLANS AND REPORT FOR A SOLID WASTE MANAGEMENT FACILITY AT GUTERL SPECIAL STEEL CORPORATION 695 OHIO STREET LOCKPORT, NEW YORK 14094

This report has been prepared under the guidance and direction of Richard R. Snyder, P.E. State of New York Licensed Professional Engineer No. 54616

Richard R. Snyder

Richard R. Snyder, P.E.

Alteration of this report by any person not acting under the direction of a Professional Engineer Licensed to practice in New York State is a violation of the law.

EXECUTIVE SUMMARY

This report addresses the reclamation and disposal of alloys and slags, respectively, at Guterl Special Steel Corporation's existing Solid Waste Management Facility (landfill). The site is located on Guterl Special Steel Corporation's property in the City of Lockport, Niagara County, New York.

The disposal of wastes began at the site in 1962. During the summer of 1980, a pilot recovery project was undertaken to determine the technical and economic feasibility for the reclamation of metal alloys from the existing disposal site. The site is approximately 8.6 acres in area. Based upon the results of this study, it was determined that approximately 2,000,000 pounds of metal alloys are available for recovery and recycle.

This report will address the reclamation of the metal alloy for a period of approximately one year. This initial recovery will bring the site to a "current" status. After becoming current, the metal alloy will be reclaimed once per year.

Concurrent with the reclamation project, monitoring data will be collected to determine the affect of the existing waste deposited at the site on the ground-water underlying the site.

The entire site to be utilized for reclamation of metals utilized in the production of alloy steels and as a solid waste management facility consists of approximately 8.6 acres. After reclamation of metals from wastes presently deposited on the site, it will be utilized to provide an environmentally acceptable depository for solid wastes (as described in Section 3 of this Report) generated by the Guterl Special Steel Corporation's Lockport production facilities. This site is bounded as follows: West-New York State Electric and Gas Corporation; North-New York State Electric and Gas Corporation; East-Conrail and Ohio Street; and South-City of Lockport Water Line Easement.

A deed map and frontage survey prepared by McIntosh and McIntosh and an aerial survey by Lockwood Mapping Co. were utilized by Ivan R. Klettke, L.S. to prepare a topographic survey of the Guterl Special Steel Corporation Property (refer to Survey prepared by Ivan. R. Klettke, Dwg. D05201). Included as a part of this survey are base line location and monitoring well coordinates and elevations, and boring elevations and coordinates.

1.3 Local Regulations

The City of Lockport zoning classification which pertains to the Ohio Street Site is heavy industry. This represents no conflict with past or proposed future utilization of this site as a solid waste mangement facility in conformance with Part 360 of the

original topography. Since Guterl has been in control of disposal at this site, the majority of the waste deposits have been made in the site's northwest portion (note increased elevations over surrounding areas). This waste consisted primarily of slag, pelletized baghouse dust, foundry sand, wood and miscellaneous plant rubbish (bricks, old equipment, pallets, etc.).

A monitoring program (utilizing recently installed monitoring wells) has been initiated to monitor for any environmental effects from past disposal of waste materials. However, to date only one set of samples has been taken and analyzed (refer to Section 4 of this Report). Continuation of this sampling program will not only help define any adverse effects from past practices but also lend valuable insights into how various site characteristics (geology, hydrogeology, etc.) should be incorporated into the required methodology for future waste disposal.

1.6 Site Topography and Slopes

An aerial survey and site property survey were utilized to prepare a topographic map (D05201). This provides a clear picture of the site's present physical condition. The site is relatively flat except for irregularities in the northeast sector where small areas are approximately ten feet higher than the overall site's elevation.

1. Field investigation of soils and depths to refusal (bedrock) conducted by Mr. Donald Owens of Earth Dimensions, Inc.
2. Study of available information pertaining to the locality of the Guterl site.
3. Monitoring well data to evaluate the site's groundwater regime including type, piezometric surface for use in determination of flow direction, and high water data (Note: Only two sets of measurements have been taken to date. A minimum one year data base must be obtained before a sound understanding of the site's hydrology can be achieved).
4. Laboratory testing by Calspan Corporation to determine properties of the site's soils.

2.2 Geology and Pedology

2.2.1 Bedrock

The bedrock underlying the site is Lockport Dolomite, (Ca, Mg $(CO_3)_2$) with minor amounts of sulfate (gypsum) and sulfide (pyrite, galena, sphalerite) minerals. In general, this dolomite lies nearly flat, but does exhibit a regional dip of approximately one half degree to the south or locally approximately 30 to 40 feet per mile. Variations in the erosional surface result in local differences in the dip of the bedding and contour of the bedrock surface.

Interpretation of data obtained from six soil borings (locations noted on Dwg. D05201) made to refusal indicates that the bedrock on this site does follow the regional pattern and dip gently to the south. This is based on the fact that the most likely reason for refusal is bedrock, although in some cases a boulder can be the cause for refusal. In general, the bedrock underlying this site is located fairly close to the surface.

2.2.2 Unconsolidated Sediments and Fill

The predominant unconsolidated sediment overlying the site's bedrock is loamy glacial till. This material presents an extreme range in texture, from clay and silt to gravel and occasional cobbles. Since the site's original soil profile is relatively thin, this glacial till has developed a blocky soil structure through the normal soil forming process rather than a massive soil structure which is normally associated with glacial till sediment at depth. Based upon available data, this layer's thickness varies from 0.0 ft. to 3.5 ft. across the site (refer to Appendix B).

Four of the borings indicated the presence of fill-type material (thickness varying from 2.0 ft. to 5.5 ft.). The composition of this fill material

TABLE 2-1

THICKNESS OF VARIOUS UNCONSOLIDATED SEDIMENT AND TILL LAYERS

Boring Number	Fill Thickness (ft.)	Glacial Thickness (ft.)	Depth to Refusal (ft.)
81-01	4.0	1.5	5.5
81-02	0.0	3.4	3.4
81-03	3.7	0.0	3.7
81-04	5.5	0.0	5.5
81-05	2.0	2.9	4.9
81-06	0.0	3.5	3.5

Data Source: Earth Dimensions, Inc. Soil Logs

varied considerably from boring to boring. However, it consists predominantly of slag, cloth, metal, and wood fragments in varying amounts.

A summary of the soil boring logs obtained during the soil investigation and installation of the monitoring wells is presented by Table 2-1.

2.3 Hydrology

In order to determine the occurrences, direction of movement, and quality of the site's groundwater a total of four monitoring wells have been installed on the site (refer to Dwg. D05201 for locations). Since their installation in December, 1980, a program has been initiated to measure water levels at regular intervals (data will be collected for a one year period) to attain knowledge of the site's piezometric surface. Data collected to date is presented by Table 2-2. This data to date indicates that ground water flow is from north east to south west across the site. However, more data will be required for verfication of the site's groundwater flow patterns.

Variations in this groundwater flow system are the result of time dependent changes in the inflows and outflows at the ground surface. Since the

than the large but isolated cavities resulting from solution of gypsum.

The character and interrelationships of the three types of water-bearing openings result in two distinct sets of ground-water conditions in the dolomite: (1) a moderately permeable zone at the top of the rock, generally 10 to 15 feet thick, characterized by both vertical and bedding joints that have been widened by solution and by gypsum cavities, and (2) remainder of formation consists of bedding joints surrounded by essentially impermeable rock.

2.3.2 Unconsolidated Natural Sediments

The site's unconsolidated natural sediments consist primarily of glacial till with a blocky type structure. Such material can exhibit permeabilities in the range of 10^{-6} to 10^{-7} cm/sec under most circumstances.

Recompacted permeability testing of a bulk soil sample resulted in a coefficient of permeability of 3.6×10^{-7} cm/sec (refer to Appendix C).

Little soil mottling was noted during the soils investigation portion of the site characterization effort. This is indicative of a well drained soil and suggests that the underlying bedrock is well jointed. It is also expected that ground water travels laterally in these unconsolidated sediments.

EARTH DIMENSIONS, INC.

(8)

Test Borings and Logs
797 Center Street • East Aurora, New York 14052 • (716) 655-1717

HOLE NO. 8101 SURF. ELEV. _____

PROJECT Landfill soil investigation
Guterl Special Steel, Lockport, N.Y. LOCATION See survey

CLIENT Secured Landfill Contractors, Inc. DATE STARTED 12/3/80 COMPLETED 12/3/80

DEPTH (feet)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
	1	5	9	45	100	/2"	Moist mixed gray and black assorted fill consisting of slag, cloth, metal and wood fragments, loose when disturbed	2" PVC well pipe; Bentonite seal	Assorted fill to 2.0 feet over assorted fill mixed with the original topsoil to 4.0 feet over dense loamy glacial till to refusal.
	1								
	1								
	1								
	2	1	3	5	10	8	----clear transition to ---- 2.0		
	2						Wet black mixed coarse silt loam (SANDY-SILT) and assorted fill 4.0		3.5
	2								
	2								
	3	18	39	100	100	/0"	Moist reddish brown gravelly loam (SANDY-SILT) with 15 to 25% mostly dolomitic gravel, very firm, blocky soil structure 5.5	(2)	4.5
5	3							(1)	5.5
	3								
							Refusal at 5.5 feet		(1) PVC slotted well screen
									(2) Number 2 size sand
10									Refusal likely bedrock but may be due to a boulder.
									Water table at 3.5 feet below surface at completion.

N = NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb. WT. FALLING 30 " PER BLOW.

bh LOGGED BY Donald W. Owens/Soil Scientist SHEET 1 OF 1

(8)

EARTH DIMENSIONS, INC.

Test Borings and Logs
797 Center Street • East Aurora, New York 14052 • (716) 655-1717

HOLE NO. 8102 SURF. ELEV. _____

PROJECT Landfill soil investigation
Guterl Special Steel, Lockport, N. Y. LOCATION See survey

CLIENT Secured Landfill Contractors, Inc. DATE STARTED 12/3/80 COMPLETED 12/3/80

DEPTH (feet)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
	1	4	15	22	42	37	Moist black silt loam (SANDY-SILT) topsoil with 2-5% gravel, friable 1.0	(3)	Dense loamy glacial till to refusal.
	1							(1) 1.4	
	1								
	1								
	2	10	15	100/5"			Moist becoming wet at 3.0 feet reddish brown gravelly loam (SANDY-SILT) with 20 to 30% mostly dolomitic gravel and occasional cobble, very firm 3.4	(4) 2.4
	2							(2) 3.4	
	2								
							Refusal at 3.4 feet		

(1) 2" PVC well pipe

(2) PVC slotted well screen

(3) Bentonite seal

(4) Number 2 size sand

Refusal likely bedrock but may be due to a boulder.

Water table at 2.5 feet below surface at completion.

N = NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb. WT. FALLING 30 " PER BLOW.

bh LOGGED BY Donald W. Owens/Soil Scientist SHEET 1 OF 1

EARTH DIMENSIONS, INC.

(8)

Test Borings and Logs
797 Center Street • East Aurora, New York 14052 • (716) 655-1717

HOLE NO. 8103 SURF. ELEV. _____

PROJECT Landfill soil investigation
Guterl Special Steel, Lockport, N.Y. LOCATION See survey

CLIENT Secured Landfill Contractors, Inc. DATE STARTED 12/3/80 COMPLETED 12/3/80

DEPTH (ft.)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
	1	50	48	45	63	93	Moist mixed brown loam (SANDY-SILT) fill and gray slag, loose when disturbed	(1) (3)	Mixed fill to refusal.
	1						------ grades downward to -- 2.5	1.7	
	1						Wet dark gray silt loam (SANDY-SILT) fill with 5-10% gravel, soft, non-plastic	(4)	2.7
							3.7	(2)	3.7
	2	100/2"					Refusal at 3.7 feet		

(1) 2" PVC well pipe

(2) PVC slotted well screen

(3) Bentonite seal

(4) Number 2 size sand

Water table at 2.5 feet below surface at completion.

Refusal likely bedrock but may be due to a boulder.

N = NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb. WT. FALLING 30 " PER BLOW.

LOGGED BY Donald W. Owens/Soil Scientist SHEET 1 OF 1

EARTH DIMENSIONS, INC.

Test Borings and Logs
797 Center Street • East Aurora, New York 14052 • (716) 655-1717

(8)

HOLE NO. 8104 SURF. ELEV. _____

PROJECT Landfill soil investigation
Guterl Special Steel, Lockport, N.Y. LOCATION See survey

CLIENT Secured Landfill Contractors, Inc. DATE STARTED 12/3/80 COMPLETED 12/3/80

SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
1	10	50	100/3"			Moist mixed black and white slag, loose when disturbed		Mixed fill to refusal.
						- - - -grades downward to - - - 4.5		
						Wet black slaggy silt loam (SANDY-SILT) fill, soft, nonplastic	2" PVC well pipe / Bentonite seal	3.5
							(2)	4.5
2	100/5"						(1)	5.5
						Refusal at 5.5 feet		

(1) PVC slotted well screen

(2) Number 2 size sand

Refusal likely bedrock but may be due to a boulder.

Water table at 4.5 feet below surface at completion.

N = NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb. WT. FALLING 30 " PER BLOW.

LOGGED BY Donald W. Owens/Soil Scientist SHEET 1 OF 1

EARTH DIMENSIONS, INC.
Test Borings and Logs
797 Center Street • East Aurora, New York 14052 • (716) 655-1717

(8)

HOLE NO. 8105 SURF. ELEV. _____

LL80

PROJECT Landfill soil investigation
Guterl Special Steel, Lockport, N.Y. LOCATION _____

CLIENT Secured Landfill Contractors, Inc. DATE STARTED 12/17/80 COMPLETED 12/17/80

DEPTH (feet)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
	1	93	36	100/5"			Moist black cindery slag with wood fragments, loose when disturbed	Fill to 2.0 feet over dense loamy glacial till to refusal.
							----grades downward to ------	2.0
							Wet grayish brown gravelly clay loam (SAND-SILT-CLAY) with 15-25% mostly dolomitic gravel, very firm, blocky soil structure	
5	2	36	100/5.5"					4.9
							Refusal at 4.9 feet	
10								Refusal likely bedrock but may be due to a boulder.
15								Water table at 2.2 feet below surface at completion

N = NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb. WT. FALLING 30 " PER BLOW.

LOGGED BY Donald W. Owens/Soil Scientist SHEET 1 OF 1

EARTH DIMENSIONS, INC.

(8)

Test Borings and Logs
797 Center Street • East Aurora, New York 14052 • (716) 655-1717

HOLE NO. 8106 SURF. ELEV. _____

PROJECT Landfill soil investigation
Guterl Special Steel, Lockport, N.Y. LOCATION _____

CLIENT Secured Landfill Contractors, Inc. DATE STARTED 12/17/80 COMPLETED 12/17/80

DEPTH (feet)	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS
0	1	2	8	15	20	23	Moist dark brown silt loam (SANDY-SILT) topsoil with 5-10% gravel, friable	Disturbed soil material (glacial till) to refusal.
							1.3	
							Wet grayish brown gravelly loam (SANDY-SILT) with 15-25% gravel, massive soil structure	
	2	100/5"					3.5	
5							Refusal at 3.5 feet	
10								Refusal likely bedrock but may be due to a boulder.
								Water table at 1.5 feet below surface at completion.

N = NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb. WT. FALLING 30 " PER BLOW.

bh LOGGED BY Donald W. Owens/Soil Scientist SHEET 1 OF 1

(8)

New York State Department of Environmental Conservation
Division of Regulatory Affairs
600 Delaware Avenue
Buffalo, New York 14202

Robert F. Flacke
Commissioner

December 29, 1980

Donald J. Kuhn, President
Secured Landfill Contractors, Inc.
P.O. Box 142
4441 Tonawanda Creek Road North
North Tonawanda, New York 14120

Re: DEC File #932-02-0097
Freshwater Wetlands-Guterl Special
City of Lockport-Niagara County

Dear Mr. Kuhn:

In response to your December 22, 1980 letter, please be advised that per a review of aerial photography, no "regulated" wetlands were identified at the site indicated on the enclosed map. Consequently, a Freshwater Wetlands-Interim Permit will not be required from this department pursuant to Article 24 (Freshwater Wetlands) of the Environmental Conservation Law.

If you require further assistance, please do not hesitate to contact Mr. Jeffrey Dietz or me at the above number.

Respectfully,

Steven J. Doleski

Steven J. Doleski
Regional Permit Administrator
Division of Regulatory Affairs

SJD:ib
cc: Y. Erk

G.C.
(9)

Uncontrolled Hazardous Waste Site Ranking System

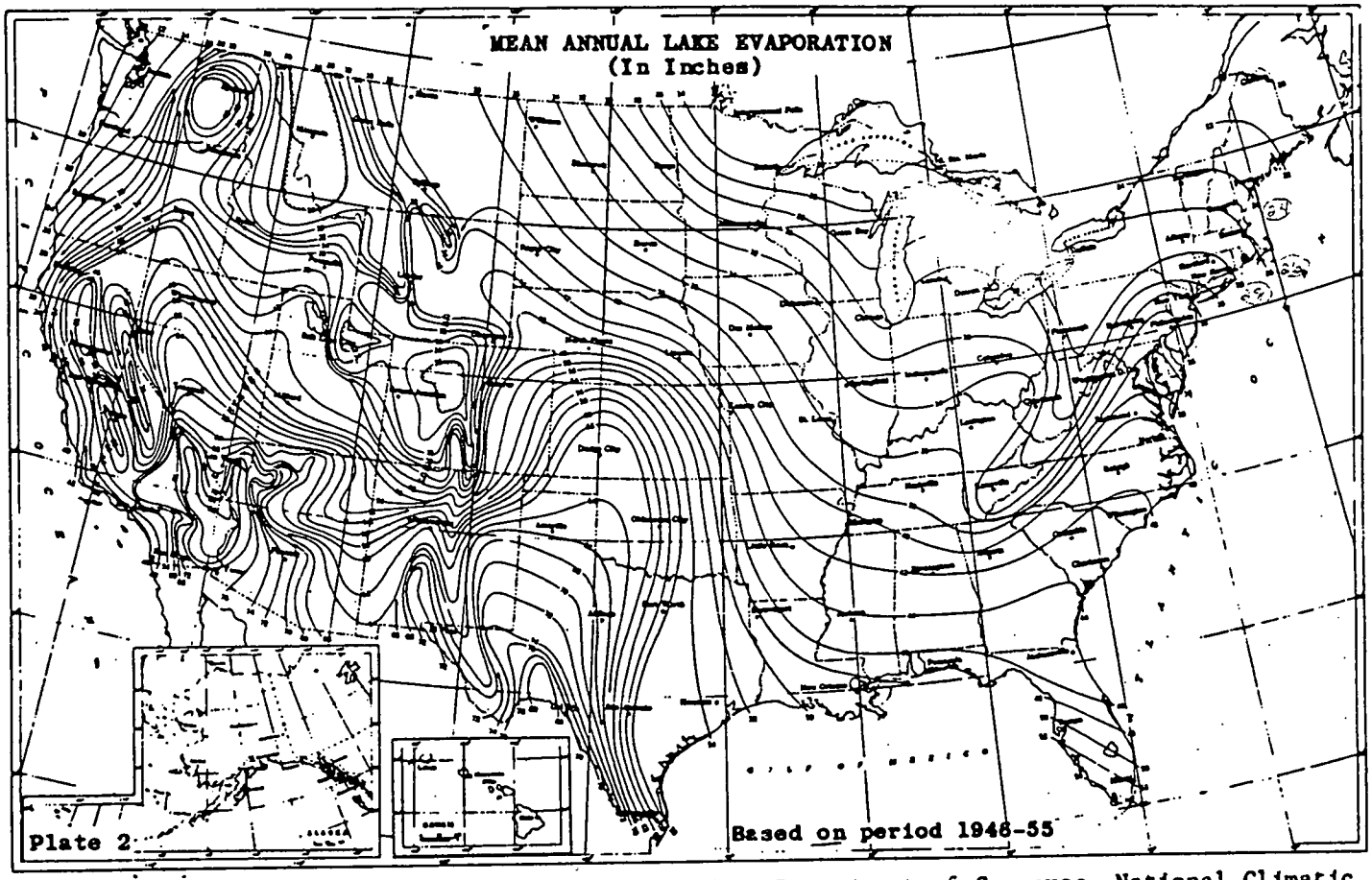
A Users Manual
(HW-10)

Originally Published in
the July 16, 1982, *Federal Register*

Tim Sloss

United States
Environmental Protection
Agency

1984

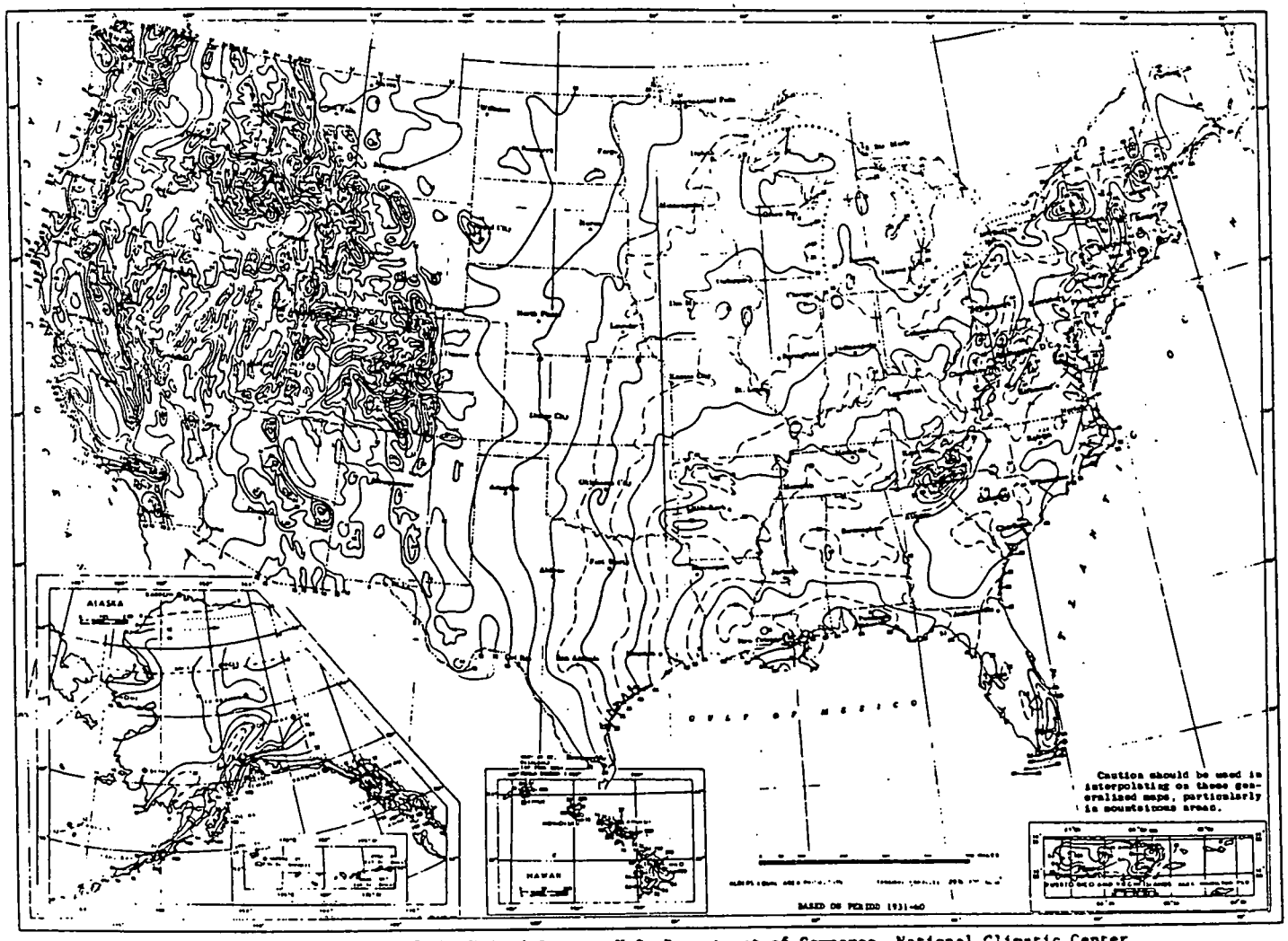


Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Ashville, N.C., 1979.

FIGURE 4
MEAN ANNUAL LAKE EVAPORATION
(IN INCHES)

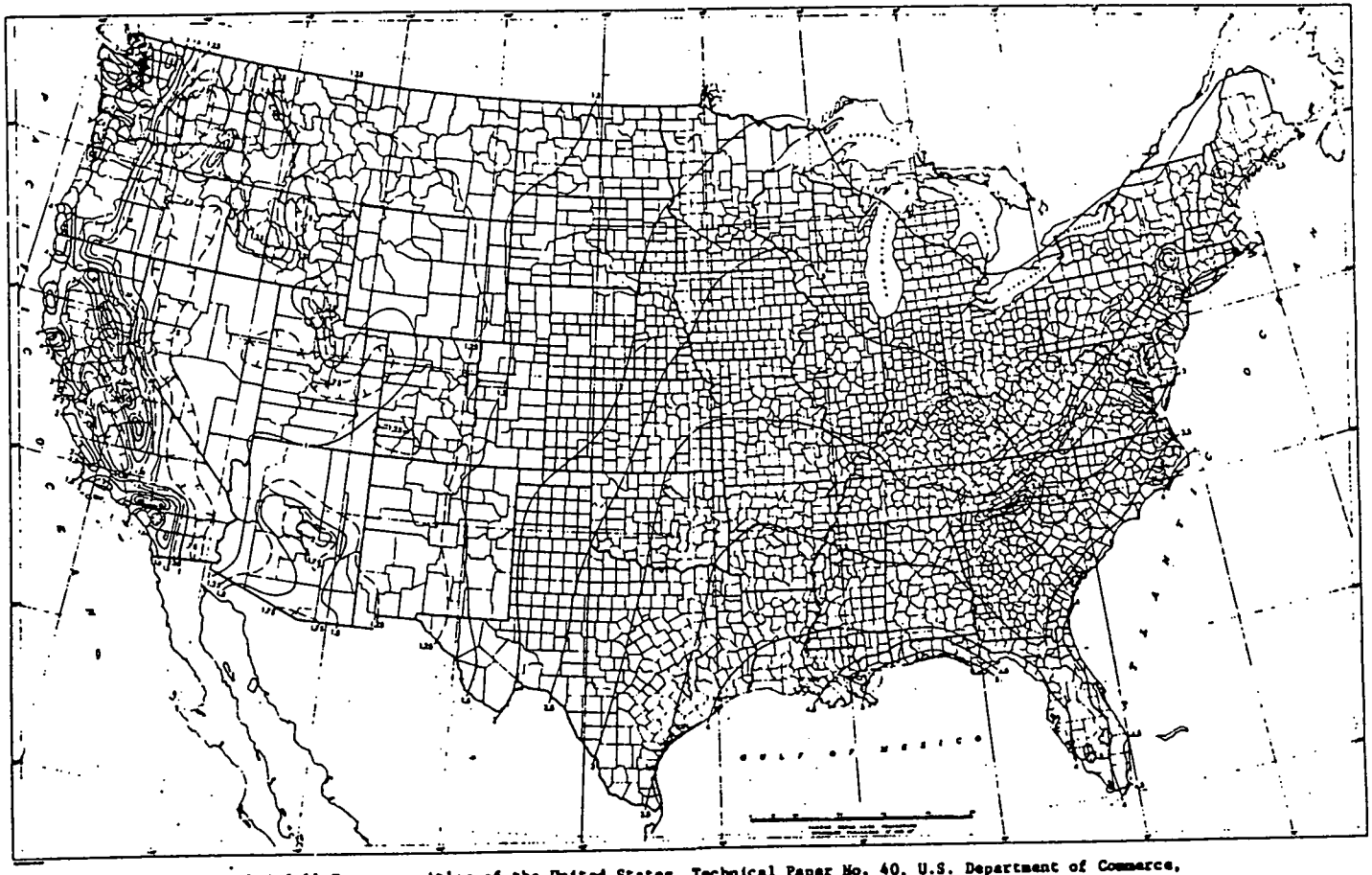
Regional office may have a copy.

(12)



Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Ashville, N.C., 1979.

FIGURE 5
NORMAL ANNUAL TOTAL PRECIPITATION (INCHES)



Source: Rainfall Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963.

FIGURE 8
1-YEAR 24-HOUR RAINFALL
(INCHES)

(12)

NATIONAL REGISTER OF HISTORIC PLACES

ANNUAL LISTING OF PROPERTIES

JANUARY 1979 THROUGH DECEMBER 1982

U.S. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

JULY 1983

(12)

federal

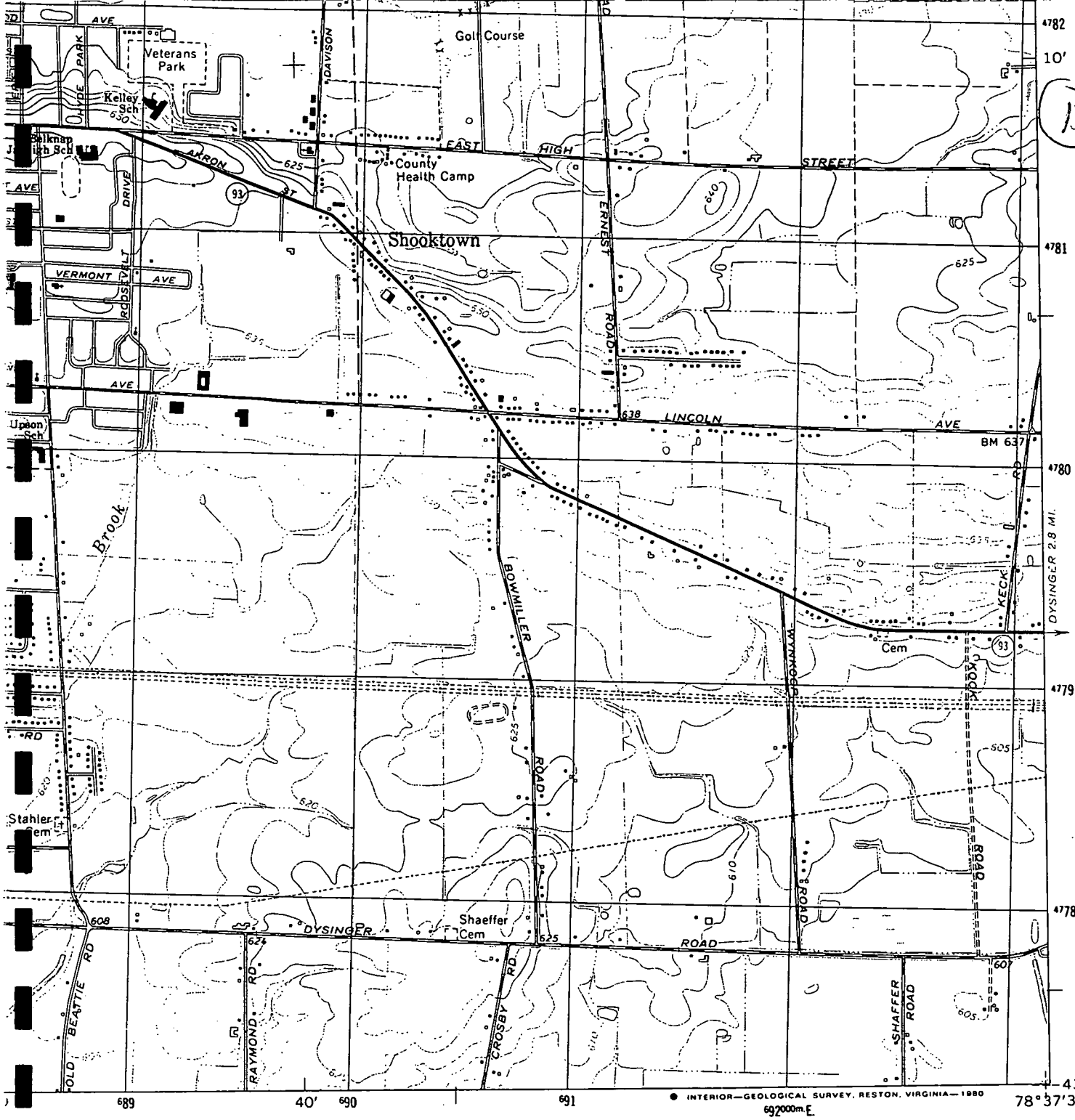
Tuesday
March 1, 1983

Part III

Department of the Interior

National Park Service

National Registry of Natural Landmarks



13

1	.3048
2	.6096
3	.9144
4	1.2192
5	1.5240
6	1.8288
7	2.1336
8	2.4384
9	2.7432
10	3.0480

To convert feet to
multiply by .3048

To convert meters
multiply by 3.280

1 MILE

5000 6000 7000 FEET

1 KILOMETER

T
OF 1929

ACCURACY STANDARDS
STON, VIRGINIA 22092
IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1980

ROAD CLASSIFICATION

Primary highway, hard surface

Secondary highway, hard surface

Light-duty road, hard or improved surface

Unimproved road

Interstate Route U. S. Route State Route

(WOLCOTTSVILLE
5270 II SE

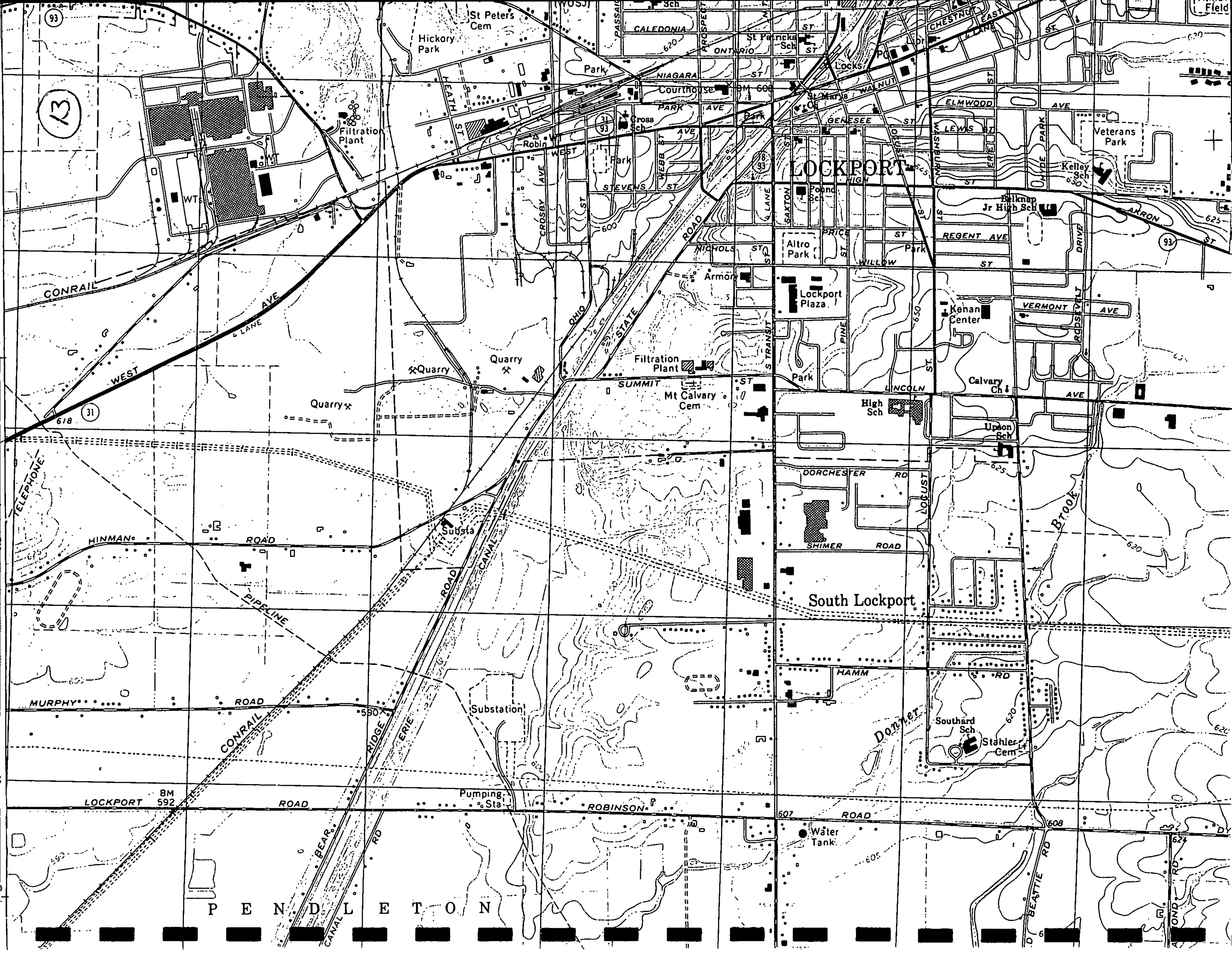
LOCKPORT, N. Y.

NW/4 LOCKPORT 15' QUADRANGLE

N4307.5—W7837.5/7.5

1980

DMA 5270 II NW—SERIES V821


13
St Peters Cem
Hickory Park
Filtration Plant
WTs
CONRAIL
WEST AVE
4 LANE
618
Quarry
Park
Courthouse
BM 608
CALEDONIA
ONTARIO
NIAGARA ST
PARK AVE
St Patricks Sch
Locks
St Marys
WALNUT
CHESTNUT
EAST AVE
ELMWOOD AVE
GENESEE ST
LEWIS ST
Veterans Park
Cross Sch
HEATH ST
Robin
WEST AVE
STEVENS ST
WEBB ST
CROSBY AVE
LOCKPORT
HIGH ST
Pound Sch
Kelley Sch
Belknap Jr High Sch
AKRON ST
625
650
PRICE ST
REGENT AVE
NICHOLS ST
Altro Park
WILLOW ST
Armory
Lockport Plaza
Kenan Center
VERMONT AVE
STATE ROAD
OHIO
S TRANSIT ST
PINE
ROOSEVELT DRIVE
HYDE PARK
WASHBURN ST
Filtration Plant
SUMMIT ST
Mt Calvary Cem
LINCOLN AVE
Calvary Ch
High Sch
Upson Sch
DORCHESTER RD
LOCUST ST
Brook
Substa
HINMAN ROAD
SHIMER ROAD
620
PIPELINE
TELEPHONE
South Lockport
HAMM RD
MURPHY ROAD
590
CONRAIL
RIDGE
ERIE CANAL
ROAD
Substation
Southard Sch
Stahler Cem
Donner
LOCKPORT ROAD
BM 592
Pumping Sta
ROBINSON ROAD
607
608
Water Tank
605
BEAR
CANAL RD
BEATTIE RD
PENDLETON

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NoEPA#

NYSID # 932032

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Gutel Steel	685 OHIO Rd				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Lockport	NY	14049	Niagara	063	032

09 COORDINATES LATITUDE	LONGITUDE
43° 9' 39.3"	78° 42' 51.4"

10 DIRECTIONS TO SITE (Starting from nearest public road)
Take RT 78 North towards Lockport. Turn Right onto Summit Rd. at Y turn left onto OHIO Street, Allegheny Ludlum on left.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)			
Allegheny Ludlum	695 OHIO Street			
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 TELEPHONE NUMBER**	
Lockport	NY	14049	(716) 433-4411	

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)			
NONE				
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 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES ☐ NO DATE 4/23/86 (MONTH DAY YEAR)

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): Engineering Science

02 SITE STATUS (Check one)	03 YEARS OF OPERATION		
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN	1968 (BEGINNING YEAR)	1972 (ENDING YEAR)	☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Chromium and nickel known to be disposed of in landfill. Phenol, lead, iron, manganese and copper also detected in G.W. Samples

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Heavy metals leach into groundwater

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
S.R. Steele	Engineering Science			703-591 7575
04 PERSON RESPONSIBLE FOR ASSESSMENT	**05 AGENCY**	**06 ORGANIZATION**	**07 TELEPHONE NUMBER**	**08 DATE**
S. Powers / L. Ryan	ES/D&M		451-9560 (315) 638-2572	4/30/86 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NoEPA#

NYSID# 932032

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

- TONS: 1000
- CUBIC YARDS:
- NO. OF DRUMS:

03 WASTE CHARACTERISTICS (Check all that apply)

- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [X] 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			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	1000	TONS	Slag w/ chromium & nickel

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	Chromium		landfill	223	ug/l
MES	Nickel		landfill	855	ug/l
SOL	Phenol		landfill	1250	ug/l
MES	Aluminum		landfill	180	mg/l
MES	Copper		landfill	460	ug/l
MES	Lead		landfill	74	ug/l

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

(Kahn, 1982)
(Snyder, 1981)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	NO EPA # NYSED # 932032

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
On site wells show elevated levels of heavy metals and phenols although there is NO good background level for Comparasion Aquifer is not used

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
No Nearby surface water

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: 0
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Survey of the air with a Photovac meter show NO elevated levels of volatile organics greater than the background Reading of 0.00 ppm.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
NONE

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: 0
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Access to land fill is Restricted, No hazardous material at Surface that could result in a direct contact incident

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 8.6 (Acres)
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Heavy metals and phenol could have leached in to ground

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
aquifer is unused.

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None Known

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None Known

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	NOEPA# NYSED# 932032

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 [X] J. DAMAGE TO FLORA — 02 [X] OBSERVED (DATE: 7/23/86) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Site NOT veg etated - Vegetation not effected outside of landfill boundries

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
None apparent

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None apparent

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
Site well graded

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
No

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
No

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None apparent

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 0

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)
ES Phase I site Visit, 1986
Kahn, 1982, Hopkins, 1986

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NoEPA #

NYSID# 932032

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Guterl Steel	6950 Hl0 Street

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Lockport	NY	14094	NIAGARA	063	032

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
43° 9' 39.3"	78° 42' 51.4"	☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
4 23 86 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	1962 (BEGINNING YEAR) 1981 (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)

☐ E. STATE ☒ F. STATE CONTRACTOR Engineering Science (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Les Cordone	Environmental Engineer	ES	(315) 451-9560

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
			( )
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
A. Sil Odasso	Chief Engineer	River Road Brackenridge PA 15014	(412) 339-5032
Gregg E. Eckstein	Sr. Environmental Engineer	" "	(412) 362-2400
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	3:00 PM	Sunny, Warm

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
S.R. Steele	Engineering Science	(703) 591-7575

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
S. Powers / L. Ryan	ES/D&M		(315) 451-9560 (315) 638-2572	4 30 86 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NOEPA #

NYSID# 932052

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

- TONS: 1000
- CUBIC YARDS:
- NO. OF DRUMS:

03 WASTE CHARACTERISTICS (Check all that apply)

- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [X] 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			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	1000	TONS	Slag w/ chromium & nickel

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	Chromium		landfill	223	ug/l
MES	Nickel		landfill	855	ug/l
SOL	Phenol		landfill	1250	ug/l
MES	Aluminum		landfill	180	mg/l
MES	Copper		landfill	460	ug/l
MES	Lead		landfill	74	ug/l

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

(Kahn, 1982)
(Snyder, 1981)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE: NY	02 SITE NUMBER: NO EPA # NYSED # 932073

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
On site wells show elevated levels of heavy metals and phenols although there is NO good background level for comparasion

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
No Nearby surface water

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
Survey of the air with a Photovac meter show NO elevated levels of volatile organics greater than the background Reading of 0.00 ppm.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
NONE

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
Access to land fill is restricted, No hazardous material at surface that could result in a direct contact incident

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 8.6 (Acres)
04 NARRATIVE DESCRIPTION
Heavy metals and phenol could have leached in to ground

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0
04 NARRATIVE DESCRIPTION
aquifer is unused.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
None Known

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
None Known

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NOEPA#

NYSID# 932032

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 [X] J. DAMAGE TO FLORA — 02 [X] OBSERVED (DATE: 5/23/86) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Site not veg existed - vegetation not effected outside of landfill boundries

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
None apparent

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None apparent

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
Site well graded

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
No

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
No

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None apparent

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 0

IV. COMMENTS

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

ES Phase I site visit, 1986
Kahn, 1982, Hopkins, 1956

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	No EPA # NYSID # 932032

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☒ G. STATE (Specify) SPDES	0002674			Discharge can only occur during rain events has been applied for - Not okayed yet
☐ H. LOCAL (Specify) operating a				
☒ I. OTHER (Specify) Solid Waste				
☐ J. NONE Management facility				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☒ F. LANDFILL	Total quantity unknown	
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☒ H. OTHER NONE (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

8.6 (Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☒ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

No final cover has been applied to site since reclamation

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS Fence around steel manufacturing plant

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

ES Phase I site visit, 1986
Foersch, 1980
Odasso, 1986

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	No EPA # NYS ID # 932032

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☑	B. ☐
NON-COMMUNITY	C. ☐	D. ☐

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. >3 (mi)

B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☑ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL >3 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
1½ - 4½ (ft)	SW locally	1½ - 4½ (ft)	unknown (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including usage, depth, and location relative to population and buildings)

aquifer is unused.

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS	☑ YES ☐ NO	COMMENTS Surface water SW of site is most likely discharging groundwater.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☑ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Eighteenmile Creek tributary	☐	4000' (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 1403 NO. OF PERSONS	B. 7828 NO. OF PERSONS	C. — NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION 2000' (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ~2000

04 DISTANCE TO NEAREST OFF-SITE BUILDING 500' (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

The site is in an industrial area on the edge of the City of Lockport. The county landfill and other industrial facilities surround the site.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	No EPA #

NYSID # 732052

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☑ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☑ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
3½ - 5½ (ft)	(ft)		

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
9 (in)	2.1 (in)	2-4 %	South + West	<1 %

09 FLOOD POTENTIAL

SITE IS IN _____ YEAR FLOODPLAIN

10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum) Wetland is not regulated.

ESTUARINE: A. _____ (mi)

OTHER: B. adjacent (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

>2 (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. 0.0 (mi)	B. 2000' (mi)	C. >2 (mi)	D. >2 miles (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is flat, a few feet in elevation higher than the surrounding area which is flat and swampy. The north end of the land fill has an approximatly 10' high mound.

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

ES Phase I site Inspection, 1986
Snyder, 1981.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE: NY	02 SITE NUMBER: NO EPA #
NYSID# 932032	

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03. ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		No samples collected as part of Phase I Investigation	
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Air quality Survey	Survey done with Photovac meter in up and down wind locations.

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☐ AERIAL

02 IN CUSTODY OF Engineering Science (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS Dames & Moore, Baldwinsville, NY

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None

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

ES Phase I Site Inspection

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	No EPA #

NYSID# 932032

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	08 NAME (PARENT COMPANY, if applicable)	09 D+B NUMBER
Allegheny Ludlum		Allegheny Ludlum	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
695 OHIO Street		River Road	

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Lockport	NY	14049	Bracken Ridge	PA	15014

(Three further blank owner/parent company entries: 01 NAME, 02 D+B NUMBER, 03 STREET ADDRESS (P.O. Box, RFD #, etc.), 04 SIC CODE, 05 CITY, 06 STATE, 07 ZIP CODE; 08 NAME, 09 D+B NUMBER, 10 STREET ADDRESS (P.O. Box, RFD #, etc.), 11 SIC CODE, 12 CITY, 13 STATE, 14 ZIP CODE)

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER
Guterl Steel	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
(No longer in business)	

05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER
Simond Saw & Steel	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Unknown	

05 CITY	06 STATE	07 ZIP CODE

(One further blank entry: 01 NAME, 02 D+B NUMBER, 03 STREET ADDRESS (P.O. Box, RFD #, etc.), 04 SIC CODE, 05 CITY, 06 STATE, 07 ZIP CODE)

IV. REALTY OWNER(S) (If applicable; list most recent first)

(Three blank entries: 01 NAME, 02 D+B NUMBER, 03 STREET ADDRESS (P.O. Box, RFD #, etc.), 04 SIC CODE, 05 CITY, 06 STATE, 07 ZIP CODE)

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

(Bori, 1986)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	No EPA # NYSID # 932032

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
NONE	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
Gutenl Steel		Unknown	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
(out of business)			

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1978-1981	Gutenl Steel

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
Simmond Saw & Steel		Unknown	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
Unknown			

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1962-1978	SAME

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

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

(Buri, 1986)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NOEPA 4

NYSED# 9-32032

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
NONE	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
CURRENTLY	

05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NONE			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NONE			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

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

(Buri, 1986)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NoEPA #

NYSID # 932032

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☒ F. WASTE REPACKAGED — 02 DATE 1982 — 03 AGENCY Gutert Steel
04 DESCRIPTION: Nickel & chromium in slag Reclaimed from site for reuse

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION: NO

NYS ID #932032

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NoEPA#

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ S. CAPPING/COVERING 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ T. BULK TANKAGE REPAIRED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ V. BOTTOM SEALED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ W. GAS CONTROL 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ X. FIRE CONTROL 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ Y. LEACHATE TREATMENT 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ Z. AREA EVACUATED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ 2. POPULATION RELOCATED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION: NONE	02 DATE	03 AGENCY

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

(Buri, 1886)

NYSID# 932032

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	NOEPA#

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

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

SECTION VI
ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

ASSESSMENT OF DATA ADEQUACY

A summary assessment of the adequacy of existing data for completion of the HRS score is presented in Table VI-1. Based on this assessment, the following Phase II work plan and cost estimate has been prepared.

PHASE II WORK PLAN

Objectives

The objectives of the proposed Phase II activities are:

- To collect additional field data necessary to identify the occurrence and extent of contamination and to determine if any imminent health hazard exists.
- To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.
- To prepare a site investigation report including final HRS score.

The additional field data required to complete this investigation are described as follows:

Geophysical Survey - A geophysical study consisting of electrical resistivity and magnetometer surveys is recommended. The electrical resistivity survey will be performed at various locations within and beyond the perimeter of the site to investigate site stratigraphy, delineate significant discontinuities and assess the presence and location of contaminant plumes. A magnetometry survey will be conducted as necessary on a grid system to aid in delineating the limits of the contaminated area.

Groundwater - A groundwater monitoring system consisting of 2 addition wells is recommended. The wells will include an upgradient and downgradient well. The location for the upgradient well should take into account the fact that an operating landfill is 1/2 mile from the site. Borings will be drilled to a maximum depth of 6 feet; soil samples will be taken every 5 feet or more frequently if a change in soil lithology is encountered. The wells will be placed in the aquifer of concern and constructed of 2" PVC pipe. The groundwater samples will be analyzed for HSL metals, phenols, and TOX. Samples from 01 and 04 will also be analyzed. In addition, sieve and hydrometer analyses will be performed on representative samples of the subsurface soils.

Waste Sampling - One waste sample will be collected from the leachate seep at the landfill. Analyses will include HSL metals phenol and TOX.

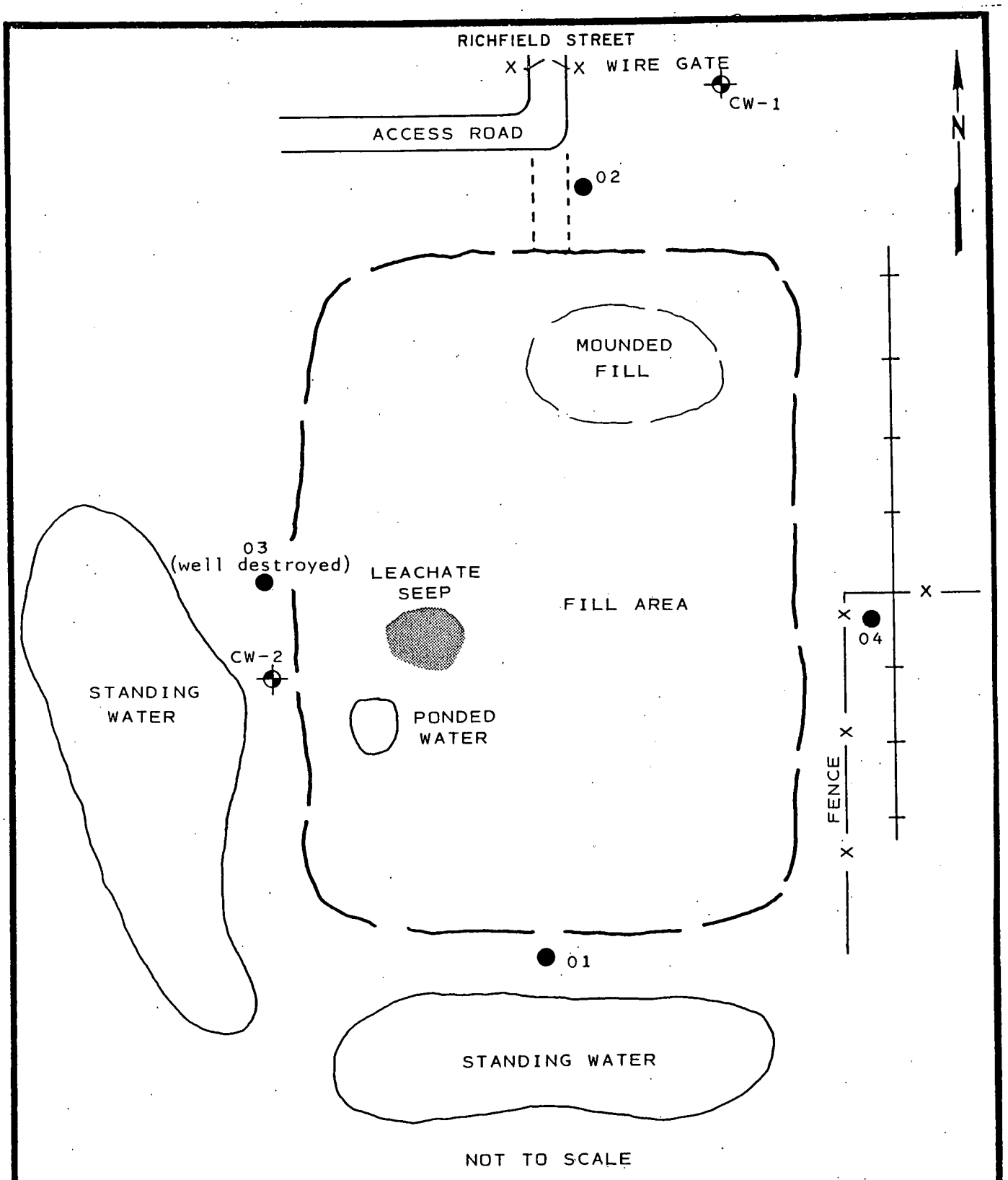
Air - An air monitoring survey with a Photoionization Detector is recommended to test the air quality during site activities.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VI-2.

COST ESTIMATE

The estimated man-hours required for the Phase II project are presented in Table VI-3 and the estimated project costs by tasks are presented in Table VI-4.



EXPLANATION:

- ● EXISTING WELL, INSTALLED BY EARTH DIMENSIONS, 1980
- ⊕ PROPOSED MONITORING WELL

ENGINEERING-SCIENCE, INC.
IN ASSOCIATION WITH
DAMES & MOORE

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
PHASE I REPORT

PROPOSED SAMPLING LOCATIONS
GUTERL SPECIAL STEEL CORP.

FIGURE VI-1

TABLE VI-1

ASSESSMENT OF ADEQUACY OF DATA

HRS Data Requirement	Comments on Data
Observed Release	
Groundwater	Data insufficient to score an observed release.
Surface Water	Data insufficient to score an observed release.
Air	Data adequate for HRS score
Route Characteristics	
Groundwater	Data adequate for HRS score
Surface Water	Data adequate for HRS score
Air	Data adequate for HRS score
Containment	Data adequate for HRS score
Waste Characteristics	Data adequate for HRS score
Targets	Data adequate for HRS score
Observed Incident	Data adequate for HRS score
Accessibility	Data adequate for HRS score

TABLE VI-2
PHASE II WORK PLAN - TASK DESCRIPTION

Tasks		Description of Task
II-A	Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B	Conduct Geophysical Studies	Conduct electrical resistivity and magnetometry surveys.
II-C	Conduct Boring/Install Monitoring Wells	Install 1 upgradient and 1 downgradient wells. The wells are to be located at a depth of approximately 6 feet. Wells will be constructed of 2" PVC pipe.
II-D	Construct Test Pits/Auger Holes	No further construction of test pits/auger holes necessary.
II-E	Perform Sampling & Analysis	
	Soil samples from borings	Soil samples collected at 5 ft. intervals during drilling and at changes in subsurface lithologies. Perform one grain size analysis and permeability test per subsurface lithology change.
	Soil samples from surface soils	No further studies necessary.
	Soil samples from auger holes/test pits	No further studies necessary.
	Sediment samples from surface water	No further studies necessary.
	Groundwater samples	Four groundwater samples are to be collected and analyzed for HSL metals, phenol, and TOX.
	Surface water samples	No further studies necessary.

TABLE VI-2 (Continued)
PHASE II WORK PLAN - TASK DESCRIPTION

Tasks		Description of Task
	Air samples	Using the HNU determine the presence of organics.
	Waste samples	Collect one waste sample from the leachate seep at the landfill and analyze for HSL metals, phenol and TOX.
II-F	Calculate Final HRS	Based on the field data collected in Tasks II-B - II-E, complete the HRS form.
II-G	Conduct Site Assessment	Prepare final report containing significant Phase I information, additional field data, final HRS and HRS documentation records, and site assessments. The site assessment will consist of a conceptual evaluation of alternatives and a preliminary cost estimate of the most probable alternative.
II-H	Project Management	Project coordination, administration and reporting.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PHASE II INVESTIGATION
COST ESTIMATE

SITE ID #: 932032
SITE NAME: GUTERL SPECIAL STEEL
CONSULTANT: ENGINEERING SCIENCE

TABLE VI-3

TASK DESCRIPTION	ESTIMATED HOURS OF DIRECT TECHNICAL LABOR (DTL) L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	TOTAL HOURS	TOTAL COST
II-A UPDATE WORKPLAN	4	24	4	12	4	72	32	40	24	52	268	3801.20
II-B CONDUCT GEOPHYSICAL STUDIES	2	4				80		160	10	10	266	3477.60
II-C CONDUCT BORING/INSTALL MONITORING WELLS	4	8				40		8	10	12	82	1234.40
II-D CONSTRUCT TEST PITS/ AUGER HOLES											0	0.00
II-E SAMPLING AND ANALYSIS											0	0.00
Soil samples from borings											0	0.00
Soil samples from surface soils											0	0.00
Soil samples from auger holes/test pits											0	0.00
Sediment samples from surface water											0	0.00
Groundwater samples		2				36		36			74	1026.00
Surface water samples											0	0.00
Air samples											0	0.00
Waste samples		1				4		4			9	133.60
II-F CALCULATE FINAL HRS SCORE	8	16	4	2	8	48	40	16	8	8	158	2528.20
II-G CONDUCT SITE ASSESSMENT	2	40	4		8	80	40	8	60	100	342	4570.80
II-H PROJECT MANAGEMENT	4	30	4		16						54	1249.60
TOTAL HOURS	24	125	16	14	36	360	112	272	112	182		
HOURLY RATE $	33.40	25.20	22.00	19.70	17.00	15.10	13.30	12.00	9.60	8.60		
DIRECT LABOR COSTS $	801.60	3150.00	352.00	275.80	612.00	5436.00	1489.60	3264.00	1075.20	1565.20		

5/30/86

TOTAL DTL COSTS	18021.40
INDIRECT LABOR COSTS	21265.25
TOTAL LABOR COSTS	39286.65
PROFIT (15%)	5893.00
TOTAL PRICE	45179.65

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PHASE II INVESTIGATION
COST ESTIMATE

SITE ID #: 932032
SITE NAME: GUTERL SPECIAL STEEL
CONSULTANT: ENGINEERING SCIENCE

TABLE VI-4

TASK DESCRIPTION	DIRECT LABOR HOURS	DIRECT LABOR COST($)	SUBCONTR. COSTS $	SUPP.& EQUIP. $	MISC. $	TRAVEL & PER DIEM $	TOTALS $
II-A UPDATE WORKPLAN	268	3801.20		237	210	260	4508.20
II-B CONDUCT GEOPHYSICAL STUDIES	266	3477.60		950	60	960	5447.60
II-C CONDUCT BORING/INSTALL MONITORING WELLS	82	1234.40	8050		50	410	9744.40
II-D CONSTRUCT TEST PITS/ AUGER HOLES	0	0.00					0.00
II-E SAMPLING AND ANALYSIS	0	0.00	6625	710	30	685	8050.00
Soil samples from borings	0	0.00					0.00
Soil samples from surface soils	0	0.00					0.00
Soil samples from test pits/ auger holes	0	0.00					0.00
Sediment samples from surface water	0	0.00					0.00
Groundwater samples	74	1026.00					1026.00
Surface water samples	0	0.00					0.00
Air samples	0	0.00					0.00
Waste samples	9	133.60					133.60
II-F CALCULATE FINAL HRS SCORE	158	2528.20		50	75		2653.20
II-G CONDUCT SITE ASSESSMENT	342	4570.80		750	1000	165	6485.80
II-H PROJECT MANAGEMENT	54	1249.60		400	40		1689.60
SUBTOTAL	1253	18021.40	14675.00	3097.00	1465.00	2480.00	
INDIRECT LABOR (118% DTL)		21265.25					
PROFIT (%)		15	5	5	5	0	
PROFIT ($)		5893.00	733.75	154.85	73.25		
TOTAL COSTS ($)		45179.65	15408.75	3251.85	1538.25	2480.00	67858.50

5/30/86

APPENDIX A
REFERENCES

Sources Contacted
Documentation

SOURCES CONTACTED SUMMARY SHEET
GUTERL STEEL

Person Contacted/ Location	Telephone #	Date	Information Collected
Walt Demick NYSDEC - Division of Solid & Haz. Wastes 50 Wolf Road Albany, NY 12233	518-457-0639	11/21/85	General information from site files.
Mel Hauptman USEPA Region II Federal Building Room 402 New York, NY	(212) 264-7681	12/31/85	Reviewed list of sites to determine EPA Site ID #'s.
Bob Hannaford NYSDEC - Division of Water 50 Wolf Road Albany, NY 12233	(518) 457-6716	11/22/85	Reviwed SPDES Permit Index to see if any permits were issued to site.
Frank Estabrook NYSDEC - Division of Monitoring & Assessment 50 Wolf Road Albany, NY 12233	(518) 457-2672	11/22/85	Reviewed surface water monitoring locations to see if any were close to site.
Kevin Walters NYSDEC - Division of Environmental Enforcement 50 Wolf Road Albany, NY 12233	(518) 457-4346	11/22/85	Determined that no legal action was presently occurring at site.
John Ozard NYSDEC - Division of Fish and Wildlife Delmar, NY 12054	(518) 439-7486	1/17/86	Collected information concerning critical habitats of threatened or endangered species.
Ahmad Tayyebi NYSDEC Region 9 600 Deleware Ave. Buffalo, NY 14202	(716) 847-4648	1/28/86	Requested copies of information from site files.
Mike Hopkins NCHD 10th St. & East Falls Niagara Falls, NY	(716) 284-3124	4/21/86	Requested copies of information from site files.

SOURCES CONTACTED SUMMARY SHEET
GUTERL STEEL

Person Contacted/ Location	Telephone #	Date	Information Collected
Reginald Buri Allegheny Ludlum 695 Ohio St. Lockport, NY 14094	(716) 433-4411	3/31/86	Discussed site history.
Gregg E. Eckstein A. Silvo Odasso Allegheny Ludlum Steel River Road Brackenridge, PA 15014	(412) 339-5030	4/23/86	Site tour and discussion of site history.

REFERENCES*

14. Dogle, J. J. (1981), Guterl Steel. "Application for Approval to Operate a Solid Waste Management Facility". January 22, 1981.

15. Erk, Y. (1980), NYSDEC. Letter to D. R. Hulshoff. August 7, 1980.

16. Foersch, P.E. (1980), NYSDEC. Letter to D. Hulsholf, Guterl Steel. December 17, 1980.

17. Hopkins, M. (1983), NCHD. "Report of Investigation". June 16, 1983.

18. Hopkins, M. (1986), NCHD. Comments to Phase I Report for Guterl Steel Company Site, July 31, 1986.

19. NYSDEC (1985). "Ambient Water Quality Standards and Guidance Values", Memorandum #85-W-38, July 24, 1985.

20. NYSDOH (1982), Division of Environmental Protection. New York State Atlas of Community Water System Sources.

21. NYS Museum and Science Service (1970). Geologic Map of New York, Map and Chart Series No. 15, Niagara Sheet.

22. Odasso, A. S. (1985), Allegheny Ludlum. Letter and Application to P. D. Eisman, NYSDEC, Janury 21, 1985.

*Does not include "HRS References" which are provided directly after the HRS Documentation Records in Section V.

Formerly SW-7

APPLICATION FOR APPROVAL TO CONSTRUCT A SOLID WASTE MANAGEMENT FACILITY

SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

FOR STATE USE ONLY

PROJECT NO.	DATE RECEIVED
DEPARTMENT ACTION ☐ Approved ☐ Disapproved	DATE 14

1. OWNER'S NAME	2. ADDRESS (Street, City, State, Zip Code)	3. Telephone No.
Guterl Special Steel Corp.	695 Ohio Street, Lockport, NY 14094	716-433-4411
4. OPERATOR'S NAME	**5. ADDRESS (Street, City, State, Zip Code)**	**6. Telephone No.**
Guterl Special Steel Corp.	695 Ohio Street, Lockport, NY 14094	716-433-4411
7a. ENGINEER'S NAME	**8. ADDRESS (Street, City, State, Zip Code)**	**9. Telephone No.**
Richard R. Snyder	86 Countryside Lane, Grand Island, NY 14072	716-773-5561

7b. ENGINEER'S N.Y.S. LICENSE NO.: 54616

10. TYPE OF PROJECT FACILITIES:
☐ Composting ☐ Transfer ☐ Shredding ☐ Baling ☐ Sanitary Landfill ☐ Incineration
☐ Pyrolysis ☐ Resource Recovery-Energy ☒ Resource Recovery-Materials ☒ Other Non Hazardous Industrial Landfill

11. Briefly describe the project including the basic process and major components:
Reclamation of alloys and potential operation and closure of a non-hazardous industrial landfill. See Attached Support Documents.

12. Describe location of facility. (Attach a USGS Topographic Map showing the exact location of the facility)
City of Lockport, New York. See attached Report and topo

13. County in which facility is located: Niagara

14. Environmental Conservation Region in which facility is located: Nine

15.

Municipalities Served by Facility	County	No. of Municipalities
None	—	—

16. Describe briefly how the proposed facility relates to the Comprehensive Solid Waste Management Plan for the Municipality. Explain any deviation from that Plan.
No comprehensive plan

17. If the facility is other than a sanitary landfill, describe the residues in terms of quantities and types. Also indicate the methods and locations of residue disposal or, if recyclable, indicate markets:
Ten tons per day of slags containing recyclable metals. Inert residues to be landfilled. Also, an estimated 2,000,000 (two million) pounds of metal are to be reclaimed from the existing site. See report.

18. If the facility is a sanitary landfill, provide the following information: N.A.
a. Total useable area – _____ Acres
b. Distance to nearest surface water – _____ Feet
c. Depth to nearest ground water – _____ Feet
d. Depth to nearest rock – _____ Feet
e. Distance to nearest airport – _____ miles
f. Expected life of site – _____ years
g. Is site on a flood plain? ☐ Yes _____ Year Flood ☐ No
h. Predominant type of soil on site: _____ (Use Unified Soil Classification System)

19. Anticipated construction starting and completion dates From	To	20. Estimated Population Served Current	Design
Phase 1, May, 1981	May, XXXX 2001	None	None
21. Estimated Cost Initial	**Annual**	**22. Estimated Daily Tonnages of Solid Waste Current**	**Design**
$750,000 (Phase 1)	$5,000-25,000	10 tons	25 tons
23. Operating Hours per Day		**24. Are attached plans and specifications in substantial conformance with "Content Guidelines for Plans and Specifications"?**	
8 per day		☒ Yes ☐ No	

25. CERTIFICATION:
I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

January 22, 1981
Date

Executive Vice President
Signature and Title

CENTRAL OFFICE COPY

APPLICATION FOR APPROVAL TO OPERATE A SOLID WASTE MANAGEMENT FACILITY

SEE APPLICATION INSTRUCTIONS ON REVERSE SIDE

PROJECT NO.	DATE RECEIVED
DEPARTMENT ACTION ☐ Approved ☐ Disapproved	DATE (14)

1. OWNER'S NAME	2. ADDRESS (Street, City, State, Zip Code)	3. Telephone No.
Guterl Special Steel Corp.	695 Ohio Street, Lockport, NY 14094	716-433-4411
4. OPERATOR'S NAME	**5. ADDRESS (Street, City, State, Zip Code)**	**6. Telephone No.**
Guterl Special Steel Corp.	695 Ohio Street, Lockport, NY 14094	716-433-4411
7. ENGINEER'S NAME	**8. ADDRESS (Street, City, State, Zip Code)**	**9. Telephone No.**
Richard R. Snyder	86 Countryside Lane, Grand Island, NY 14072	716-773-5561
10. ON-SITE SUPERVISOR	**11. ADDRESS (Street, City, State, Zip Code)**	**12. Telephone No.**
To Be Named	—	—

13. HAS THE INDIVIDUAL NAMED IN ITEM 10 ATTENDED A DEPARTMENT SPONSORED OR APPROVED TRAINING COURSE?
☐ Yes Date Course Title Location ☒ No
Will attend next course.

14. PROJECT/FACILITY NAME	15. COUNTY IN WHICH FACILITY IS LOCATED	16. ENVIRONMENTAL CONSERVATION REGION
Guterl Special Steel Reclamation & Landfill	Niagara	Nine

17. TYPE OF PROJECT FACILITIES: ☐ Composting ☐ Transfer ☐ Shredding ☐ Baling ☐ Sanitary Landfill ☐ Incineration ☐ Pyrolysis ☐ Resource Recovery-Energy ☒ Resource Recovery-Materials ☒ Other Non Hazardous Industrial Landfill

18. HAS THIS DEPARTMENT EVER APPROVED PLANS AND SPECIFICATIONS AND/OR ENGINEERING REPORTS FOR THIS FACILITY? ☐ Yes Date _____ ☒ No

19. LIST WASTES NOT ACCEPTED
Only on site produced slags. No garbage, chemicals, pyrophorics, explosives, hospital wastes.

20. BRIEFLY DESCRIBE OPERATION
Reclamation of approximately 2,000,000 pounds (two million pounds) of alloy steel and monitoring of the site and potential closure. See attached Report.

21. IF FACILITY IS A SANITARY LANDFILL, PROVIDE THE FOLLOWING INFORMATION:
a. Total useable area: (Acres) Initially N.A. Currently N.A.
b. Distance to nearest offsite, downgradient, water supply well N.A. Feet
c. No. of groundwater monitoring wells Upgradient N.A. Downgradient N.A.

22. INDICATE WHICH ATTACHMENTS, IF ANY, ARE INCLUDED WITH THIS APPLICATION:
☒ Form 47-19-2 or SW-7 ☒ Operations Plan & Report ☒ USGS Topographic Map ☐ Record Forms ☒ Other Environmental Assessment Form
☐ Construction Certificate ☒ Boring Logs ☒ Water Sample Analysis ☐ None

23. CERTIFICATION:
I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

January 22, 1981
Date

Signature and Title

47-19-4 (6/77)
Formerly SW-22

CENTRAL OFFICE COPY

15

New York State Department of Environmental Conservation
584 Delaware Avenue, Buffalo, New York 14202

Robert F. Flacke
Commissioner

August 7, 1980

Mr. Donald R. Hulshoff, Plant Engineer
Simonds Steel
Ohio Street
Lockport, NY 14094

Dear Mr. Hulshoff:

This letter is to confirm that a meeting was held in your office on August 4, 1980 with you and Mr. Keller to discuss the status of the landfill on your property. Also present at the meeting was Mr. Tayyebi and the writer from the Department of Environmental Conservation.

Please be advised that you are required to cease dumping pellets from baghouse operation on the ground since the material was determined to be hazardous in nature. You are asked to clean up the area which has been used as a pellet disposal site since February 1980, and find a secure landfill for disposing it.

The nature of the past landfilling operation also requires immediate attention since, in the past, pellets and slag from the plant operation has been dumped in the landfill. Based on this information, you are advised not to let outside construction companies to use slag which may be mixed with pellets whatever the nature of that use may be.

You are required to submit a remedial plan for the landfill on your property by September 15, 1980 which will include a hydrogeological investigation to determine if the hazardous waste in the landfill is in fact leaching into groundwater. Meanwhile, you are hereby directed to immediately cease the landfilling of all wastes from your plant until a permit to operate a landfill is obtained from the Department of Environmental Conservation.

During the landfill tour, it was also observed that three big holding tanks filled with waste oil were overflowing. You are required to take necessary steps to clean up the waste oil tanks.

If you have any questions, please call this office at 842-4311.

Very truly yours,

Yavuz Erk

Yavuz Erk
Assistant Sanitary Engineer

YE:sk

cc: Mr. Counterman
Mr. Devald
Mr. Hebe

(16)

New York State Department of Environmental Conservation
600 Delaware Avenue Buffalo, NY 14202

Robert F. Flacke
Commissioner

December 17, 1980

File

Mr. Donald Hulshoff, Plant Engineer
Simonds Steel Division
Guterl Special Steel Corp.
Ohio Street
Lockport, NY 14094

Re: Inspection of 12/9/80
Guterl Special Steel Corp.
SPDES Permit #NY 0002674
Lockport (C), Niagara County

Dear Mr. Hulshoff:

On December 9, 1980 a representative of this Department inspected the referenced facility for compliance with its SPDES Permit.

It was noted during the inspection that discharge can occur only during wet weather events, and that a discharge has not occurred in two years.

During the inspection you indicated that sludges from your facility's separator are removed by the Bewley Construction Company. Waste generated at your facility must be hauled by a licensed industrial waste hauler. Advise this office, by January 9, 1981, of who you intend to retain for this purpose.

If you have any questions regarding this matter, please contact Mr. Mark Jackson of this office at 842-5826.

Very truly yours,

Paul E Foersch RE

Paul E. Foersch, P.E.
Senior Sanitary Engineer

MAJ:dd

cc: ~~Mr. Mitrey~~
Mr. Gwozdek, NCHD
Mr. Vaughn, NCHD

Code Activity (17)

Code Location

Service Request No.

Date Received Complaint

NIAGARA COUNTY
DEPARTMENT OF HEALTH

Service Request Meeting at Gutsl Steel

Originator of Complaint NYSDEC / NCHD Address

Owner Gutsl Steel Address Ohio St, Lockport

Occupant Gutsl Landfill Address behind plant

Date	Hours	REPORT OF INVESTIGATION
6/16/83	9:00 AM	A meeting was held at Gutsl Steel to discuss the status of the landfill. Present were Reggie Burj and Jim Purviance of Gutsl and this writer, M. Hopkins of NCHD.
		It was learned that the status of the landfill is inactive. The last disposal occurred two years ago. Since then Nickle and chromium bearing slags have been removed from the landfill for resource recovery. The site is not covered and no closure plans are available.
		Gutsl is now officially bankrupt. The plant is closed and will remain so unless a buyer is found. Mr Purviance stated flatly that Gutsl will not perform any closure on the landfill and that Gutsl has no financial resources available for doing such.
		It is unclear whether or not hazardous materials are present in the landfill. If so they would likely be in the form of dust bearing chromium and nickle.
		A site inspection was made. The site is in essentially the same condition noted previously by Mr Abbott.
		I informed Mr Purviance that if a buyer is found for the plant that a new application to operate the landfill would be required if the new owner desired to use the landfill.

Date Abated By M. Hopkins

(18)

NIAGARA COUNTY HEALTH DEPARTMENT

MEMORANDUM

TO: Larry Clare DATE: July 31, 1986

FROM: Mike Hopkins

SUBJECT: PHASE I REPORT
GUTERAL STEEL COMPANY

I have reviewed the above captioned report and have made several comments in the page margins, as requested.

We are in general agreement with the conclusions reached in this report. We wish to note that under "Site Hydrology" in Section IV that no mention was made of the quarry dewatering operation of Frontier Stone Company just west of the site. Groundwater levels are depressed over 30' at this location and this no doubt affects the hydrology of the Guteral site. This should be further explored prior to any additional well installation.

Feel free to contact me with any questions at 284-3128.

MEH:dm
cc: R. Tramantano/DOH-Albany

(19)

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233-0001

Henry G. Williams
Commissioner

July 24, 1985

MEMORANDUM

TO: Bureau Directors, Regional Water Engineers, Section Chiefs

SUBJECT: Division of Water Technical and Operational Guidance Series (85-W-38)

Ambient Water Quality Standards and Guidance Values
(Originator: John Zambrano)

I. Purpose

The purpose of this document is to provide a compilation of water quality standards and guidance values for toxic and non-conventional pollutants to be used in the Department's regulatory programs, including the SPDES permit program.

II. Discussion

This substantial revision of TOGS 85-W-38 is the result of the promulgation of amendments to 6 NYCRR Part 701-702, effective on August 2, 1985, governing the development and use of surface water quality standards and guidance values. This revision uses a new format in the tabulation and does not include the methodologies for the development of standards and guidance values. The user is referred to the regulations for a description of the methodologies.

III. Guidance

The Quality Evaluation Section will use the attached list in developing SPDES permit water quality-based effluent limits. The Criteria and Standards Section will maintain and revise the list on a regular basis.

for Daniel M. Barolo, P.E.
Director
Division of Water

Attachments
cc: Dr. Banks
Mr. Pagano
Mr. Mt. Pleasant
Regional Engineers for Environmental Quality
Ms. Chrimes

New York State Atlas of Community Water System Sources 1982

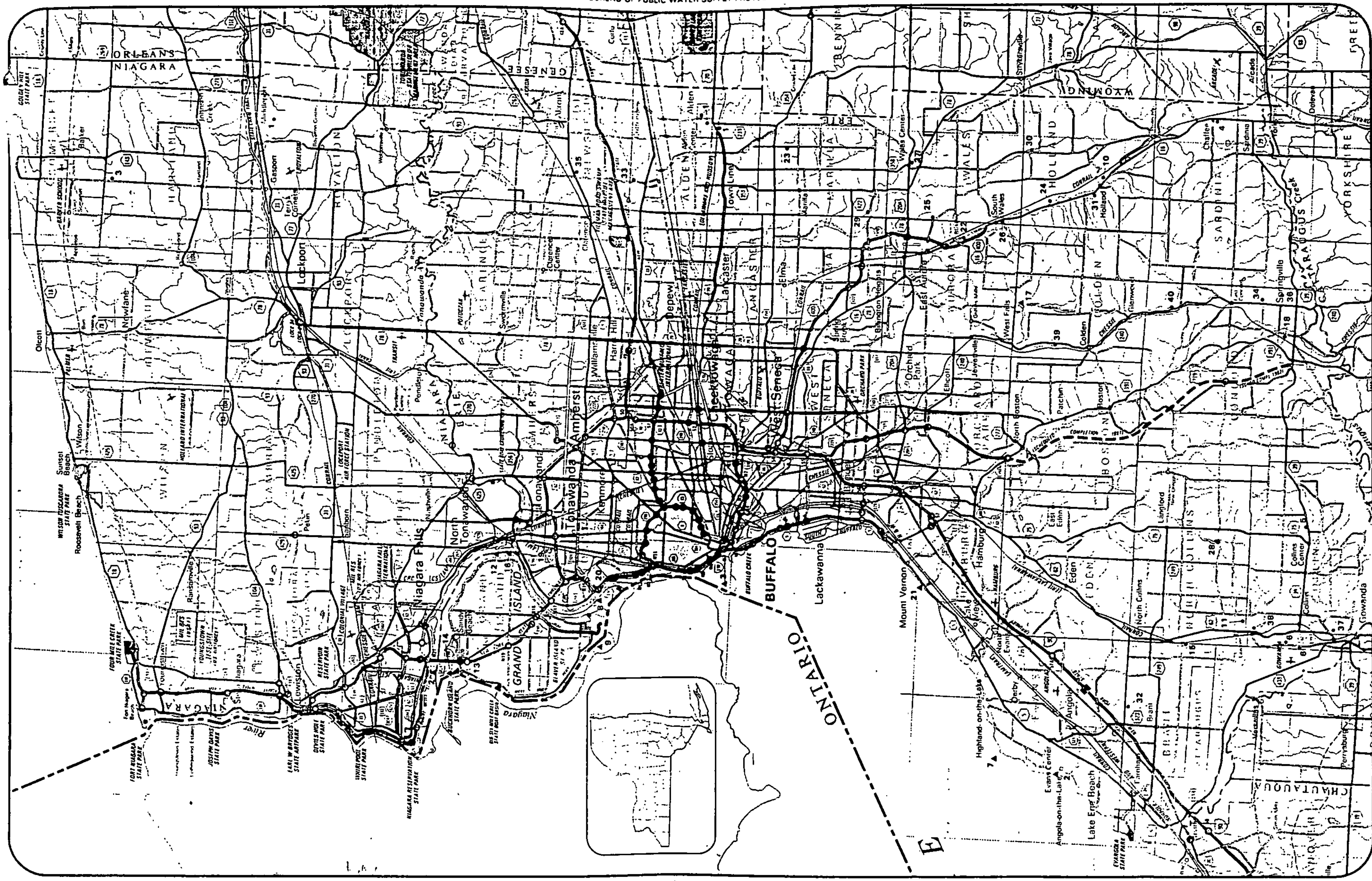
NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

26

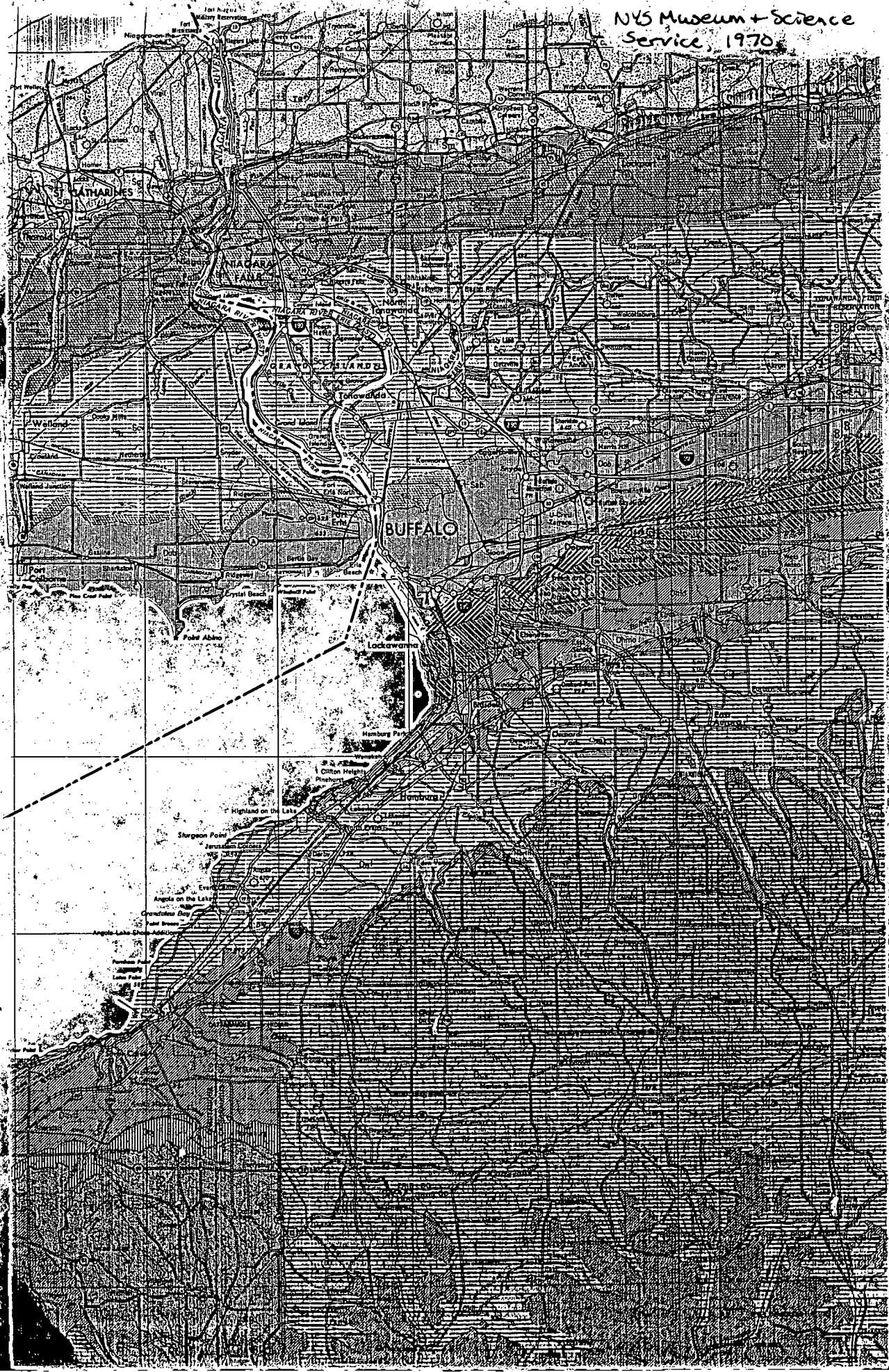
LOCATION OF COMMUNITY WATER SYSTEM SOURCES-1982

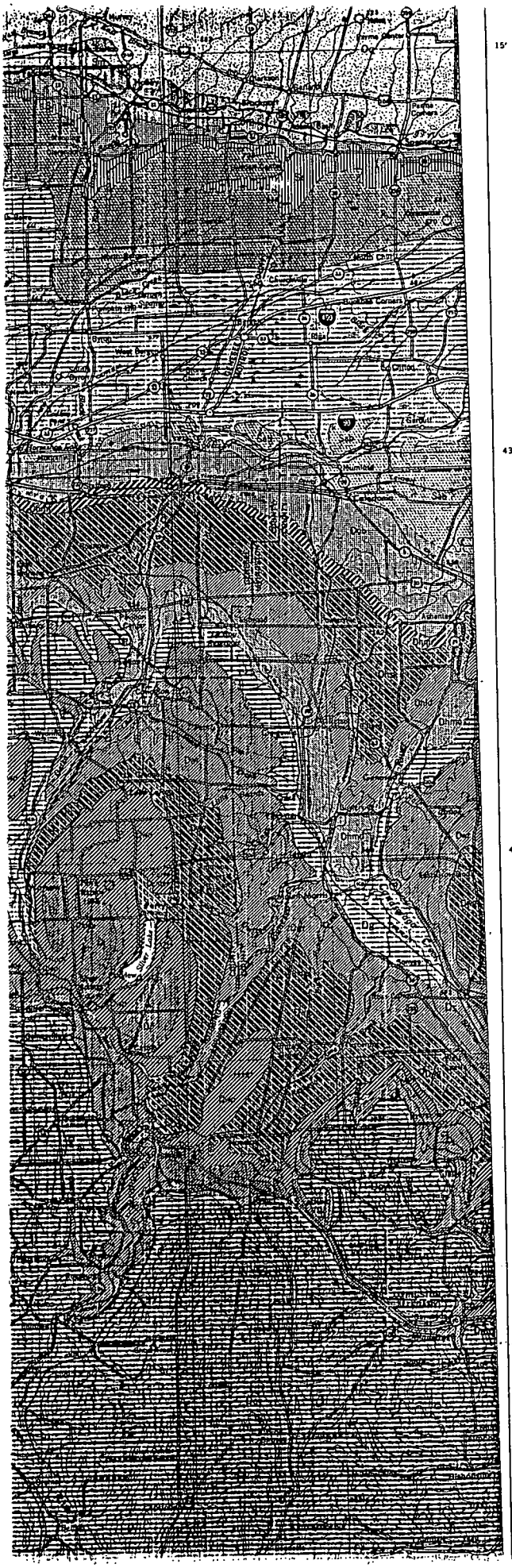
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

ERIE and NIAGARA COUNTIES



ADAPTED FROM THE FOUR SHEET 1:250,000 SCALE NEW YORK STATE MAP © 1980 BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION


NYS Museum + Science Service, 1970.
21
ST CATHARINES
NIAGARA FALLS
Tonawanda
GRAND ISLAND
Tonawanda
Welland
BUFFALO
Fort Erie
Crystal Beach
Point Abino
Lackawanna
Hamburg
Highland on the Lake
Sturgeon Point
Angola on the Lake
Evangola
Grandview Bay
Angola-Lake Shore Addition



PALEOZOIC

Conglomerate 50-100 ft. (15-30 m.)

NYS Museum + Science Service, 1970

21

Lower Mississippian

Mp — Mp

CONEWANGO GROUP
450-650 ft. (140-200 m.)

Dco — Oswayo and Venango Formations—shale, siltstone, sandstone; replaced eastwardly by Cattaraugus Formation—shale, sandstone, conglomerate.

CONNEAUT GROUP
250-600 ft. (75-200 m.)

Dct — In west: Ellicott and Dexterville Formations—shale, siltstone.
In east: Germania Formation—shale, sandstone; Whitesville Formation—shale, sandstone; Hinsdale Sandstone; Wellsville Formation—shale, sandstone; Cuba Sandstone.

Upper Devonian

CANADAWAY GROUP
700-1200 ft. (210-370 m.)

Dcys — Northeast Shale; Shumla Siltstone.
Dcyl — Westfield Shale; Laona Siltstone.
Dcyd — Gowanda, South Wales, and Dunkirk Shales.
Dcy — Machias Formation—shale, siltstone; Rushford Sandstone; Caneadea, Canisteo, and Hume Shales; Canaseraga Sandstone; South Wales and Dunkirk Shales.

JAVA GROUP
100-200 ft. (30-60 m.)

Dj — Hanover Shale; Wiscoy Formation—sandstone, shale; Pipe Creek Shale.

WEST FALLS GROUP
400-950 ft. (120-290 m.)

Dwf — Angola and Rhinestreet Shales.
Dwn — Nunda Formation—sandstone, shale.
Dwg — West Hill and Gardeau Formations—shale, siltstone; Rorickş Glen Shale; upper Beers Hill Shale; Grimes Siltstone.
Dwr — lower Beers Hill Shale; Dunn Hill, Millport, and Moreland Shales.

SONYEA GROUP
50-200 ft. (15-60 m.)

Ds — Cashaqua and Middlesex Shales.

GENESEE GROUP
10-150 ft. (3-45 m.)

Dg — West River Shale; Genundewa Limestone; Penn Yan and Geneseo Shales; North Evans Limestone.

Middle Devonian

HAMILTON GROUP
200-500 ft. (60-150 m.)

Dhmo — Moscow Formation—Windom and Kashong Shales. Menteth Limestone Members.
Dhld — Ludlowville Formation—Deep Run Shale, Tichenor Limestone, Wanakah and Ledyard Shales, Centerfield Limestone Members.
Dhsk — Skaneateles Formation—Levanna Shale, Stafford Limestone Members.
Dhmr — Marcellus Formation—Oatka Creek Shale Member.

Lower Devonian

ONONDAGA AND BOIS BLANC LIMESTONES
150 ft. (45 m.)

Dob — In New York: Onondaga Limestone—Seneca, Morehouse (cherty), and Clarence Limestone Members. Edgecliff cherty Limestone Member, local coral bioherms; Bois Blanc Limestone—sandy, thin, discontinuous.
In Ontario: Dundee Limestone; Lucas Formation—dolostone, limestone (Anderdon); Amherstburg Formation—limestone, dolostone, sandstone (Sylvania); Bois Blanc Formation—dolostone, limestone, sandstone (Springvale).
Do — Oriskany Sandstone.

Upper Silurian

AKRON DOLOSTONE AND SALINA GROUP
400-700 ft. (120-210 m.)

Sab — Akron Dolostone; Bertie Formation—dolostone, shale.
Scv — Camillus, Syracuse, and Vernon Formations—shale, dolostone, salt, and gypsum.

LOCKPORT GROUP
150-200 ft. (45-60 m.)

Sl — Guelph, Oak Orchard, Eramosa, and Goat Island Dolostones; Gasport Limestone—local bioherms.

Lower Silurian

CLINTON GROUP
100-150 ft. (30-45 m.)

Scl — Decew Dolostone; Rochester Shale; Irondequoit and Merriton Limestones.
Sr — Decew Dolostone; Rochester Shale.
Sik — Irondequoit Limestone; Rockway Dolostone; Hickory Corners Limestone; Neahga Shale; Kodak Sandstone.

MEDINA GROUP AND QUEENSTON FORMATION
800 ft. (250 m.)

Sm — Thorold Sandstone; Grimsby Formation—sandstone, shale; Power Glen and Cabot Head Shales; Whirlpool Sandstone.

Upper Ordovician

Oq — Queenston Shale.

ALLEGHENY LUDLUM STEEL CORPORATION

(22)

RIVER ROAD
BRACKENRIDGE, PENNSYLVANIA 15014

January 21, 1985

New York State Department
of Environmental Conservation
Region 9
600 Delaware Ave.
Buffalo, NY 14202-1073

Attention Mr. Paul D. Eisman

Re: Guterl Special Metals/Allegheny Ludlum Steel
Solid Waste Site #932032

Dear Mr. Eisman:

In accordance with our meeting in your office on May 23, we are submitting herewith the completed application forms to construct and operate a solid waste disposal facility. The facility is the existing site that was operated by Guterl. Guterl had also submitted a prior application that we understand is currently pending.

Since we intend to operate the plant in essentially the same manner as Guterl had in relation to the melting and slag disposal we would propose that the pending application be transferred to Allegheny Ludlum.

Due to the length of time and additional data that has been obtained we would appreciate the opportunity to review the details of this project with your technical personnel so we may revise the application if necessary before final action is taken. We believe that a visit to the site would be appropriate and would be happy to arrange it at your convenience.

We trust the enclosed information will be sufficient but if additional information is required please feel free to contact either myself or Mr. Reginald Buri at the Lockport Plant telephone A.C. (716) 433-4411.

Very truly yours,

A. Silvio Odasso

A. Silvio Odasso, P.E.
Dir. Env. Control

fea

Enclosure

CC: R. Buri
W. Mainwaring

APPENDIX B
PROPOSED UPDATED NYS REGISTRY SHEET

(47-15-11 (10/83)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE
INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: 2a SITE CODE: 932032

NAME OF SITE: Guterl Special Steel Corporation REGION: 9

STREET ADDRESS: 695 Ohio Street

TOWN/CITY: Lockport COUNTY: Niagara

NAME OF CURRENT OWNER OF SITE: Guterl Special Steel Corp.

ADDRESS OF CURRENT OWNER OF SITE: 695 Ohio St, Lockport, NY 10494

TYPE OF SITE: OPEN DUMP ☐ STRUCTURE ☐ LAGOON ☐
LANDFILL [x] TREATMENT POND ☐

ESTIMATED SIZE: 8.6+ ACRES

SITE DESCRIPTION:

The site is located in an industrial zoned area on the western edge of the City of Lockport. Slag, baghouse dust and foundry sand were disposed of in the landfill from 1962 to 1981. The site has been graded and has a slope of 2 to 4%. Groundwater occurs in contact with deposited wastes, but the aquifer is currently unused.

HAZARDOUS WASTE DISPOSED: CONFIRMED [x] SUSPECTED ☐

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE	QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
Baghouse Dust	unknown
Foundry Sands	
Slag (containing chromium and nickel)	

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

_____, 19 62 TO _____, 19 81

OWNER(S) DURING PERIOD OF USE: Simonds Saw & Steel - Guterl Spec. Steel Corp.

SITE OPERATOR DURING PERIOD OF USE: Simonds; Guterl

ADDRESS OF SITE OPERATOR: 695 Ohio St., Lockport, NY 14094

ANALYTICAL DATA AVAILABLE: AIR ☐ SURFACE WATER ☐ GROUNDWATER [x]
SOIL ☐ SEDIMENT ☐ NONE ☐

CONTRAVENTION OF STANDARDS: GROUNDWATER [x] DRINKING WATER ☐
SURFACE WATER ☐ AIR ☐

SOIL TYPE: Fill over till deposits

DEPTH TO GROUNDWATER TABLE: 1-1/2 to 3-1/2 feet

LEGAL ACTION: TYPE: _____ STATE ☐ FEDERAL ☐
STATUS: IN PROGRESS ☐ COMPLETED ☐
REMEDIAL ACTION: PROPOSED ☐ UNDER DESIGN ☐
IN PROGRESS ☐ COMPLETED [x]

NATURE OF ACTION: Removal of reuseable ores

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

None known to exist at site.

ASSESSMENT OF HEALTH PROBLEMS:

None known to exist at site.

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME _____
TITLE _____
NAME _____
TITLE _____
DATE: _____

NEW YORK STATE DEPARTMENT OF HEALTH

NAME _____
TITLE _____
NAME _____
TITLE _____
DATE: _____