4.

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Lancaster Reclaimation
Town of Lancaster

Site No. 915069 Erie County

Date: January 1986



Prepared for: New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233 Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste Norman H. Nosenchuck, P.E., Director

By:

In Association With
DAMES & MOORE

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

LANCASTER RECLAMATION, INC.

NYS SITE NUMBER 915069

TOWN OF LANCASTER

ERIE COUNTY

NEW YORK STATE

For

DIVISION OF SOLID AND HAZARDOUS WASTE

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, 1986

LANCASTER RECLAMATION, INC.

TABLE OF CONTENTS

			PAGE
SECTION	I	EXECUTIVE SUMMARY	I-1
		Site Location Map	I-4
		Site Plan	I - 5
SECTION	II	PURPOSE	II-1
SECTION	ııı	SCOPE OF WORK	III-1
SECTION	VI	SITE ASSESSMENT	IV-1
		Site History	IV-1
		Site Topography	IV-3
		Site Hydrology	IV-4
		Site Contamination	IV-6
		Sampling Locations	IV-13
SECTION	V	PRELIMINARY APPLICATION OF HAZARD RANKING SYSTEM	V - 1
		Narrative Summary	
		Site Location Map	
		HRS Worksheets	
		HRS Documentation Records and References Potential Hazardous Waste Site -	
		Preliminary Assessment	
		Potential Hazardous Waste Site -	
		Site Inspection Report	
SECTION	ΛI	ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS	VI-1
		Assessment of Data Adequacy	VI-1
		Phase II Work Plan	VI-1
		Phase II Cost Estimate	
APPENDIX	ζ A	Sources Contacted	
		References	
APPENDIX	ďВ	PROPOSED UPDATED NYS REGISTRY	

SECTION I

EXECUTIVE SUMMARY LANCASTER RECLAMATION, INC.

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC), presents the results of the Phase I investigation of the Lancaster Reclamation, Inc., site (NYS Site Number 915069, EPA Site Number D000513911), located in the Town of Lancaster, Erie County, New York (see Figure I-1).

SITE BACKGROUND

The 13-acre Lancaster Reclamation site was purchased in 1976 by Lancaster Reclamation, Inc. (owned by John Ferry) from Rose Pietruszewski. Ferry Construction Company, also owned by Mr. Ferry, aided in the initial permitting of the site; however, Ferry Construction Company never held any ownership interest in the site.

Since 1976, the site, consisting of four surface impoundments, has been used for the in-situ dewatering and land disposal of various sludges and solid wastes, including bentonite clay slurry, foundry sand and foundry sand slurry, cement, asbestos and glass fiber slurry, surface print waste, prepaste polymer, prepaste alkali, shot blast steel castings, and dirt and sludge from bus garage catch basins (Ferry, 1985). Approximately 52,000 cubic yards of waste are estimated to have been disposed of at the site. Leachate analyses of these wastes have indicated the presence of heavy metals and some organics (phenols and PCBs). Limited analyses of groundwater and surface water have shown the presence of phenols.

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 facilities 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 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).
- o $S_{\mbox{\scriptsize FE}}$ reflects the potential for harm from substances that can explode or cause fires.
- o 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:

$$S_{M} = 3.75$$
 $S_{A} = 0$ $S_{GW} = 4.08$ $S_{FE} = 0$ $S_{SW} = 5.04$ $S_{DC} = 25.0$

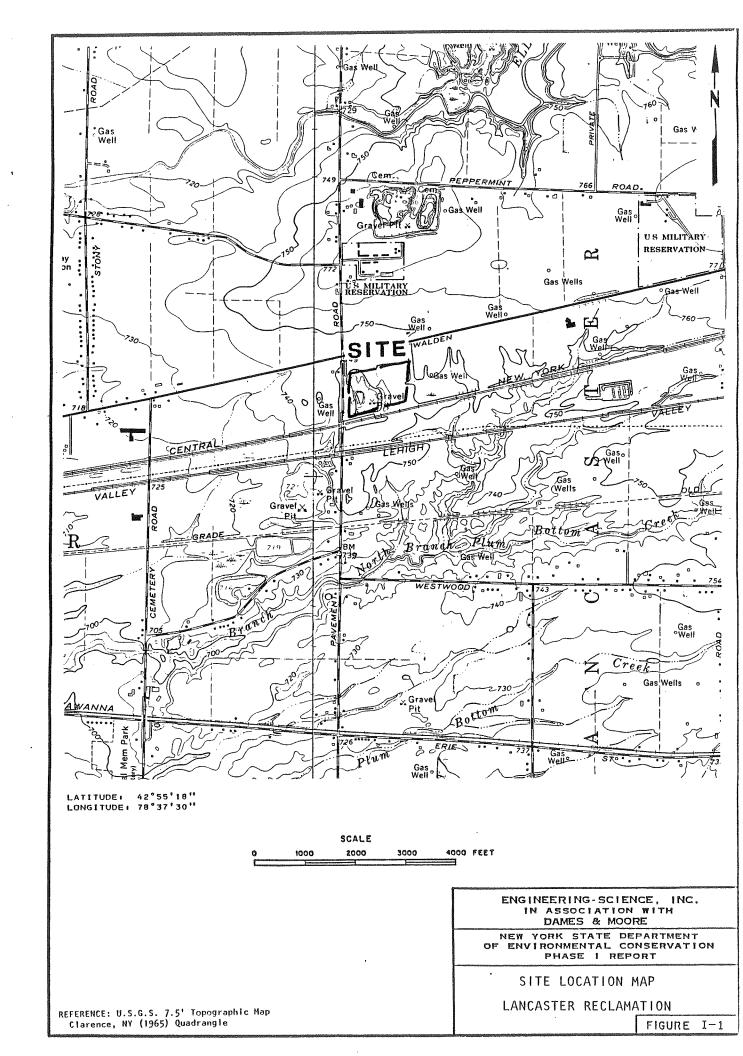
These scores reflect the potentially toxic nature of the wastes disposed on the site and the permeability of the natural site soils. Also, the high direct contact score is due to the open and uncovered nature of the waste lagoons.

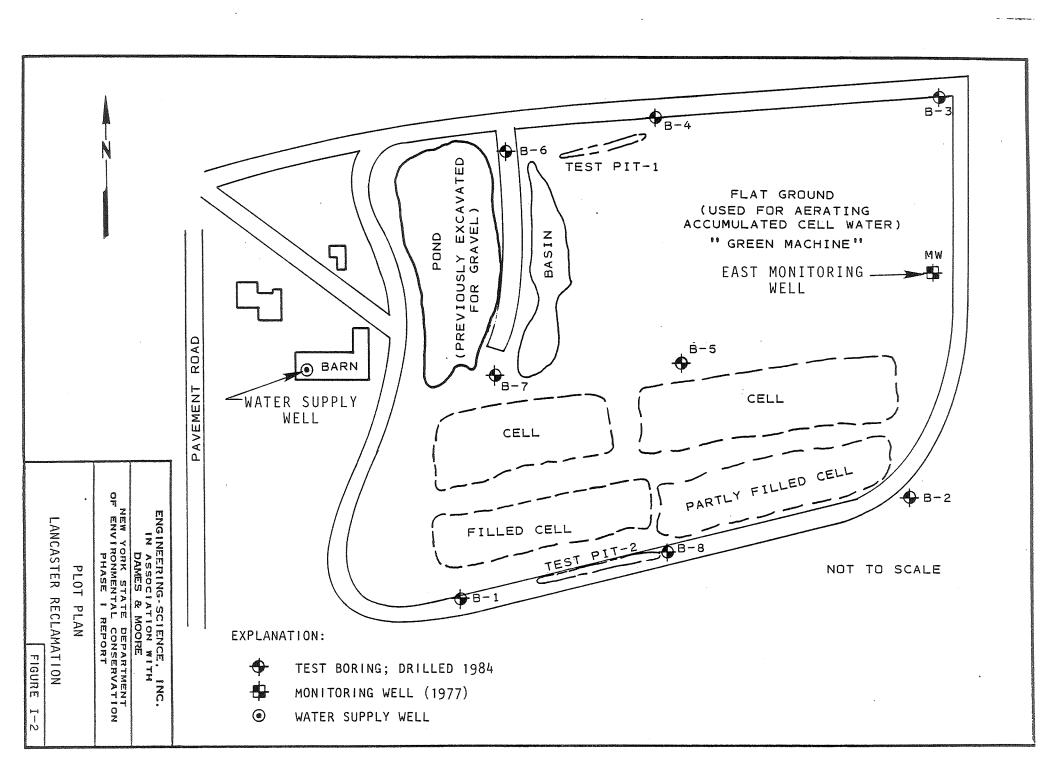
RECOMMENDATIONS

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

- o Geophysical study consisting of electrical resistivity survey.
- o Groundwater monitoring system consisting of one upgradient and three downgradient wells.
- o Surface water and sediment monitoring system consisting of two monitoring stations.
- o Sampling of pooled water in two of the surface impoundments.
- o Sample analyses to include priority pollutants.

The estimated man-hour requirements to complete Phase II are 864, while the estimated cost is \$58,188.





SECTION II

PURPOSE

The purpose of the Phase I investigation at the Lancaster Reclamation, Inc. 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 toxicological, environmental, chemical, geological, numerous 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. investigation at this site focused on the disposal of various sludges Based on this initial evaluation of the and solid wastes on-site. Lancaster Reclamation, Inc. site, a Phase II Work Plan has been prepared for collecting any additional data needed to complete the HRS score. In addition, a cost estimated 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 all 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 third 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 13-acre Lancaster Reclamation, Inc. site, consisting of four surface impoundments, has been owned by Lancaster Reclamation, Inc. since May 1976. Prior to 1976, the site was the property of Rose Pietruszewski. Initial paper work for the construction of the site (e.g., permit application and permit to construct) was in the name of Ferry Construction Co., Inc.; however, Ferry Construction never actually owned the site. Both companies (Ferry Construction and Lancaster Reclamation, Inc.) are owned by Mr. John Ferry.

From 1976 to the present, Lancaster Reclamation, Inc. has used the site for land disposal of several types of industrial wastes including bentonite clay slurry, cement and asbestos slurry, foundry sand, wall-paper production wastes, and oily sludge, as discussed below.

In October, 1975, Ferry Construction began land disposal operations. Industrial wastes disposed of on-site include, bentonite clay slurry and foundry sand generated by Dresser Industries located in the Village of Depew, New York. In 1976, Ferry Construction disposed of clay slurry and foundry sand in an on-site surface impoundment (Permit #15508). The bentonite slurry, containing approximately 90% water, was dewatered by the introduction of air to promote evaporation. Once the liquid content reached 20%, the remaining material was leveled and the method repeated (Wendel Engineers, 1976).

In January 1978, Lancaster Reclamation, Inc. was given permission by the NYSDEC to dispose of foundry sand slurry consisting of fine sand, bentonite clay, metal oxides, coke ash and carbon at the Lancaster site (NYSDEC, 1978). The waste was generated by the Chevrolet Motor Division of General Motors (Tonawanda, NY); Ken Staub Jr. Trucking Company was the waste hauler. This slurry was also dewatered prior to landfilling by evaporation.

In January 1979, the NYSDEC agreed to allow Lancaster Reclamation, Inc. to landfill on-site, a slurry produced by Fabritron (Alden, NY), which contained cement, asbestos fibers, and glass fibers (NYSDEC, 1979). However, as a result of objections raised by the Town of Lancaster, the disposal of asbestos wastes on-site was curtailed in June 1979 (Wendel Engineers, 1979).

In October 1979, the NYSDEC renewed an operating permit (#2021) for a restricted use landfill on the provision that a monitoring well be installed at the site (NYSDEC, 1979). By February 1980, the installation of a well in the eastern section of the site had been completed (Wendel Engineers, 1980). This new well, in addition to an existing well, are periodically monitored and analytical results are submitted to the NYSDEC. Both wells are installed in bedrock, however, it is believed that the east well only monitors surface water recharge (Wendel Engineers, 1984).

In October 1979, the NYSDEC granted a modification to Permit #2021 (#2290) to allow the landfilling of residual dust from shot blast collector systems (NYSDEC, 1980) at the Lancaster site. The Town of Lancaster also granted a zoning compliance certificate to allow the disposal of shot blast dust at the Lancaster facility (Town of Lancaster, 1980). The shot blast dust was generated by Dresser Industries and Ferry Construction Company was the waste hauler.

In June 1981, the NYSDEC modified the landfill operation permit #2021 to allow the acceptance of wallpaper production waste at the site. The Town of Lancaster also approved the waste in a certificate of zoning

compliance dated 24 June 1981. The wallpaper waste consists of surface print waste, prepaste alkali and prepaste polymer. Reed Holdings, Inc. (Buffalo, NY) generated the wastes and contracted Lancaster Reclamation, Inc. to transport the wastes to the Lancaster site (NYSDEC, 1981).

In 1982 and 1983, Lancaster Reclamation, Inc. received permission from the NYSDEC to dispose on-site, oily sludges removed from bus garage catch basins (NYSDEC, 1982).

In June 1984, Lancaster Reclamation, Inc. proposed to abandon the east monitoring well due to possible contamination of the well water by surface waters. Two new monitoring wells were proposed to monitor groundwater quality and establish groundwater flow patterns on the site (Wendel Engineers, 1984). In August 1984, Buffalo Drilling Company submitted a proposal for a groundwater monitoring system (Buffalo Drilling Company, 1984). In November 1984, the NYSDEC requested additional groundwater data before granting a renewal of the Lancaster Reclamation, Inc. Permit (NYSDEC, 1984). As a result, the Lancaster Reclamation site has not received waste in the recent past.

SITE TOPOGRAPHY

Lancaster Reclamation, Inc. is located in the Town of Lancaster, Erie County, New York State. The original ground surface was relatively flat; however, excavation in the northeastern quadrant of the site (used as a gravel quarry) has resulted in a large double pond in that area. Four disposal cells exist in the southwest and southeast quadrants of the site. The southwestern-most of these cells is completely filled with waste materials. The southeastern-most is partially filled and, along with two remaining open cells, contains ponded water. The northeast quadrant of the site remains a natural ground surface and is used for aerating accumulated pond water (called "green machine" area by site owner).

East of the site is the Lancaster private airport. South of the site are AMTRAK train tracks. West of the site is Pavement Road. On

the site is the residence of one of the site owners. There is a deep well in the barn of this residence.

Local Sensitive Environments

There are no nearby wetlands nor critical habitats for endangered species.

SITE HYDROLOGY

This summary of site hydrology is based on information from USGS Topographic Maps, NYS Museum and Science Service Bedrock Geology Map and Quaternary Geology Map, recent site visit (1985), and subsurface information from J. Barron (1984).

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. Most of the rocks are deep aquifers with regional flow to the south.

In the recent past, most of New York State, including the site, has been repeatedly covered by a series of continental ice sheets. The activity of the glacier widened preexisting 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. The Erie County region is covered by lake sediments; the most recent being from Lake Warren (a larger predecessor to Lake Ontario and Lake Erie). The sediments consist of blanket sands and beach ridges which are occasionally underlain by lacustrine silts and clays (indicating quiet, deeper water deposition).

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

Bedrock beneath the site is expected to be the lower part of the Onondaga Limestone, occurring at an elevation of approximately 682 feet (MSL). This places the top-of-rock surface at approximately 50 feet below the natural ground surface.

Overlying the bedrock surface there is a thin layer of dense glacial till which, in turn, is overlain by a thick sequence of stratified sands, gravels, and clays. These water-lain deposits are a combination of typical stagnant ice and outwash materials. The geographic location of the site also suggests these origins for this sediment, as it occurs along a theoretical eastern extension of the Buffalo moraine.

Prior to excavation on the site, there may have been numerous water-bearing soil layers, each isolated from the others by interbedded clay and silt layers. Since excavation and waste disposal, pathways for interconnection between soil aquifers have probably been created.

Additionally, if excavation extended to the bedrock surface, then a connection between soil and bedrock aquifers may also exist. For HRS scoring, the permeability of the unsaturated zone has been estimated to range from 10^{-3} cm/sec to 10^{-5} cm/sec.

SITE CONTAMINATION

The 13-acre Lancaster Reclamation, Inc. site has been used as an industrial waste landfill since 1976. The waste types and quantities of waste disposed at the site are presented in Table IV-1. Also shown are hazardous constituents of concern. A detailed constituent analysis of each waste is given in the Appendix.

Beginning in 1976, Lancaster Reclamation, Inc. landfilled on-site, bentonite clay slurry and foundry sand in four excavated lagoons on the southern portion of the site (see Figure IV-1). The bentonite slurry contained 90% water (Frontier Chemicals, 1976); 96,000 cubic yards were placed in the lagoons and dewatered by evaporation prior to burial. In the 1980's the Foundry sand was also used to thicken the slurry. clay slurry was thickened before landfilling (Ferry, 1985). data on filtrate (i.e., water fraction) of the slurry indicates the presence of zinc, chlorides and TOC (see Appendix) (Chevrolet Central Labs, 1976). The concentration of zinc exceeds the limits for discharge to groundwaters in New York State. A leachate test also found significant concentrations of phenol in the foundry sand that was landfilled with the clay slurry. Both the bentonite slurry and the foundry sand wastes were generated by Dresser Industries (Wendel Engineers, 1976).

Beginning in 1978, approximately 1.7 million gallons of foundry sand slurry were placed in the lagoon (Ferry, 1985). The slurry consisted of sand fines produced from foundry wastewater treatment at the Chevrolet Division of General Motors in Tonawanda, New York. The slurry contained 65% water and dewatering was accomplished by (1) injecting air into the waste to promote evaporation, or (2) decanting the liquid and applying it on the land by spray irrigation (Wendel Engineers, 1979). An analysis of several waste streams contained in the slurry found significant amounts of oil (up to 21,000 ppb) and detectable amounts of PCBs. Leachate tests also revealed concentrations of selenium, cadmium, and lead in excess of New York State's discharge limits to groundwaters; however, concentrations in leachate did not exceed the levels established for EP toxicity.

Beginning in January 1979, an asbestos-containing waste slurry consisting of 20% portland cement, 5% asbestos, 10% glass fibers and 65% water was pumped into the waste lagoons (Fabritron, 1979). The slurry was dewatered using the same techniques described for the bentonite and foundry sand slurries. Aware that the spray irrigation and air sparging methods could potentially increase the potential for airborne entrainment of asbestos, the Town Board of the Town of Lancaster restricted the disposal of the asbestos slurry in June 1979. By then, a total of 7,000 gallons of the asbestos slurry had been disposed at the facility (Ferry, 1985).

In October 1980, Lancaster Reclamation, Inc. began accepting shot blast dust generated from steel casting operations at Dresser Industries. Prior to disposal, the shot blast was mixed with foundry sand. The estimated quantity of this shot blast dust is included in the estimated for the foundry sand presented in Table IV-1. A leachate analysis of the shot blast dust found concentrations of phenol in excess of NYS limits for discharge to groundwaters (J-Labs, 1980).

Starting in June 1981, Lancaster Reclamation, Inc. received 120,000 gallons of wallpaper production wastes from Reed Holdings, Inc. (Ferry, 1985). The wastes included surface print waste, prepaste polymer and prepaste alkali (ARO, 1981). A description of the compostiion of each waste type is presented in the Appendix. EP Toxicity tests were also conducted on each waste and results of the tests show that the contaminants analyzed for were below the test limits. However, other organic pollutants which may be present (e.g., solvents) in these wastes were not tested for.

In 1982, an unknown quantity of foundry sands and sludge wastes from the McGraw-Edison Company were disposed at the Lancaster Reclamation Landfill. These wastes contained concentrations of phenols of 1.60 and 8.83, respectively (Worthington, 1984).

In 1982 and 1983, Lancaster Reclamation, Inc. disposed 9,000 cubic yards of oil sludge from bus garage catch basins (Ferry, 1985). These

sludges were received from the Sweet Home Central School and Ormsby Vocational School bus garages. The oil and grease content of the Sweet Home Central School sludge was 3.07% (ARO, 1982). To prevent oil from leaching from the waste, the NYSDEC requested that Lancaster Reclamation, Inc. mix the oily sludge with diatomaceous earth (NYSDEC, 1982).

Since 1980, Lancaster Reclamation, Inc. has conducted semi-annual water analyses of surface water and groundwater. Surface waters from the southeast lagoon and an aerated basin in the northeast portion of the site called the "green machine" were included. During these sampling efforts, groundwater samples were collected from a monitoring well in the eastern portion of the site and a deep water supply well located in an on-site barn. Samples were sent to ARO Corporation Environmental Laboratory for analysis of conductivity, pH, phenols, TOC and iron.

Presented in Table IV-2 are the analytical results for phenol and TOC of the groundwater monitoring conducted at the Lancaster Reclamation site from January 1980 until March 1984. The concentrations of phenols in the west well are below the water quality standards for Class GA groundwater standards with the exception of one sampling event conducted in February 1981 (0.003 mg/l). However, the west well occurs in the deep bedrock aquifer which may not be hydraulically connected to the lagoon waters containing higher concentrations of phenols (Wendel Engineers, 1984) (see Table IV-3).

The concentrations of phenol in the east well are higher as compared to the west well. Phenol concentrations have exceeded the Class GA groundwater standards for all but one of the sampling events over the same period of time. However, the east well occurs in a shallow aquifer which is more likely to be hydraulically connected to the contaminated cell and surface waters. Therefore, it is uncertain if the phenol contamination in the west well is attributable to the Lancaster Reclamation site.

Presented in Table IV-3 are the results for phenols and TOC of surface water monitoring conducted at the Lancaster Reclamation site.

As indicated in the table, the concentration of phenols in some of the surface impoundments has exceeded the water quality standards for Class GA waters in New York State on several of the sampling events. However, with the exception of these excursions, the concentrations of phenols are low. TOC concentrations are also generally found at insignificant concentrations in the surface impoundments.

The presence of several priority pollutants (i.e., selenium, lead, and PCBs) in the test leachates of on-site wastes suggests a potential for surface water and groundwater contamination by these constituents. However, the current monitoring program does not include priority pollutant analyses other than phenols.

HNU meter readings were taken during a recent site inspection (ES and D&M, 1985) and all measurements were less than 1 ppm, indicating a lack of potential air contamination.

TABLE IV-1
SUMMARY OF WASTES DISPOSED OF AT THE LANCASTER RECLAMATION, INC. SITE

Date Perm Approved		Waste Type	Quantity Disposed ^a	Constituents of Concern
5/11/76	Dresser Trans- portation Equip- ment Division	Bentonite Clay Slurry	76,000 cu.yd. prior to thickening; 165 after thickening.	Leachate: zinc
1/24/78	Chevrolet Division, General Motors	Foundry Sand Slurry	1.7 million gallons	Pit: oil Pit Leachate: selenium, cadmium Mixture: oil, PCB Mixture leachate: cadmium, lead
1/4/79	Fabritron	Cement, asbestos, and glass fiber slurry	7,000 gallons	Asbestos
5/11/76	Dresser Trans- portation Equip- ment Division	Foundry Sand	2,200 cu.yd.	Leachate: phenols
6/16/81	Reed Holdings,	Surface print waste, pre- paste polymer prepast alkal		
10/29/80	Dresser Trans- portation Equip- ment Division	Shot blast of steel castings	Mixed with foundry sand	Leachate: phenols
5/27/82	Sweet Home Cen- tral School Bus Garage	Dirt and sludge from catch basin	See below	Sluge: oil
7/7/83	Ormsby Voca- cational School Bus Garage	Dirt and sludge from catch basin	9,000 cu.yd., includes Sweet Home	Heavy metals and oil and grease

Based on telephone interview with J. Ferry of Lancaster Reclamation, Inc., 4/25/85.

TABLE IV-2

SUMMARY OF GROUNDWATER DATA FOR SELECTED PARAMETERS
FOR THE LANCASTER RECLAMATION SITE

Parameter (mg/l)	Groundwater Quality Standards ^a	East Well	West Well
March 1984			
Phenol	0.001	< 0.09	< 0.001
TOC	NO NO NO	18.8	13.2
June 1983			
Phenol	0.001	0.010	< 0.001
TOC	map make spo	8.4	9.1
July 1983			
Phenol	0.001	< 0.001	< 0.001
TOC		7.9	3.7
April 1982			
Phenol	0.001	0.040	< 0.001
TOC	~ ~ ~	11.2	3.8
August 1981	2 224		. 0 004
Phenol	0.001	< 0.001	< 0.001
TOC	Note that	1.0	16.5
ebruary 1981	2 224	2.212	2 222
Phenol	0.001	0.010	0.003
TOC	-m mel dia	6.5	3.0
etober 1981 Phenol	0.001	0.044	< 0.001
	U . UU I	6.1	3.4
TOC	*40 day side	O e i	3,4
une 1980 Phenol	0.001	0.068	< 0.001
TOC	O 6 O O 1	8.0	3.4
100	was tree year	0.0	J & 43
anuary 1980 Phenol	0.001	0.125	< 0.001
TOC	0.001	8.7	22.6

SOURCE: ARO Corporation, Analytical Results for Lancaster Reclamation

Water Quality Standards for Class GA Groundwater for the State of New York.

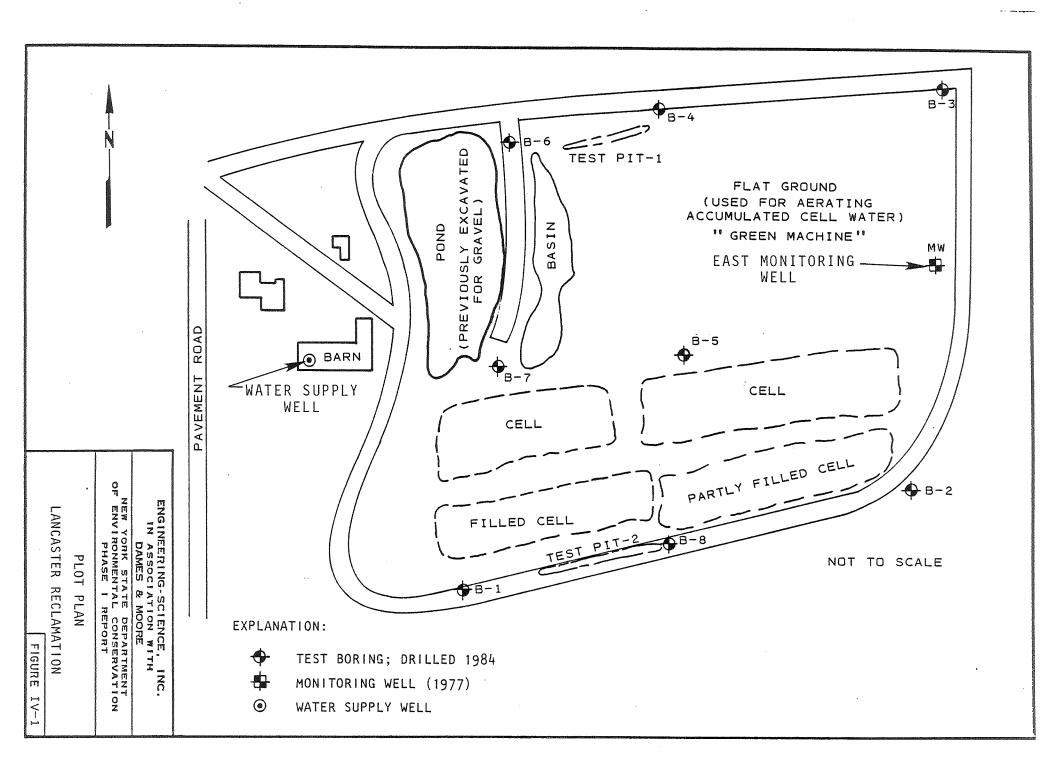
TABLE IV-3

SUMMARY OF SURFACE WATER DATA FOR SELECTED PARAMETERS
FOR THE LANCASTER RECLAMATION SITE

Parameter (mg/l)	Groundwater Quality Standards ^a		Final Pond	Southeast Cell	Green Machine
March 1984					
Phenol	0.002	<	0.001	0.023	< 0.001
TOC	even mani wana.		14.4	15.5	22.9
June 1983					
Phenol	0.002	<	0.001	0.001	< 0.001
TOC	mak ding 400		5.2	4.8	2.4
July 1983					
Phenol	0.002	,	0.001	< 0.001	< 0.001
TOC		`	3.7	32	7.9
100					. • •
April 1982					
Phenol	0.002	<	0.001	< 0.001	0.003
TOC	NAS 600 4940		7.8	11.2	7.8
August 1981					
Phenol	0.002	<	0.001	< 0.001	< 0.001
TOC	ean 642 1220		5.0	5.0	14.0
February 1981	2 222			2 225	0.040
Phenol	0.002		0.005	0.086	0.018
TOC	wide data Cutto		< 0.5	2.0	6.5
October 1981					
Phenol	0.002	<	0.001	< 0.001	< 0.001
TOC	लक्ष स्ट्रम् व्यक		9.6	6.7	2.1
Tuno 1000					
June 1980 Phenol	0.002	~	0.001	< 0.001	< 0.001
TOC	~~ ~~ ~~ ~~	`	5.0	13.0	14.0
January 1980					
Phenol	0.002	<	0.001	< 0.001	< 0.001
TOC	NAMES NAMES NAMES		30.0	24.5	27.8

SOURCE: ARO Corporation, Analytical Results for Lancaster Reclamation

Water Quality Standards for Class GA Groundwater for the State of New York.

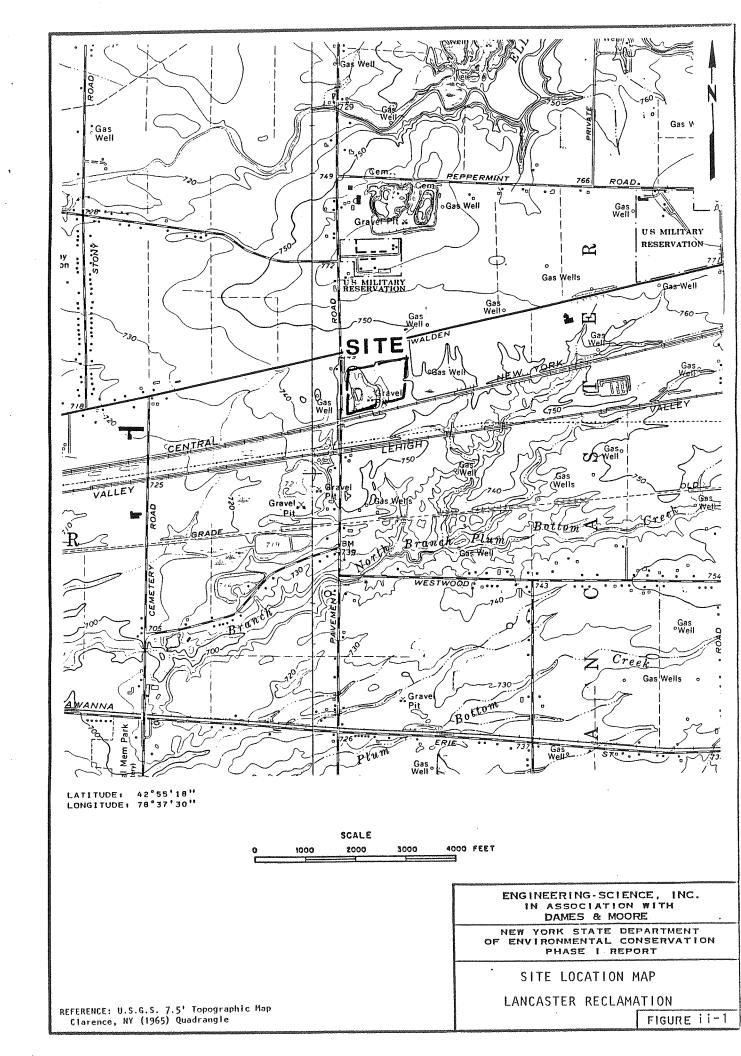


NARRATIVE SUMMARY

The 13-acre Lancaster Reclamation, Inc. site is located in the Town of Lancaster, Erie County, New York. In 1976, the site was purchased from Rose Pieturzewski by Lancaster Reclamation, Inc., owned by John The initial permit to construct was issued to the Ferry Construction Company, also owned by John Ferry; however, Ferry Construction never actually owned the site. The site has received waste since 1976 and is still active. Since 1976, the facility has been used for in-situ dewatering and land disposal of bentonite clay slurry; foundry sand and foundry sand slurry; cement, asbestos and glass fiber slurry; surface print waste, prepaste polymer, and prepaste alkali; shot blast steel castings; and dirt and sludge from garage catch basins (Ferry, 1985). Wastes are placed in on-site lagoons, dewatered by air sparging and/or decanting of the liquid fraction, which is then disposed on-site by spray irrigation (Wendel Engineers, 1979). The total amount of waste disposed is estimated at 52,000 cubic yards (ES and D&M Site Inspection, 1985).

Leachate analyses of wastes disposed at the facility have shown the presence of heavy metals (cadmium, lead, selenium, zinc) and some organics (oil, PCBs, and phenols) at measureable levels. Semi-annual groundwater sampling (specific conductivity, TOC pH, phenols, and iron) indicated the presence of phenols in the east well which occurs in the shallow groundwater aquifer. Phenol concentrations in the west well which occur in the deep bedrock do not exceed Class GA water quality standards with the exception of one sampling event. In general, surface water samples showed lower concentrations of phenols (below detection limits) in most cases. Groundwater is encountered within 8 to 10 feet of the surface and ponded water has been observed on the site, suggesting a perched water table.

HNu sampling conducted at the site did not show the presence of volatile organics above levels of 1 ppm (ES and D&M Site Inspection, 1985).



HRS COVER SHEET

Facility	Name:	Lancaster	Reclamation,	Inc.
58.00 1 200 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

Location: 403 Pavement Rd., Town of Lancaster, Erie County, New York

EPA Region: II

Person(s) in charge of the facility: J. Ferry, Managing Engineer

Name of Reviewer: S. Robert Steele, II Date: 4/26/85

General Description of the facility:

The Lancaster Reclamation, Inc., site has been in operation since 1976 for the in-situ dewatering and land disposal of various industrial wastes. An estimated 52,000 cubic yards of slurry wastes have been disposed on-site. Leachate analyses of wastes disposed on-site indicate the presence of heavy metals (cadmium, lead, selenium, zinc) and organics (oils, PCBs and phenols). Semi-annual groundwater sampling has detected the presence of phenols in the shallow on-site well. Low concentrations of phenols have been detected in both the surface water (surface impoundments) and the on-site deep groundwater monitoring well. However, no upgradient/downgradient water quality comparisons can be made with the existing wells on-site.

Scores:
$$S_{M} = 3.75$$
 $(S_{gw} = 4.08 S_{sw} = 5.04 S_{a} = 0)$ $S_{FE} = 0$ $S_{DC} = 25.00$

Facility	Name: /ancaster	Reclamation	Date:	5/23/85	
	-6-44			,	

Ground Water Route Work Sheet										
Rating Factor		ed Value :le One)	Multi- plier	Score	Max. Score	Ref. (Section)				
1 Observed Release	0	45	1		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				±1		3.2				
Depth to Aquifer of Concern	0 1	2 ③	2	6	6					
Net Precipitation Permeability of the	0 1 0 1	2 3 2 3	1	2	3	9				
Unsaturated Zone Physical State	0 1	2 3	1	3	3					
Total Route	Characte	eristics Sc	ore	13	15					
3 Containment	0 1	2 ③	1	3	3	3.3				
4 Waste Characteristics						3.4				
Toxicity/Persistence Hazardous Waste Quantity	0 3 0 1	6 9 (12) 15 1 2 3 4 5 6 7	8 1	12	18 8					
Total Waste	Characte	ristics Sco	re	20	26					
5 Targets		06				3.5				
Ground Water Use Distance to Nearest Well/Population Served	12 16	2 3 6 8 10 18 20 32 35 40	3	3	9 40	_				
Total Targets Score 3 49										
6 If line 1 is 45, multiply 1 x 4 x 5 2,340 57,330										
7 Divide line 6 by 57	,330 and	multiply b	ру 100	s _{gw} =	4.08					

GROUND WATER ROUTE WORK SHEET

Surface 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	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		ŧ			4.2					
Facility Slope and	0 1 2 3	1	0	3						
Intervening Terrain 1-yr. 24-hr. Rainfal Distance to Nearest		1 2	2 4	3 6						
Surface Water Physical State	0 1 2 3	1	3	3						
Total Route	Characteristics S	Score	9	15						
3 Containment	0 1 2 3	1	3	3	4.3					
4 Waste Characteristics	9500 34-03-4 i a				4.4					
Toxicity/Persistence	0 3 6 9 12 1	5 18 1	12	18						
Hazardous Waste Quantity	0 1 2 3 4 5		8	8	_					
Total Waste	Characteristics	Score	20	26						
5 Targets					4.5					
Surface Water Use Distance to a Sensit	0 1 2 3 tive 0 1 2 3	3 2	60	9 6						
Environment Population Served/ Distance to Water Intake Downstream	0 4 6 8 12 16 18 20	10 1 40	0	40	_,					
Total	Targets Score		6	55						
6 If line 1 is 45, mu			3 240	64,350						
7 Divide line 6 by 6	4,350 and multip	у Ьу 100	S _{sw} =	5.04						

SURFACE WATER ROUTE WORK SHEET

Facility Name: Lancuster Reclamation Date: 5/23/85

Air Route Work Sheet									
Rating Factor		ed Value le One)	Multi- plier	Score	Max. Score	Ref. (Section)			
1 Observed Release	0	45	1	0	45	5.1			
Date and Location:									
Sampling Protocol:									
	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	0 1	2 3	1		3				
Incompatibility Toxicity Hazardous Waste	0 1 0 1 2	2 3 3 4 5 6 7 8	3 1		9				
Total Wast	e Characte	ristics Score			20				
3 Targets						5.3			
Population Within	0 9	12 15 18	1		30				
Distance to Sensitive	21 24 0 1	2 / 30	2		6				
Environment Land Use	0 1	2 3	1		3				
Total Tar	gets Score				39				
4 Multiply 1 x 2 x [3			0	35,100				
5 Divide line 4 by 35,	100 and mu	ltiply by 100)	s _a ~= o		-			

AIR ROUTE WORK SHEET

Facility Name: Lancuster Reclamation Date: 5/23/85

Worksheet for Computing S_{M}

	S ,	s²
Groundwater Route Score (S _{gw})	4.08	16.65
Surface Water Route Score (S _{sw})	5.04	25.40
Air Route Score (S _a)	0,0.	
$s_{gw}^2 + s_{sw}^2 + s_a^2$		42.05
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		6.49
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		3.75

WORK SHEET FOR COMPUTING SM

Fire and Explosion Work Sheet .										
Rating Factor	A		gne	d Va	a l ue	- M	Multi-	Score	Max. Score	Ref. (Section)
Containment	1		15	3			1		3	7.1
Waste Characteristics			Color of							7.2
Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0	1 1 1 1 2	2	3	6	78	1 1 1 1	8	3 3 3 3 8	
Total Wast	e Ch	ara	cte	ris	tic	s S	core		20	
3 Targets										7.3
Distance to Nearest	0	1	2	3	4	5	1		5	
Population Distance to Nearest	0	1	2	3			1		3	
Building Distance to Sensitive	0	1	2	3			1		3	
Environment Land Use Population Within	0	1 1	2	3	4	5	1		3 5	
2-Mile Radius 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 1,4	40 ar	nd n	nu l 1	tip	ly b	y 1	00	S _{FE}	= 0	

FIRE AND EXPLOSION WORK SHEET

Facility Name: Lancaster Roclamation Date: 5/23/85

Direct Contact Work Sheet									
Rating Factor		ed Value le One)	Multi- plier	Score	Max. Score	Ref. (Section)			
1 Observed Incident	0	45	1	0	45	8.1			
If line 1 is 45, pro If line 1 is 0, proc									
2 Accessibility	0 1	2 (3)	ì	3	3	8.2			
3 Containment	0 (15) .	1	15		8.3			
Waste Characteristics Toxicity	0 1	2 ③	5	15	15	8.4			
5 Targets						8.5			
Population Within	0 1 (2) 3 4	5 4	8	20				
1-Mile Radius Distance to a	0 1	2 3	4	0	12				
Critical Habitat									
Total Ta	rgets Sco	re		8	32				
6 If line 1 is 45, mul	W 10			5400	21,600				
7 Divide line 6 by 21,	600 and m	ultiply t	ру 100	S _{DC} =	= 25.00				

DIRECT CONTACT WORK SHEET

$\begin{array}{c} {\tt DOCUMENTATION} & {\tt RECORDS} \\ {\tt FOR} \\ {\tt HAZARD} & {\tt RANKING} & {\tt SYSTEM} \end{array}$

FACILITY N	AME: Lanc	caster Rec	lamation,	Inc.		
LOCATION:	Pavement	Rd., Town	of Lanca	ster, Erie	County, New	York

GROUNDWATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

Phenol detected at concentrations exceeding the water quality standards for Class GA waters in the State of New York.

Rationale for attributing the contaminants to the facility:

Contaminants not attributed to site due to the lack of upgradient/downgradient water quality comparison of the site. The east and west wells are thought to be monitoring different water bearing zones. The west well, a water supply well, is located in the bedrock aquifer; while the east well is located in a shallow aquifer. Therefore, for HRS scoring purposes, the groundwater data cannot be used to score an observed release.

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

Outwash aquifer of interbedded sand and gravel at 8 to 10 feet (ECDEP, Memo from C. O'Connor to D. Campbell, 11/81).

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

Approximately 8 feet (based on current topography) (Wendel Engineers, June, 1979). Note that this measurement was at a well in a topographically lower section of the property. Therefore, depth to the highest seasonal water could be as much as 8 to 12 feet.

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

Approximately 20 feet (ES and D&M Site Visit, 3/21/85). The depth of the on-site lagoons is estimated to be 20 feet. Two of the four lagoons are presently filled with the various waste materials. The two remaining lagoons contained water when the site visit was conducted. Therefore, it can be assumed that the wastes are filled at or below the highest seasonal water table.

Net Precipitation

(US Department of Commerce, National Climatic Center, Climatic Atlas of the United States, 1979)

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

Mean annual precipitation is 36".

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

Mean annual lake evaporation is 27".

Net precipitation (subtract the above figures):

$$9" (36" - 27" = 9").$$

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Site was originally a gravel pit. The soils remaining are generally silt, sands and gravels interbedded with clays (ECDEP, Memo from C. O'Connor to D. Campbell, 11/81).

Permeability associated with soil type

- 1. Silty sand: 10^{-3} to 10^{-5} cm/sec.
- 2. Clay: 10⁻⁷ cm/sec.

(Freeze, R.A., and Cherry, J.A. Groundwater, 1979).

Physical State

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

Liquid (NYSDEC Registry Sheet, 12/83).

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Open, unlined lagoon (ES and D&M Site Visit, 1985).

Method with highest score:

Open, unlined lagoon - 3 (ES and D&M Site Visit, 1985).

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Oil, PCBs, phenols, 1,1,1-trichloroethane (suspected), cadmium, lead, selenium, zinc, and asbestos. Data were evaluated for several of the wastes from various sources including ARO Corporation, 1981; Chevrolet Central Laboratories, 1980; Fabritron, 1979; Frontier Chemical Waste Process, Inc., 1976; J-Labs, Inc.; and applications submitted to the NYSDEC from Lancaster Reclamation for the disposal of industrial or hazardous wastes (see appendix).

Compound with highest score:

Phenols - 12; ARO Corporation. Note: phenols have been detected in groundwater and surface water samples collected from the site. The other compounds evaluated are suspected but have not been analyzed for in samples collected at the Lancaster Reclamation site and cannot be used for HRS scoring purposes.

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):

An estimated 52,000 cubic yards of solid material (after dewatering) containing various hazardous waste constituents (including phenol) have been disposed on-site.

Basis of estimating and/or computing waste quantity:

Lancaster Reclamation, Inc. records (Interview with J. Ferry, Lancaster Reclamation, Inc., 4/26/85; and NYSDEC Application for Treatment or Disposal of an Industrial or Hazardous Waste Stream, 1978 through 1984; and Letter from J. Ferry to R. Mitrey of NYSDEC, 9/30/80; and estimated dewatering capabilities as presented in the Wendel Engineers Report, 1976).

NOTE: A summary of waste disposal at the Lancaster Landfill as provided by Mr. J. Ferry, is presented in Section IV.

5. TARGETS

Ground Water Use

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

Not used, but usable (Municipal water available to all residents in the Town of Lancaster (Telephone Interview of R. Thill, Town of Lancaster, 1/17/86).

Distance to Nearest Well

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

Not applicable; municipal water is used by town residents (Telephone Interview of R. Thill, Town of Lancaster, 1/17/86).

Distance to above well or building:

Not applicable; see above reference.

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:

None within 3 miles (NYS Atlas of Community Water System Sources, 1982).

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):

Not applicable.

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

None within 3 miles (NYS Atlas of Community Water System Sources, 1982; Telephone Interview of R. Thill, Town of Lancaster, 1/17/86).

SURFACE WATER ROUTE

1. OBSERVED RELEASE

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

Low concentrations of phenols have been detected in the surface impoundments on-site.

Rationale for attributing the contaminants to the facility:

Not an observed release. No upgradient/downgradient water quality comparisons have been made and the surface waters are not migrating off-site.

2. ROUTE CHARACTERISTICS

(USGS Topographic Maps: Clarence NY - 1965; Lancaster, NY - 1965 Quadrangles)

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Less than 1.0%.

Name/description of nearest downslope surface water:

North Branch Plum Bottom Creek.

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

1.0%.

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

No (USGS Topographic Map: Clarence, NY Quadrangle, 1965).

NOTE: Water is ponded in two of the on-site lagoons. The lagoon water could be from groundwater infiltrating into the lagoons or from surface water and has no potential to migrate from the site via the surface water pathway. For HRS scoring, the lagoon water is not a surface water body.

Is the facility completely surrounded by areas of higher elevation?

No (USGS Topographic Map: Clarence, NY Quadrangle, 1965).

1-Year 24-Hour Rainfall in Inches

2.1" (U.S. Department of Commerce Technical Paper No. 40).

Distance to Nearest Downslope Surface Water

1/3 mile (USGS Topographic Map: Clarence, NY Quadrangle, 1965).

Physical State of Waste

Liquid (NYSDEC Registry Sheet, 12/83).

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Open, unlined lagoons (ES and D&M Site Visit, 1985).

Method with highest score:

Open, unlined lagoons (ES and D&M Site Visit, 1985).

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Oil, PCBs, phenols, 1,1,1-trichloroethane (suspected), cadmium, lead, selenium, zinc, and asbestos. Data were evaluated for several of the wastes from various sources including ARO Corporation, 1981; Chevrolet Central Laboratories, 1980; Fabritron, 1979; Frontier Chemical Waste Process, Inc., 1976; J-Labs, Inc.; and applications submitted to the NYSDEC from Lancaster Reclamation for the disposal of industrial or hazardous wastes (see appendix).

Compound with highest score:

Phenols - 12; ARO Corporation. Note: phenols have been detected in groundwater and surface water samples collected from the site. The other compounds evaluated above are suspected but have not been analyzed for in samples collected at the Lancaster Reclamation site. Therefore, the data cannot be used for HRS scoring purposes.

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):

An estimated 52,000 cubic yards of solid material (after dewatering) containing various hazardous waste constituents have been disposed on-site.

Basis of estimating and/or computing waste quantity:

Lancaster Reclamation, Inc. records (Interview with J. Ferry, Lancaster Reclamation, Inc., 4/26/85; and NYSDEC Application for Treatment or Disposal of an Industrial or Hazardous Waste Stream, 1978 through 1984; and Letter from J. Ferry to R. Mitrey of NYSDEC, 9/30/80; and estimated dewatering capabilities as presented in the Wendell Engineers Report, 1976).

NOTE: A summary of waste disposal at the Lancaster Landfill as provided by Mr. J. Ferry is presented in Section IV. Information from on-site interview of Mr. Ferry is presented in the USEPA Site Inspection Form 2070-13.

* * *

5. TARGETS

Surface Water Use

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

Recreation (ECDOH, Telephone Interview with R. Koczaja, 1/16/86).

Is there tidal influence?

No.

Distance to a Sensitive Environment

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

None within 2 miles (western NYS not a coastal area).

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

None within 1 mile (NYS Wetlands Maps).

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

None within 1 mile (NYSDEC Region 9, Division of Fish & Wildlife Files).

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 within specified distances (NYS Atlas of Community Water System Sources, 1982).

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

Not applicable; no surface water intakes exist within 3 miles of the site (NYS Atlas of Community Water System Sources, 1982).

Total population served:

Not applicable (see above).

Name/description of nearest of above water bodies:

North Branch Plum Bottom Creek is located approximately 1/3 mile from the site (USGS Topographic Maps: Clarence, NY, 1965; Lancaster, NY, 1965 Quadrangles).

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

Not applicable; no surface water intakes exist within 3 miles of the site.

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

No volatile organics were detected above concentrations of 1 ppm.

Date and location of detection of contaminants:

ES and D&M site visit, 3/27/85.

Methods used to detect the contaminants:

HNu meter.

Rationale for attributing the contaminants to the site:

Not applicable.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Not applicable; reactive and incompatible wastes are not known to be disposed on-site.

Most incompatible pair of compounds:

Not applicable; no incompatible compounds are known to be disposed on-site.

Toxicity

Most toxic compound:

Not applicable.

Hazardous Waste Quantity

Total quantity of hazardous waste:

An estimated 52,000 cubic yards of solid material containing various hazardous waste constituents have been disposed on-site. These wastes are known to contain phenols. However, HNu meter readings taken on-site during the ES and D&M site visit were not above background levels. Therefore, no wastes are documented to be on-site which impact the air pathway.

Basis of estimating and/or computing waste quantity:

Lancaster Reclamation, Inc. records (Interview with J. Ferry, Lancaster Reclamation, Inc., 4/26/85; and NYSDEC Application for Treatment or Disposal of an Industrial or Hazardous Waste Stream, 1978 through 1984; and Letter from J. Ferry to R. Mitrey of NYSDEC, 9/30/80; and estimated dewatering capabilities as presented in the Wendell Engineers Report, 1976).

NOTE: A summary of waste disposal at the Lancaster Landfill as provided by Mr. J. Ferry is presented in Section IV. Information from on-site interview of Mr. Ferry is presented in the USEPA Site Inspection Form 2070-13.

* * *

3. TARGETS

Population Within 4-Mile Radius

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

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

33,163 people (Complied from 1980 US Bureau of the Census Data).

Distance to a Sensitive Environment

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

None within 2 miles (western NYS not a coastal area).

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

None within 1 mile (NYS Wetlands Maps).

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

None within 1 mile (NYSDEC Region 9, Division of Fish & Wildlife Files).

Land Use

(ES and D&M Site Visit, 1985)

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

More than 1 mile.

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

More than 2 miles.

Distance to residential area, if 2 miles or less:

More than 2 miles.

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

Approximately 0.5 mile.

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

Unknown.

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

No.

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

No records were found during the Phase I investigation which indicate that a past or present fire and explosion hazard exists at the site.

Type of containment, if applicable:

* * *

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No measurements for fire or explosion were taken during the Phase I study.

Ignitability

Compound used:

Not applicable, no ignitable compounds are known to have been disposed on-site.

Reactivity

Most reactive compound:

Not applicable, no reactive compounds are known to have been disposed on-site.

Incompatibility

Most incompatible pair of compounds:

Not applicable, no incompatible compounds are known to be disposed on-site.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Not applicable, no wastes which have the potential for creating a fire or explosion hazard are known to exist on-site.

Basis of estimating and/or computing waste quantity:

For purposes of HRS scoring, a waste must have the potential for impacting the pathway being scored. No wastes are known to be disposed on-site which has the potential to create a fire or explosion hazard.

* * *

TARGETS

Distance to Nearest Population

The distance to the nearest residential area is more than 2 miles (ES and D&M Site Visit, 1985).

Distance to Nearest Building

The on-site barn is within 1/2 mile from the lagoons (ES and D&M Site Visit, 1985).

Distance to Sensitive Environment

Distance to wetlands:

None within 1 mile (NYS Wetlands Maps).

Distance to critical habitat:

None within 1 mile (NYSDEC Region 9, Division of Fish and Wildlife Files).

Land Use

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

More than 1 mile (ES and D&M Site Visit, 1985).

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

More than 2 miles (ES and D&M Site Visit, 1985).

Distance to residential area, if 2 miles or less:

More than 2 miles (ES and D&M Site Visit, 1985).

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

Approximately 0.5 miles (ES and D&M Site Visit, 1985).

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

Unknown.

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

No.

Population within 2-Mile Radius

3,586 (US Census Data, 1980).

Buildings Within 2-Mile Radius

944 buildings (USGS Topographic Maps: Clarence and Lancaster, NY Quadrangels, 1965).

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No information was found during the Phase I study which indicates that a direct contact incident occurred at the Lancaster Reclamation site from past on-site disposal activities.

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

None = 3 (ES/D&M Site Visit).

* * *

3. CONTAINMENT

Type of containment, if applicable:

Open, unlined lagoon - 3 (ES/D&M Site Visit, 1985).

* * *

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Oil, PCBs, phenols, 1,1,1-trichloroethane (suspected), cadmium, lead, slenium, zinc, and asbestos. Data were evaluated for several of the wastes from various sources including ARO Corporation, 1981; Chevrolet Central Laboratories, 1980; Fabritron, 1979; Frontier Chemical Waste Process, Inc., 1976; J-Labs, Inc.; and applications submitted to the NYSDEC from Lancaster Reclamation for the disposal of industrial or hazardous wastes (see appendix).

Compound with highest score:

Phenols - 12; ARO Corporation. Note: phenols have been detected in groundwater and surface water samples collected from the site. The other compounds evaluated above are suspected but have not been analyzed for in samples collected at the Lancaster Reclamation site. Therefore, the data cannot be used for HRS scoring purposes.

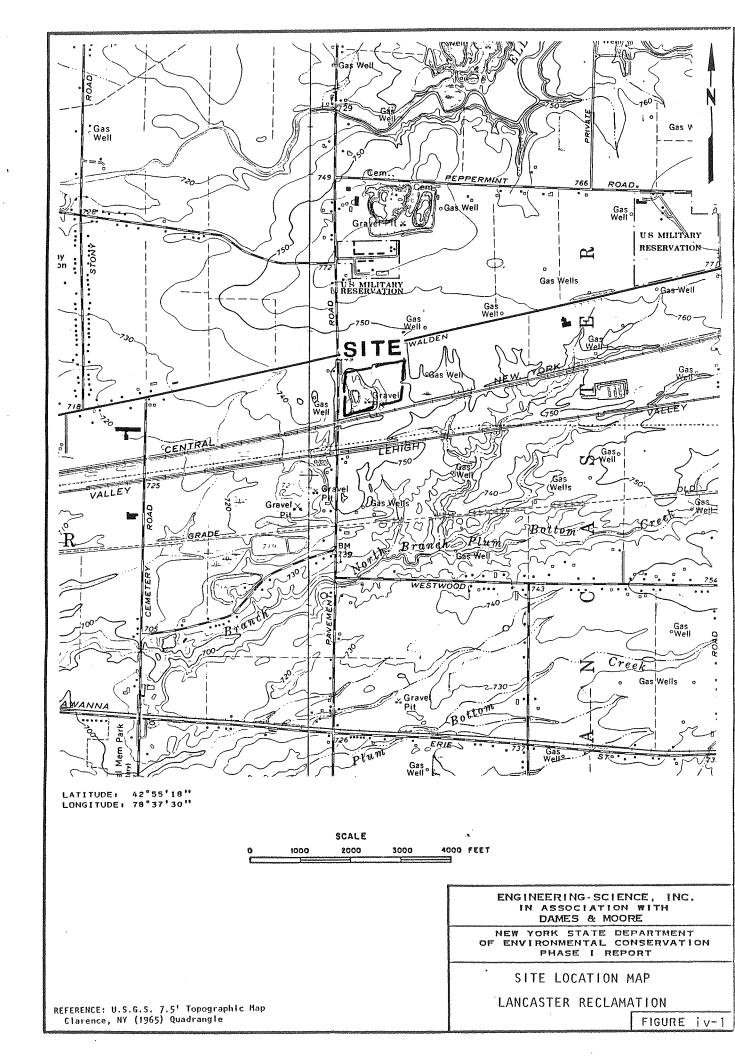
5. TARGETS

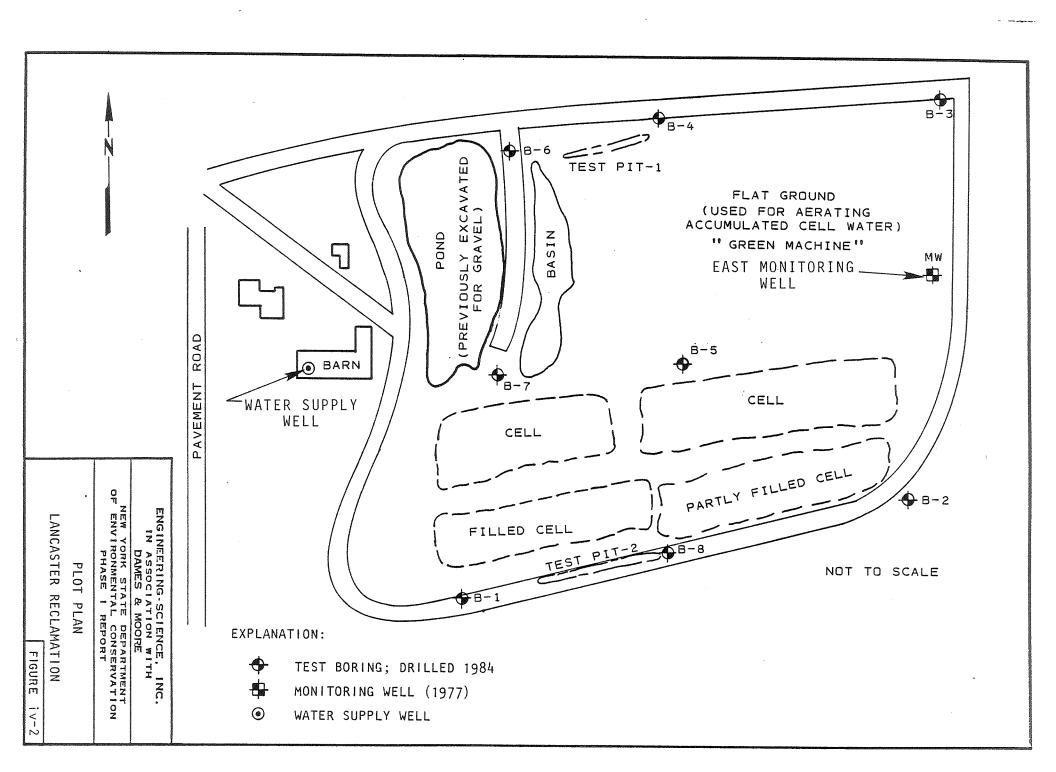
Population within one-mile radius

946 (US Census Data, 1980).

Distance to critical habitat (of endangered species)

None within one mile (NYSDEC, Region 9).





HRS REFERENCES LANCASTER RECLAMATION

- 1. ARO Corporation, Analytical Results, 6/8/82 and 3/11/81.
- Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, 1979.
- 3. ECDEP, Memo from C. O'Connor to D. Campbell, 11/17/81.
- 4. ECDOH, Telephone Interview with Ron Koczaja, 1/16/86.
- 5. Freeze, R.A., and Cherry, J. A., Groundwater, 1979.
- 6. NYS Atlas of Community Water System Sources, NYSDOH, 1982.
- 7. NYSDEC Registry Sheet, 12/83.
- 8. NYSDEC, Region 9, Division of Fish and Wildlife Files.
- 9. NYSDEC, Letter from R. Mitrey to J. Ferry, Ferry Construction Company, 12/9/81.
- 10. Town of Lancaster, Telephone Interview with R. Thill, 1/17/86.
- 11. U.S. Department of Commerce Technical Paper No. 40.
- 12. U. S. Census Data, 1980.
- 13. USGS Topographic Maps: Clarence, NY Quadrangle, 1965
- 14. Wendel Engineers, Lancaster Reclamation, Restricted Use Landfill Permit Update Report, 6/22/84.

THE ARO CC . PORATION

3695 BROADWAY, BUFFALO, N.Y. 14227

REF-1

ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

Customer	Reed Holding	s, Inc.		e de mari		Mark Mark Committee - About
ARO Laborate	ory Number 20,	028 W-2435		Custome	er P.O. # 26	82
	cted 2/26/81				Reported	
Sampling Point	nt/Description	Prepaste	Polym	er		
The above re	ferenced material	has been cla	assific	i as	•	
	x Non-h	azardous		· 1	Hazardous	
as a result of protocols in 4	testing for the followers:	llowing char		<u> </u>		res and
Ignit	ability:ign	itable	no	n-ignitable	x not teste	ed
Corr	osivity:co	rosive	noi	n-corrosive	x not teste	ed
Reac	tivity: rea	ctive	no:	n-reactive	x not teste	ed
EP 7	Toxicity:tox	ic	x no	n-toxic	not teste	ed
Hazardous	Constituents (per	40CFR 261:	Appen	dix VII)		
1.		,	2.	,		
3.			_ 4			
,	RE	SULTS OF E	P TOX	ICITY TEST		
Contaminant	Allowed(mg/L)	Found (mg	<u>L) C</u>	Contaminant	Allowed (mg/L)	Found (mg/L)
Arsenic	5.0	< 0.001	s	ilver	5.0	< 0.001
Barium	100.0	0.012		Indrin	0.02	< 0.00005
Cadmium	1.0	< 0.001		indane	0.40	< 0.00001
Chromium	5.0	0.003		lethoxychlor	10.0	< 0.00002
Lead	5.0	0.010	-	'oxaphene	0.5	< 0.0005
Mercury Selenium	0.2	<u>< 0.0002</u>		, 4 -D	_ 10.0	< 0,0001
Perentani	1.0	< 0,001	12	,4,5-TP	1.0	< 0.0001
and the EP	characteristics had a manual Test Me	thods for th	ermine e Evalı	d in accordan	ice with 40CFR 2 d Waste; SW-846	61

Bernard J. Grycza/Directo Environmental Laboratory

Form No. G-03/81

THE ARO CORPORATION

BUFFALO DIVISION 3695 BROADWAY, BUFFALO, N.Y. 14227



ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

Customer	Reed Holding	s, Inc.			
	tory Number 2			er P.O. #	2682
Date: Colle	cted 2/26/8	1 Receiv	ed 2/26/81	Reported	3/11/81
	int/Description				
The above re	eferenced material	has been classi	fied as	,	
	Non-l	azardous ·		Hazardous	•
rotocols in	f testing for the fo	llowing characte	ristics according	ng to the procedu	res and
Igni	tability:ign	itable	non-ignitable	x not teste	eď
Cor	rosivity:co	rrosive	non-corrosive	x not test	ed ·
Read	ctivity:rea			x not teste	
EP'	Toxicity:tox			not teste	
Hazardous	Constituents (per	40CFR 261; App	oendix VII)		
1.					
3		4			
	RE	SULTS OF EP T	OXICITY TEST	_	
Contaminant	Allowed(mg/L)	Found (mg 'L)	Contaminant	Allowed (mg /L)	Found (mg/L)
Arsenic Barium Cadmium	5.0 100.0	0.016	Silver Endrin		<u>0.002</u> <u>← 0.00005</u>
Chromium	1.0 5.0	< 0.001 0.010	Lindane Methoxychlor	0.40 10.0	< 0.00001 < 0.00002
Lead	5.0	0.009	Toxaphene	0.5	< 0.00002 < 0.0005
dercury selenium	0.2 1.0	∠ 0.0002 0.005	2,4-D 2,4,5-TP	10.0 1.0	< 0.0001 < 0.0001
•		0.000	1 - 2 2 4 4 4 4 4	# • O	< 0.0001

The above characteristics have been determined in accordance with 40CFR 261 and the EPA manual Test Methods for the Evaluation of Solid Waste; SW-846, Revision A; August 8, 1980.

Bernard J. Grucza, Director Environmental Laboratory

THE ARO CORPORATION

BUFFALO DIVISION 3695 BROADWAY, BUFFALO, N.Y. 14227



786890008 710.683.0440 7868 8.1230

ENVIRONMENTAL LABORATORY
ANALYTICAL RESULTS

Customer	Reed Holding	s, Inc.	uud ja käri 400 Päälisistä 1944 julju koonnalai muoja ja kaaja ja koi kallanna 400 Päälisen 400 Auguman kaajam		negy zavopowie do Osto Parkonomo me see no Osto Mariania in Video do Ariano de Ariano de Ariano de Ariano de A
ARO Laborato	ory Number 20,	028 W-2433	Custome	er P.O. # 2682	
				Reported	
	nt Description				
The above ref	erenced material	has been classifi	ied as		-
	X Non-h		Congression of the Confession		
as a result of protocols in 4	testing for the fo	llowing character	istics accordin	g to the procedure	es and
Ignit	ability:ign	itabler	non-ignitable	x not tested	I
Corr	osivity:co	rosiver	non-corrosive	x not tested	!
Reac	tivity: res	ictiver	non-reactive	x not tested	!
EP 7	Coxicity: tox	ie x r	non-toxic	not tested	I
	Constituents (per		endix VII)		
	•				
3.		4.			
Quinan		SULTS OF EP TO	OXICITY TEST	·	
Contaminant	Allowed(mg/L)	Found (mg 'L)	Contaminant	Allowed (mg 'L)	Found Img 'L
Arsenic Barium	5.0 100.0	< 0.001 0.028	Silver Endrin	5.0 0.02	< 0.001 < 0.00005
Cadmium	1.0	< 0.001	Lindane	0.40	∠ 0.00001
Chromium .	5.0	0.008	Methoxychlor Toxaphene		< 0.00002 < 0.0005
Lead Mercury	5.0 0.2	< 0.001	2,4-D		< 0.0003
Selenium	1.0	< 0.0002 < 0.001	2,4,5-TP	1.0	< 0.0001 < 0.0001
and the EP	characteristics he Amanual Test M.; August 8, 1980	ethods for the Ev	ned in accordar	nce with 40CFR 26 d Waste; SW-846,	51

Bernard J. Grucza, Director Environmental Laboratory

THE ARO CORPORATION **BUFFALO DIVISION**

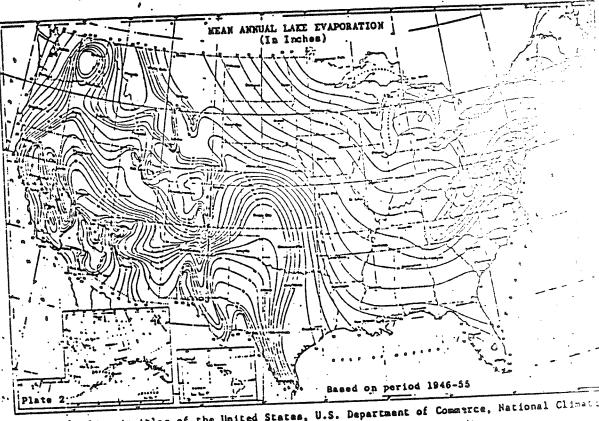
3695 BROADWAY, BUFFALO, N.Y. 14227



ANALYTICAL RESULTS

stomer: HICKMA	N, COWARD & WATTL	ES 125 Gar	denville, (lheektowaga N.	Υ.
TE: COLLECTED); ? R	ECEIVED: 6/4	/82 • (COMPLETED:	. 6/8/82
O. NO.	Δ.	RO W.O. 20,	472W-5103	attantian and the same of the	and the second s
TEST	Sludge Tank - Bottom				
Oil & Grease	30.66 gm/Kg	(3.07%)	·	· ·	
	NOTE: Sample	dewatered and	airdried p	rior to	
Control of the Contro	extract	tion (soxhelt)			And the second s
· Comment of the comm					
				•	
		**.			
					emmetregraphy chicking emmetregraphy
			Aq	-	and the second s
					······································
	•. •		Kenned	Chus x	

Bernard J./Grucza ,/Ph.D.
Director, Environmental Laboratory



Sources 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)



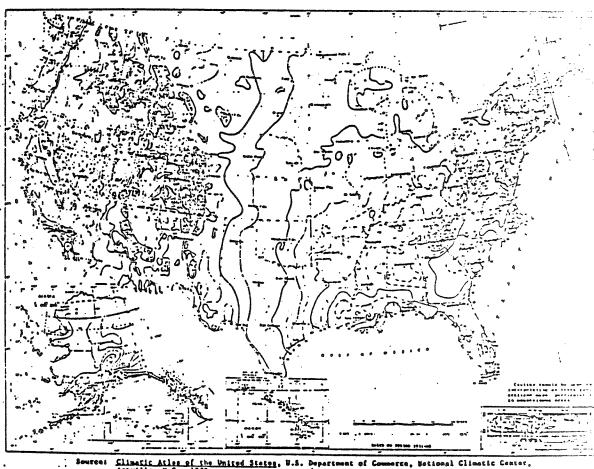


Figure 5 Normal Annual Total Precipitation (inches)

COUNTY OF ERIE DEPÁRTMENT OF ENVIRONMENT & PLAGAGO DIVISION OF ENVIRONMENTAL CONTRACTOR

15508

MEMORANDUM

FROM	CAMERON O'CONNOR		_ DATE _Pevember_171991
то	DONALD CAMPBELL		
	Lancaster Reclamatio	on - Underlying Geology -	Pavement Road - Town of Lancaster
	(

The surficial geology beneath the above site is described as glacial outwash deposits consisting of interbedded sand and gravel. These deposits are thin and overlie lake deposits.

The lake deposits in the vicinity of the landfill are Schoharie and Odessa soil units. Both of these soils are described as nearly level, deep, clayey soils with a seasonally high perched water table. The Odessa unit is poorly drained while the Schoharie unit is well drained. Water movement (permeability) in both soil units are slow or very slow.

The consolidated layer (bedrock) is reported to be Marcellus Shale.

The URS report gives the following information relative to this site:

- 1) Depth to Bedrock Greater than ten (10) feet.
- 2) Soil Permeability Very slow.
- 3) Soil Texture/Structure 35% clay.
- 4) Depth of Natural Water Table Eastern perched 2' 4'.
 Western perched 5' 2'.

Although field inspection indicated the disposal lagoons were excavated in clay, file information indicates that four soil test holes were dug to approximately 10 to 12 feet in depth. Water was encountered at a depth of 8 to 10 feet and the soil was gravel, coarse sand and clay.

Consequently, there appears to be the situation where there is a thin layer of permeabile sand and gravel overlying an impermabile clay layer.

There would seem to be the possibility of some problem with leachate entering the subsurface water which seasonally reaches the sand and gravel deposits. Any leachate in these deposits would probably travel laterally and appear as surface leachate.

Due to the tightness of the clay, down ward migration of leachate through the clay to the shale would be minimal, if any. (It should be noted that both the clay deposits and the shale are poor aquifers).

Given the set of geologic facotrs described above, leachate entering the groundwater should not be a problem.

CAMERON O'CONNOR

Env. Quality Technician

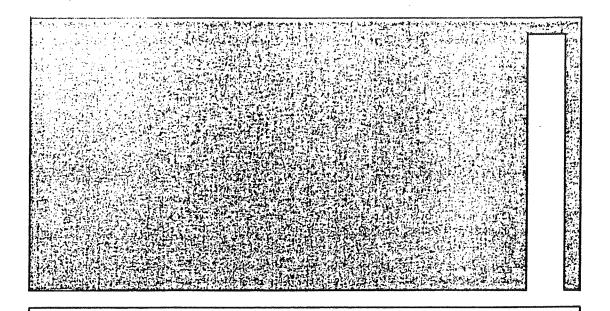
(ameum O Consur

CC'0:dp

cc: A. Voell

INTERVIEW FORM

INTERVIEWEE/CODE Mr. Kow K	COCZAja	
TITLE - POSITION Fre Carty - Oc	partnert OF	Health
ADDRESS .		
CITY	STATE	ZIP
PHONE (')	RESIDENCE PER	RIOD TO
LOCATION. telephone interview	INTERVIEWER	J. C. Brod
DATE/TIME January 16, 1986 1		
SUBJECT: lancaster Reclamation	Landhii	
REMARKS: The North Bran	ach Plum B	Potton Creic
15 the closest surface		
Reclamation Landfil.	17	•
destance from the site		
used for danking in	de suistr	is. bowever,
Surface water is m	oct likely	ised to-
reveatind purpos	3.	
- Comment for face	•	
•		
•		
I AGREE WITH THE ABOVE SUMMARY OF THE	TNTERVIEW:	
I AGREE WITH THE ABOVE SOMEART OF THE	STATE OF STA	
SIGNATURE:		
	ggypenalassum negariabel (18 = 40 osaga auszahlusaan sahaputa habibugan sahabel generalasi an di kabupat da da	
COMMENTS:		
		rench tad fills a dear a condition of the fill free condition of the condi



R. Allan Freeze

Department of Geological Sciences
University of British Columbia
Vancouver, British Columbia

John A. Cherry

Department of Earth Sciences
University of Waterloo
Waterloo, Ontario

GROUNDWATER

Prentice-Hall, Inc. Englewood Cliffs, New Jersey 07632 . 2

nce

m ed

9)

10

unic

xi-

ic

is

al

3-

nce

it is

٠d

ıcd

cry

ie

)-

s.

ity n ...at ful.

iits 1 to 0

ver,

Eq.

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

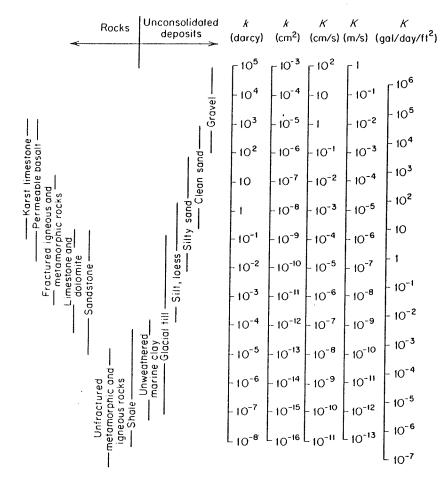


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

	Permeability, <i>k</i> *			Hydraulic conductivity, K		
	cm²	ft²	darcy	m/s	ft/s	U.S. gal/day/ft²
cm²	l	1.08×10^{-3}	1.01 × 108	9.80×10^{2}	3.22×10^{3}	1.85 × 10°
ft ²	9.29×10^{2}	1	9.42×10^{10}	9.11×10^{5}	2.99×10^{6}	1.71×10^{12}
darcy	9.87×10^{-9}	1.06×10^{-11}	1	9.66×10^{-6}	3.17×10^{-5}	1.82×10^{1}
ms	1.02×10^{-3}	1.10×10^{-6}	1.04×10^{5}	1	3,28	2.12×10^{6}
ft s	3.11×10^{-4}	3.35×10^{-7}	3.15×10^{4}	3.05×10^{-1}	1	6.46×10^{5}
US gal da	$y/ft^2 5.42 \times 10^{-10}$	5.83×10^{-13}	5.49×10^{-2}	4.72×10^{-7}	1.55×10^{-6}	l

^{*}To obtain k in ft², multiply k in cm² by 1.08 imes 10⁻³.



LEGEND

International		-
Store		
▼		
Index Reservation		
		7 2
	oderal Reservation	
Built-up Area (Over 28,000 population any consequence any at vellages		
CLASSIFICATION OF POPULATED	PLACES	
109.000 or more	YON	KER:
\$0.000 to 100.000		
12.600 to \$0.000		
2.500 to 12.500	· · · · · · · · · · · · · · · · · · ·	ron 3ay
280 to 2,500		. 30- m-c
25G or toos		. 1
TRANSPORTATION		
Highways		
Dended Highweys		
PUB Contras of Access	 	
Partial or No Control of Account		
Undried Highwey,		
Interchange		
Touring Route (Scale, U.S., Intera- er State Parkway	81 c3	•
Tourng Route Markers	-	**********
States U.S., Interatate	: 3	<u> </u>
Boronia	_	_
Operating Line	Service Cier on services	
Operator	· · · · · · · · · · · · · · · · · · ·	
Owner (If Other than Operator) Company Having Trackage Rephile		***
		3.79
Airports (Open to the Public, Milica Runney under 4000*	Burmay over 400 (*	
Rest Areas		
Food, Gas, Rest Rooms	Pest Rooms	
Gee. Rest Rooms		

REF.

NEW YORK OF THE THEFT OF EAVIRONMENTAL CONSERVANTOR

DEMOLICA OF SOLID AND HAZARDOUS WASTE

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: 2a	SITE CODE: 915069
NAME OF SITE: Lancaster Reglamation	REGION: 9
STREET ADDRESS: 403 Pavement Rd.	
TOWN/CITY: Lancaster	COUNTY: Erie
Lancaster	Reclamation
NAME OF CURRENT OWNER OF SITE: 403 Pa	vement Rd., Lancaster, NY
ADDRESS OF CORRENT OWNER OF SITE:	
TYPE OF SITE: OPEN DUMP LANDFILL X	STRUCTURE LAGOON TREATMENT POND
ESTIMATED SIZE: 10 ACRES	•
SITE DESCRIPTION:	
Former sand quarry. Foundry sand, diat	comaceous earth, distressed oils
are disposed.	
	. 19 1년(14) 15일 전 1일
	and the state of t
HAZARDOUS WASTE DISPOSED: CONFIRMED	SUSPECTED
TYPE AND QUANTITY OF HAZARDOUS WASTES D	ISPOSED:
<u>TYPE</u>	QUANTITY TONS, GALLONS)
Foundry sand w/phenolic binders	Unknown
Sludges of diatomaceous earth	Unknown
Distressed oils	Unknown

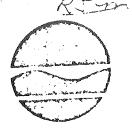
THE PERIOD SITE AND USIN YOR MAZAR	
, 19	10
OWNER(S) DURING PERIOD OF USE: Land	caster Reclamation Inc
TIL OLEVATOR DOUTING LEKTOD OF OZE:	Same
ADDRESS OF SITE OPERATOR: 403 Paven	ment Rd., Lancaster. NY
ANALYTICAL DATA AVAILABLE: AIR	SURFACE WATER GROUNDWATER X
SOIL X	SEDIMENT NONE
SURFA	NDWATER DRINKING WATER
July 1	AIR AIR
SOIL TYPE: Sandy	
DEPTH TO GROUNDWATER TABLE: >12'	
Contract of the Contract of th	
LEGAL ACTION: TYPE:	STATE FEDERAL
STATUS: IN PROGRESS	COMPLETED
REMEDIAL ACTION: PROPOSED	UNDER DESIGN
IN PROGRESS	COMPLETED
NATURE OF ACTION:	
ASSESSMENT OF ENVIRONMENTAL PROBLEMS	
No significant environmental prob	
ASSESSMENT OF HEALTH PROBLEMS:	
	\$ \$ f # \$ 7 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
	ing the second of the second o
PERSON(S) COMPLETING THIS FORM:	
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	NEW YORK STATE DEPARTMENT OF HEALTH
NAME John S. Tygert, PE	
TITLE Sr. Sanitary Engr.	- Willy
NAME Roberto A. Olazagasti	TITLE Bur. Tox. Subst. Assess. NAME
TITLE Solid Waste Management Spec.	TITLE
DATE: 11/16/83	DATE: 12/83
	4.6/UV

INTERVIEW FORM

INTERVIEWEE/CODE Jun Sneider. TITLE - POSITION NVS DEC Die	Mike Wilkenson
TITLE - POSITION NVSDEC DI	of Fish Wildlife
ADDRESS Delaware Ave	The state of the s
CITY Rutlals	STATE MY ZIP
PHONE (')	. RESIDENCE PERIOD TO
PHONE () LOCATION IN DEC office	INTERVIEWER Eleen Millipan
DATE/TIME 1/10/857 1/11/851	
SUBJECT: Phane T site in	Lat ma Year
REMARKS: The above-hame	d intervieween provided o information regarding see attached lint
us with the fallowin	p information regarding
Our Phase T site (ee attached list
1) Wetlande in Viago	ra Co. & proximity for sites
2) TURES of light wildl	ile in Frie Minonia men
3) Use by Jank will	Elife, of Niapara River
* tributarien	
4) Seasitive enveronne	ente & proposed
wetlands in the Er	re Miabara, area
Lancaster Regardation S	site
- there are no fre	
within I mile of	
I AGREE WITH THE ABOVE SUMMARY OF THE	INTERVIEW:
SIGNATURE: James R. Knides -	In Wildlife Biologist
- VYUCKael C. William -	Conservation Billozeit (Chybiliz)
COMMENTS: no descussion	wettend. / wildlife regarding
mina Landfill site - ne	ferred to Olan Cillie
	// //

New York State Department of Environmental Conservation

600 Delaware Avenue Buffalo, NY 14202



Robert F. Flacke Commissioner

REK - 9

December 9, 1981

Mr. John Ferry Lancaster Reclamation Co. 403 Favement Road Lancaster, NY 14086

Re: General Motors Company - Chevrolet Plant Tonawanda (T), Eric County Waste Streams

Dear Mr. Ferry:

I am in receipt of 3 applications for disposal of waste streams from the above referenced facility. These waste streams include ash from the coal burning operations, waste sands, and sludges from the grinding and chipping operations.

Based on Chevrolet analysis, dated November 17, 1980, these waste streams will be acceptable for disposal at your facility. However, I would require a statement from Chevrolet indicating that the current waste streams are identical to the analysis dated November 17, 1980.

You were also informed that the new Part 360 Rules and Regulations effective May 1981 may require changes in your present operations, when your permit is removed.

If you have any questions please contact the writer at 847-4885.

Very truly genrs,

Robort f. Mitroy, P.E. Associate Sanitary Engineer

RJ::::Id

INTERVIEW FORM

INTERVIEWEE/CODE Kobert Mill			
TITLE - POSITION Town Clarks Off	ice		
ADDRESS 21 Central Ave			
CITY Lancacter	_STATE	NY	ZIP 14086
PHONE (716) (83-7028)			
LOCATION Telephone Interview			
DATE/TIME 1/17/836 10:00 AM			
SUBJECT: Phase I - Langaster Rocky			
,			
REMARKS: Every paved and dedlea	teel read	in the	Town of
Lancaster is served by a water			
Erie County Water Authority.	Essentia	ally all	vocidents
have municipal water available			
The state of the s	10 ,000,00		

		et til det stander med er en	*
			74-71-11-70-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
		Market Daving Market And An address Andrew Andrews Andrews Andrews	
	ing ti kilik milat milat milat paga yani di kilik milat ya milat ya milat ya milat ya milat ya milat ya milat y		
I AGREE WITH THE ABOVE SUMMARY OF T	HE INTER	VIEW:	
	S	IGNATURE	
COMMENTS:	_		
		t	- The state of the



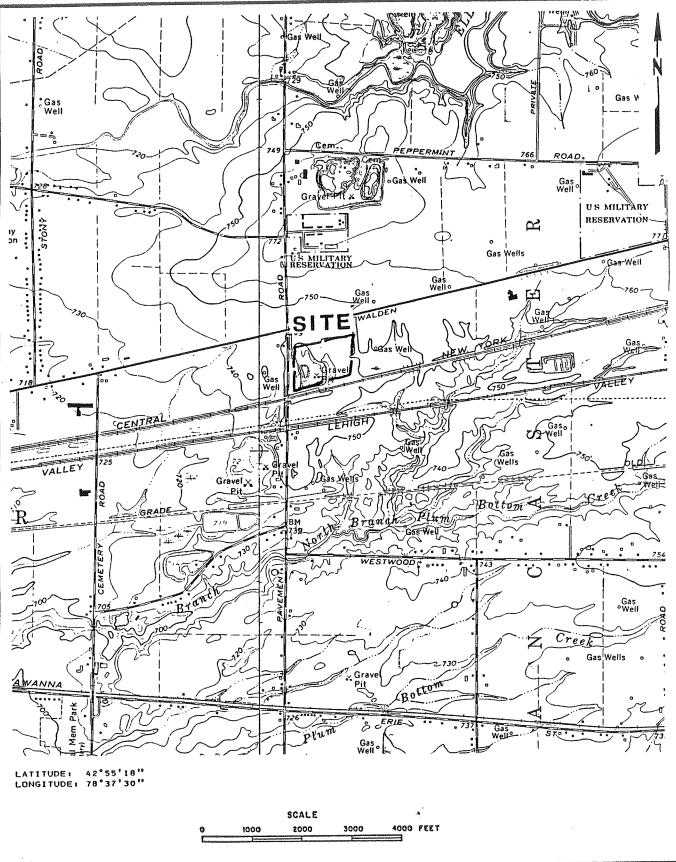
Source: Reinfell Proguency Atlan of the United States, Technical Paper No. 40, U.S. Department of Commerces U.S. Covernment Printing Office, Moshington, B.C., 1963.

Figure 8

1-Year 24-Hour Rainfall (Inches)

US CENSUS DATA, 1980

US Census Data used in the HRS scoring was obtained from various County Planning Offices. This data was not obtained from a report. The raw census data combined with County Planning Maps was used to estimate the population within 1, 2, 3, and 4 miles of the Phase I site being investigated. Because of the voluminous amount of data used, the data is not provided in this Appendix.



ENGINEERING - SCIENCE, INC. IN ASSOCIATION WITH

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SITE LOCATION MAP LANCASTER RECLAMATION

FIGURE iv-1

REFERENCE: U.S.G.S. 7.5' Topographic Map Clarence, NY (1965) Quadrangle

REF-14

RESTRICTED USE LANDFILL PERMIT UPDATE

FOR

LANCASTER RECLAMATION COMPANY
403 PAVEMENT ROAD
LANCASTER, NY 14086

PERMIT NO: DEC: 2021 SITE NO: DEC 15 S 08

PER OCTUBER 25, 1979 APPROVAL AND JUNE 21, 1979 REPORT WENDEL ENGINEERS 6/22/84



GENERAL

It is the intent and desire of Lancaster Reclamation, Ict. to continue operation of a restricted use landfill at the Pavement Road site. Only one cell has been brought to completion since the original permit was issued in 1979, with parts of two other cells partially completed.

This report is intended to describe the updating of this permit under current Part 360 requirements and regulations.

MARKET AND USE

The site was planned for the disposal of industrial waste slurries of bentonite clay, polyelectrolyte and spent casting wastes, with some bricks, foundary wastewater treatment slurries and demolition wastes. The market for the disposal service has since reduced between industrial pretreatment, other disposal requirements, conservation and business reduction or termination, locally, of the primary customers.

At the present time no specific users are identified and consequently, no projection of volumes, rates, or life expectancy are projected. All users and waste streams would be subject to review and approval by the DEC Regional Office prior to acceptance and depletion rates reported annually.

The operators expect to continue the operation and seek additional business of like nature for compatible industrial wastes (ie., non-toxic, non-hazardous grade material) as may be acceptable to the DEC.

It is not the intention of the operators to pursue a hazardous, toxic waste disposal permit.

HYDRUGEOLOGIC

The original report is amended to include a more thorough soils and groundwater statement. In fact, part of this analysis is to allay certain concerns about water quality in a non-functional test well (EAST WELL) where certain parameters have been found to be elevated in past testing.

As originally reported, the site is a played-out gravel pit. The residual remaining is generally a silty sand overburden underlain by a dense compacted clay layer to bedrock at elecation 683+ 40 to 70 feet below existing site grades. The existing well in the barn is 78' deep at elevation 676+, but no log exists. Water level in the well is at about elevation 733, similar to the pond. No direction of flow at the bedrock plane has been extablished.



It is expected that any water encountered above bedrock is traped or perched in localized pockets. Ratural groundwater most likely moves at the bedrock interface. The pends on site are symptomatic of this effect.

The underlaying clay is a stiff (ML - CL) plastic to moderately plastic soil which will exhibit low permeability in the 10^{-8} cm/sec or lower range.

Occassional sand, and sand-gravel seams were encountered on-site and all the likely conductors of the shallow acquifers that recharge the ponds, and most likely the well in the barn.

Our conclusion from the 8 test borings and trenches is to place the waste cells in the clay areas as proposed and install a clay cut off wall north to south through the sand-gravel lense into the deeper clay level to isolate horizontal migration into the acquifer area.

in is proposed to abandon the east well and install a new well to bedrock to more accurately monitor groundwater quality. It is felt from field observations the current east well only monitors surface water recharge, explaining the intermittent phenol elevations, due to natural surface causes, ie., leaf rot.

Two additional wells should be installed, one on the north and south perimeters, again to bedrock to monitor quality and establish actual hydraulic gradients of the site.

WASTE CELLS

It is intended to continue disposal into open cells of natural material bases and side slopes. Siurries will be disposed in the cells for settling and hydraulic compaction. Dry wastes will be spread and compacted and covered. Waiver of daily cover is requested on slurries disposed. When final grade is reached, a final cover layer will be placed with a 6 inch layer of topsoil graded to drain, seeded and fertilized.

Cells will be graded to drain to a low point (sump) for collection of precipitation, decanted liquid and any leachate generated. Leachate disposal is proposed to be by land application, spray irrigation, seasonally over the wooded and vegetated area of the site to maximized evapotranspiration and percolation in the graded overburden.

Cell 3 will be drained to Cell 4 by piping for collection and pumping future cells can be individually sumped.

Where periodic tests indicate contamination, collection, transport and disposal at a proper wastewater treatment plant will be utilized.



LEACHATE DISPOSAL (04-SITE)

Since the surface areas of the cells are relatively limited, and each cell is graded to drain away from the cell, water accumulation due to precipitation will be limited. Certain of the slurries will likely have high water contents (up to 80%). These will be the significant contributors to leachate generation.

Disposal is proposed by spray irrigation onto the site seasonally as required.

The table shows the water balance evaluation for disposal by this method from May 1 to November 1, with excess and snow-ice accumulation stored until the next season, or transported if contaminated.

Spraying will be by 2 - 4 inch suction pumps discharged by hose and nozzles. Spraying can only be done on dry, light wind days.

Any runoff will be collected in the surface ponds for monitoring.

MONITORING

Water quality sampling will be continued on a quarterly basis during operation and semi-annually for periods one year after non-disposal periods.



TABLE LEGEND

- (1) ET = Evapotranspiration rate
- (2) PERC = Percolation rate, 12 inches per month
- (3) Water loss = (1) + (2)
- (4) Precipitation per month
- (5) Applied = Spray to surface
- (6) Decant = Estimated maximum 48 inches per year of 80% slurries 5 ft. deep
- (7) Total liquid = (4) + (6)
- (8) Net Storage = (7) (3)
- (9) Total Storage = cumulation of (7)



WATER BALANCE (INCHES)

(SPRAY AREAS 0.9 ACRES)

840 BITH	ET	PERC	WATER LOSS	PRECIP.	APPLIED	DECANT	TOTAL LIQUID	NET STORAGE	TOTAL STURAGE
MONTH	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
							•		
NOV	0	0	0	4.63	0	4	8.63	8.63	U
DEC	0	0	0	3.67	0	4	7.67	7.67	16.3
JAN	0	0	0	1.05	0	4	5.05	9.05	25.35
FEB	0	0	0	2.79	0	4	6.79	6.79	32.14
MAR	0	0	0	3.64	0 .	4	7.64	7.64	39.78
APR.	0	0	0	4.75	0	4	8.75	8.75	48.53
MAY	2.25	12.0	14.25	3.50	10.75	4	7.50	-6.75	41.78
JUN	3. 51	12.0	15.51	2.68	12.83	4	6.68	-8.83	32.95
JULY	4.09	12.0	16.09	1.84	14.25	4	5. 84 `	-10.25	22.7
AUG	4.01	12.0	16.01	1.02	14.99	4	5.02	-10.99	11.71
SEPT	3.19	12.0	15.19	1.68	13.51	4	5.68	-9.51	2.2

9.38

75.71

4.48

35.73

4

48.0

8.48

83.73

-3.0

-5.20

13.86

90.91

OCT

TOTALS

1.86

18.91

12.0

72.0

\$EPA

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

I. IDENT	IFICATION
OI STATE	02 SITE NUMBER 000513911

T				2711	
II. SITE NAME AND LOCATION			111.7000.007)	
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREE	, ROUTE NO., OR	SPECIFIC LOCATION IDENTIFIER	
Lancaster Reclamation		403	. Pave	ment Rd.	8 8
03 CITY		04 STATE	05 ZIP CODE	06 COUNTY	07COUNTY 08 CONG
Lancaster		NY.	14086	Erie	0 29 32
09 COORDINATES LATITUDE LONGITU	UDE .				
09 COORDINATES LATITUDE LONGITU 42° 57′ 08″. N 78° 37′	16" W			=	
10 DIRECTIONS TO SITE (Starting from nearest public road)	и.	. 10		- 6 (1).11-	1
Parement Road in L	carthe cack	IN -	J	s or water	- tive any
III. RESPONSIBLE PARTIES	- Plong I -	,			
	•	02 STREET	(Business, making, re		
20 OWNER IT DOWN FORTY, Reclamation	Co.	40	3 Pare	ment PJ 06 TELEPHONE NUMBER	
03 CITY		04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER	
Lancaster		NY	14084	7161684-962	u .
07 OPERATOR (If known and different from owner)		08 STREET	(Business, making, re	isidential)	
John Ferry					
09.CITY		10 STATE	1 1 ZIP CODE	12 TELEPHONE NUMBER	
				()	
13 TYPE OF OWNERSHIP (Check one)					
A. PRIVATE B. FEDERAL:	(Agency name)	-	C. STATE	D.COUNTY E. MI	UNICIPAL
F. OTHER:(Specify)			G. UNKN	OWN	
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check of that apply)					
☐ A. RCRA 3001 DATE RECEIVED: ☐ E	3. UNCONTROLLE	ED WASTE	SITE ICERCIA 103	c) DATE RECEIVED:	DC. NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD				- CATA	ZAT TEAN
01 ON SITE INSPECTION BY (Check at 1)		*********			
4.50	☐ B. EPA AL HEALTH OFFIC	CONTRAC	TOR 🗗	C. STATE D. OTHER	CONTRACTOR
			F. OTHER:	(Specify)	
	TOR NAME(S): _				
A. ACTIVE B. INACTIVE C. UNKNOWN	BE	1976 GINNING YEA	Pro	Sent UNKNOW	N .
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR A	LLEGED C		1		
wastes include bentonite	tlay, tou	ndry.	sand, ce	ment/asbestus	swry,
wall paper production wask	es steel	Shat	blast a	nd oilu studge	
	,				1
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR P	OPULATION				
Surface infoundments are overlying sandy soils may groundwater. Additionally,	underel	ains !	on material	~ 1 dem calle	
2001	. 11			an clay soll;	sweres
over wing samely soils many	allown	rigiz	none of	on remunents in	1 sufficial,
grown cue car, redainsing,	site exiz	with	ns may	fronge evosz-con	iroctions
V. PRIORITY ASSESSMENT					
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, completed.) A. HIGH		elion and Part 3	_		
(Inspection required promptly) (Inspection required)	Inspect on time as	radabre basisi	D. NONE	er action needed, complete current dispo-	ulion form)
VI. INFORMATION AVAILABLE FROM					
_	OF (Agency Organizati	ioni	0		03 TELEPHONE NUMBER
John A. Botts	Engin	eany	, 54e	nce	1703.591-7575
	AGENCY	06 ORGAN		07 TELEPHONE NUMBER	08 DATE
John A. Botts	ame			()	MONTH DAY YEAR

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

 IFICATION	
02 SITE NUMBER	

			PART 2 - WAST	E INFORMATION	ı	1/4/1000	10 213/111
II. WASTE STA	ATES, QUANTITIES, AN	D CHARACTERI	STICS				
L.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ATES (Check all that apply)	02 WASTE QUANTI		☐ A. TOXIC ☐ B. CORRO ☐ C. RADIOA	CTIVE [] G. FLAMA	BLE I. HIGHLY INDUS I. SEXPLOS	IVE VE
D. OTHER	CUBIC YARDS		\$ 2,000	12 D. PERSIS	TENT LIM. KINHA	M. NOT AP	PLICABLE
	(Specify)	NO. OF DRUMS					
III. WASTE TY			04 00000 4404147	02 UNIT OF MEASURE	03 COMMENTS		
CATEGORY	SUBSTANCE N	AME		Cubic yards	1.Aclac d	SOOSE & IN	the
SLU	SLUDGE OILY WASTE		52,000	(05/2 94-25	Colors I		reledo
OLW					1 and a star	Clair. SMA	11 quantity
SOL	SOLVENTS				Bermin	- 1-	mixed
PSD	PESTICIDES				DE tounday		a'sbestos
occ	OTHER ORGANIC CH		•		WITH SEN	TOLL COST	
ЮС	INORGANIC CHEMIC	ALS			Swrry, u	var paper p	had uction
ACD	ACIDS				waster,	Steel Jhat	oles !
BAS	BASES HEAVY METALS			and the commentation of th	and only	garage, su	voge.
MES							
	US SUBSTANCES (See As	**************************************	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
01 CATEGORY	02 SUBSTANCE N	AME	8002-05-9		11. 100	4500-21400	pom
ow	01/			1 age	on jamerin	300	
occ	PCBS		13.74-36-3			,01-,026	eem
300	phenols.		108-95-2			.05	opm
WEC	. cadmiun	MARKON MARKON MARKAN MA	7440-43-9		1	.052	com
MES	1-eug)	*	7439-92-1) (1032	1 1
MES	selenium	<u> </u>	7782-49-2		-	45	ppm
WES	<u> 21966</u>		7440-66-6		1	73	
	as bestos		1332-21-4		t		percent
occ 1	gi-to-khloroetha	ne (suspeda)		· ·			
		The	con centra	trong giv	en alove	are the	Company
		Form	1 to be i	a Der	Houlas u	reste an	donnet
		COA	exaut 1	e amoun	t in the	total was	te on-
		e:Te					
			<u> </u>				
					-		
V. FEEDSTOC	CKS (See Appendix for CAS Numb						
CATEGORY	01 FEEDSTOO	non-months of the state of the	02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			
FDS		4403 (W. CO. CO. CO. CO. CO. CO. CO. CO. CO. CO		FDS			**************************************
	OF INFORMATION (CAN	anacijic rejerancas. a n	. steta filos, sumolo analysis.				
Tid NYS NW	erview mo OEC Applications ste Stream,	John Fer Ton For Tre 4/11/78, 1	my during entract or 1 12/4/81, 4/	Site 1~4. Disposal of 30/79, 7/2	pection ES an Industr 2/82, 6/15/	and DAM 3/2 red of Hazari 81, 1/14/81,	1/85 dous 3/2/84

EPA FORM 2070-13(7-81)

Letter from John Ferry of Lancoster Reclamation to Robert Mitrey of NYSOEC, 9/3/80.

⇔EPA

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

I. IDENTIFICATION

101 STATE 02 SITE NUMBER

AY 000051391

II. HAZARDOUS CONDITIONS AND INCIDENTS			2000
01 S.A. GROUNDWATER CONTAMINATION	02 🗆 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	of NARRATIVE DESCRIPTION	serneal	le
Due to unlined condito	on of agoons +	9-11.0-05	
: hature of solv			
,		**************************************	
01 D B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	. C ALLEGED
OS POPOLATION OTENIALE AT LOTED;	111	hara Gion	· lusto
unknown - NOT	likely except	J. g. j.ou	howa co
XLL03	into hear by :	stream	•
01 🗆 C. CONTAMINATION OF AIR	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		•
,			
unknown			
	•		
01 D. FIRE/EXPLOSIVE CONDITIONS	02 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	•	
	-		
		CONTENTAL	☐ ALLEGED
01 [] E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	LI ALLEGED
-	•		
01 7 F. CONTAMINATION OF SOIL	02 🗆 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
03 AREA POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		0
Possible due to h	upration of Conta	musake	e f
Grand to the	8		,
Jioung was			
01 DG. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: June 10 U.S.	02 OBSERVED (DATE:)	SEPOTENTIAL	ALLEGED
,		^ /	
Possible depradat	on of nearby	purate	
Loudan Feal w.	elle		
Marie -		☐ POTENTIAL	T ALL COTO
01 H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	U POIENIIAL	☐ ALLEGED
			•
	• · · · · · · · · · · · · · · · · · · ·		
01 🗆 I. POPULATION EXPOSURE/INJURY /	02 OBSERVED (DATE:)	[] POTENTIAL.	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	•	
/	•		
			,

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

D00051 PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued) □ ALLEGED 01 DJ. DAMAGE TO FLORA 02 [] OBSERVED (DATE: _ □ POTENTIAL 04 NARRATIVE DESCRIPTION UNKROUN 01 D K. DAMAGE TO FAUNA 02 D OBSERVED (DATE: . D POTENTIAL □ ALLEGED 04 NARRATIVE DESCRIPTION (include name(s) of spe UNKnown 01 L. CONTAMINATION OF FOOD CHAIN 02 C OBSERVED (DATE: . ☐ POTENTIAL □ ALLEGED 04 NARRATIVE DESCRIPTION UNKNOWN 1885 □ ALLEGED □ POTENTIAL 01 M. UNSTABLE CONTAINMENT OF WASTES 02 C OBSERVED (DATE: . **04 NARRATIVE DESCRIPTION** 03 POPULATION POTENTIALLY AFFECTED: apoons 01 DN. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE: . ☐ POTENTIAL □ ALLEGED **04 NARRATIVE DESCRIPTION** UNKnown □ POTENTIAL □ ALLEGED 01 □ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 □ OBSERVED (DATE: _ **04 NARRATIVE DESCRIPTION** (mknown) ☐ POTENTIAL C ALLEGED 02 DOBSERVED (DATE: 01 P. ILLEGAL/UNAUTHORIZED DUMPING **04 NARRATIVE DESCRIPTION** 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS III. TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS V. SOURCES OF INFORMATION (Cité specific references, e. g., state tites, sample enalysis, repont) Se viset 1585

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION 01 STATE | 02 STE NUMBER

SEPA	PART 1 - SITE	SITE INSPECT LOCATION AND	ION R	EPORT CTION INFORM	ATION:	NY	0005	13911
II. SITE NAME AND LOCAT	ION '						•	
O1 SITE NAME (Logal, common, or del			02 STRE	ET, ROUTE NO., OR SP	PECIFIC LOCATION	IDENTIFIER	• •	
Lancasteir	Reclamation	'n	し	103 Par	ement	RJ.		
03 CTY							07COUNT CODE	Y 08 CONG DIST
Lancaster 03 CTV Lancas	fer		NY	111000	Erie		029	
09 COORDINATES LATITUDE U205708"N	1 1	IO TYPE OF OWNERSH		DERAL		D. COUNTY G. UNKNOW!		PAL
III. INSPECTION INFORMA								
01 DATE OF INSPECTION 2, ZI, 85 MONTH DAY YEAR	02 SITE STATUS	03 YEARS OF OPERAT	10N 972	o I Prese	annother .	UNKNOWN		
MONTH DAY YEAR 04 AGENCY PERFORMING INSPE	INACTIVE CTION (Check at that apply)	BEGI	NNING YE	AR ÉNDING YEA	3	Terramination of the second		
CLA EDA DE EPACON	VIRACTOR Engine	enn Science	2 🗆 C. N	IUNICIPAL 🗆 D. M	IUNICIPAL CONTI	RACTOR		
DE STATE OF STATEC	ONTRACTOR DOME	E MOOVE	☑ G. C	THER			(Name of first	".
05 CHIEF INSPECTOR	(Na	one of firm)	·		(Specky) 07 ORGANIZA	TION	08 TELEPHO	VE NO
					•			. 1
Kobert S	reere	Emiron	men	tal scientis	+ trained	nu Science	12 TELEPHON	
09 OTHER INSPECTORS		10 TITLE			ORGANIZA		()	IE NO.
Robert Stormer inspectors Eileen Gi	lligan	Colo	Sist	hal Scients	Pames	Moore	<u> </u>	
			v				()	
				,			()	
		ika kanan manguni menungan pendaban kaya dan pendapan pendaban kaharan sa			•		()	
	gancan menya utat 400 400 400 gajaja in 400 talah kada 400 40 dan bankat pangan keramanak			n de east air de de Chaille agus le m ar níocean tha dha agus an deal an deal an deal an deal an deal an deal an			()	
13 SITE REPRESENTATIVES INTE	RVIEWED	14 TITLE		15ADDRESS			16 TELEPHO	NE NO
Mr. John 1	Ferry	Enginee		403 Pare	ment Ro) 、	1716168	4-9624
	J			403 Pores	er, NY 1	4086	()	
			•				()	
							()	
	et selective de la constitución de				and the second		()	
							()	nd province men and appropriet policy of the control of the contro
					•	,		*
17 ACCESS GAINED BY (Cheet ene) (C) PERMISSION	8 TIME OF INSPECTION	19 WEATHER COND	виот				adelli in medicina in medicina di della	
☐ WARRANT						entretalismon 2000 (ijila taryimpanism		
IV. INFORMATION AVAILA	able from							
S. Robert	Steele	02 OF (Agency/Organi Eng	nes	enry Sche	ence É	5)	(703).59	
04 PERSON RESPONSIBLE FOR		05 AGENCY	08 01	RGANIZATION	07 TELEPHON	E NO.	08 DATE	
John A. B	otts	ES		same asabo	ve		MONTH O	LI 85

-500	moreoverschill and desire	m. #60
	Harman Harm	# AF
- WHAT -	Massa Mar	
	# H	(hinnel)
AN 160.	Minimum (At	AN W

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER M9 0000 5 [3.9]

			PART 2 - WAST	E INFORMATION	İ			
II. WASTE ST	TATES, QUANTITIES, AN	ID CHARACTERI	STICS					
L	TATES (Check all that apply)	02 WASTE QUANTI	TY AT SITE	03 WASTE CHARACT	ERISTICS (Check all that ap	ply)		
☐ A. SOLID ESLURRY M. SOLID TO TO G. GAS			C2 1110		A. TOXIC		SIVE IVE PATIBLE	
	(Specify)	NO. OF DRUMS =						
III. WASTE T					Lagarita			
CATEGORY	SUBSTANCE N	IAME		02 UNIT OF MEASURE		1.0-0-1	the	
SLU	SLUDGE		52,000	Cubic hards	wastes a	spose 12 IN	nelede.	
OLW	OILY WASTE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			enface in	W. S. C.		
SOL	SOLVENTS				bentonite	Clary, SMA	<i>J</i> 1	
PSD	PESTICIDES				Al tounglong	sands 01/s	ashestas	
occ	OTHER ORGANIC CH				with ser	ADULTA CARRELL CO	4	
100	INORGANIC CHEMIC	CALS			Shirry u	vall paper	raduction	
ACD	ACIDS				wastes,	Steel Shot	plait.	
BAS	BASES HEAVY METALS				and only	garage, Sh	vose.	
MES	<u> </u>							
	OUS SUBSTANCES (See A) 02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION	
01 CATEGORY		IAME	8002-05-9		11. 100	4500-21400	Par	
alw	PCBS		1034 343	1 aga	on ianorii	300	, ,	
000			1355-363	•	<u> 1975-1974 AN DON'T COMPONIANT AND AN AN</u>	,01-,026	ppm	
SUC	phenois		108-15-2			,05	cem	
WEC	cadmiun		7440-43-9			.052	CON	
ME	1-ear)		7434-427			1	con	
MES	<u>celliniu</u>	N	7782-17-2			45	com	
Mt?	2140		7990-66-6			,	Carro cont	
4/4	asbestos		11532-21-4	(
04] , i+nchloroetha	me (suspense			Marie Continue (1980)			
				/	a al 1.5	are the		
		The	con eentro	1	en above	are the	Language	
		tovi	4 to be 1	a pro	t in the	total were	te on-	
		- Cop	exent the	amoun	t in the	7012100		
		<u> </u>						
							ZOCATACHONIO CANTONIO	
					- The state of the			
V. FEEDSTO	OCKS (See Appendix for CAS Numb	oers)						
CATEGORY	01 FEEDSTOC	CK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER	
FDS				FDS				
FDS				FDS				
FDS				FDS				
FDS				FDS				
VI. SOURCE	S OF INFORMATION (CR	specific references, e.g.	, state files, sample analysis,	reports)				
JA NY. We	terview mo SDEC Applications 117/82	John Fer True 4/11/78,	end during endmast or 12/4/81, 4/	Site 129 01.5fosal of 1 130/79, 7/2	an Industri 2/82, 6/15/	and D4M3/2 relop Hazor 81, 1/14/81,	1/85 3/2/84	

EPAFORM 2070-13(7-81)

Letter from John Ferry of Lancactor Reclamation to Robert Mitrey of NYSDEC, 9/3/80.

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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
AT 00 00 51

II. HAZARDOUS CONDITIONS AND INCIDENTS			C7 A44 Z0Z2
01 A. GROUNDWATER CONTAMINATION	02 ☐ OBSERVED (DATE:] 04 NARRATIVE DEŞCRIPTION	POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARHATIVE DESCRIPTION	a ment	/,
Due to unlined condito	on of agoons T	gernus	
hature of solv	ν	,	
ravar y			

01 ☐ B. SURFACE WATER CONTAMINATION	02 OBSERVED (DATE:]	☐ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
	1 / / 2	there are	Augustus
Likhowy - NOT	uney excep	J , 500	200000000
11000	in hear by	stream	
unknown - NOT &	1300	J	
01 C. CONTAMINATION OF AIR		POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
un known			
lea Anow			
	·		
01 □ D. FIRE/EXPLOSIVE CONDITIONS	02 OBSERVED (DATE:) D POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:			
	·		
	OO T ODOROVED (DATE.) D POTENTIAL	☐ ALLEGED
01 E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) DPOTERTIAL	LI ALLEGED
03 POPOLATION POTENTIALET ATTEOLES.	OF IMMINITE DESCRIPTION		
·			
· .			
			
01 F. CONTAMINATION OF SOIL	02 OBSERVED (DATE:) EXPOIENTIAL	☐ ALLEGED
03 AREA POTENTIALLY AFFECTED:	- · · · · · · · · · · · · - · ·		Ω
Possible alus to h	wasafaa of Cont	imunate	el
1053 to a que 10	of the form		
stound water			
0			
01 G. DRINKING WATER CONTAMINATION	02 OBSERVED (DATE:	POTENTIAL	D ALLEGED
03 POPULATION POTENTIALLY AFFECTED: MAN DUTA	_ 04 NARRATIVE DESCRIPTION	^	
	Low of nearby	Duvate	,
fossible dependant	on of many	pourace	_
residenteal w	allu	*	
les colon cor	Marine Company of the		
01 🗆 H. WORKER EXPOSURE/INJURY	02 OBSERVED (DATE:) D POTENTIAL	☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	,	
	ē .		
O4 CI L DODILLATION EXPOSITES IN HERY	02 C OBSEDVED IDATE.	\ C\ DOTENTAL	☐ ALLEGED
01 [] I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: Junky own	02 OBSERVED (DATE:) DOTENTIAL.	C ALLEGED
	and the state of t		
/			
			·

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS.

I. IDENTIFICATION

1. STATE 02 SITE NUMBER

NY DOODS 13911

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLÈĠED
UNKnown			
01 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
Laknown			
01 🗌 L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 □ OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
Unknow			
01 M. UNSTABLE CONTAINMENT OF WASTES (Spitts/Runofit/Standing Houlds, Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE:	□ POTENTIAL	☐ ALLEGED
unkned	lapoone		
01 D N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
\mathcal{N}_{0}			
01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs O4 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
UNKnown			,
01 🗇 P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	□ POTENTIAL	☐ ALLEGED
No			
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	GED HAZARDS		
III. TOTAL POPULATION POTENTIALLY AFFECTED:		O-MAPPER - THE REAL PROPERTY OF THE PROPERTY O	
IV. COMMENTS			
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files,		на произветствення в на выполнения в на при в на при	
	Sample cralysis, reports)		AND
Site viset 1885	man-		

₿EPA

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

I. IDENT	IFICATION		
01 STATE محصار\ر	02 SITE NUMBER	२५।	-

	PART 4 - PERMIT	AND DE	SCRIF	TIVE INFORMAT	ION L	747 ID 000 3 13 111	
II. PERMIT INFORMATION			NOTES CONTRACTOR OF THE PROPERTY OF THE PROPER				
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE	SSUED	04 EXPIRATION DATE	05 COMMENTS		
(Check all that apply)							
A. NPDES		Annous de la company de la com	Deliterate de la constitución de				
☐ B. UIC							
☐ C. AIR						**************************************	
D. RCRA				The second secon			
☐ E. RCRA INTERIM STATUS							
F. SPCC PLAN		. ,				The state of the s	
G. STATE (Specify)	2021 /2290 (modf)	10/2		11/1/82	Solid Was	HE Memal Operation	
DCH. LOCAL (Specify)	81-1/81-2	7/19	179		**************************************	1	
☐ I. OTHER (Specify)	10000	<u> </u>	*******************************				
☐ J. NONE		<u> </u>	potroditivos accordigado				
III. SITE DESCRIPTION		***************************************					
	AMOUNT 03 UNIT OF		04 TF	REATMENT (Check all that as	oply)	05 OTHER	
D-A. SURFACE IMPOUNDMENT	2,000 cubic	<u>-90</u> .	□ A.	INCENERATION		A. BUILDINGS ON SITE	
☐ B. PILES			□ 8.	UNDERGROUND INJE	CTION	A. BOILDINGS ON SITE	
C. DRUMS, ABOVE GROUND		· · · · · · · · · · · · · · · · · · ·		CHEMICAL/PHYSICA	L		
☐ D. TANK, ABOVE GROUND				BIOLOGICAL		00 4054 05 075	
☐ F. LANDFILL	***************************************	MANUFACTURE DE COMP		WASTE OIL PROCESS		06 AREA OF SITE	
G. LANDFARM				SOLVENT RECOVERY		13, Com. (Acres)	
☐ H. OPEN DUMP				OTHER RECYCLING/	RECOVERY	(Acres)	
☐ I. OTHER	· · · · · · · · · · · · · · · · · · ·		⊔н.	OTHER	cify)		
(Specify)							
FOUR SUNFACE IMPOUND CASPOSE OF MATERIALS !	emorti, each	ap	pros	cimately z	- acres	are used to	
dispose of materials 1	relighing prin	anly	60	ntonit cle	ys an	l smader	
grantites or found	ry sands,	vas	te o	il worked	sorth clay	y from 2003	
grantites our found steam clanning and story and way paper	exproduction	rateon was te	క్ష. ^క	steel shot	blast, a	sbestos/sement	
IV. CONTAINMENT							
01 CONTAINMENT OF WASTES (Check one)	Mericanico.						
☐ A. ADEQUATE, SECURE	B. MODERATE	□ C. IN	IDEGL	JATE, POOR	D. INSECUR	RE, UNSOUND, DANGEROUS	
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BAF	RRIERS, ETC.			Arkings (control control contr	A		
The Soil underlying	is the sintae	be 100	pou	nd inerts re	s deature	S. Carely.	
Bentonite clay is a	150 dispose L	1 mil to	tal_	imponder	outs, wh	ick acts to	
contain collected sur	have unter,						
V. ACCESSIBILITY		**************************************					
01 WASTE EASILY ACCESSIBLE: YES 02 COMMENTS							
Access to the	sit is a	or	per (estricted,			
VI. SOURCES OF INFORMATION (Cite specified)	fic references, e.g. state files, sample	enelysis, repo	orts)	ndadaka ndaddibudu qoyya caran ana qoya aran ana qoda a no andra aban oo uu qaabaa a			
				during SI	te inspeci	tion conducted	
1 .	by Es and 128m, 3/21/85.						

POTENTIAL HAZARDOUS WASTE SITE

I. IDENT	TFICATION
01 STATE	02 SITE NUMBER
I NV	20005/3911

SEPA	PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA NY 1000513911
VI. ENVIRONMENTAL INFORMATIO	N
01 PERMEABILITY OF UNSATURATED ZONE	
☐ A. 10 ⁻⁶ — 10 ⁻⁸ cm	n/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. IMPERMEAN (Less than 10-6	BLE D. RELATIVELY IMPERMEABLE C. RELATIVELY PERMEABLE D. VERY PERMEABLE cm/sec) (Greeter than 10 ⁻² cm/sec)
03 DEPTH TO BEDROCK 04	DEPTH OF CONTAMINATED SOIL ZONE 05 SOIL pH
~50 m	inknown untroun
06 NET PRECIPITATION 07	ONE YEAR 24 HOUR RAINFALL OB SLOPE SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE 1, 0 %
09 FLOOD POTENTIAL SITE IS IN > 100 YEAR FLOOD	DISITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS (5 acre minimum)	12 DISTANCE TO CRITICAL HABITAT (of endangered species)
ESTUARINE	OTHER MIGRATORY DIRDS AQUILA CHRYSAFTOS
A. >2 , U (mi)	B. 0.14 (mi) ENDANGERED SPECIES: HALLAEETUS LEUCOCEPH
13 LAND USE IN VICINITY	FALCO PEREGRENES
DISTANCE TO:	RESIDENTIAL AREAS: NATIONAL/STATE PARKS. AGRICULTURAL LANDS
COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, AGRICULTURAL LANDS FORESTS, OR WILDLIFE RESERVES PRIME AG LAND AG LAND
A. <u>> 1 , 0 (mi)</u>	B
14 DESCRIPTION OF SITE IN RELATION TO S	
Site has	megular sound senface with
dego excar	repular ground senface with rated lapoons, Adjacent
ground xu	you is level, as was or final
life ground de	
•	

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

ECDEP memorandum to. D. Campbell from R. Koczaja, 9/25/84 NYSDEC Reg 9 Dept of Fish's Wildlife F NYS wetlands Maps Was wetlands Maps Report by Buffella Drilling Report by Buffalo Drilling NYS Atlas of Community Water system Sources USGS Topographic mapt Clarence, Ny Quad NYS Floodplains maps 5.6 V13.4 1885

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

	'IFICATION
01 STATE	02 SITE NUMBER 7000513911

		r i	ANT 8-SAMPLE AND FIELD INFORMATION	
II. SAMPLES TAKE	N			
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER				
SURFACE WATER				
WASTE				
AIR				
RUNOFF				
SPILL				
SOIL				
VEGETATION			·	
OTHER				
III. FIELD MEASUR	EMENTS TA	KEN		
01 TYPE		02 COMMENTS		
HNU		HNU rea	diss were taken ouring the	,
Haran San Carlotte Control of the Carlotte Control of		inspect	dings were taken during the	1229 Phone
		1-00m		
annum annum aine an an dheach ann an dheach ann an ann an ann an an an an an an an				
IV. PHOTOGRAPH	S AND MAPS	···		
01 TYPE 12-GROUN	ID 🗆 AERIAL		02 IN CUSTODY OF Engineering State and (Name of ofgenization or individual)	
03 MAPS	04 LOCATION	OF MAPS		
□ NO	***************************************			
V. OTHER FIELD D	ATA COLLE	CTED (Provide narrative de	scription)	
				ļ
VI. SOURCES OF I	NFORMATIO	N (Cite specific references,	e.g., state (lies, sample analysis, reports)	
Site In	-spect	ion Cond	uted by Es and DEM, 3/21/8.	A secondarion.
STREET,	•			,
				•

	FPA	
APP		

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTI	FICATION
01 STATE	02 SITE NUMBER
1/9	0000513911

YLIA			PART 7 - OWNER INFORMATION				
II. CURRENT OWNER(S)	PARENT COMPANY (II applicable)						
O1 NAME		02 D+	-8 NUMBER	08 NAME		09 D	+B NUMBER
Lancaster Reclamation Co 03 STREET ADDRESS (P.O. BOX, RFD @, 010.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
3179 Wolden Av	06 STATE		AU3	12 CITY	13 STATE	142	IP CODE
01 NAME		سسسيا	HB NUMBER	08 NAME 09 D			+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		<u></u>	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)		1	11 SIC CODE
05 CITY	06 STATE	07 ZI	PCODE	12 CITY	13 STATE	14 Z	IP CODE
O1 NAME		02 D	+B NUMBER	08 NAME		09 0	+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11SIC CODE
05 CITY	06 STATE	07 ZI	P CODE	12 CITY	13 STATE	14 Z	IP CODE
O1 NAME	02 D		+8 NUMBER	OB NAME		090	+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)			11 SIC CODE
05 CITY	06 STATE	07 Z	P CODE	12 CITY	13 STATE	14	ZIP CODE
III. PREVIOUS OWNER(S):(List most recent first)		<u> </u>		IV. REALTY OWNER(S) (If applicable; list m	ost recent first)		
OI NAME PICTUSZOWSK OS STREET ADDRESS (P.O. BOX, AFD). OC.)	<u>.</u>	02 D	+B NUMBER	01 NAME		02 0)+B NUMBER
O3 STREET ADDRESS (P.O. Box, RFD) . etc.)	ann mar agailtean ann agailtean agailtean agailtean agailtean agailtean agailtean agailtean agailtean agailte	.teriume	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE
05 CITY	06STATE	07 Z	IP CODE	05 CITY	06 STATE	07	ZIP CODE
01 NAME		02 D	+B NUMBER	01 NAME	0	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 Z	P CODE	05 CITY	06 STATE	07	ZIP CODE
01 NAME		02 0	+B NUMBER	01 NAME		02	D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		*	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE
05CITY	06STATE	07	ZIP CODE	05 CITY	06 STATE	07	ZIP CODE
V. SOURCES OF INFORMATION (CHe spec							
Interview with	JOA.	N	Ferry, Ou	wer of lancastr by Es and DE	Reclan	nat	income.
during site inspec	two	l Ca	onducted	by Es and DE	m, 3/	21/	65

\$EPA

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

I. IDENT	TFICATION
01 STATE	02 SITE NUMBER
	D000513711

		THE PERIOD				
II. CURRENT OPERATOR (Provide II different from	m owner)		OPERATOR'S PARENT COMPANY (If applicable)			
O1 NAME		02 D+B NUMBER	10 NAME	[1	1 D+B NUMBER	
Can caster Reclamation 03 STREET ADDRESS (P.O. BOX, RFD 0, etc.)	ا ر					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #.	, etc.)	13 SIC CODE	
3179 WALLEN AVE						
05 CITY	08 STATE	07 ZIP CODE	14 CITY	15 STATE 1	6 ZIP CODE	
DEPEW	114	14043				
08 YEARS OF OPERATION 09 NAME OF OWNER						
1976-000sent						
III. PREVIGUS OPERATOR(S) (List most recent fit	ret; provide on!	y il different from owner)	PREVIOUS OPERATORS' PA	RENT COMPANIES (If as	oplicable)	
Rose Pieterzowski ((3)	02 D+8 NUMBER	10 NAME	1	1 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	<u>emploopingstermethytespelagendi</u>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #	, etc.)	13 SIC CODE	
05 СПУ	06 STATE	07 ZIP CODE	14 CITY	15 STATE 1	16 ZIP CODE	
08 YEARS OF OPERATION 09 NAME OF OWNER D	L L DURING THIS	3 PERIOD				
01 NAME		02 D+8 NUMBER	10 NAME	[1	1 D+B NUMBER	
O3 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 1	6 ZIP CODE	
08 YEARS OF OPERATION 09 NAME OF OWNER I	DURING THIS	S PERIOD		alatini pahilajah tahuja kata da manda da manda ofi manda manaman manama basa da manda manaman manama basa da m		
O1 NAME		02 D+B NUMBER	10 NAME	1	1 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	WATER THE PROPERTY OF THE PROP	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 1	6 ZIP CODE	
08 YEARS OF OPERATION 09 NAME OF OWNER D	DURING THIS	3 PERIOD		interessional establishment between the second		
IV. SOURCES OF INFORMATION (Cite specific	c references, e	.g., slate files, sample analysis.	reports)	Aedatotakasi katu opustu ini tari kikosotatava ahimus tini kapakin cikis ciriduntu ine kandure opus uson	ATTEN CONTRACTOR AND THE CONTRACTOR CONTRACT	
Interview with	inilianostin-sior		and provided the control of the cont	E Lancasta	vo.	
Reclamation during site inspec			tion conducti	1 by Es	a a de	
DAM, 3/21/8	5,					

EPA FORM 2070-13 (7-81)

m pa a	

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

		TIFICATION
0	1 STATE	02 SITE NUMBER 000513911

٣	ANI 3- GENERALONIII	RANSPURIER INFURMATION "		
II. ON-SITE GENERATOR				
O1 NAME	02 D+B NUMBER	NO hazardons waste	5 200	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	NO hazardons waster generated on-site.		
05 CITY 06	STATE 07 ZIP CODE			
III. OFF-SITE GENERATOR(S)				
O1 NAME	02 D+B NUMBER	01 NAME	02 [)+B NUMBER
Drosser Transportation	_	Fabrition		
03 STREET ADDRESS (P.O. Box, RFD & etc.)	04 SIC CODE	O3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
	STATE 07 ZIP CODE	05 CITY Alden	06 STATE 07	I ZIP CODE
Cherrolat Division, 6M	02 D+B NUMBER	Reed Holdings	021	D+8 NUMBER
O3 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, MAD #, otc.) 2775 DOCUMEN	(P.O. Box)	04 SIC CODE
1	STATE O7 ZIP CODE	Buffalo	06 STATE 07	ZIP CODE
IV. TRANSPORTER(S)		"		
OI NAME Lancaske Rectamation	02 D+8 NUMBER	101 NAME FETTY CONSTRUCTION 103 STREET ADDRESS (P.O. BOX, AFD #, etc.)	- 1	D+8 NUMBER
03 STREET ADDRESS (P.O. BOX, RFD #, etc.) 403 Perment Rd	04 SIC CODE	3179 Wolden Are		04 SIC CODE
05 CITY 108	STATE 07 ZIP CODE 14086	Depeur	The state of the s	4043
01 NAME	02 D+B NUMBER	01 NAME\	021	D+8 NUMBER
Ken Stanbur Tructung Co. 03 STREET ADDRESS (P.O. BOX. RFD #, OIC.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
Box 8, Station 13			0.000.000	
Buffalu	STATE 07 ZIP CODE	05 CITY	06 STATE 07	ZIP CODE
V. SOURCES OF INFORMATION (Cite specific refe	erences, e.g., state files, sample analysis	, reports)		
		of and DEM,	3/21/8	

5.16 Inspection conducted by Es and DEM, 3/21/85 NYSDEC Application for Treatment or Disposed of an Industrial or Harandone Waste Stream. 4/11/28, 12/4/81, 4/20/79, 7/22/82, 6/15/81, 1/14/81, 3/2/84, 5/17/82.

HH	

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

- 1	I. IDENTIFICATION		
	OI STATE	02 SITE NUMBER \$\int 0.005/3	911

WLIA	PART 10 - PAST RESPONSE ACTIVITIES	NI 10000313 111
II. PAST RESPONSE ACTIVITIES		
01 [] A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY
04 DESCRIPTION NO		
01 🗆 B. TEMPORARY WATER SUP	PLY PROVIDED 02 DATE	03 AGENCY
04 DESCRIPTION NO	•	
01 C. PERMANENT WATER SUP	PLY PROVIDED 02 DATE	03 AGENCY
04 DESCRIPTION NO		
01 D. SPILLED MATERIAL REMO	VED 02 DATE	03 AGENCY
04 DESCRIPTION NO		
01 [] E. CONTAMINATED SOIL REN	MOVED 02 DATE	03 AGENCY
04 DESCRIPTION / U		
01 D F. WASTE REPACKAGED.	02 DATE	03 AGENCY
04 DESCRIPTION NO		
01 G. WASTE DISPOSED ELSEW	/HERE 02 DATE	03 AGENCY
04 DESCRIPTION NO		
01 H. ON SITE BURIAL /	02 DATE	03 AGENCY
04 DESCRIPTION	•	
01 [] I. IN SITU CHEMICAL TREATM	MENT 02 DATE	03 AGENCY
04 DESCRIPTION NO		
01 D J. IN SITU BIOLOGICAL TREA	ATMENT 02 DATE	03 AGENCY
04 DESCRIPTION NO		
01 K. IN SITU PHYSICAL TREAT	MENT , 02 DATE	03 AGENCY
04 DESCRIPTION	·	
01 🗆 L. ENCAPSULATION	02 DATE	03 AGENCY
04 DESCRIPTION ///		
01 I M. EMERGENCY WASTE TRE	EATMENT 02 DATE	03 AGENCY
04 DESCRIPTION		
01 DN. CUTOFF WALLS	O2 DATE	03 AGENCY
04 DESCRIPTION NO		•
01 O. EMERGENCY DIKING/SUF	RFACE WATER DIVERSION 02 DATE	03 AGENCY
04 DESCRIPTION		,
01 ☐ P. CUTOFF TRENCHES/SUM	IP 02 DATE	03 AGENCY
04 DESCRIPTION NO		
01 [] Q. SUBSURFACE CUTOFF V	VALL 02 DATE	. 03 AGENCY
04 DESCRIPTION	** Table	*:
1		

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

I. IDEP	ITIFICATION
01 STAT	02 SITE NUMBER
MY	0000515911

YEFA	PART 10 - PAST RESPONSE ACTIVITIES	[M/ [V00]313]
PAST RESPONSE ACTIVITIES (Continued)		03 AGENCY
01 ☐ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	
01 □ S. CAPPING/COVERING 04 DESCRIPTION	92 DATE	
01 □ T. BULK TANKAGE REPAIRED 04 DESCRIPTION 人/ク	02 DATE	03 AGENCY
01 □ U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	
01 - V. BOTTOM SEALED 04 DESCRIPTION Natural Clay	uncerties surface impounds	03 AGENCY
01 D W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 □ X. FIRE CONTROL 04 DESCRIPTION		03 AGENCY
01 Q Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 □ Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION ACCESS TO	SITU 1'S UNITESTRICTED.	03 AGENCY
01 □ 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 ☐ 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
MONE		
. SOURCES OF INFORMATION (Cite specific refe	prences, e.g., state (lies, sample analysis, reports)	
	Es and 0&m, 3/2,	1/85
21th motherance of	es seems with the	

\$EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 0005/39/

18	ENFORCEMENT	INCODMATION
H.	ENPUNCEMENT	INFURMATION

01 PAST REGULATORY/ENFORCEMENT ACTION | YES | NO

NONE

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

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

MYSDEC, ENUROnmental Enforcement Olusion

M45, ATTORNEY GENERIS OFFICE.

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 Phase II activities are:

- o To collect additional field data necessary to identify the occurrence and extent of contamination and to determine if any imminent health hazard exists.
- o To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.
- o 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 an electrical resistivity survey 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.
- Groundwater A groundwater monitoring system consisting of 4 wells is recommended. Borings will be drilled to a maximum depth of 50 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 priority pollutants. In addition, sieve and hydrometer analyses will be performed on representative samples of the subsurface soils. Finally, an in-situ permeability test will be performed on each well.
- Surface Water and Sediment A surface water and sediment monitoring system consisting of 2 monitoring stations is recommended.
 One station (S-1) will be in the pond on the northeast corner
 of the site. Station S-2 will be in the northeast quadrant of
 the site in the swampy area. The surface water and sediment
 samples will be analyzed for priority pollutants.
- Waste Cell Water Two of the cells will be sampled for ponded water and analyzed for priority pollutants.
- Air An air monitoring survey with an HNU meter is recommended to test the air quality during site activities.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VI-2 as required under the site specific health and safety plan and quality assurance plan which must be submitted prior to initiation of field activities. The proposed monitoring well and sampling location are presented in Figure VI-1.

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. The estimate total cost for this project is \$58,188.

TABLE VI-1
ASSESSMENT OF DATA ADEQUACY

HRS Data Requirement	Comments on Data
Observed Release	
Groundwater	Inadequate for HRS score
Surface Water	Inadequate for HRS score
Air	Adequate for HRS score
Route Characteristics	
Groundwater	Inadequate for HRS score
Surface Water	Adequate for HRS score
Air	Adequate for HRS score
Containment	Adequate for HRS score
Waste Characteristics	Adequate for HRS score
Targets	Adequate for HRS score
Observed Incident	Adequate for HRS score
Accessibility	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.
п-в	Conduct Geophysical Studies	Conduct resistivity survey.
II-C	Conduct Boring/Install Monitoring Wells	Install 1 upgradient and 3 down- gradient wells. The borings will be drilled to a depth of approximately 50 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	2 sediment samples are to be collected and analyzed for priority pollutants.
	Groundwater samples	4 groundwater samples are to be collected and analyzed for priority pollutants.
	Surface water samples	<pre>2 surface water samples are to be collected and analyzed for priority pollutants.</pre>
	Waste Cell Water	2 cells will be sampled for waste cell water and analyzed for priority pollutants.

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	No further sampling necessary.
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.

TABLE VI-3
PERSONNEL RESOURCES BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: LANCASTER RECLAMATION)

TASK DESCRIPTION TEAM MEMBERS, MANHOURS

									,					
•	PIC	TRB	PĦ	DPM	PCM	QAM	HSM	FTL	FT	RAAL	RAAT	95	TOTAL HOURS	TOTAL \$
II-A UPDATE WORK PLAN	1	1	8	4		4	Ą	16		8		28	74	1144.1
II-B CONDUCT GEOPHYSICAL STUDIES			4	2			4	12	160			40	222	2243.86
II-C CONDUCT BORING/INSTALL MONITORING WELLS			8	16		4	4	20	80			40	172	2213.4
II-D CONSTRUCT TEST PITS/AUSER HOLES													0	0
II-E PERFORM SAMPLING AND ANALYSIS														
SOIL SAMPLES FROM BORINGS			4	4		2	2	4	16			8	40	555.14
SOIL SAMPLES FROM SURFACE SOILS													0	0
SDIL SAMPLES FROM TEST PITS AND AUGER HOLES													0	0
SEDIMENT SAMPLES FROM SURFACE WATER			4	4		1	1	ş	8			Ą	25	425.11
GROUND-WATER SAMPLES			4	2		1	1	4	16			. 8	36	470.49
SURFACE WATER SAMPLES			4	4		1	1	4	8			4	26	425.11
AIR SAMPLES			2	2			1	2	4			2	13	214.61
WASTE SAMPLES			4	4		1	1	4	8			4	26	425.11
II-F CALCULATE FINAL HRS			4	4				4	4	2		4	22	394.56
II-6 CONDUCT SITE ASSESSMENT	2	2	8	4				24	32	12	40	50	174	2275.72
II-H PROJECT MANAGEMENT	2		6	2	3	4	4					12	23	529.88
TOTALS	- 5	3	50	52	3	18	23	98	336	22	40	204	864 i	1317.09

TABLE VI-4
COST ESTIMATE BREAKDOWN BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: LANCASTER RECLAMATION)

OTHER DIRECT COSTS (ODC). \$

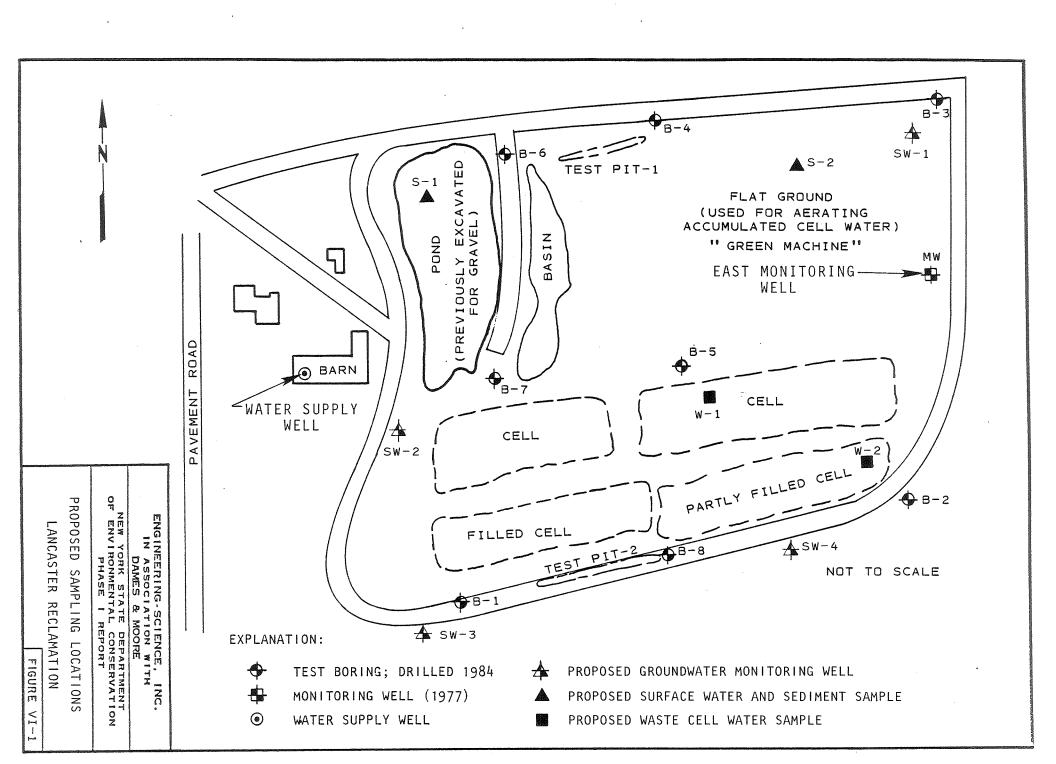
TASK DESCRIPTION		OTHER DIRECT COSTS (ODC), \$								
	DIRE Hours	CT LABOR COST	LAB ANALYSIS	TRAVEL AND SUBSISTANCE	SUPPLIES	EQUIP. CHARGES	SUBCON- TRACTORS	MISC.	SUBTOTAL ODC	TOTAL (\$)
II-A UPDATE WORK PLAN	74	\$1,144.10		\$200.00	\$50.00	\$50.00		\$50.00	\$350.00	\$1,494.10
II-B CONDUCT GEOPHYSICAL STUDIES	222	\$2,243.86		\$1,750.00	\$50.00	\$350.00		\$50.00	\$2,200.00	\$4,443.86
II-C CONDUCT BORING/INSTALL MONITORING WELLS	172	\$2,213.40		\$650.00	\$250.00	\$600.00	\$5,700.00	\$250.00	\$7,450.00	\$9,663.40
II-D CONSTRUCT TEST PITS/AUGER HOLES	0	\$0.00							\$0.00	\$0.00
II-E PERFORM SAMPLING AND ANALYSIS										
SOIL SAMPLES FROM BORINGS	40	\$555.14			\$100.00	\$150.00		\$50.00	\$300.00	\$855.14
SOIL SAMPLES FROM SURFACE SOILS	0	\$0.00							\$0.00	\$0.00
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES	0	\$0.00							\$0.00	\$0.00
SEDIMENT SAMPLES FROM SURFACE WATER	26	\$425.11	\$3,200.00	\$85.00	\$20.00	\$75.00		\$50.00	\$3,430.00	\$3,855.11
SROUND-WATER SAMPLES	38	\$470.49	\$4,500.00	\$150.00	\$60.00	\$175.00		\$50.00	\$5,245.00	\$5,715.49
SURFACE WATER SAMPLES	26	\$425.11	\$2,400.00	\$85.00	\$20.00	\$75.00		\$50.00	\$2,630.00	\$3,055.11
AIR SAMPLES	13	\$214.61				\$60.00			\$60.00	\$274.61
WASTE SAMPLES	26	\$425.11	\$2,400.00	\$85.00	\$50.00	\$60.00		\$ 5 0.0 0	\$2,645.00	\$3,070.11
II-F CALCULATE FINAL HRS	22	\$394.56			\$150.00	\$150.00		\$20.00	\$320.00	\$714.56
II-6 CONDUCT SITE ASSESSMENT	174	\$2,275.72			\$750.00	\$300.00		\$75.00	\$1,125.00	\$3,400.72
II-H PROJECT MANAGEMENT	33	\$529.88	\$1,100.00	\$300.00	\$150.00	\$5 0.0 0		\$50.00	\$1,650.00	\$2,179.88
TOTALS	864	\$11,317.09	\$13,900.00	\$3,315.00	\$1,650.00	\$2,095.00	\$5,700.00	\$745.00	\$27,405.00	\$38,722.09
								OVERHEAD=		\$14,150.80

 OVERHEAD=
 \$16,150.80

 SUBTOTAL=
 \$54,282.89

 FEE=
 \$3,305.54

 TOTAL PROJECT COST=
 \$58,188.43



APPENDIX A
Sources Contacted
References

SOURCES CONTACTED FOR
LANCASTER RECLAMATION, INC. INVESTIGATION

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED		
USEPA Headquarters, Superfund Office	4/2/85	Hamid Saebfed	(202) 382-4839	401 M Street, NW Washington, D.C. 20460	Reviewed list of sites to determine if additiona. information was available.		
USEPA - Region II, OERR	3/22/85	Mel Hauptman	(212) 264-7681	Room 402 26 Federal Plaza New York, NY 10278	General information from site files.		
NYSDEC - Division of Solid and Hazardous	12/19/84	Marsden Chen	(518) 457-0639	50 Wolf Road Albany, NY 12233	General information from site files.		
NYSDEC - Division of Water	12/19/84	Sal Pagano	(518) 457-6675	50 Wolf Road Albany, NY 12233	<pre>Mr. Pagano set up meet- ings with three bureaus within Division of Water.</pre>		
NYSDEC - Division of Water '	12/20/84	Bob Hannaford	(518) 457–6716	50 Wolf Road Albany, NY 12233	Reviewed SPDES Files for permit numbers and conditions.		
s							
NYSDEC - Division of Water	12/21/84	George Hansen	(518) 457-2010	50 Wolf Road Albany, NY 12233	Reviewed DMR files for discharge violations.		
NYSDEC - Division of Air	12/21/84	Art Fossa	(518) 457-7454	50 Wolf Road Albany, NY 12233	Reviewed site list to identify sites with potential air emissions.		

SOURCES CONTACTED FOR LANCASTER RECLAMATION, INC. INVESTIGATION

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED		
NYSDEC - Division of Monitoring and Assessment	12/21/84	Bill Berner Frank Estabrook Fred Van Alstine	(518) 457-7363	50 Wolf Road Albany, NY 12233	Reviewed geology and monitoring information for specific sites.		
NYSDEC - Division of Environmental Enforcement	12/20/84	Kevin Walter	(518) 457-4346	50 Wolf Road Albany, NY 12233	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.		
NYS - Dept. of Law Attorney General's Office	1/7/85	Val Washington	(518) 473-3105	Empire State Plaza Justice Building Albany, NY 12233	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.		
NYS - Dept. of Law Attorney General's Office	1/3/85	Albert Bronson	(716) 847-7196	Buffalo State Office Bldg. Buffalo, NY 14202	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.		
NYSDEC - Region 9 Division of Solid and Hazardous Waste	1/7/85	Peter Buechi Ahmad Tayyebi Jack Tygert Larry Clare	(716) 847-4585	600 Delaware Ave. Buffalo, NY 14202	Collected information from site files.		

SOURCES CONTACTED FOR LANCASTER RECLAMATION, INC. INVESTIGATION

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
NYSDEC - Region 9 Division of Air	1/8/85	Henry Sandonato Robert Armbrust	(716) 847-4565	600 Delaware Ave. Buffalo, NY 14202	Collected information concerning previous air emissions from inactive disposal sites.
NYSDEC - Regional Attorney	1/10/85	Peter J. Burke	847-4551	600 Delaware Ave. Buffalo, NY 14202	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS Dept. of Health, Buffalo Region, Public Health Engineering	1/8/85	Lou Vìolanti	(716) 847-4500	584 Delaware Ave. Buffalo, NY 14202	Collected information from site files.
NYSDEC - Region 9 Division of Fish and Wildlife	1/10/85 & 1/11/85	Mike Wilkenson Jim Sneider	(716) 847-4600	600 Delaware Ave. Buffalo, NY 14202	Collected information from site files
Erie County, Division of Environmental Control, Dept. of Environment & Planning	1/10/85	Don Campbell Ron Koczaja	(716) 846-6271 (716) 846-6370	95 Franklin Street Buffalo, NY 14202	Collected information from Erie County site files. Obtained additional information through interview.
Erie County, Division of Economic Development and Planning	4/2/85	Mike Alspaugh	(716) 846-6013	95 Franklin Street Buffalo, NY 14202	Obtained 1980 U.S. Census Data.
Lancaster Reclamation, Inc.	3/27/85 4/25/85	John Ferry	(716) 684-9624	403 Pavement Rd. Lancaster, NY 14086	Conducted site inspection and reviewed past and present waste management practices.

REFERENCES

LANCASTER RECLAMATION

- 1. Buffalo Drilling Company, Boring Logs, 1984.
- Chevrolet Central Laboratory, Analytical Results, November 17, 1980.
- 3. Fabritron, Analysis of Sludge, 1/9/79.
- 4. Ferry, J., Ferry Construction Company, List of Waste Disposed On-site (See Section IV), 1985.
- 5. Frontier Chemical Waste Process, Inc., Analytical Results, 2/4/76.
- 6. J-Labs, Inc., Analytical Results, 8/26/80.
- 7. NYS Museum and Science Service Bedrock Geology Map, Map and Chart Series, No. 15 (Compiled by Richard, Lawrence, Fisher, Donald), 1970.
- 8. NYSDEC, Leaching Potential Test Report, 1981.
- 9. NYSDEC, Application for Treatment or Disposal of Industrial or Hazardous Wastes, 1979.
- 10. Wendel Engineers, Lancaster Reclamation Engineering Report, 5/21/79 (Revised June 1979).
- 11. Worthington, Letter from J. Kasner to J. Ferry, Ferry Construction Company, 3/2/84.

BUFFALO & DRILLING & COMPANY INC. PET-1

1965 Sheridan Drive Kenmore, New York 14223 (716)-875-0906 foundation test borings rock coring • monitoring wells geotechnical instrumentation construction dewatering

GEOTECHNICAL REPORT

on

INVESTIGATION AND INTERPRETATION

of

SUBSURFACE CONDITIONS

for

LANCASTER RECLAMATION SITE

submitted to:

Lancaster Reclamation Company

prepared by:

Mr. James S. Barron, P.E.

Job No. 84-115 August 6, 1984

TABLE OF CONTENTS

		Page
1.0	Introduction	1
2.0	Field Explorations	2
3.0	Discussion of Site Conditions 3.1 Introduction 3.2 Soil Conditions for Eastern Portion of Site 3.3 Groundwater Conditions 3.4 Bedrock Conditions	3 3 3 4 5
4.0	Discussion of Proposed Groundwater Monitoring System	6
	Figures	
	Appendices	

LIST OF FIGURES

Figure No.	<u>Title</u> Site Details and Exploration Location Plan
2	Profile: Section A-A
3	Profile: Section B-B
4	Geotechnical Reference Standards
5	Proposed Monitoring Well Details

LIST OF APPENDICES

Appendix No.

<u>Title</u>

A

В

Test Boring Logs

Test Pit Logs

1.0 INTRODUCTION

This report presents subsurface exploration results and interpretation of conditions by Buffalo Drilling Company, Inc., for the Lancaster Reclamation Company site. The technical data and all interpretations and conclusions presented in the report were prepared by Mr. James S. Barron, P.E. Mr. Barron is a geotechnical engineer with substantial experience in the Central and Western New York State region. Buffalo Drilling Company and Mr. Barron were retained by Mr. John Ferry of the Lancaster Reclamation Company to develop and undertake subsurface studies and prepare this report.

The site is located on an approximate 13-acre land parcel near the intersection of Walden Avenue and Pavement Road in Lancaster, New York. In addition to the portions of the site designated for waste burial, the site also accommodates a house, barn, half-acre pond, and an equipment and material storage area.

This study has been undertaken in partial fulfillment of the requirements of Part 360 of the New York State law for solid waste management facilities. It is noted that the site has been previously used as a restrictive industrial waste disposal site and in compliance and under the approval, during that usage, of the New York State Department of Environmental Conservation (NYS DEC).

2.0 FIELD EXPLORATIONS

Eight test borings and two test pits were undertaken during March 1984 and located as shown on Figure 1. These explorations were field located through survey by Thomas P. Ryan and Associates. Elevations, as noted on the logs, are referenced to the USC & GS datum.

The test borings were drilled using a truck mounted CME 55 rotary drill rig between March 14 and 29, 1984. All test borings were observed and under the technical supervision of Mr. James S. Barron, P.E. Drilling was done using 3-3/4 inch inside diameter (ID) continuous flight hollow stem augers. In general, soil samples were recovered on 5-foot intervals by driving a standard split-barrel sample (2 feet long by 1-3/8 inch ID) 24 inches with a 140-pound hammer falling 30 inches each blow (ASTM D1586). The number of blows to drive the sampler was recorded at 6-inch intervals. The number of blows for 12 inches of penetration is defined as the Standard Penetration Test N-value.

Soil samples were initially classified in the field, and a portion of each sample was placed and sealed in a glass jar. The boring logs, included as Appendix A, were prepared based on the field log and a second visual classification of the retained samples. Classification of soil samples is based on the Unified Soil Classification System. Refer to Figure 4, entitled "Geotechnical Reference Standards," for an explanation of the terminology used for soil descriptions.

Two test pits were excavated with a backhoe operated by personnel employed by Lancaster Reclamation Company. As shown on Figure 1, the test pits are located at approximately midpoint of the north and south site boundary. The test pits were about 2 feet wide and 50 to 75 feet long. The conditions, as revealed by the excavations, were observed and documented by Mr. Barron. The test pit logs are included as Appendix B.

3.0 DISCUSSION OF SITE CONDITIONS

3.1 Introduction

In general, the soil conditions at the site are a result of glacial lacustrine deposits of silt, clay and silty sands, glacial outwash deposits of sand and gravel. northwest corner of the site and land sectors north have been extensively excavated by Pine Hill Concrete Corporation for recovery of sorted gravel and sand materials. It is noted determined that the exploration program has gravel are primarily and deposits of sand substantial isolated west of the noted site dividing line on Figure Based on the conclusions of the exploration program to subsequently discussed, it is proposed that the land east of the site dividing line is now suitable for industrial and capable of complying with Part 360.

The site has been divided into an east and west portion for the ease of presentation and discussion. As noted on Figure 1, two section lines are indicated for which profiles have been prepared and included as figures 2 and 3.

As determined through field observations and the results of borings B-1, 6, and 7, the western portion of the site consists almost totally of sand and gravel. Interbedded in the sand and gravel and extending from the east to approximately half way across the western portion of the site is an upper wedge of silty clay and a lower wedge of plastic clay. Refer to Figure 2 and logs in Appendices A and B for additional details.

It is extremely difficult to determine the exact geological events, except that is was a result of glacial activities, which created the unusual subsurface conditions at the site. The remainder of the discussion to follow will primarily concentrate on the results of the exploration program and interpreted conditions for the eastern portion of the site.

3.2 Soil Conditions for Eastern Portion of Site

The subsurface conditions for the eastern portion of the site have been investigated by borings B-2 through B-8 and test pits TP-1 and 2. The results of these explorations have concluded that this portion of the site consists primarily of silty clay and clay layers. It is noted that a three to five foot thick sand and gravel layer has been identified at an approximate depth between 15 and 20 feet and interbedded between the silty clay and clay layers. Profiles of these conditions are presented on figures 2 and 3, and additional discussion of the soil layers is presented below.

above noted borings have determined that the upper fivefoot depth of soil consists of a fill layer underlain by a The three to four foot thick fill thin silty sand layer. layer is a result of roadway construction along the perimeter site boundary and for interior site access. The fill is described as either compacted slag or compacted, brown, silty clay intermixed with some sand and material The underlying natural deposit of silty sand is reddish one and two feet thick and suspected of covering the portion of the site. The permeability of this between material is estimated to range between 10-2 and 10-3 cm/sec.

Underlying the silty sand and extending to a depth between 15 and 20 feet is a layer of silty clay. This material is described as very stiff, moist, and moderately plastic, and consisting of between 10 and 20 percent sand and fine gravel. The estimated permeability of this material is less than 10-5 cm/sec.

An approximate two or three foot thick permeable sand and gravel layer has been identified in borings B-4, 5, and 8 located near the site dividing line shown on Figure 1. Since neither Boring B-2 nor B-3, which extend to a 30-foot depth and retrieved 24-inch soil samples on 5-foot intervals, did not reveal the thin sand and gravel layer, it is suspected that this layer may be discontinuous.

All borings east of the site dividing line encountered silty clay and/or clay conditions beneath a 15- to 20-foot depth and extending to the full depth drilled. Except for Boring B-4, which was drilled to a 41-foot depth, all remaining borings were drilled to an approximate 30-foot depth. The deep lying clay material is described as stiff to very stiff, plastic, and wet with little amounts of silt and interbedded with thin lenses of gravelly sand. The estimated permeability of the clay is less than 10-7 cm/sec.

3.3 Groundwater Conditions

The natural groundwater level at the site is approximately elevation 730 feet. The elevation is confirmed by the water level of the existing pond located in the northwest corner of the site and the noted groundwater depth for borings B-1, 6, and 7. Furthermore, it is suspected, based on preliminary information, that the groundwater gradient is in a southwest direction. Confirmation of these conditions will be provided subsequent to the installation of the proposed monitoring wells. Groundwater depth is not indicated on the logs for borings B-1 through B-5, and B-8 due to the termination of drilling efforts within a nearly impermeable soil layer.

3.4 Bedrock Conditions

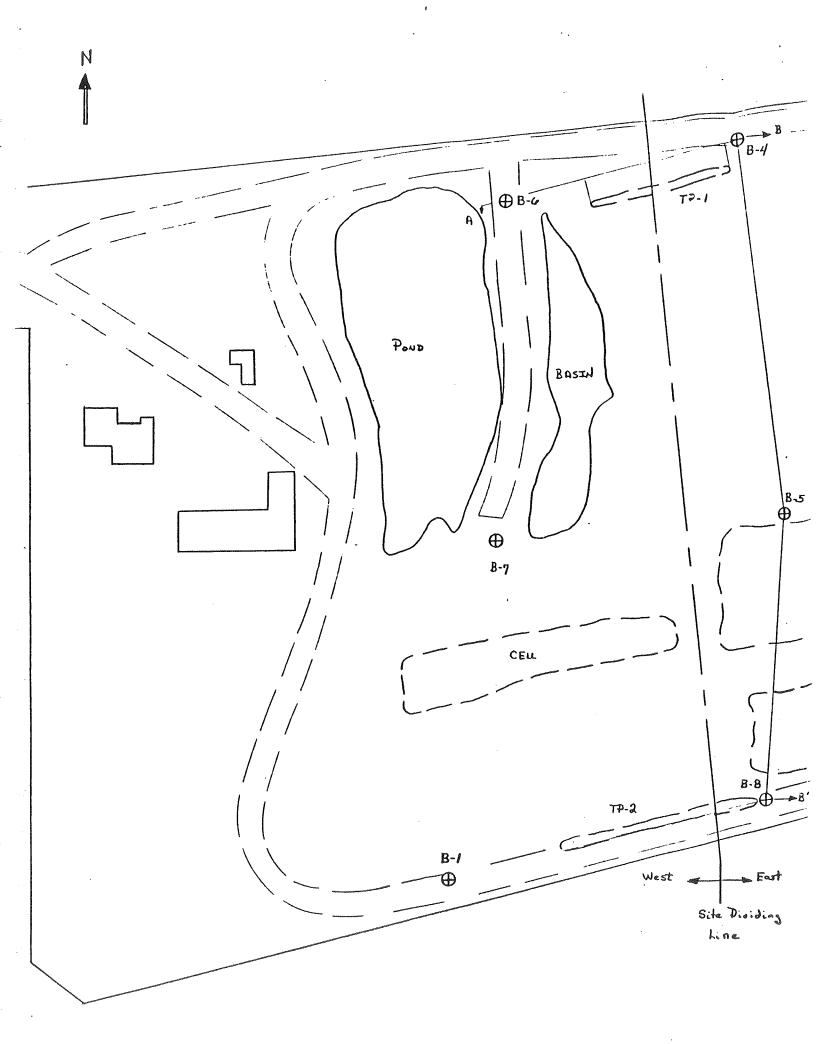
The elevation of the bedrock surface, as determined by Boring B-7, is approximately 682.5 feet. Due to the site location south of the Onondaga Escarpment, the bedrock surface is most likely a member of the Onondaga Limestone Formation. It is noted that the Onondaga Limestone is typically weathered and noted that the rock surface due to the effects of fractured at the rock surface due to the effects of glaciation, and variations in the elevation of the top of rock are common.

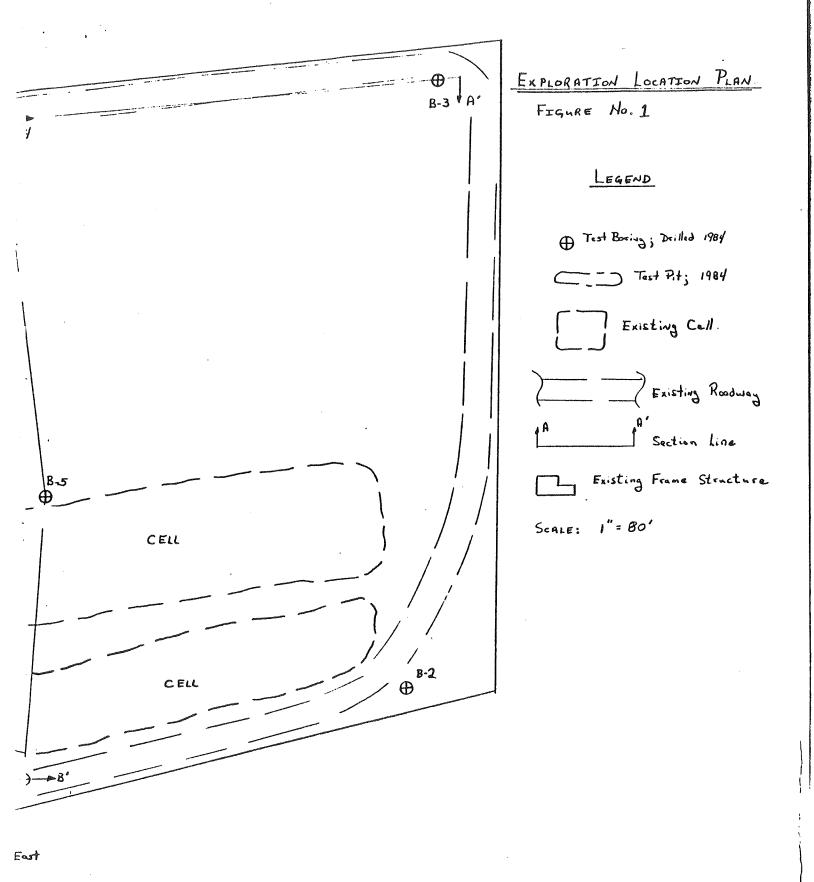
4.0 DISCUSSION OF PROPOSED GROUNDWATER MONITORING SYSTEM

Part 360 of the New York State law for solid waste management facilities requires a minimum of three observation wells to evaluate groundwater gradient and retrieve water samples. Currently, wells are located within the site limits near the center of the east and west ends. In addition to these two existing wells, it is argued that the half-acre pond located in the northwest corner of the site can be effectively used to fulfill Part 360 requirements.

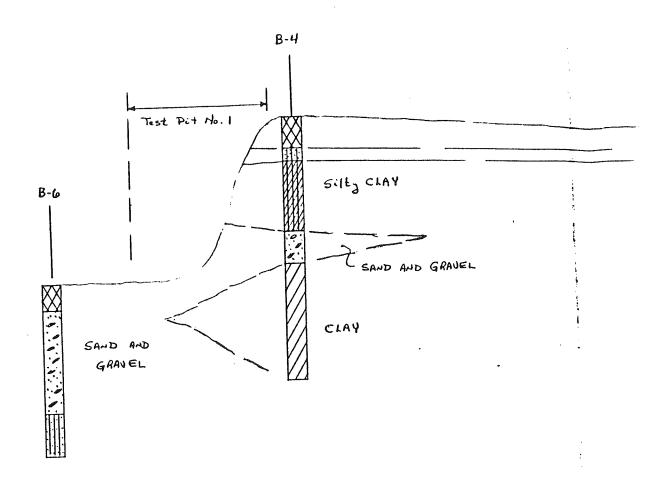
At this time, it is proposed that the approximately 70 and 30 foot deep wells at the east and west ends, respectively, will be field tested. These results accompanied with documentation of the well details will, hopefully, conclude that the existing wells are properly constructed and applicable to Part 360 requirements.

To supplement the existing groundwater monitoring system, it is recommended that additional wells are installed. It is proposed that these supplemental wells are constructed with 1-1/2 inch diameter PVC screens and riser pipe and under the supervision of a licensed engineer.





Buffalo Drilling Company, Inc. Date: June, 1984 By & J.S. Barron



-W

PROFILE: SECTION A.A'

Scale: (H) 1"= 80'

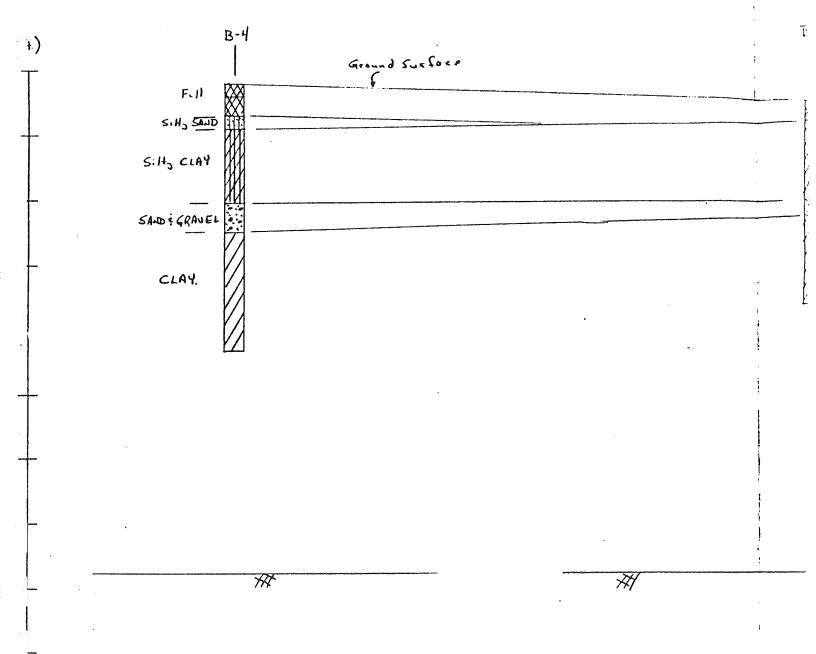
(Y) 1": 15'

BUFFALO DRILLING COMPANY, INC.
Figure No. 2
Date: July 27, 1984
By: J. S. Barron

Bedrock - depth interpolated F-B Gring B-7

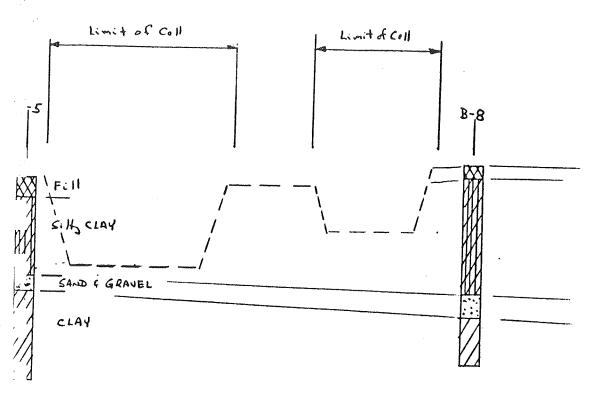
FILL SAND

દ-શ



PROFILE: SECTION

Scale: (H) 1"= (V) 1"=



Bedrock - depth interpolated from Boring B-7.

B-38'

15

BUFFALO DRILLING COMPANY, INC.

Figure Ho. 3

Date: June, 1984

ZZ

By: Js Borra

TERMINOLOGY USED FOR SOIL DESCRIPTIONS

Key to Density & Consistency Description of Granular & Cohesive Soils

Number of Blows per ft., N	Relative Density	Number of Blows per ft., N	Consistency
		Below 2	Very soft
0-4	Very loose	2-4	Soft
4-10	Loose	4-8	Medium
10-30	Medium	8-15	Stiff
30-50	Dense	15-30	Very stiff
Over 50	Very dense	Over 30	Hard
Description of Proportions	Percentage or Used in Soil	Abbreviatio in So	
Sample Clas	sification	Sample Class	ification
Trace	0-10%	f - fine	v - very
Little	10-20%	m - medium	.gr - gray
Some	20-35%	c - coarse	bn - brown
And	35-50%	f/m - fine to medius	n yel-yell
		f/c - fine to coars	

Notes:

- Description and classifications are based on visual inspection of samples and boring operations.
- The stratum lines shown on the boring logs are based upon interpretation and may not represent precise subsurface conditions.
- Water level readings have been made in the drill holes at times and under conditions stated on the boring logs. Fluctuations in the groundwater level may occur due to other factors than those present at the time measurements were made.
- 4. The Standard Penetration Test N-value, as specified by ASTM D-1586, is defined as the number of blows required by a 140-pound hammer falling 30 inches each blow to drive a 2-inch outside diameter split spoon sampler 12 inches.

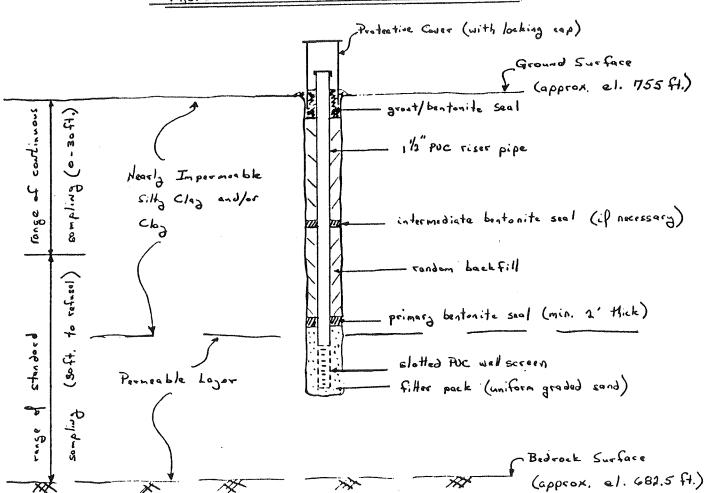
SOIL CLASSIFICATION CHART

(Unified Soil Classification System)								
	MAJOR DIVISI	OPIS	GRAPH SYMBOL	LETTER STHBOL	TYPICAL DESCRIPTIONS			
		Clean Gravels (11ttle or so	٠٠٠ ٥٠٠ ١	타	Mell-graded gravels, gravel- sand mixtures. Ittle or no fines			
	GRAVELS More than \$01	fines)		ę,	Peorly-graded gravels, gravels sand mixtures, little or mo fines			
	fraction larger than No. 4	Gravels with appreciable		64	Silty gravels, gravel-send- silt mixtures			
CBARSE- GRAINED		amounts of fines		ec.	Clayey gravels, gravel-sand- clay mixtures			
SOILS Nore then SOI of Reterial		Clean Sonds (little or		SV	Mall-graded sends, gravelly sends, little or mo fines			
larger than Mo. 200 sieve	SAMDS Less than 50% of coarse fraction larger than No. 4 slove	so fines)		\$P	Peorly-graded sands, gravelly sands, little or no fines			
		Sands with appreciable amounts of fines		Sa	Stilty sends, send-silt minteres			
				sc	Clayey monds, sand-clay mixtures			
	SILTS ARD		鬼	inorganic silts and very fine sands, rock floor, silty or clayey fine sands or clayey silts with slight plasticity				
	Low plastic Liquid Limi			a	inorganic clays of low to medium plasticity gravelly clays, sandy clays, silty clays, lean clays			
FIRE GRAINED SOILS				α	Organic Silts and organic Silty clays of low plasticity			
Less then 801 of enterial	SILTS ARD	SILTS AMO CLAYS			imorpanic Silts, micaceous or dietomaceous fine sand or silty soils			
Parger than So. 200	High Plasti	ctty		CH	inorganic clays or high plasticity, fat clays			
Bleve		Liquid Limit >50%			Organic clays or medium to high plasticity, organic silts			
	Highly Orga	nic Soils	\equiv	Pi	Peat, Numus, swamp soils with orpanic contents			
	Sti scr 1 tanese	s F111	****	FILL	Hiscellaneous fill may belong to any division but is identi fied as Fili			

GEOTECHNICAL REFERENCE
STANDARDS

DATE 6.20.84	SUBJECT Lancaster Reclamation	SHEET NO OF
CHKD. BY DATE	Company, Lancaster, M. Y.	

PROPOSED MONITORING WELL DETAILS



Scale: Hot To Scale

NOTES:

- 1. The above monitoring well is proposed for a deep well installation in the eastern portion of the site.
- 2. The screen will be installed at the depth required to penetrate the nearly impermeable silty clay and/or clay material. It may be necessary to place the screen near the bedrock surface.

APPENDICES

APPENDIX A - Test Boring Logs

APPENDIX B - Test Pit Logs

APPENDIX A

Test Boring Logs

FIELD BORING LOG Client Lancaster Reclamation Company Project Landfill Evaluation BUFFALO DRILLING COMPANY. INC. File No. 84-115 Boring No. B-1 1965 Sheridan Drive Kenmore, New York 14223 Surface Elevation 757.67 John Sniderhan Driller Type of Drill Rig CME-55 Datum -Location Refer to sketch Sampling Method Split-spoon Date Started 3/14/84 Completed 3/14/84 Size & Type of Bit 3-3/4 in. ID augers Top of Rock Elevation -Overburden Samples: Disturbed 8 Undist.____ Bottom of Hole Elevation____ Total Depth of Hole 31.5 ft. Ground Water Depth 26 ft. at completion Depth Drilled into Rock 0 ft. Blows per % Rec Depth REMARKS SOIL AND ROCK DESCRIPTION Samp] H (RQD) .5 ft. (ft.) Augered to 3 ft. Compact slage - (FILL) without sampling 3 3 S-1: 3-5' S-1 | 13 Brown, medium dense, Silty Sand and f. Gravel, little crushed 10 16 stone, moist (FILL) 19 S-2: 5-7' 11 Brown, dense, Gravelly SAND, S-2 38 little Silt, dry (GM). 19 17 16 S-3: 7.5-9.5' S-3 Same as S-215 19 34 21 20 10 S-4: 9.5-11.5' 27 33 S-4 60 Same as S-245 15

Brown, stiff, Silty CLAY, some f.

Sand, moist, moderate plastic (CL)

Brown, dense, Silty f. SAND, moist

Notes:

21

10

9

40

S-5

30

(SM).

Boring No. B-1

S-5: 14.5-16.5'

Sheet 1 of 2

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client	Lancaster Recl	<u>amatio</u>	n Company) Marie
Project_	Landfill Evalua	<u>tion</u>		
File No.	84-115	Boring	No. B-1	***

Depth (ft.)		ws per ft.	Sample No.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION		REMARKS
21-	13 29	21	S-6	34		Brown, dense, f/m SAND, little Silt, moist (SM).	S-6:	19.5-21.5'
- 25 ⁻ - -	17 25	11 21	S-7	38		grade: wet	S-7:	24.5-26.5'
30-	21	13 27	S-8	48		Same as S-7.	S-8:	29.5-31.5
	33					Bottom of Hole 31.5 ft.		
35 ⁻					·	•		
-						·		•
god								
						•		
Cod GEO								
				<u></u>				. 9

Notes:

Sheet 2 of 2

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client	Lancaste	er Reclamation	ı Com	pany
Project_	<u>Landfill</u>	Evaluation	**************************************	
Eilo No	84-115	Boring	No.	B-2

Driller	John Sniderhan	Surface Elevation 752,84
Type of Drill Rig	CME-55	Datum -
Sampling Method	Split-spoon	Date Started /14/84 Completed /14/84
Size & Type of Bit	3-3/4 in. ID augers	pace Startem/14/04 compressed 1.77
	Disturbed 7 Undist	Top of Rock Elevation Bottom of Hole Elevation
Total Depth of Hole_ Depth Drilled into R		Ground Water Depth No water at completion

Depth (ft.)		s per	Sample Mo.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION	REMARKS
1 -						Compact slag - (FILL)	Augered to 4.5 f
						Brown, medium dense, silty f. SAND, moist (SM).	
_		7					
5 -	14	19	S-1	33	0	Reddish brown, very stiff, Silty	S-1: 4.5-6.5' (no recovery)
	23	6				CLAY, little f. Sand and f. Gravel, moist, moderate plasti-	
4316-	11	14	S-2	25		city (ML-CL).	S-2: 6.5 - 0.5
	17						
10	11	8 14	S-3	25		Same as S-2	S-3: 9.5-11.5'
econ-	20						
dita							
4000		5					
15-	7	11	S-4	18		grade: plastic, trace f.	S-4: 14.5-16.5'
	14					Gravel.	
equ			-				
		5	-{				

Notes:

Boring No. B-2

Sheet 1 of 2

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client Lancaster Recl	amatio	n Compa	ny
Project Landfill Evalua	tion		
File No. 84-115	Boring	No.	B-2

Depth (ft.)	Blows per	Sample No.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION	REMARKS
21-	5 7	S-5	12	(KQD)	grade: stiff, plastic	S-5: 19.5-21.5'
25	5 7	S-6	12		Same as S-5.	S-6: 24.5-26.5'
30 -	6 7 7	S-7	13		grade: wet Bottom of Hole 31.5ft.	S-7: 29.5-31.5'
35 -						·
+						
		Maderial School Advisor Science Annual Control	оминаточнательной о			

Notes:

Sheet 2 of 2

В	1	DRIL 965 SI	LING herid	COMP an Di	ANY,	File No. 84-115	Boring No. B-3
Driller	TO THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	elipresia materia generale ancestra m	კ	ohn S	nider	han Surface Elevation 75	3 47
Type of	Drill	Rig		ME-55	-	Datum -	рытального держерину цейнального верхения и со верхения в со мере развичения применення до наличения общений о
Sampling	g Metho	d			spoon	Location Refer to sketch	2/14/04
Size &	Type of	Bit	3.	-3/4	in. I	D augers Date Started3/14/84 C	ompleted 14/04
Overbur	den Sam	ples:	Distur	bed '	7 Und	ist Top of Rock Elevation	
						Bottom of Hole Elevation_	
Depth D						Ground Water Depth No wate	r at completion
20,000			STEEL STATE OF THE		***************************************		
Depth (ft.)		ws per ft.	Sample No.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION	REMARKS
1 -						Compact slag - (FILL)	
						CIRL C CANE	
_						Brown, medium dense, Silty f. SANI moist (SM).	1
-						110136 (311).	
5 -		9				n atiss Silt and Clay	S-1: 4.5-6.5'
	10	10	S-1	20		Brown, very stiff, Silt and Clay, little f. Sand, trace f. Gravel,	(intermittent thin
	13					moist, slight plasticity (ML-CL).	lenses of f. Sand and Silt).
			1				
10_		5]				
***	11	14	S-2	25		Reddish brown, very stiff, Silty	S-2: 9.5-11.5'
	17		_			CLAY, little f. Sand, trace Gravel, moist, moderate plasticit	,
]			(ML-CL).	
15_		6					
	11	12	S-3	33	0		S-3: 14.5-16.5'
	14	5					
	7	12	S-4	19		grade: plastic, wet	S-4: 16.5-18.5'
	19		_				
20		4		<u></u>			D 3
Notes:			•				Boring No. B-3
							Sheet 1 of 2

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client	Lancaste	er Reclamati	on Com	ipany
Project_	Landfill	Evaluation	n la constantina de la consta	
File No.	84-115	Boring	g No	B-3

Depth (ft.)	Blows po	Sample Mo.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION		REMARKS
21 - -	12 8	S-5	20		Reddish brown, very stiff, Silty CLAY, interbedded thin lenses of gray Silt and f. Sand, trace Gravel, wet, plastic (ML-CL).	S-5:	19.5-21.5'
25- - -	6 8	 1	14		grade: stiff	S-6:	24.5-26.5'
30-	6 7	I	13		Same as S-6.	S-7:	29.5-31.5'
-					Bottom of Hole 31.5 ft.		
35 - -							
·							
-							

Notes:

Sheet 2 of 2

	FIELD	BOR	ING L	0G		Client Lancaster Rec	
В	UFFALO DRIL 1965 S Kenmore,	herid	an Di	rive	•	Project Landfill Evalu File No. 84-115	
Driller		J	lohn :	Snider	han	Surface Elevation 75	7.87
	Drill Rig					Datum -	
i e	g Method					Location Refer to sketc	
ŀ	Type of Bit					Date Started3/15/84	Completed3/15/84
0verbur	den Samples:	Distu	bed	9 Und	ist	Top of Rock Elevation	
	epth of Hole					Bottom of Hole Elevation	
Į.	rilled into Ro					Ground Water DepthNo wate	r at completion
			-				·
Depth (ft.)	Blows per	Sample No.	N	% Rec (RQD)	SO	IL AND ROCK DESCRIPTION	REMARKS
1 -					Compac	t slag - (FILL)	
-						brown, compact, mixed ay, Sand and Gravel, ILL).	
5 — —	9 10	S-1	24		Brown, c (SM).	dense, Silty f. SAND, wet	S-1: 4-6'
10- - -	6 11 15 15	S-2	26		CLAY, 1i	brown, very stiff, Silty ittle f. Sand, moist plasticity (ML-CL).	S-2: 9-11'
- 15_ -	5 6 7 10	S-3	13			ade: stiff, trace f. plastic	S-3: 14-16'
20	22 32	S-4	67			dense, SAND and GRAVEL, Silt. wet (GM).	S-4: 19-21' Boring No.B-4

Sheet 1 of 2

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client_	Lancast	er Reclamation	Company
Project		Evaluation	
File No.		Boring No	o. B÷4

Depth (ft.)		ws per i ft.	Sample No.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION		REMARKS
21-	35	13	S-4	67			S-4:	19-21'
_	13 17	10 10	S-5	27		Brown, dense, SAND and GRAVEL, some Silt, saturated (GM).	S-5:	21-23'
25- - -	3	<u>4</u> 5	S-6	8		Reddish brown, stiff, CLAY, little Silt, plastic, wet (CL).	S-6:	24-26'
- 30- -	4 6	6 6	S-7	12		Same as S-6. (Thin lense of Gravelly SAND from 30 to 30.5 ft.)	S-7:	29-31'
35 	4 6	5	S-8	11		Same as S-6.	S-8:	34-36'
40-	4	6 7	S-9	12		Same as S-6	S-9:	39-41'
+						Bottom of Hole 41 ft.		
				novide exhibite exhib				2

Notes:

Sheet ² of ²

FIELD BORING LOG Client Lancaster Reclamation Company Project Landfill Evaluation BUFFALO DRILLING COMPANY, INC. B-5 1965 Sheridan Drive File No. 84-115 Boring No. Kenmore, New York 14223 Surface Elevation 754.66 John Sniderhan Driller CME-55 Datum -Type of Drill Rig Location Refer to sketch Split-spoon Sampling Method Size & Type of Bit 3-3/4 in. ID augers Date Started3/15/84 Completed8/15/84 Top of Rock Elevation_____ Overburden Samples: Disturbed 9 Undist.____ 31 ft. Bottom of Hole Elevation Total Depth of Hole____ Ground Water Depth No water at completion Depth Drilled into Rock 0 ft. Sample No. % Rec Blows per Depth REMARKS SOIL AND ROCK DESCRIPTION (RQD) (ft.) .5 ft. Reddish brown, stiff, Silty Clay S-1: 0-2' 5 8 1 -S-1 20 some Sand and Gravel, wet, 12 16 moderate plasticity (Compacted Fill). 12 15 Reddish brown, hard, Silty CLAY, little f. Sand, trace f. Gravel, S-2: 4-6' S-2 | 40 25 28 moist, moderate plasticity (ML-CL). 10_ . . .grade: stiff, plastic S-3: 9-11' S-3 | 10 6 15 5 8 S-4: 14-16' S-4 23 Brown, medium dense, SAND and GRAVEL, some Silt, saturated (GM). 15 10 20 13 S-5: 16-18' Reddish brown, stiff, CLAY, some S-5 19 Silt, little f. Sand, trace 6 f/m Gravel, wet, plastic (CL). S-6: 19-21' 20 11 10

Notes:

Boring No. B-5

Sheet 1 of 2

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client	Lancaster Recl	amation	n Compan	<u></u>
Project_	Landfill Evalua	tion		1234201110000000000000000000000000000000
File No.	84-115	Boring	No.	B-5

Depth (ft.)		ws per ft.	Sample No.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION		REMARKS
21	7	9	S-6	17	0		S-6:	19-21'
-	<u>3</u> 5	5	S-7	9		Reddish brown, stiff, CLAY, some Silt, little f. Sand, trace f/m Gravel, wet, plastic (CL).	S-7:	21-23'
25	4 6	6 12	S-8	12		Same as S-7	S-8:	24-26'
30	4	5	S-9	12		Same as S~7	5 0	00.011
-		7	3-3	16			5-9:	29-31'
1						Bottom of Hole 31 ft.		
35								
+								•
-							ŧ	
						ø		
-								
	***************************************	-	***************************************	(OA) OA TO THE EMPLOY AND THE STATE OF THE S	•••••••••••••••••••••••••••••••••••••••			

Notes:

Sheet 2 of 2

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client		Reclamation	
Project	Landfill	Evaluation	•
File No.	84-115	Boring I	No. B-6

Driller John Sniderhan	Surface Elevation - 732,70
Type of Drill Rig CME-55	Datum
Sampling Method Split-spoon	Location Refer to sketch
Size & Type of Bit 3-3/4 inch ID augers	Date Started 3/28/84 Completed 3/28/84
Overburden Samples: Disturbed 6 Undist	Top of Rock Elevation-
Total Depth of Hole 26.5 ft.	• • • • • • • • • • • • • • • • • • • •
	Bottom of Hole Elevation -
Depth Drilled into Rock 0 ft.	Ground Water Depth Refer to notes

Depth (ft.)	Blows per .5 ft.	Sample No.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION		REMARKS
1-	3 5 4 4	S-1	9		Stiff, brown, Silty Clay, little f. Sand, tr. f. Gravel, moist, slight plasticity (Compacted Fill)	S-1:	0-2'
5 —	29 20 17 23	S-2	37	,	Dense, brown, SAND and GRAVEL, little Silt, saturated (GM).	S-2:	4.5-6.5'
- 10 	17 22 13 15	S-3	35		Same as S-2.	S-3:	9-11'
	12 17 19 18	S-4	36		Same as S-2.	S-4:	14.5-16.5'
20	18						

Notes:

Sheet No. 1 of 2

 Water at level of adjacent pond at completion approximately 5 ft. below ground surface.

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client	Lancaster	Reclamation	gyngiriood/gyGddynddo	 a parameter de la constitución d
Project	Landfill	Evaluation		
File No.		Boring		

Depth (ft.)		ws per	Sample No.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION		REMARKS
21 -	34 52	38	S-5	72		Very dense, brown, Silty f/c SAND, tr. Gravel, saturated, (SM-SW).	S-5:	19.5-21.5'
25 – 25 –	33	_10 _36	S-6	69		Same as S-5.	S-6:	24.5-26.5'
-	41					Bottom of Hole - 26.5 ft.		
30 ⁻ -								
35 -								
-								
6000m								
60m							·	

Notes:

Sheet 2 of 2

						months to the second			
FIELD BORING LOG							Client Lancaster Reclamation		
BUFFALO DRILLING COMPANY, INC.							roject Landfill Evalua		
		.O DRII 1965 S				in.	File No. 84-115		
		more,	-			3 "	116 NO. CI SAV	BOTING NO. 2	
~ 199	titerinanyaggunaggunaggunageun	entransportunista de la constitución de la constitu			- CONTRACTOR CONTRACTO			2 A	
							Surface Elevation - 732.55		
						social latinose contro forme com estre habe sendi qui dividuo		alat to with the control of the distribution of the control of the	
Samplin	ıg Metho)d <u> </u>	<u>plit-</u>	spoor	1		ocation Refer to sketch		
Size &	Type of	Bit_3	-3/4	inch	ID au	gers D	Date Started 3/28/84 Completed 3/28/84		
in deciditate the transporter					مسدون فيرج معاديد مشارع فسما الأساس			WANGERING CO	
0verbur	den Sam	ples:	Distu	rbed]]	Und	ist. T	Top of Rock Elevation		
Total D	epth of	Hole <u>5</u> (0.0 f	t.		В	ottom of Hole Elevation -		
							Ground Water Depth Refer to notes		
•			•	**************************************		4.04344-3-0*******************************	Managarita (Managarita (Managarita (Managarita (Managarita (Managarita (Managarita (Managarita (Managarita (Ma	•	
Nonth	010		۵	<u> </u>					
Depth (ft.)	1	ws per	ample No.	N	% Rec (RQD)	SOIL AND	ROCK DESCRIPTION	REMARKS	
•	1	ws per	Sample No.	N				REMARKS	
•	1	•				Stiff, brown,	, Silty Clay, little		
(ft.)	.5	•	Sample No.	N 9		Stiff, brown,	, Silty Clay, little Gravel, moist	REMARKS S=1: 0-2'	
(ft.)	4	ft. 5_				Stiff, brown, f. Sand, tr.	, Silty Clay, little Gravel, moist		
(ft.)	4	ft. 5_				Stiff, brown, f. Sand, tr.	, Silty Clay, little Gravel, moist		
(ft.)	4	ft. 5 6				Stiff, brown, f. Sand, tr.	, Silty Clay, little Gravel, moist		
(ft.)	4 4	5 6	S-1	9	(RQD)	Stiff, brown, f. Sand, tr. (compacted Fi	, Silty Clay, little Gravel, moist	S=1: 0-2'	
(ft.)	4 4	ft. 5 6		9		Stiff, brown, f. Sand, tr.	, Silty Clay, little Gravel, moist		
(ft.)	4 4	5 6	S-1	9	(RQD)	Stiff, brown, f. Sand, tr. (compacted Fi	, Silty Clay, little Gravel, moist	S=1: 0-2'	
(ft.)	4 4	5 6	S-1	9	(RQD)	Stiff, brown, f. Sand, tr. (compacted Fi	, Silty Clay, little Gravel, moist	S=1: 0-2'	
(ft.)	4 4	5 6	S-1	9	(RQD)	Stiff, brown, f. Sand, tr. (compacted Fi	, Silty Clay, little Gravel, moist	S=1: 0-2'	
(ft.)	4 4	5 6	S-1	9	(RQD)	Stiff, brown, f. Sand, tr. (compacted Fi	, Silty Clay, little Gravel, moist	S=1: 0-2'	

tr. Clay, saturated, (SM-SW).

Medium dense, brown, Silty

f/m SAND, saturated (SM).

20 Notes:

15

17

8

16

3.

10

Sheet No. 1 of 2

S-4: 14.5-16.5'

Water at level of adjacent pond - approximately 5 ft. below ground surface.

18

S-4

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client_	Lancaster	Reclamation	
Project	Landfill .	Evaluation	Antimicrominal and the distribution of the control
File No.	84-115	Boring	No. B-7

	Depth (ft.)		ws per	Sample Mo.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION	REMARKS
. !	21 -	8 12	9	S-:	17		Same as S-4.	S-5: 19.5-21.5'
	25 - -	5 10	3	S-6	14		Same as S-4.	S-6: 24.5-26.5'
	30	6 10	4 12	S-7	18		Same as S-4.	S-7: 19.5-31.5' (material blowing into augers - 2')
	35	14	21 15	S-8	29		Same as S-4.	S-8: 34.5-36.5' (material blowing into augers - 5'; washed out before sampling).
	40	7 8	9	S=9	16		grade: gray, tr. f/m Gravel	S-9: 39.6-41.5'
	45	40	50 41	S-10	81		Very dense, gray, Sandy Silt and f/c Gravel, tr. Clay, moist, (TILL).	S-10: 44.5-46.5'
- Marie Constitution of the Constitution of th	.50	þo	0/5"	5-1			Same as S-10.	S-11: 49.5-50.0'

Refusal with sampler at 50 ft. Bottom of Hole.

Sheet 2 of 2

						Fire Mark History (British springer) as an extension of a same bally and produced as a same bally	
		FIE	ហេ ខ្ល	MING	LGG		ema Tr. 1M
	OUTEA	^ ^n	, n h W 811	- 200			
	BUFFAI	LO DRI 1965 S	LLING	G CUM	IPANY,	211 V 0	
					1422	File No.84-115	Boring No. B-8
		OCCURS STATEMENT OF THE	TO THE OWNER OF THE OWNER, THE OW	-CAMPAN-MANAGEME			
ł .						Surface Elevation - 75	57.67
Туре о	of Drill	Rig_C	ME-55	 	TO WHAT COMMUNICATION OF THE PROPERTY OF THE P	Datum	
i						LocationRefer to sketch	
						gers Date Started 3/29/84	
				*************************************	- A. M	Will be de Liver and the second and	completed 3/47/04
						dist Top of Rock Elevation	
Total	Depth of	f Hole_	3	1.0 f	t.	Bottom of Hole Elevation -	
						Ground Water Depth Refer	
							LO HOCES
Depth	Blo	ws per	١٣	T	∡ Rec		T
(ft.)	4	ft.	Sample Mo.	K	(RQD)	SOIL AND ROCK DESCRIPTION	REMARKS
	<u> </u>		18	 	 		
1 -	***************************************		-			Compacted slag - (FILL).	Augered to 4 ft.
•			1				without sampling
•]			·	T
- _	7	13	1				
5 -	17	23	S-1	30		Very stiff, brown, Silty CLAY,	S-1: 4-6'
	1-4	<u></u>				little f. Sand, damp, slight plasticity (ML-CL)	
			l			plasticity (MA-CL).	
						:	
494							
10 -	6	8	ر ء	3.0			
10	11	13	S-2	19		Stiff, brown, Silty CLAY,	S-2: 9-11'
-						little f. Sand, moist, moderate plasticity (ML-CL)	
400mber						prasoror of 1. 1- 52/	
C	<u> </u>			·			
(Algori	 						
15 -	3	5	S-3	10		manda e e e e e e e e e e e e e e e e e e e	
* -	5	6	, ,	10		grade: wet, plastic.	S-3: 14-16'

	I		I		. 1	•	

Notes:
1. Water used to wash material out of augers during drilling. Water at approximately 7 ft. below ground surface at completion with augers in hole. Field permeability test performed with augers at full depth.

Sheet No. 1

FIELD BORING LOG

BUFFALO DRILLING COMPANY, INC. 1965 Sheridan Drive Kenmore, New York 14223

Client Lancaster Reclamation

Project Landfill Evaluation

File No. 84-115 Boring No. B-8

Depth (ft.)		s per ft.	Sample No.	N	% Rec (RQD)	SOIL AND ROCK DESCRIPTION		MARKS
21 - -	8 5 3	11 5 5	S-4 S-5		_	Medium dense, grayish brown, Sandy SILT, saturated (ML). Loose, grayish brown, Silty f/c	S-4: S-5:	19-21'
25 -	2 3	2 3	S-6	5		Medium stiff, reddish brown, CLAY tr. to little Silt, wet, plastic (CL).	S-6: 7	24-26'
30	3 4	4	S-7	8		Same as S-6.	S-7: 2	29-31'
+						Bottom of Hole - 31.0 ft.		
35								
+								•
1								
-				The state of the s				
				Annes de la constitución de la c				

Notes:

Sheet 2 of

2

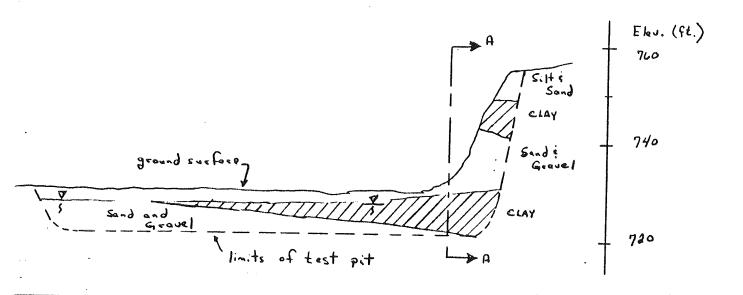
APPENDIX B

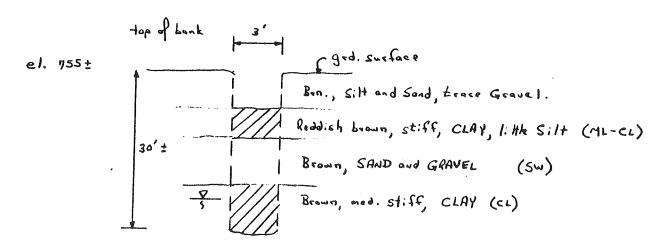
Test Pit Logs

BY JSB DATE 4.21.84	Lancaster Reclamation	SHEET NO. OF
CHKD. BY DATE	Laucaster Reclamation	JOB NO. 84-115
	Test Pit No 1	

Introduction

Test Pit Ho. I was execuated and logged on 3.29.84. The test pit is located approximately mid. point of the northern edge of the site. The conditions encountered are graphically presented below.





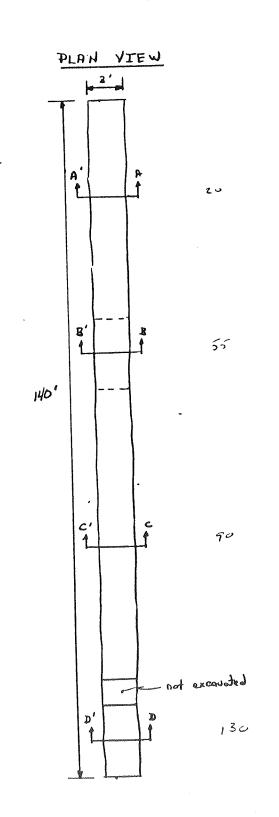
Section A-A' (not to scale)

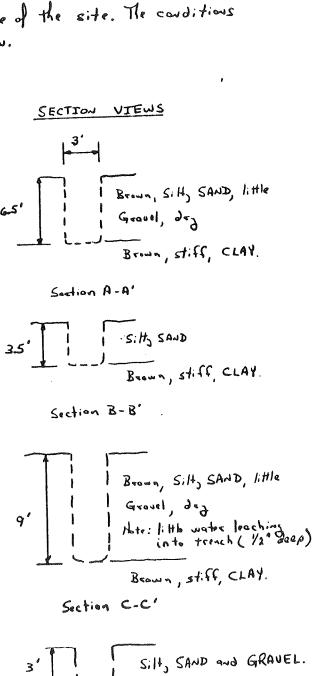
Note: Top of the sand and gravel layer appears to dip in the easterly direction.

ግሮ <i>ር</i> ገወ	1.11.04	SUBJECT	SHEET NO OF
BA 729	DATE T. ALL VI	Lacoster Reclamation	JOB NO. 84-113
CHKD. BY	DATE	Langater Reclamation	

Introduction

Test Pit No. 2 was excavated and logged on 4.2.84. The test pit is located approximately mid-point of the southern edge of the site. The conditions encountered are graphically presented below.





| Brown, stiff, CLAY

Section D-D'

SAND and GRAVEL.

Matal Casting Sanda Warle Sanda TOMAWANDA - Chevrolet Metal Casting Plant WORE OT. SAMPLES OF SOLID WASTE FROM MCP. SANDS. DED BY EPA EXTRACTION PROCEDURE.

Sasiudse, Laleachate.

```
11-17-1990
              11-17-1930
                                 SMIXTURE
              LHIXTURE
             (Leachate)
                                 4500.00000
   8. PH)
                               < 25000E+05>
HERCEPS)
                                  300.00000
   (.10000E+05)
   .. :/3>
                    .00700
                                     25000>
   ( . . . . . )
                    .04100
                                     5.50000.
   (1777) 5
                    .09500
                                    12.75000
   (PPM) 100
                                     .50000>
                   。01000>
   KPPH)
                                     .50000>
                    .05000
   (PPH)(O
                                     7.00000
                   .05000>
   (PPH) 5.0 (
                                     _50000)
                   ~01000)
   (PPH)
                                     5.50000
                    .05000
   (PPH)
   (PPH) 50
                                    13.40000
                    .05200
                   .40000>
                                   40.00000>
    (PPB) 230 (
                                     9.50000
                   .04000)
    (PPM)
    (PPH) IO
                    _02500
                                     4.05000
                   .01000>
    (PPM)5.0 (
                                     ~50000>
                   _00500>
                                     .25000>
    (PPH)
                    .97000
                                    49.50000
    (PPM)
264
                                     2.90000
'71S
```

- MS/L FOR WATER MS/KG FOR SLUDSE
- = US/L FOR WATER US/KS FOR SLUDGE
- : RESULTS FOR DILS AND SLUDGES ANALYZED BEFORE 9-1-79 ARE ALL MG/KG DETECTED . ()

De Cil. Da Care Colo.

11650 GENESEE ST. @ ALDEN, N.Y. 14684

JANUARY 09, 1979

LANCASTEL RECLAMATION

FERRY CONSTRUCTION

3179 WALDEN AVENUE

LANCASTER, N.Y.

DEAR JOHN,

THE MATERIAL THAT WE WILL BE DUMPING AT YOUR SITE IS A UNILAYERED LOW VISCOSITY SLUDGE COMPOSED OF PORTLAND CEMENT, ASBESTOS AND GLASS FIBRES IN THE APPROXIMATE AMOUNTS SHOWN BELOW:

PORTLAND CEMENT	· 205
ASBESTOS FIBERS	5%
GLASS FIBRES	103
WATER	65%

SINCERELY YOURS,

ROBERT LOWREY PLANT MANAGER

TABLE IV-1 SUMMARY OF WASTES DISPOSED OF AT THE LANCASTER RECLAMATION, INC. SITE

Date Perm Approved		Waste Type	Quantity Disposed ^a	Constituents of Concern
5/11/76	Dresser Trans- portation Equip- ment Division	Bentonite Clay Slurry	76,000 cu.yd. prior to thickening; 165 after thickening.	Leachate: zinc
1/24/78	Chevrolet Division, General Motors	Foundry Sand Slurry	1.7 million gallons	Pit: oil Pit Leachate: selenium, cadmium Mixture: oil, PCB Mixture leachate: cadmium, lead
1/4/79	Fabritron	Cement, asbestos, and glass fiber slurry	7,000 gallons	Asbestos
5/11/76	Dresser Trans- portation Equip- ment Division	Foundry Sand	2,200 cu.yd.	Leachate: phenols
6/16/81	Reed Holdings,	Surface print waste, pre- paste polymer prepast alkal		
10/29/80	Dresser Trans- portation Equip- ment Division	Shot blast of steel castings	Mixed with foundry sand	Leachate: phenols
5/27/82	Sweet Home Cen- tral School Bus Garage	Dirt and sludge from catch basin	See below	Sluge: oil
7/7/83	Ormsby Voca- cational School Bus Garage	Dirt and sludge from catch basin	9,000 cu.yd., includes Sweet Home	Heavy metals and oil and grease

Based on telephone interview with J. Ferry of Lancaster Reclamation, Inc., 4/25/85.

FRONTIER CHEMICAL WASTE PROCESS INC.

ENVIRONMENTAL LABORATORY

4626 Royal Avenue, Niagara Falls, New York 14303

Ferry Concrete Construction Co., Inc.	
3179 Walden Avenue, Depew, New York 14043	
AND WORK REQUESTED BY: Mr. John Ferry	
February 4, 1976	
ER CHEMICAL LAB NO. FC-2476	
I. COMPOSITION OF SLUDGE	
PARAMETER	FINDINGS AND DESCRIPTIONS
Physical Characteristics	Black Thixotrophic Sludge
Color: (wet) (dry)	Black Gray
Percent Solid: Mimimum Maximum Mean Average	6.15% 8.31% 7.33%
	Neutral
CHEMICAL COMPOSITIONS	
Moisture (Percent Water)	91.50%
- Control of the Cont	8.50%
a contract of the second of th	9.95%
	22.25%
	65.19%
	1.25%
CaO (Lime type)	0.36%
	AND WORK REQUESTED BY: Mr. John Ferry February 4, 1976 I. COMPOSITION OF SLUDGE PARAMETER Physical Characteristics Color: (wet)

^{*} Organic components plus carbon

^{**} Clay is Bentanite consisting mainly of Montmorillonite

whit Non-magnetic

ENVIRONEENTAL LABORATORY

MILLOWS WINDER PROCESS.

4626 Royal Avenue, Niagera Falls, New York

Ferry Concrete Construction Co., Inc. TOB: 3179 Walden Avenue, Depew, New York 14043

AMPLE AND WORK REQUESTED BY: Mr. John Ferry

February 4, 1976 DATE:

RONTIER CH	IEMICAL LAB NO. FC-2476	
TTEM	II. COMPOSITION OF WATER PARAMETER	ANALYSIS
1	Origins	Filtrate from
		Sludge filtration
2	PH.	7.75
3	Specific gravity	1.03 @ Rt
4 .	Color (APHA unit)	. 20
5	Total Dissolved Solids (TDS)	30,500 ppm
6	Chlorides (C1)	13,500 ppm
7	Sulfates (SO ₄)	600 ppm
8	Silica (\$i0)	45 ppm.
9	Nitrate (NO ₃)	70 ppm
10	Calcium (Ca)	9,600 ppm
11	Sodium (Na)	480 թթա .
12	Iron (Fe)	125 ppm
13	Zinc (Zn)	45 ppm
14	Aluminum (Al)	50 ppm
15	Total Organics (TOC)	1.100 ppm
450 GDF		1
		1
Environmental environs environs environs environs environmental environm		THE STATE WASHINGTON TO ASS STATEMENTS CAMPAGED REMOVED AND ASSESSMENT OF THE STATEMENT OF

ANALYSIS CONSULTING SALES SERVICE

Transfered 0.4 16701 T.A. 511 153-6087

THE DIVISION

August 26, 1980

Dresser Transportation Equipment Division Dresser Industries, Inc. 2 Main Street Depew, New York 14043

Subject: Sample for N.Y.S. Leachate Analysis, July 31, 1980 (P.O. #66643)

Gentlemen:

Results from leachates prepared: Environmental Conservation procedures are as follows:

		LEA	C H A T	E	
	A	general constitution of the constitution of th	B	C	ann garan an de de la maria ann ga an tha dhe dha an tha dhe an th
рH	8.5		8.3	8.4	·
Chlorides	14	mg./ltr.	13 mg./1	tr. 14	mg./ltr.
Iron (Total)	3.70	20	3.42 "	3.60	£ 8
Conductance - micromhos	680		660	660	
Phenol	0.012	mg./ltr.	0.010 mg./	/ltr. (0.01	4 mg./ltr.
T.O.C.	197		198 " .	. 212	

Should there be any questions regarding this information or if we may be of additional assistance in any regard, please feel free to contact our office.

Very truly yours,

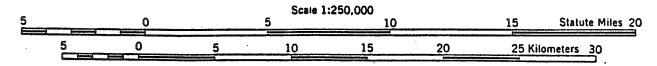
TECK:LABS DIVISION

JSM/gc

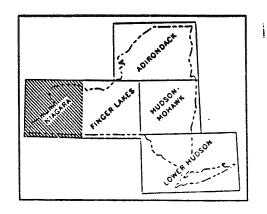
GEOLOGIC MAP OF NEW YORK

1970

Niagara Sheet



CONTOUR INTERVAL 100 FEET



COMPILED AND LEUTEL

belief. False statements made herein are purishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

SIGNATURE AND ATTLE OF REPRESENTATIVE OF WASTE GENERATOR

DATE / /

b. SIGNATURE AND TITLE OF REPRESENTATIVE OF WASTE GENERATOR

b. SIGNATURE AND TITLE OF REPRESENTATIVE OF TREATMENT OR DISPOSAL FACILITY

TO STATE OF THE STATE OF

1/13/8/ DATE /14/5 MITTLE TIPE THEATHER STREAM

OF AM THE TETAL OR HAZARIXOUS VASTE STREAM

Project/Tacality Name Lancaster Reclamation Co. Erie Owner's Name Lancaster Reclamation 40. Addressistreet, City, State, 10. Contained Co. Lancaster Reclamation Operator's Hame Jacobser Reclamation Nethod of Treatment or Disposal Lagooning Representative of Maste Company Generating Maste Correct City, State, 21pt Representative of Maste Contained Is. Address of Facility Generating Maste City, State, 21pt Representative of Maste Contained Is. National Address of Representative NET SAMIMO OF MATON Expected Annual Maste Production Frommer Production Fancy 2000 Callyr. Maste Composition 10. Maste Composition 11. Maste Composition 12. Address States 13. Address States 14. Contained Cas 15. Maste Mauler 16. Total Contained Cas 17. Maste Composition 18. Maste Composition 19. M	ee Application Instructions	on Reverse S	ıde) (.	-			
Lancaster Reclamation 403 Pavement Rd Lancy 1975 1 1975 1 2000 1 19 19 19 19 19 19 19 19 19 19 19 19 1	Project/Tacility Name		2. Cour	nty .	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	• • • •	1 4. // 101	1636164
Lancaster Reclamation 9. Addressitives (city, state, if persons 1. Increase 1. Addressitive of 1. Increase 1. Addressitive of 1. Increase 1. I	Ouner's Name	6. Addres	sistrees	L Ciev. S	tate. las	Ccasi	1 7. 1116	, hone No
Rethod of Treatment or Disposal Lagooning Lagoon	Lancaster Reclamati	on 403 P	aveme	nt Rd L	anc.H.	. 14086	£ % 1	757 <u>51 </u>
Rethod of Treatment or Disposal Lagooning Lagoon	. Operator's Name	9. Addres	s (:: trec	c, City, S		·(c)	110. 710	phone No
Lagooning Company Generating Naste 13. Address of Facility Generating Wattelstreet, City, State, 21pt 16. Tolephone 17. 16. Tolephone 18. 16. Telephone 18. 16. Telephone 18. 18			as ab	ove	and the second s		0.01-	1/03
Company Generating Maste 13. Address of Facility Generating Maste City, State, 21p FRENCH M.	Lagooning .		•					
Representative of Waste Generator 15. Nailing Address of Representative 16, Telephore No. Doscription of Process Freducing Waste WET 3.9W.M. OPERATION WATER JSC AS COULTY. Expected Annual Waste Production 19. Waste Hauled In: Tons/yr. 20,000 Gal./yr. 10 Drums Zoulk Tank Roll-off Container Other Vaste Composition a. Average Percent Solids 35 b. 1 Liquid Sturry Studge Solid Contained Gas c. pH Range to 10 Liquid Sturry Studge Solid Contained Gas c. pH Range to 11 PORTLAND COMON. 201. Upper Lower Typical (check one) 11 PORTLAND COMON. 201. Upper Lower Typical (check one) 12 ASACSTES 50. 10 10 10 10 10 10 10 10 10 10 10 10 10	- Company Generating Waste	13. Addres	s of Fac	ility Gen	erating Wa	ste (Stree	c, City,	State, Z.
Description of Process Froducting Wiste WETT 3.4W.M. OPERATION Expected Annual Waste Production Tons/yr. 20,000 Cal./yr. Drums Zaulk Tank Roll-off Container Other Fons/yr. 20,000 Cal./yr. Physical State: a. Average Percent Solids 35 b. Diquid Sturry Studge Solid Contained Gas c. pH Range to Components St. Vol. CONCENTRATION (dry weight) Portum Comon 20 b. Deper Lower Typical As 445772 As 445772 As 445772 As 455772 Betail all hazards and nuisance problems associated with the wastes. List necessary safety, handling, treatment and disposal precautions. NONC RECE!! F. MAY 1 1979 N.Y.S Environmental-Conserv Region 9 Headquarte To Concrete 3179 Walden Av Depew, N.Y. 15-001 RECE!! F. Thereby affirm under panalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. Palse statements and exhibits is true to the best of my knowledge and belief. Palse statements and herein are punishable as a Clost A misdemeanor pursuant to Section 210.45 of the renal Low. A. Representative of Vaste Generator: D. Representative of Treatment of Disposal Facility: Date No percentative of Treatment of Disposal Facility: MAY 1 1979 No percentative of Treatment of Disposal Facility: MAY 1 1979 No percentative of Treatment of Disposal Facility: MAY 1 1979 No percentative of Treatment of Disposal Facility: MAY 1 1979 No percentative of Treatment of Disposal Facility: MAY 1 1979 No percentative of Treatment of Disposal Facility: MAY 1 1979 No percentative of Treatment of Disposal Facility: MAY 1 1979 No percentative of Treatment of Disposal Facility:	FABRITHON JOC.	1//650 enerator 15.	Mailing	Address	of Represe	ntative	16. Tele	phone No.
Expected Annual Waste Production Tons/yr. 20,000 Gal./yr. Drums Zouk Tank Roll-off Container Other Tons/yr. 20,000 Gal./yr. Drums Zouk Tank Roll-off Container Other Waste Composition a. Average Percent Solids 35 b. Liquid Slurry Sludge Solid Contained Gas c. pH Range to Components Sylve Concentration (dry weight) Departmy Conor 20 b. ASACTES ASA	ROBERT H LOW	VREY		16			16 93	7-91
Expected Annual Maste Production Tons/yr. 20,000 Cal./yr. Drums Poulk Tank Roll-off Container Other Naste Composition a. Average Percont Solids 5	. Description of Process Pro	oducing Wiste			4 15.5	1 1 1 1 1		
Tons/yr. 20,000 Gal./yr. Drums Zefülk Tank Roll-off Container Other Waste Composition a. Average Percent Solids 35 b. Diguid Slurry Sludge Solid Contained Gas c. pH Range to Components Component	WET 3.AWING	OPERATO	c~-	W 172	ar Uses	175 6	SOL MA	<i>.</i>
** Waste Composition a. Average Percent Solids 35 b. Liguid Slurry Sludge Solid Contained Gas c. pH Range to Components St Vol. CONCENTRATION(dry weight) UNIT WT. PPR 1) POALLWS CONOX 20 b. Upper Lower Typical (check one) 20 ALSTED St. Upper Lower Typical (check one) Upper Lower Typical Check one) Upper L	. Expected Annual Waste Pro	duction 19.						_
a. Average Percent Solids 55 b. Liquid Slurry Sludge Solid Contained Gas c. ph Range to					Tank Ro	11-off Co	ntainer L	_ Other_
c. pH Range to Components Com	. Waste Composition	Phy:	sical St	ate:		П с-х <i>а</i>		
Components Components	a. Average Percent Solids.	<u> </u>	Liquid	Listurry	₩ 51uage	C 2011a	LI Conta	ined Cas
1) PORTING COMON 20 Upper Lower Typical (check one) 2) ASACSTE'S 5 & COMON 10 COMON 10 COMON 10 COMON 10 CONTY CONCRETE 3179 Walden Av Depew, N.Y. 15-001 10. Waste Hauler 24. Address(struet, city, state, xip code) 25, N.Y.S. Reg. No. 26, Telcohone No. Y. CONCRETE 3179 Walden Av Depew, N.Y. 15-001 1. CERTIFICATION: 1 I hereby affirm under panalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. Palse statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. 2. Representative of Waste Generators 3. Signiture and Tity Date 4/30/49	e. pH Range to		•	· · · · · · · · · · · · · · · · · · ·				
1) PORTING COMON 20 Upper Lower Typical (check one) 2) ASACSTE'S 5 & COMON 10 COMON 10 COMON 10 COMON 10 CONTY CONCRETE 3179 Walden Av Depew, N.Y. 15-001 10. Waste Hauler 24. Address(struet, city, state, xip code) 25, N.Y.S. Reg. No. 26, Telcohone No. Y. CONCRETE 3179 Walden Av Depew, N.Y. 15-001 1. CERTIFICATION: 1 I hereby affirm under panalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. Palse statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. 2. Representative of Waste Generators 3. Signiture and Tity Date 4/30/49	Components	B! VOL	CONCEN	TRATION (d	ry weight)	1	UNIT	WT. 8
2) ACACTES 3) CLASS FIGHES 0.50 4) WATER 0.50 5) 6) 7) Was a Leaching Potential Test conducted on the Waste? Yes No If yes, attach form. Detail all hazards and nuisance problems associated with the wastes. List necessary safety, handling, treatment and disposal precautions. NONT RECENTARY MAY 1 1979 N.Y.S i Environmental Lunsery Region 9 Headquart Concrete 3179 Walden Av Depew, N.Y. 15-001 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. Palse statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. a. Representative of Waste Generator: Signature and Tital Date 1 30/19	· · · · · · · · · · · · · · · · · · ·	•	Illnner				eck one)	_
3) Mass Figure 3 0% 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				<u> </u>	<u> </u>			<u> </u>
Mass a Leaching Potential Test conducted on the Waste? Yes No If yes, attach form. Detail all hazards and nuisance problems associated with the wastes. List necessary safety, handling, treatment and disposal precautions. MAY 1 1979 N.Y.S i Environmental Conserve Region 9 Headquart Waste Hauler 24. Address(street.city.state.zip code) 25. N.Y.S. Reg. No. 26, Telephone No 684-1703 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. Falser statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. a. Representative of Waste Generator: Signiture and Tityle Date A 30/7 Date	3) ASBESTOS		-	 				
Was a Leaching Potential Test conducted on the Waste? Yes No If yes, attach form. Detail all hazards and nuisance problems associated with the wastes. List necessary safety, handling, treatment and disposal precautions. MAY 1 1979 N.Y.S i Environmental Conserv Region 9 Headquart Region 9 Headquart To Concrete 3179 Walden Av Depew, N.Y. 15-001 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. Falser statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. a. Representative of Waste Generator: b. Representative of Treatment or Disposal Facility:	31 1665 100-2			4				
Was a Leaching Potential Test conducted on the Waste? No If yes, attach form. Detail all hazards and nuisance problems associated with the wastes. List necessary safety, handling, treatment and disposal precautions. RECE! F. MAY 1 1979 N.Y.S. in Environmental-Lunserve Region 9 Headquart Region 9 Headquart CENTIFICATION: 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 Fenal Law. B. Representative of Waste Generator: Signiture and Title Date ### 130/79 1979		1.5-9		ł	1	1		11 1
Was a Leaching Potential Test conducted on the Waste? Yes No If yes, attach form. 1. Detail all hazards and nuisance problems associated with the wastes. List necessary safety, handling, treatment and disposal precautions. NONC RECE! F. MAY 1 1979 N.Y.S i Environmental-Louiserv Region 9 Headquart 1. Waste Hauler 24. Address(street,city,state,zip code) 25. N.Y.S. Reg. No. 26, Telephone No. 15-001 1. CERTIFICATION: I horeby 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. 2. Representative of Waste Generators Signiture and Tites Date 4/30/79	1) WATER	659	 			<u> </u>		
*Was a Leaching Potential Test conducted on the Waste? Yes No If yes, attach form. *Detail all hazards and nuisance problems associated with the wastes. List necessary safety, handling, treatment and disposal precautions. **RECE!** III.** **MAY 1 1979 **N.Y.S. L i Environmental-Lunserv Region 9 Headquart Region 9 Headquart **Region 9 Headquart **TY Concrete 3179 Walden Av Depew, N.Y. 15-001 **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. **Bepresentative of Waste Generator:** **Description:** **Description:** **Bepresentative of Treatment or Disposal Facility:** **Description:** **Description:** **Page 1. ** **Page 24. ** **Address(street,city, state, zip code) 25. N.Y.S. Reg. No. 26. ** **Telephone No. 684-1703* **Telephone No. 684-1703* **Description:** **Description:** **Description:** **Description:** **Description:** **Description:** **Description:** **Description:** **Description:** **Page 24. ** **Address(street,city, state, zip code) 25. N.Y.S. Reg. No. 26. ** **Telephone No. 684-1703* **Description:** **Description:	4) WATEL	659.						
MAY 1 1979 N.Y.S i Environmental Conserv Region 9 Headquart Toncrete 3179 Walden Av Depew, N.Y. 15-001 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. a. Representative of Waste Generator: b. Representative of Treatment or Disposal Facility:	4) WATEL 5) 6) 7) Was a Leaching Potential	Test conducto						C i
MAY 1 1979 N.Y.S i Environmental Conserv Region 9 Headquarte Region 9 Headquarte 7. 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. Palso statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. a. Representative of Waste Generator: Signiture and Tittle Date 1 1979 N.Y.S. Reg. No. 26, Telephone No. 684-1703	4) WATEL 5) 6) 7) 1. Was a Leaching Potential 2. Detail all hazards and m	Test conducto	ems asso	ciated wi				C i
MAY 1 1979 N.Y.S i Environmental Conserv Region 9 Headquarte Region 9 Headquarte 7. 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. Palso statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. Signifure and Title Date 1 30/79 1 30/79 1 30/79	4) WATEL 5) 6) 7) Was a Leaching Potential 2. Detail all hazards and mandling, treatment and contains an	Test conducto	ems asso	ciated wi				C i
Environmental-Conserv Region 9 Headquarte 1. Environmental-Conserv Region 9 Headquarte 1. Centrete 3179 Walden Av Depew, N.Y. 15-001 2. 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. Palso statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Fenal Law. 3. Representative of Waste Generator: 3. Signature and Title 3. Date 4/30/79 1. Signature and Title 1. Signature and	4) War a Leaching Potential 2. Detail all hazards and mandling, treatment and of	Test conducto	ems asso	ciated wi		tes. List	t necessar	C i
Environmental Conserver Region 9 Headquarts 8. Wasta Hauler 24. Address(street, city, state, zip code) 25. N.Y.S. Reg. No. 26, Telephone No. 15 - 001	4) War a Leaching Potential 2. Detail all hazards and mandling, treatment and of	Test conducto	ems asso	ciated wi		tes. List	REC	form.
Environmental Conserver Region 9 Headquarts 15-001 Region 9 Headquarts 15-001 Region 9 Headquarts 15-001 Region 9 Headquarts 8 Region 9 Headquarts 15-001 Region 9 Headquar	4) WATEL 5) 6) 7) Was a Leaching Potential 2. Detail all hazards and mandling, treatment and contact and cont	Test conducto	ems asso	ciated wi		tes. List	REC	form.
Region 9 Headquarts N. Wasta Hauler 24. Address(street, city, state, zip code) 25. N.Y.S. Reg. No. 26, Telephone No. 15 - 001 684 - 1703 N. CERTIFICATION: I hereby affirm under panalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. Falso statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. a. Representative of Waste Generator: Signiture and Tity Date 4/30/79	4) WATEL 5) 6) 7) Was a Leaching Potential 2. Detail all hazards and mandling, treatment and contains an	Test conducto	ems asso	ciated wi		tes. List	RECE MAY	form. ry safety 1 1979
N. Waste Hauler 24. Address(street, city, state, zip code) 25. N.Y.S. Reg. No. 26, Telephone No. 27 Concrete 3179 Walden Av Depew, N.Y. 15-001 684-1703 N. 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. a. Representative of Waste Generator: Signiture and Titte Date A 30/79 Date	4) WATEL 5) 6) 7) Was a Leaching Potential 2. Detail all hazards and mandling, treatment and contact and cont	Test conducto	ems asso	ciated wi		tes. List	RECE MAY N.Y.S.	form. ry safety 1 1979
Ty Concrete 3179 Walden Av Depew, N.Y. 15-001 684-1703 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 Fenal Law. a. Representative of Waste Generator: Signiture and Title Date Date 1/30/79	4) WATEL 5) 6) 7) Was a Leaching Potential Detail all hazards and mandling, treatment and contains and c	Test conducto	ems asso	ciated wi		tes. List	RECE MAY N.Y.S.	form. ry safety 1 1979
Ty Concrete 3179 Walden Av Depew, N.Y. 15-001 684-1703 7. 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 Fenal Law. a. Representative of Waste Generator: Signiture and Title Date Date 1/30/79	4) WATEL 5) 6) 7) Was a Leaching Potential 2. Detail all hazards and mandling, treatment and contact and cont	Test conducto	ems asso	ciated wi		tes. List	RECE MAY N.Y.S.	form. ry safety 1 1979
A. CERTIFICATION: I hereby affirm under panalty 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. a. Representative of Waste Generator: Signiture and Title Date Date Date 1/30/79	4) WATEL 5) 6) 7) Was a Leaching Potential 2. Detail all hazards and mandling, treatment and contains an	Test conducto	ems asso	ciated wi	th the was	tes. List	MAY N.Y.S. Avironment Region 9	form. ry safety 1 1970 tal-Conse
I hereby affirm under panalty of perjury that information provided on this form and attached statements and exhibits is true to the best of my knowledge and belief. Falso statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Fenal Law. a. Representative of Waste Generator: Signature and Title Date Date 1/30/19	4) Way a Leaching Potential 2. Detail all hazards and mandling, treatment and continuous forms. NONC.	Test conductourisance probledisposal preco	ems asso	ciated wi	th the was	En . Reg. No.	MAY N.Y.S. Wironment Region 9	form. ry safety 1 1979 tal-Conse Headqua
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 Fenal Law. a. Representative of Waste Generator: b. Representative of Treatment or Disposal Facility:	4) WATEL 5) 6) 7) Was a Leaching Potential Detail all hazards and mandling, treatment and control of the second	Test conductourisance probledisposal preco	ems asso	ciated wi	th the was	En	MAY N.Y.S. Wironment Region 9	form. ry safety 1 1979 tal-Conse Headqua
Palse statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. a. Representative of Waste Generator: b. Representative of Treatment or Disposal Facility:	4) Was a Leaching Potential 2. Detail all hazards and mandling, treatment and continuous formations and continuous format	Test conductor is ance problem disposal preconstruction of the conductor is a conductor of the conductor of	ems asso autions.	ciated wi	25. N.Y.S 15-00	En . Reg. No.	MAY N.Y.S. Avironment Region 9	form. ry safety 1 1970 tal-Conse Headqua
a. Representative of Waste Generator: b. Representative of Treatment or Disposal Facility:	Was a Leaching Potential Detail all hazards and mandling, treatment and continuous formula to the continuous formula to th	Test conductors are problem of the conductors of	, state, zepew,	ip code) N.Y.	25. N.Y.S 15-00	En . Reg. No.	MAY N.Y.S. Wironment Region 9	form. ry safety 1 1970 tal-Conse Headqua
a. Representative of Waste Generator: b. Representative of Treatment or Disposal Facility: Date Out. Mik. 4/30/79 Date Out. Mik. 4/30/79	Was a Leaching Potential Detail all hazards and mandling, treatment and continuous formations of the second statement and continuous formations of the second statements of	Test conductor is ance probled is posal precision of the second of the s	state,zepew.	ip code) N.Y.	25. N.Y.S 15-00 ation prov	En . Reg. No. l	MAY N.Y.S. Wironment Region 9 26 Te 684 his form deblief.	form. ry safety 1 1970 tal-Conse Headqua
b. Representative of Treatment or Disposal Facility:	4) Was a Leaching Potential 2. Detail all hazards and mandling, treatment and continuous formula and continuous formula and continuous formula and continuous formula attached statements and continuous formula attached statements made in the continuous formula attached statements and c	Test conductorisance problem is possible process of the second of the se	state,zepew.	ip code) N.Y.	25. N.Y.S 15-00 ation prov	En . Reg. No. l	MAY N.Y.S. Wironment Region 9 26 Te 684 his form deblief.	form. ry safety 1 1970 tal-Conse Headqua
b. Representative of Treatment or Disposal Facility: Date Date Compared to the property of the property o	4) Was a Leaching Potential 2. Detail all hazards and mandling, treatment and control of the section 210.45 o	Test conductorisance problem is possible process of the second of the se	state,zepew.	ip code) N.Y.	25. N.Y.S 15-00 ation prov	En . Reg. No. l	MAY N.Y.S. Wironment Region 9 26 Te 684 his form d belief.	form. ry safety 1 1970 tal-Conse Headqua
b. Representative of Treatment or Disposal Facility: 4/30/79	3. Wasta Hauler 24. Address Ty Concrete 3179 Wa 7. CERTIFICATION: I hereby affirm under attached statements made is Section 210.45 of the is a. Representative of	Test conductorisance problem is possible process of the second of the se	state,zepew.	ip code) N.Y.	25. N.Y.S 15-00 ation prov of my kno	. Reg. No. lided on the wledge and meanor pure	MAY N.Y.S. Wironment Region 9 26 Te 684 his form d belief.	form. ry safety 1 1970 tal-Conse Headqua
Treatment or Disposal School 4/30/79 Facility: 4/30/79	3. Wasta Hauler 24. Address Ty Concrete 3179 Wa 7. CERTIFICATION: I hereby affirm under attached statements made is Section 210.45 of the is a. Representative of	Test conductorisance problem is possible process of the second of the se	state, zepew, rjury the true to nishable	ip code) N.Y. at inform the best	25. N.Y.S 15-00 ation prov of my kno	. Reg. No. lided on the wledge and meanor pure	MAY N.Y.S. Wironment Region 9 26 Te 684 his form d belief.	form. ry safety 1 1970 tal-Conse Headqua
Facility: 9/30/79	3. Waste Hauler 24. Address Ty Concrete 3179 Wa 7. CERTIFICATION: I hereby affirm under pattached statements made 1 Section 210.45 of the 1 a. Representative of Waste Generators	Test conductorisance problem is possible process of the second of the se	state, zepew, rjury the true to nishable	ip code) N.Y. at inform the best	25. N.Y.S 15-00 ation prov of my kno	. Reg. No. lided on the wledge and meanor pure	MAY N.Y.S. Wironment Region 9 26 Te 684 his form d belief.	form. ry safety 1 1970 tal-Conse Headqua
	3. Waste Hauler 24. Address Ty Concrete 3179 Wa 7. CERTIFICATION: I hereby affirm under attached statements made 1 Section 210.45 of the 1 a. Representative of Waste Generator: b. Representative of	Test conductor visance problem is possible process of the second visance problem is a second visance problem in the second visance problem is a second visance problem in the second visance v	state, zepew, rjury the true to nishable	ip code) N.Y. at inform the best	25. N.Y.S 15-00 ation prov of my kno	. Reg. No. lided on the wledge and meanor pure	MAY N.Y.S. Wironment Region 9 26 Te 684 his form d belief.	form. ry safety 1 1970 tal-Conse Headqua
	3. Waste Hauler 24. Address Ty Concrete 3179 Wa 7. CERTIFICATION: I hereby affirm under pattached statements made 1 Section 210.45 of the 1 a. Representative of Waste Generators b. Representative of Treatment or Dispose	Test conductor visance problem is possible process of the second visance problem is a second visance problem in the second visance problem is a second visance problem in the second visance v	state, zepew, rjury the true to nishable	ip code) N.Y. at inform the best	25. N.Y.S 15-00 ation prov of my kno	. Reg. No. lided on the wledge and meanor pure	MAY N.Y.S. Wironment Region 9 26 Te 684 his form d belief.	form. ry safety 1 1970 tal-Conse Headqua
	3. Waste Hauler 24. Address Ty Concrete 3179 Wa 7. CERTIFICATION: I hereby affirm under pattached statements made 1 Section 210.45 of the 1 a. Representative of Waste Generators b. Representative of Treatment or Dispose	Test conductor visance problem is possible process of the second visance problem is a second visance problem in the second visance problem is a second visance problem in the second visance v	state, zepew, rjury the true to nishable	ip code) N.Y. at inform the best	25. N.Y.S 15-00 ation prov of my kno	. Reg. No. lided on the wledge and meanor pure	MAY N.Y.S. Wironment Region 9 26 Te 684 his form d belief.	form. ry safety 1 1970 tal-Conse Headqua

REK-10

RESTRICTED-USE LANDFILL SITE

For

LANCASTER RECLAMATION COMPANY
(Formerly Ferry Concrete Construction Co., Inc.)
403 Pavement Road
Lancaster, NY 14086

Ву

WENDEL ENGINEERS, P.C.
Consulting Engineers/Planners/Surveyors
7405 Canal Road
Lockport, New York

Project No. 1911-2 May 1979

A . . woodwood tankamers

named and the second section of the second

TABLE OF CONTENTS

TITLE	,
4. de de del de la companya del la companya de la c	PAGE NO.
BACKGROUND	
Types of Wastes Life Expectancy Calculations Existing Pond	2 thru, /
Waste Tests	
SITE DESCRIPTION	• •
Location	4 thru 6
Physical Features On-site Waters Tests	• •
Test Hole Information Drainage	•
OPERATION PLAN	
	6 thru 7
CONTINGENCY PLAN	7 thru 8
ARKETING	
TABLE OF APPENDICIES	. 8
	Q

It will be the purpose of this report to develop a physical plan for the implementation of an existing restricted-use landfill for the private use of the Owner/Operator, Lancaster Reclamation Company. At present, the type of waste to be dumped at this landfill is: (1) A slurry consisting of Bentonite Clay in a 90% water mixture that has been coagulated with a poly-electolite to a gelatinous percipitate (see Appendix 2); (2) Slurry composed of portland cement, asbestos fibers and glass fibers (see Appendix 8); (3) Spent casting sand including broken brick (see Appendix 10) and (4) Sand fines (slurry) from foundry wastewater treatment (see Appendix 6). The slurry wastes will be hauled to the site in dump trucks with sealed bodies to prevent leakage. The foundry sand will be hauled in covered dump trucks to eliminate blowing sand during transport.

The estimated total quantity of waste that can be presently handled at the site, excluding the pond and shallow surface water holding pond, is 81,000 cubic yards. Based on the present combined quantity of dry and dewatered industrial wastes, the life expectancy of the site would be approximately 6.5 years. If the Owner elects not to accept any one or more of the previously mentioned wastes the life expectancy of the site will be increased and the report data pertaining to life expectancies would have to be revised at that time.

Calculations for life expectancy are based on the following quantities of wastes:

Bentonite Clay Slurry - 20,400 cy/yr. x 10% solids = 2040 c.y. solids/year

Asbestos Cement/Glass fiber Slurry - 20,400 gal./yr. \times 35% solids = 7140 gal. solids/202 gal. per cy = 35 c.y. solids/yr.

Foundry Wastewater Treatment Slurry - 2,400,000 gal./yr. \times 35% solids = 840,000 gal. solids/202 gal. per c.y. = 4160 c.y. solids/yr.

Foundry sand - 6000 cy/yr.

2040 cy + 35 cy + 4160 cy + 6000 cy = 12235 cy/yr. total solids

Total number c.y. acceptable at site = 81,000 cy = 6.5 yrs. if all anticipated industrial wastes are accepted.

It is felt that this landfill operation will have a net positive environmental impact upon the site and upon the area surrounding the site. The site is an abandoned gravel pit and contains, in addition to the excavation, a small pond. The pond will not be disturbed by the landfill operation at this time, but could be used for additional fill operations in the future. If the pond which is 14' deep, covers about 1 acre and has a volume of approximately 11,000, c.y. were to be used for additional wastes it would first have to be filled with existing on site material consisting of gravel and sand, to a point 5 foot above the highest known water level. This would increase the total capacity of the site to approximately 117,000 c.y. This preliminary operation would serve to eliminate the pond and to assure placement of all waste materials well above the highest known elevation of. trapped water in the area.

It is anticipated that the fill operation at this site will restore the land to approximately its original contours, excepting the pond, and make it again useful for industrial use, for which the area is zoned.

The noise level, occasioned by one or two trucks daily, is anticipated to be less than that caused by adjacent existing operations, one of which is a railroad, while the other is an airstrip. Also the operation site is away from the road where visual interference to the public will be negligible.

The landfill operation will meet all local regulations and, ordinances in accordance with the permit issued by the Town of Lancaster (see Appendix 1). This operation is under the jurisdiction of the N.Y.S. Department of Environmental Conservation and it is expected that it will be operated to meet all the requirements of that department.

The landfill is to be operated as a private special-use landfill. Dumping will be on a schedule of once or twice a day, five days per week. Daily records of all dumped material will be maintained by the owner/operator. It is felt that there will be no need for permanent resident personnel and for this reason, it is anticipated that permanent personnel facilities and services will not be required.

Tests taken of the water contained in the bentonite clay slurry mix, indicates that leachate will not be a problem either now or in the future (see Appendix 2 and 4). No tests were taken on the water in the asbestos cement/glass fiber slurry but as per letter dated January 4, 1979 (see Appendix 7) from N.Y.S.D.E.C., there would be no objection to the dumping of this slurry as long as conditions set forth in the letter are met.

Tests were taken of the water in the foundry wastewater treatment slurry, with the results shown on the Application for Treatment or Disposal for Industrial or Hazardous Waste Stream. A copy of this application, along with N.Y.S.D.E.C. no objection letter, dated January 24, 1978 are included, (See Appendix 5 and 6).

Analysis has been completed on the foundry sand and is shown on a copy of the Application for Treatment or Disposal of an Industrial or Hazardous Waste Stream (see Appendix 10). A leachate test report form was also completed for the foundry sand (see Appendix 11).

At some time in the future the Owner/Operator has indicated that he possibly may accept Sewage Treatment Plant sludges if after analysis, these sludges could be accepted at this site. In the event that Treatment Plant sludges could be deposited at the site, the report will have to be amended to meet certain additional requirements.

Materials used in filling this landfill are not anticipated to interfere in any way the proposed final use of the site, that being industrial development for which it is zoned.

SITE DESCRIPTION

The landfill site is an abandoned gravel pit located on an old farm on the east side of Pavement Road between Walden Avenue and the Conrail property in the Town of Lancaster, Eric County, New York. The Villages of Lancaster and Depew and the Town of Cheektowaga are approximately 2.5 miles west of this location, while the Hamlet of Clarence is approximately 2.5 miles northeast and the Hamlet of Wende approximately 4 miles to the east.

The site contains about 14 acres of land with about 10 acres planned for use as a landfill area. The site also has on it, a farm house, a barn and one other small farm shed. The farm house has a public water supply available from a 12-inch main along the frontage of the property while the barn contains a drilled well. The drilled well is approximately 78' deep with water to 21' below the surface.

Frontage along Pavement Road is approximately $630\pm$ feet and is $1020\pm$ feet deep along the south boundary line abuting the Conrail property.

5

Topography of the site includes some peripheral fencing, particularly along the Conrail property. It includes the scar from the abandoned gravel pit operation and generally is open farm land with some scrub trees and brush.

Four soil test holes were dug to approximately 10 to 12 feet in depth with the following results:

- a. Hole number 1 was one hundred percent coarse sand with no water in evidence either during or after excavation.
- b. Holes number 2, 3 and 4 each had gravel, coarse sand and clay with water encountered generally at the eight to ten foot level. In the three test holes, where water was encountered, it was found that water did not reach the elevation of the existing pond water surface, which would seem to indicate that the water found in the test holes was groundwater rather than a reflection of the pond water surface. It is anticipated the groundwater in this area would seem to have a tendency to flow in a southwesterly direction, judging from the terrain conditions.

See Appendix 17 for logs of these tests holes.

Tests were made on the pond water, the on-site well water, the surface water holding pond and the intermittent swamp area water. For results see Appendix 12, 13, 14 and 15.

Tests were also taken on the clear water contained in the lagoon which is presently accepting the foundry wastewater treatment slurry. These results are shown in Appendix 16.

Maximum recorded rainfall intensity known to the area was found to be 4.28 inches over a 24 hour period, while the maximum for a one hour storm, once in fifty years, reaches something less than 2.75 inches.

Surface drainage at the present finds its way to the pond, the previous excavated lagoons and the surface water holding pond. When the lagoons are brought to finished ground contour levels, surface water from the southern portion of the property will tend to flow towards an existing open ditch along the Conrail property. It seems most likely that there would not be at any time, a problem with drainage to this ditch, since the natural drainage contours of the area will be returned when the landfill site is completed.

Surface drainage from the northwest portion of the site will still drain towards the pond as since its creation. A small portion of this drainage will be held by the surface water holding pond. The holding pond was created to allow settlement of turbid surface waters caused by the steep grades in the immediate area.

From the northeastern portion of the site, surface drainage collects in a intermittent swamp area and dissipates by evaporation, leaching and percolation. In the dry summer months this area becomes arid.

OPERATION PLAN

Since the proposed landfill is private and for restricted use only, there would seem to be no need for special on-site parking or interior circulation of roads. There will be no general perimeter fencing or additional drainage systems proposed for this site since neither is felt to be necessary to this operation. However, in the interest of general security and identification, the Owner/Operator will provide a driveway gate to limit unauthorized trespassing with a sign attached for identification and warnings of private property.

The Bentonite clay, foundry wastewater treatment and asbestos cement/glass fiber slurries can be deposited together in the same lagoons with no side effects. (See Appendix 5 and 7).

After each sequence of dumping, the solids contained in the slurry mixtures are and will be allowed to settle. At this time a dewatering pump can be employed (which is presently being done) to pump the clear water to the existing intermittent swamp area. Information included in Appendix 2 indicates that leachate meet state and federal criteria. Appendix 5 and 7 indicates that asbestos cement/glass fiber slurry can be mixed with the Bentonite clay and foundry wastewater treatment slurries, therefore it is assumed that leachate from these wastes falls into the same category as the two previously mentioned leachates.

In the event that any leaching of water from the intermittent swamp occurs through the high ground west of the swamp area, it will be retained by the surface water holding pond previously mentioned. This swamp area leachate then still has to leach through the berm separating the surface water holding pond and the main pond.

As the landfill operation progresses the intermittent swamp area will be eliminated leaving no area for dewatering pump discharge. Therefore the future lagoon located at this area should be the last to be developed excluding the filling in of the existing pond and surface water holding area. When this lagoon is developed, the slurry mixtures will be required to dewater by natural methods with the exception of the possible deposition of spent casting sand to act as an absorbent for the slurry waters. After 20% water content is reached, the material will then be leveled and the method repeated.

No daily cover material is proposed during any of the lagoon filling periods. A variance from 6NYCRR 360 has been submitted for this difference to standard operating procedures.

It is proposed to employ equipment brought to the site for only those times when dumping and leveling operations are in progress and it is not intended that maintenance or storage on-site will be necessary.

After final filling and grading has been completed of the entire or any single portion of the site, the area involved will be completely covered with a minimum of 6-inches of material from the site that will support the growth of vegetation. Immediately after the grading of the material, these involved areas will be seeded for final vegetation cover as follows:

- 15 lb/acre perennial ryegrass
- 15 lb/acre creeping red fescue
- 20 1b/acre Kentucky 31 tall
- 8 lb/acre Empire birds-foot trefoil (inoculated)

Fertilizer should be 800 lb/acre 10-10-10 or equivalent.

The exposed area should be mulched with 2 tons per acre of straw or equivalent.

Continued maintenance following the final cover and seeding of the finished areas is not felt to be necessary in this case since the area is intended for future industrial purposes and the nature of the specialized waste deposited, in this landfill, does not present a problem where minor pockets of water might collect.

It is anticipated that the existing pond and drilled well can be used as surface and ground water monitoring points upon completion of the project. Also an additional monitoring well will be constructed along the east property line for this purpose. In the event that the existing pond and surface water holding pond are used for landfill purposes, an additional monitoring well will have to be constructed near or at the center of the existing pond for required monitoring.

The need for contingency plans for fires, litter, odor and vectors will not be necessary due to the type of material being deposited at the site. In the case of noise, proper engine mufflers would suffice. Water contamination is next to impossible due to the quality of the liquids after settlement of solids. There will be no unusual traffic conditions due to the site being a restricted private type.

In the event of any equipment breakdown while being used for leveling, the incoming material could be deposited in a different lagoon until repair is made.

MARKETS

It is not anticipated that any of the special wastes at the restricted use site have a continuing market value. Although the Owner has stated that if the quality of the foundry sand were acceptable for use as backfill around building foundations, small amounts would be used for this. No committments as to the locations of use or value has been placed on this material at this time due to the questions of its acceptability. No adjustments have been made to the computations in determining the life expectancy of the site for this reason.

LANCASTER RECLAMATION CO. RESTRICTED USE LANDFILL SITE

TABLE OF APPENDICES

- 1. Certificate of Zoning Compliance from Town of Lancaster.
- 2. Bentonite Clay Slurry Description Letter Dated October 21, 1975.
- 3. Analysis of Bentonite Clay Slurry.
- 4. Composition of Bentonite Clay Slurry Water.
- 5. N.Y.S.D.E.C. Letter Dated January 24, 1978, RE: Acceptance of Foundry Wastewater Treatment Slurry.
- 6. Foundry wastewater treatment slurry description and composition shown on copy of previous Application for Treatment or Disposal of an Industrial or Hazardous Waste Stream for the Waste Generator.
- 7. N.Y.S.D.E.C. letter dated January 4, 1979, RE: Acceptance of Asb. Cem. Slurry.
- 8. Asbestos Cement/Glass Fibre Composition Letter dated January 9, 1979.
- 9. Lancaster Reclamation Notification of Acceptance of Asb. Cem. Sludge Letter dated January 15, 1979.
- 10. Copy of Application for Treatment or Disposal of an Industrial or Hazardous Waste Stream for foundry sands showing composition, dated 3/29/79.
- 11. Copy of Leaching Potential Test Report for foundry sands, dated 3/29/79.
- 12. Pond Water Analysis, dated February 25, 1976.
- 13. Well Water Analysis, dated May 23, 1978.
- 14. Surface Water Holding Pond Water Analysis.
- 15. Water Analysis of Intermittent Swamp Waters.
- 16. On-site Water Analysis of Foundry Wastewater Treatment Slurrie's.
- 17. Soil Boring Logs.

Worthington Group

45 Roberts Street Buffalo, NY 14206

P.O. Box 1249

McGraw-Edison Company

Lancaster Reclamation 403 Pavement Road Lancaster, New York 14089

Attention: Mr. Paul Ferry

March 2, 1984

Dear Mr. Ferry:

Be advised that processes and general operations at Worthington, Ironworth Foundry have not substantially changed during the last year. For your records, I have enclosed a copy of our previous sand analysis report, dated March 18, 1982.

Should additional information be required, do not hesitate to contact me.

Sincerely,

WORTHINGTON DIVISION McGraw-Edison Company

Couis J. Kasmer

Purchasing Supervisor

LJK/as Encl

FOR

ALLTIFT INC.

ded the districtive

Praple bate: 3/18/82

Date Reclived: 3/18/82

Sampled By: Alltift

Delivered By: Alltift

E & E Leb Number 82-	•	336	337
Simple Identity	EPA Maximum Allowable Concentrations		Sand of Extract P Toxicity Test
Arsenic, mg/L	5.0	∠0. 025	∠0.025 ≠
Barium, mg/L	100.0	<0.200	<0.200
Cadmium, mg/L	1.0	∠0.002	<0.002
Chromium, mg/L	5.0	< 0.010	<0.010
Lead, Eg/L	5.0	< 0.010	< 0.010
Farcury, mg/L	0.2	< 0.0004	< 0.0004
Selenium, mg/L	1.0	0.013	0.038
Silver, Eg/L	5.0	∠0. 050	<0.050
Phenols, mg/L	*************************************	< 0.001	0.009
Composition of Waste			
Phenols, mg/Kg (Dry Weight) f	fm 2	8.83	1.60
% Solids		59.8 ·	100

Analytical References:

EP Toxicity - Federal Register 45, No. 98, May 19, 1980 Phenols - "Standard Methods for the Examination of Water and Wastewater,"

15th edition, 1981.

Supervising Analyst

Date

April 16, 1982

Worthington Group
McGraw-Edison Company

45 Roberts Street Buffalo, NY 14206

P.O. Box 1249

Lancaster Reclamation 403 Pavement Road Lancaster, New York 14089

Attention: Mr. Paul Ferry

March 2, 1984

Dear Mr. Ferry:

Be advised that processes and general operations at Worthington, Ironworth Foundry have not substantially changed during the last year. For your records, I have enclosed a copy of our previous sand analysis report, dated March 18, 1982.

Should additional information be required, do not hesitate to contact me.

Sincerely,

WORTHINGTON DIVISION McGraw-Edison Company

Louis J. Kasmer

Purchasing Supervisor

LJK/as Encl.

LABORATORY REPORT

ALLTIFT INC.

Job No. AT-464

3/18/82 Sample Date:

Date Received: 3/18/82

Sampled By: Alltift

Delivered By: Alltift

336

Sludge

59.8 ·

E & E Lab Number 82-

337

Sand

100

Sample Identity	EPA Maximum Allowable Concentrations	Analysis of Extract From the EP Toxicity Test	
Arsenic, mg/L Barium, mg/L Cadmium, mg/L Chromium, mg/L Lead, mg/L Mercury, mg/L Selenium, mg/L Silver, mg/L	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0	<pre></pre>	<0.025 ≠ / <0.200 <0.002 <0.010 <0.010 <0.0004 0.038 <0.050
Phenols, mg/L	<u>@</u> @®	<0.001	0.009
Composition of Waste	28m	8.83	1.60

Analytical References:

Solids

Phenols, mg/Kg (Dry Weight) ffm

EP Toxicity - Federal Register 45, No. 98, May 19, 1980 ~

Phenols - "Standard Kethods for the Examination of Water and Wastewater," 15th edition, 1981.

Supervising Analys

April 16, 1982

APPENDIX B PROPOSED UPDATED NYS REGISTRY SHEET

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

CLASSIFICATION CODE: 2a

REGION: 9

SITE CODE: 915069

NAME OF SITE ! Lancaster Reclamation

STREET ADDRESS: 403 Pavement Rd.

TOWN/CITY:

COUNTY:

ZIP:

Lancaster

Erie

SITE TYPE: Open Dump- Structure- Lagoon- Landfill-X Treatment Pond-ESTIMATER SIZE: 10 Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Lancaster Reclamation

CURRENT OWNER ADDRESS:: 403 Favement Rd., Lancaster, NY

OWNER(S) DURING USE...: Lancaster Reclamation Inc.

OPERATOR DURING USE...: Same

OPERATOR ADDRESS...... 403 Pavement Rd., Lancaster, NY

FERIOD ASSOCIATED WITH HAZARDOUS WASTE: From

To

SITE DESCRIPTION:

Former sand quarry. Foundry sand, diatomaceous earth, distressed oils are disposed. Site presently inactive, Part 360 application submitted to the Department and under review for upgrading the site.

HAZARDOUS WASTE DISPOSED: Confirmed-X Suspected

___Letinul_YIIINAUQ

Foundry sand w/phenolic binders aceous earth

Unknown(Sludges of diatom Unknown(Distressed oils

areona equiu

Unknown

SITE CODE: 915069

ANALYTICAL DATA AVAILABLE:

Air- Surface Water-X Groundwater-X Soil-X Sediment- None-

CONTRAVENTION OF STANDARDS:

Groundwater-X Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE..: None State- Federal-

STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed. Under Design- In Progress- Completed-

NATURE OF ACTION: None

GEOTECHNICAL INFORMATION:

SOIL TYPE: Sand, silt clay in layers

GROUNDWATER DEPTH: >12'

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Insufficient information

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient information.

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF

ENVIRONMENTAL CONSERVATION

NAME .: John S. Tygert, PE

TITLE: Sr. Sanitary Engr.

NAME .: Roberto A. Olazagasti

TITLE: Solid Waste Management Spec.

DATE .: 01/24/85

NEW YORK STATE DEPARTMENT OF HEALTH

NAME .: R. Tramontano

TITLE: Bur. Tox. Subst. Assess.

NAME .:

TITLE:

DATE .: 01/24/85