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ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Town of Marilla Town of Marilla

Site No. 915093 Erie County Entered

Copyl



Prepared for: New York State Department of Environmental Conservation ⁵⁰ Wolf Road, Albany, New York 12233 Thomas C. Jorling, Commissioner

Division of Hazardous Waste Remediation Michael J. O'Toole, P.E., Director

By:

ENGINEERING-SCIENCE

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

TOWN OF MARILLA LANDFILL NYS SITE NUMBER 915093 TOWN OF MARILLA ERIE COUNTY NEW YORK STATE

Prepared For

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

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DATE OF SUBMITTAL: JANUARY, 1988

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TOWN OF MARILLA LANDFILL

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SECTION I EXECUTIVE SUMMARY

This report, prepared for the New York State Department of Environmental Conservtion (NYSDEC), presents the results of the Phase I investigation for the Town of Marilla Landfill site (NYS Site Number 915093, No EPA Site Number Given) located in the Town of Marilla, Erie County, New York (see Figure I-1).

SITE BACKGROUND

The Town of Marilla site, a 10-acre municipal landfill, was purchased by the Town of Marilla in 1965. Beginning in 1969 or 1970, the landfill was operated by the Town Highway Department using the area and trench method, to landfill municipal wastes from the Town of Marilla. Since its existence, the site has operated on Saturdays only. The landfill has continuously been plagued by problems which include: inadequate daily cover of refuse, leachate outbreaks, pooling of surface water onsite, litter, and inadequate vegetative cover. Leachate outbreaks continue to present a problem on the northwest side of the site, despite efforts to cover the landfill, and to provide adequate surface water drainage and vegetative cover (NYSDEC Site Inspection Reports, 1980-85).

From 1981 to 1985, groundwater samples have been collected and analyzed to monitor leachate migration and to detect groundwater contaminants (Tallamy, Van Kuren, Gertis & Associates 1982, and Ecology and Environment, Inc. 1985). Contaminants detected include PCBs, phenols, cyanide, heavy metals, and total organic carbon (TOC). Constituents that exceeded the New York State Groundwater Standards and background levels were chloride, phenol, iron, manganese, barium, cadmium, and lead.

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I-1

In 1982 and 1985 surface water samples were obtained by Ecology and Environment, and Tallamy, Van Buren, Gertis and Associates, and analyzed for PCBs, phenol, cyanide, TOC, and heavy metals. The Ecology and Environment showed that iron contamination exceeded the New York State Class D surface water standards, and the Tallamy, Van Buren, Gertis and Associates analysis showed iron, phenol and cyanide contamination exceeded the New York State Class D surface water samples. An upgradient/downgradient comparision could not be made because exact sample locations were not identified.

ASSESSMENT

In an attempt to quantify the risk associated with this site, the Hazard Ranking 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 for use in evaluating the relative potential of uncontrolled hazardous disposal substances to cause health or safety problems or ecological or environmental damage. EPA assumed that a uniform application of the ranking system in each state will permit them 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 rsk or danger from the site; taking into account the population at risk; the hazardous potential of the substance at a facility; the potential for contamination of drinking water supplies; for direct human contact, and for destruction of sensitive ecological systems and other appropriate factors. The three scores are:

o S_m reflects the potential for harm to humans for 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 socore, and S_A = air route score).

I-2

- o S_{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).

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The preliminary HRS score was:

 $S_{M} = 38.20$ $S_{GW} = 65.62$ $S_{FE} = 0$ $S_{SW} = 7.79$ $S_{DC} = 25$ $S_{A} = 0$

These scores reflect that there was an observed release of manganese to the groundwater and residents living in the vicinity of the landfill site have private drinking water wells that withdraw water from the aguifer of concern.

RECOMMENDATIONS

The groundwater data are adequate to score an observed release of metal contamination; however, there are no data for organic contamination. Based on this information, it is recommended that the existing upgradient and downgradient groundwater wells be sampled and the samples be analyzed for organic contamination. The locations where surface water samples were taken was not specific enough to determine if one of the sample locations was upgradient of the site. If it is determined during the Phase II investigation that there was no upgradient surface water sample location, then an upgradient surface water sample should be taken during the Phase II investigation.

Additionally, it is recommended that the Town of Marilla continue remedial actions to correct leachate outbreaks.

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The estimated man-hour requirements to complete Phase II are 962, while the estimated cost is \$36,883.

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I-4





SECTION II

SECTION II

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SECTION II PURPOSE

The purpose of the Phase I investigation at the Town of Marilla Landfill site was to assess the hazard to the environment caused by the present condition of the site. This assessment is based on the Hazard Ranking System, which involves the compilation and rating of numerous geological, toxicological, environmental, chemical, and demographic factors and the calculation of an HRS score. Details of HRS implementation are included in Section V. During the initial portion of the investigation, available data and records, combined with information collected from a site inspection, were reviewed and evaluated. The investigation at this site focused on burial of an estimated 95,000 cubic yards of municipal wastes in Marilla, New York.

II-1



SECTION III SCOPE OF WORK

The scope of work for the New York State Inactive Site Investigation Program (Phase I) was to collect and review available information necessary for the documentation and preparation of 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 individuals knowledgeable about 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 who may have knowledge of the site, as identified during the performance of the investigation. These sources are listed in Appendix A. The intent of this list is to identify all persons, departments, and/or agencies contacted during the fourth round of the Phase I investigation even though useful information may not have been collected from each source contacted.

III-1

SECTION IV

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SECTION IV SITE ASSESSMENT

SITE HISTORY

In 1965, the Town of Marilla Highway Department purchased the Town of Marilla landfill site from Oscar Tankusley to operate a sanitary landfill. According to Russell Webster and Paul Sharpe of the Town of Marilla, the Tankusley brothers (Oscar and Hubert), operated the landfill under a lease from the Town of Marilla for four or five years, after which the Town of Marilla began its operation. The landfill has been and is currently in operation as of December 1985, Saturdays only.

The landfill site has been plaqued with problems resulting from its operation, including inadequate daily cover of refuse, leachate outbreaks, litter, pooling of surface water, and inadequate vegetative Site inspections conducted during the 1980s by the NYSDEC and cover. Erie County Department of Environment and Planning (ECDEP) have indicated leachate outbreaks in the southeast, northeast, and northwest por-In 1981, monitoring wells were installed by tions of the landfill. Tallamy, Van Kuren, Gertis, and Associates to determine the extent of leachate migration from the landfill. Inadequate maintenance of a proper soil cover, protrusion of refuse, and ponded water resulting from inadequate grading at the northwest portion of the landfill have been recurring problems at the northwest portion of the landfill (NYSDEC Site Inspections, 1980-85).

In April 1983, an unknown quantity of leaking waste oil barrels were found next to an on-site maintenance shed during a NYSDEC site inspection (NYSDEC, July 83). As required by the NYSDEC, soils saturated with waste oil were excavated and disposed of in the on-site landfill. Further, a new 550-gallon storage tank was installed and a

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waste oil contractor was retained to pick up the waste oil barrels for off-site recycling (Webster, R. and Sharpe P., December 85).

To resolve the reoccurring landfill problems and to renew the landfill's operating permit, the Town of Marilla capped portions of the landfill on several occasions between 1982-85. Other corrective actions taken include bagging of litter, regrading the site to promote surface water runoff, and providing adequate vegetative cover.

An estimated 95,000 cubic yards of municipal waste has been disposed of in the landfill since 1965. No hazardous wastes, liquids, or drums are known to have been disposed of in the landfill (Webster, R. and Sharpe P., 12/85).

The Town of Marilla Landfill site has had continuous problems with leachate outbreaks, as observed along the north side during an inspection by NYSDEC on 22 August 1985. During the site inspection conducted by ES and D&M on 12 December 1985, no leachate outbreaks were observed. However, reddish brown leachate was visible in the drainage ditch located along the west side of the landfill.

SITE TOPOGRAPHY

The Town of Marilla Landfill is located between Three Rod Road and Eastwood Road in the Town of Marilla, Erie County, New York. The site consists of approximately 10 acres, of which approximately seven acres have been used as a sanitary landfill. It is situated within a 40-acre parcel owned by the Town of Marilla. Prior to landfilling operations, the topography of the site consisted primarily of open fields in a kame and kettle area sloping northward to a small stream.

Soils underlying and immediately adjacent to the site are primarily Howard Gravelly Loam, Palmyra Gravelly Loam, Darien Silt Loam, Hornell Silt Loam, and Manlius Shaly Silt Loam. Characteristically, these soil types are moderately deep to deep and moderately drained, exhibit seasonally perched water tables within one to three feet of ground surface, and have a permeability range of 10^{-3} to 10^{-5} cm/sec. 56510-R:38 IV-2 Land use adjacent to the Town of Marilla landfill is primarily agricultural/residential. A town park borders the northwest edge of the site.

Facility slope of the landfill is less than three percent, and slope is generally to the north. The slope of the intervening terrain, measured from the northern edge of the landfill to the small tributary of Little Buffalo Creek, is approximately 15-16%, sloping north to northwest.

Access to the site is provided by a single unpaved road with a gate Drainage ditches on both sides of the access road on Eastwood Road. prevent vehicles from bypassing the gate. Access to the site by foot and all-terrain type vehicles is unlimited from both Eastwood Road and The site consists of unused areas, landfill areas and Three Rod Road. an active disposal area. The inactive portions are all covered and seeded. An active disposal cell is located on the northwest side of the This cell was covered but not seeded; some domestic refuse site. protrudes the cover. A scrap metal staging/holding area is located on the northeast side of the landfill adjacent to a borrow face. The scrap metal consisted of domestic appliances and miscellaneous scrap metal. The approximate dimensions of the scrap pile is $20' \times 20' \times 5'$ high. A 550-gallon underground waste oil storage tank is located adjacent to the maintenance shed, on the southeast side of the landfill. Currently, there is no information to indicate whether the tank is leaking.

Surface water runoff from the landfill is primarily to the north and northwest into the tributary of Little Buffalo Creek which flows northwest. Additionally, drainage channels immediately east and west of the site divert other runoff to the tributary of Little Buffalo Creek. There are no known uses of this tributary, although Little Buffalo Creek has recreational uses (swimming, fishing, etc.).

Residents within three miles of the Town of Marilla Landfill use private groundwater wells for their water supply. Municipal water

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supply is not available in this area, although non-municipal community wells serve two local trailer parks (Webster, R. and Sharpe, P., December 85).

Local Sensitive Environment

A NYS registered wetland is located approximately one mile northwest of the site. This wetland is designated as EA-25 (NYS Wetlands Map, 1984).

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 Map, NYSGA Guidebook (1982), and Soils Report by Earth Dimensions (1981).

Regional Geology and Hydrology

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region is predominantly limestone, dolo-stone, and shale (NYS Museum & Science).

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

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. 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 occasionally underlain by lacustrine silts and clays (indicating quiet, deeper water deposition). 56510-R:38 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 reported to be soft shale, occurring at depths of six to fifteen feet, sloping generally westward. Onsite borings indicate that the general soil stratigraphy overlying the bedrock is expected to be (Earth Dimensions, 1981):

Unit	Depth Range (ft)
Top soil, dark brown silt loam	0 - 0.5
Brown silty clay loam	0.5 - 4.5
Olive brown shaly silt loam	4.5 - 7.5
Gray shaly silty clay loam	7.5 to top of bedrock

The site soils are expected to be moderately drained; for HRS scoring a permeability range of 10^{-3} cm/sec to 10^{-5} cm/sec has been assumed.

A shallow perched water table exists at depths of three to eight feet below ground surface (Earth Dimensions, 1981). The flow in the perched water table is to the north/northwest. The true groundwater table, the aquifer of concern, is located within the bedrock at depths of less than 20 feet. There are no data to indicate which aquifer residents use for their wells, however it is expected to be the bedrock aquifer. Groundwater flow direction is expected to be north/northwest.

SITE CONTAMINATION

The 10-acre Town of Marilla Landfill has been operating since 1965 for the disposal of municipal refuse from the Town of Marilla. An estimated 95,000 cubic yards of municipal waste has been landfilled on-site. No hazardous wastes, liquid, or drums are known to be disposed of on-site (Webster, R. and Sharpe, P., 12/85). LEachate seeps from the northwest corner of the landfill continue to be a problem, despite vegetative and clay covering, and regrading of the site.

As a result of continuous leachate outbreaks and other problems at the site, in 1981 NYSDEC required the town to install five groundwater monitoring wells and to collect and analyze both groundwater and surface water samples. The location of the groundwater monitoring wells at the landfill site are illustrated in Figure IV-1. The groundwater and surface water samples were analyzed by Tallany, Van Kuren, Gertis, and Associates; and Ecology and Environmental, Inc. from 1981 to 1985. A summary of the sampling results are provided in Tables IV-1 and IV-2.

The contaminant concentrations listed in Table IV-1, that exceeded the NYS groundwater (GA) standards and which can be attributed to the . landfill site, are: chloride, phenol, iron, manganese, and to a lesser extent barium, cadmium, and lead. Although there are no standards for nickel, downgradient concentrations of nickel exceeded upgradient levels (Tallamy, et al, 1981-85; Ecology and Environment, Inc., 1985).

It is difficult to properly assess the surface water results because there are no NYS Class D surface water standards for some constituents. Further, the exact sample locations are not provided with the results, so an upgradient/downgradient comparison cannot be made. However, based on the information provided, iron concentrations in the north, east, and south ditches exceeded the standards, and phenol and cyanide exceed the standard, in at least one un-identified location (TTallamy et al, 1981-1985).

IV-6

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Constituent	Well No. 1 Dngr. Deep Well	Well No. 2* Dngr. of Well 3	Well No. 3* At Site	Well No. 4* Upgradient	Well No. 5* At Site	NYS GA Standard	
NICKEL $33-8.3$ 0.720 LI.05 0.03 0.02	Constituent Chlorides Cyanides Nitrates Phenols Arsenic Barium Cadmium Chromium Copper Iron Lead Manganese Mercury Nickel	Dngr. Deep well 207-4974 .002004 0.59-0.76 0.003007 LT.001002 0.13-5.73 .002058 .001-0.06 .016031 2.37-6.57 .003-0.23 .9212.98 LT.0004 .33-8.3	<u>bngr. of well 3</u> <u>61-715</u> <u>.002004</u> 0.81-1.23 <u>LT0.005034</u> <u>.005007</u> 0.58-1.73 <u>.003007</u> <u>.003104</u> <u>.05</u> <u>4.31-138</u> <u>.002-0.09</u> <u>.88-18.2</u> <u>LT.0004</u> <u>.0726</u>	At Site 1-100 LT0.001 0.18-0.27 0.011-0.019 .002004 0.31-1.09 .002004 .00109 .006096 1.5-104 .003-0.06 .64-1.7 .001 LT.05 2.17 0.20	4.2-181 LT0.001 0.18-0.32 .00302 .01202 0.20-1.70 LT.002006 .015097 LT.05028 4.7-67.4 .00506 .13-1.11 .0007 0.05	<u>17.2-263</u> <u>LT0.001</u> 1.46-1.79 .004006 .009012 LT0.247 LT.002006 LT.00120 .00556 0.08-176 .00225 LT.05-1.46 .0005 .002	250 0.2 10.0 0.001 0.025 1.0 0.01 0.05 1.0 0.3 0.025 0.3 0.02 	•••

TABLE IV-1 SUMMARY OF GROUNDWATER SAMPLING DATA

*Well samples taken above bedrock layer NOTE: All concentrations are in ppm

Concentrations underlined indicate an exceedence of background levels (Well 4) and NYS GA Standards dngr: downgradient LT: less than

Constituent	NW Ravine	NE Drainage Channel	North Ditch	East Ditch	South Ditch	NYS Class D Surface Water Standards
Chloride	2060-4216	22-160	.31-365	20-70	85-110	-
Phenols			.001		.001	0.001
Barium			.1033	LT0.2	.1427	-
Cadmium	.013	LT0.002				-
Chromium	0.014	LT0.01	0.013		0.01	0.011
Copper	LT0.05	LT0.05				-
Iron			.84-38	.4987	3.9-33.	0.30
Lead	0.112	LT0.01	LT0.005		.018	-
Manganese			.22-2.88	.58	.67-1.84	-
Mercury	LT0.0004	LT0.0004	LT.0004		LT.0004	0.0002
Nickel	4.43	LT0.05				-
Zinc	0.15	LT0.05				-

TABLE IV-2 SUMMARY OF SURFACE WATER SAMPLING DATA

Note: All concentrations are in ppm. Exact sample locations were not provided; therefore, an accurate upgradient/downgradient comparison cannot be made.

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NARRATIVE

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NARRATIVE SUMMARY

The Town of Marilla Landfill, approximately 10 acres, is located in the Town of Marilla, Erie County, New York. In 1965, the Town of Marilla Highway Department purchased the site from Oscar Tankusley for purposes of operating a landfill. Oscar and his brother, Hubert, operated the landfill from 1965 until approximately 1970 when the Town of Marilla took over the operation. The landfill has been and is currently operated to accept municipal wastes, Saturdays only. Approximately 95,000 cubic yards of municipal waste have been disposed of in the landfill since 1965. No hazardous wastes are known to be disposed of on-site (Tallamy, Van Kuren, Gertis and Associates, 1982; and Webster, R. and Sharpe, P., December 1985).

The contaminants that exceed the NYS groundwater standards and which can be attributed to the landfill site include: chloride, phenol, iron, manganese, and to a lesser extent, barium, cadmium and lead. Manganese is the only constituent which was found at signifcant concentrations in the groundwater (Tallamy, et al, 1981-85, and Ecology and Environmental, Inc. 1985). Leachate outbreaks at the landfill remain a problem, notably in the northwest portion of the site (NYSDEC Site Inspections).

A proper assessment of the surface water samples could not be made since there were inadequate data to make an upgradient/downgradient comparison. However, based on the information provided, iron concentrations in the north, east, and south ditches exceeded the NYS standards.

Residents within a half mile of the landfill site use private groundwater wells for water supply. Municipal water supply is not available in this area. A NYS registered wetland is located one mile northwest of the site.

HNu meter readings were taken upwind and downwind of the site in April 1986 by ES and D&M. As a result, the HNu meter readings indicated no measurable concentrations of volatile organics above background levels (1 ppm).



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HRS WORKSHEETS

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HRS COVER SHEET

Facility Name: Town of Marilla Landfill

Location: Eastwood Road, Town of Marilla, Erie County, New York

EPA Region: II

Person(s) in charge of the facility: Russell Webster, Town of Marilla Superintendent of Highways

Name of Reviewer: <u>Cathy J. Bosma</u> Date: <u>12-30-85</u> General Description of the facility:

The Town of Marilla site, an active ten-acre municipal landfill, has been in operation, on Saturdays only, since 1965. An estimated 95,000 cubic yards of municipal refuse have been disposed of at the site. No hazardous wastes are known to be disposed of on-site. However, contaminants including chloride, phenol, iron, manganese, barium, cadmium, and lead were detected in the groundwater in levels exceeding NYS Groundwater Standards and exceeding concentration found in upgradient wells. Iron levels in the surface water exceeded NYS Class D surface water standards; however, there were inadequate data to make an upgradient/downgradient comparison. Additionally, leachate outbreaks have been a continuous problem of the landfill.

Scores: $S_{M} = 38.20$ ($S_{GW} = 65.62$ $S_{SW} = 7.79$ $S_{R} = 0$) $S_{FE} = 0$ $S_{DC} = 25$

Date: 12-30-87

	Ground	l Water Rou	te Work S	heet		
Rating Factor	Assign (Circ	ned Value tie One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0	(45)	1	45	45	3.1
If observed release is If observed release is	given a given a	a score of a score of	45, proce 0, procee	ed to lind to lind	ne 4. e 2.	
2 Route Characteristics						3.2
Depth to Aquifer of	0 1	2 3	2	6	6	
Net Precipitation Permeability of the	0 1 0 1	(1) 3 (2) 3	1 1	r N	3 3	
Unsaturated Zone Physical State	0 (1	23	1	1	3	
Total Route	Charact	eristics Sc	ore	11	. 15	
3 Containment	0 1	23	1	a	3	3.3
4 Waste Characteristics						3.4
Toxicity/Persistence Hazardous Waste Quantity	0 3 0 1	6 9 12 15 (2 3 4 5 6 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18	18 8	
Total Waste	Characte	ristics Sco	ore	19	26	
5 Targets						3.5
Ground Water Use Distance to Nearest Well/Population Served	0 1 0 4 12 16 24 30	2 (3) 6 8 10 5 18 20 5 32 (35) 40	3 1	9 35	9 40	
Total T	argets S	Score		44	1 49	
6 If line 1 is 45, mu 1f line 1 is 0, mul	ltiply tiply [1 × 4 × 2 × 3 ×	5 4 × 5	37,620	57,330	0
7 Divide line 6 by 57	,330 and	d multiply	by 100	S = gw	65,62	• •

GROUND WATER ROUTE WORK SHEET

Date: 12-30-87

	Surface Water R	oute Work S	heet		
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 If observed release is	s given a value of s given a value of	45, procee 0, procee	ed to lin d to line	e 4. 2.	
2 Route Characteristics		_			4.2
Facility Slope and	0 1 ② 3	1	2	3	
Intervening Terrain 1-yr. 24-hr. Rainfal		1	2	3	
Surface Water		1	0 	3	·
Total Boute	Characteristics Sc	core	1 11	15	
3 Containment	0 1 2 (3)	1	3	3	. 4.3
4 Waste Characteristics			_ L		4.4
Toxicity/Persistence	03691215	(18) 1	18	18	
Hazardous Waste Quantity	0(1)23456	781	ĺ	8	
Total Waste	Characteristics 5	core	19	26]
5 Targets					4.5
Surface Water Use	0 1 2 3	• 3	6	9	
Distance to a Sensit Environment		2	0	40	-
Population Served/ Distance to Water Intake Downstream	12 16 18 20 24 30 32 35 4	0	~		
Total	Targets Score		ð	55]
6 If line 1 is 45, m If line 1 is 0, mu	ultiply 1 × 4 ltiply 2 × 3 >	× 5. < 4 × 5	5016	64,350	
7 Divide line 6 by 6	4,350 and multiply	у Бу 100	S = sw	7,79	

SURFACE WATER ROUTE WORK SHEET

Date: 12-30-87

ſ	······	Air	Route Work Sł	neet	· · · · · · · · · · · · · · · · · · ·					
	Rating Factor	Assigne (Circl	ed Value le One)	Multi- plier	Score	Max. Score	Ref. (Section)			
	1 Observed Release	0	45	1	0	45	5.1			
	Date and Location: A	oril 1986,	Upwind an	d down w	lind of	site				
	Sampling Protocol:	thu mete	en							
	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 8				
	Total Was	te Characte	ristics Score			20				
	3 Targets						5.3			
	Population Within	0 9	12 15 18	1		30				
	4-Mile Radius Distance to Sensitiv	2124 e 01	2/30 23	2		• 6				
	Environment Land Use	0 1	2 3	1		3				
	. Total Ta	rgets Score	<u></u>			39]			
	4 Multiply 1 × 2 ×	3				35,100				
	5 Divide line 4 by 35	,100 and mu	ultiply by 100	0	S_ [^] = 0					

AIR ROUTE WORK SHEET

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Date: 12-30-87

1	S	s ²
Groundwater Route Score (Sgw)	65.62	4305.98
Surface Water Route Score (S .) sw	7,79	60,68
Air Route Score (S _a)	Ø,	6
$s_{gw}^2 + s_{sw}^2 + s_a^2$		4,366.66
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		66.08
$v s_{gw}^2 + s_{sw}^2 + s_a^2 / 1.73 = s_M^2 =$		38,20

Worksheet for Computing S_M

WORK SHEET FOR COMPUTING SM

Date: 12-30-87

	Fir	e ar	nd I	Expl	los i	on	Work S	heet		
Rating Factor	A	ssig (Ci	gne rclo	d Va e Or	alue ne)	M P	ulti- lier	Score	Max. Score	Ref. (Section)
1 Containment	1			3			1		3 -	7.1
2 Waste Characteristics										7.2
Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0 0 0 0	1 1 1 1 2	2 2 2 3	3 3 3 4 5	6	78	1 1 1 1		3 3 3 8	
Total Wast	e Ch	ara	cte	ris	tic	s So	core		20	
3 Targets					·					7.3
Distance to Nearest	0	1	2	3	4	5	1		5	
Distance to Nearest	0	1	2	3			1		3	
Distance to Sensitive Environment	0	1	2	3			1		3	
Land Use Population Within	0 0	1 1	2 2	3 3	4	5	1 1		3 5	
2-Mile Radius Buildings Within 2-Mile Radius	0	۱	2 	3	4	5	. 1		5	
Total T	arge	ts S	601	re					24	
4 Multiply 1 × 2 × [3							-	1,440	
5 Divide line 4 by 1,4	40 a	nd r	ກບໄ	tip	ly t	y 1	00	SFE	= Ø	

FIRE AND EXPLOSION WORK SHEET

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Date: 12-30-87

1	Direc	t Contact	Work She	et			
Rating Factor	Assigr (Circ	ned Value cle 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	ceed to li	line 4 ine 2					
2 Accessibility	0 1	2	ï	3	3	8.2	
3 Containment	0	.	1	15		8.3	
4 Waste Characteristics Toxicity	0 1	2 (3)	5	15	15	8.4	
5 Targets						8.5	
Population Within	0 1	2 3 4	54	8	20		
Distance to a Critical Habitat	0 1	23	4	0	12		
					· .		
Total T	argets Sc	ore		8	32]	
6 If line 1 is 45, mu If line 1 is 0, mul	ltiply [1 tiply [2]) x 4 x x 3 x	5 4 × 5	5400	21,600		
7 Divide line 6 by 21,600 and multiply by 100 $S_{DC} = 25$							

DIRECT CONTACT WORK SHEET





DOCUMENTATION RECORDS

HRS O DOCUMENTATION RECORDS

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DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

FACILITY NAME: Town of Marilla

LOCATION: Eastwood Road, Town of Marilla, Erie County, New York

GROUND WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

Manganese will be used to score the site since the downgradient concentrations were significantly greater than concentrations found in the upgradient wells. Other constituents which also were found to exceed the NYS GA Standards include barium, manganese, phenol, cadmium, and lead

(Engineers Report and Plan of Operation for Town of Marilla Sanitary Landfill, 1982)

Rationale for attributing the contaminants to the facility:

Groundwater samples from monitoring wells downgradient of site contained contaminants in concentration exceeding NYS GA Standards and upgradient well (background) concentrations. (Engineers Report and Plan of Operation for Town of Marilla Sanitary Landfill, 1982)

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

Bedrock aquifer in shale (depth 6-18 ft.). (Borings performed by Earth Dimensions, 1981)

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

Perched water table occurs within 1 foot of ground surface during wet season. This water table and the bedrock aquifer are assumed to be hydraulically connected. The depth of the water in the bedrock aquifer varies from 6 to 18 feet.

(Engineers Report and Plan of Operation for Town of Marilla Sanitary Landfill, 1982)

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

Approximately 10'. (Engineers Report and Plan of Operation for Town of Marilla Sanitary Landfill, 1982)

Net Precipitation

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

32". <u>(Climatic Atlas of the United States,</u> U.S. Dept. of <u>Commerce, National Climatic Center, 1979</u>).

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

27". <u>(Climatic Atlas of the United States,</u> U.S. Dept. of <u>Commerce, National Climatic Center, 1979</u>).

Net precipitation (subtract the above figures):

32" - 27" = 5" (Climatic Atlas of the United States, U.S. Dept. of Commerce, National Climatic Center, 1979).

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Silty, clay loams. (Earth Dimensions Soil Investigation, 1981)

Permeability associated with soil type

Range of 10⁻³ cm/sec to 10⁻⁵ cm/sec (USDA Soils Map for Erie County)

Physical State

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

Solid, unconsolidated domestic refuse (Webster, R. and Sharpe, P., December 1985)

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Moderately permeable liner (natural soils), drainage ditch for leachate diversion to creek (no leachate collection system). (Engineers Report and Plan of Operation for Town of Marilla Sanitary Landfill and drawings, 1982)

Method with highest score:

Same as above.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Phenols, chloride, and heavy metals. (Engineers Report and Plan of Operation for Town of Marilla Sanitary Landfill, 1982)

Compound with highest score:

Manganese - 18
 (Uncontrolled Hazardous Waste Site Ranking System, A Users
 Manual, HW-10, 1984)

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 95,000 cubic yards of municipal waste were disposed of in the landfill from 1965 to 1985. However, hazardous wastes are not known to be disposed of in the landfill. It is unknown what quantity of waste contributes to the manganese concentrations, however, for purpose of scoring the site, 1 to 10 cubic yards of waste is used since contamination has been detected.

(Webster, R. and Sharpe, P., 12/85; and Tallamy, van Kuren, Gertis and Assoc. Engineers' Report 1982)

Basis of estimating and/or computing waste quantity:

Municipal waste estimate: 90 yd^3/wk (52 wk/yr)(20 yrs) = 93,600 yd^3 (say 95,000 yd^3)

Although no records exist which indicate that hazardous wastes have been disposed of in the landfill, an estimated 1-10 cu yds are assumed to contribute to the manganese release.

* * *

5. TARGETS

Ground Water Use

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

Drinking water, no municipal water from alternate untreatened sources presently available. (NYS Atlas of Community Water System Sources, 1982)

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:

Residents on Three Rod Road, west of Site A. (USGS Topographic Map, Cowelsville Quadrangle)

Distance to above well or building:

Approximately 1500' (USGS Topographic Map, Cowelsville Quadrangle)

Note: Residents on Eastwood Road approx. 1500' from site, but are upgradient.

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

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

Estimated population of 5,000 to 7,500 served. (Engineers Report and Plan of Operation for Town of Marilla Sanitary Landfill, 1982 and 1980 US Census Bureau)

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):

Estimated population of 5,000 to 7,500 served. (Engineers Report and Plan of Operation for Town of Marilla Sanitary Landfill, 1982, and 1980 US Census Bureau)

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

Estimated population of 5,000 to 7,500 served. (Engineers Report and Plan of Operation for Town of Marilla Sanitary Landfill, 1982. and 1980 US Census Bureau)

SURFACE WATER ROUTE

1. OBSERVED RELEASE

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

Iron, phenol and cyanide were detected above surface water standards however there was inadequate data (upgradient vs. downgradient comparison) to score an observed release. (Analytical results of sampling, Ecology and Environment, Inc., 1985 and Tallamy, et.al, 1982)

Rationale for attributing the contaminants to the facility:

See above comment.

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

0-3%.

(ES and D&M Site Visit, 1985; USGS Topographic Map, East Aurora Quadrangle)

Name/description of nearest downslope surface water:

Tributary of Little Buffalo Creek - less than 700' from site. (ES and D&M Site Visit, December 1985)

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

15-16% sloping north to northwest. (USGS Topographic Map, East Aurora Quadrangle)

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

No.

(ES and D&M Site Visit, December 1985)

Is the facility completely surrounded by areas of higher elevation?

No.

(USGS Topographic Map, East Aurora Quadrangle)

1-Year 24-Hour Rainfall in Inches

2.3" (CFR 40, Part 300, App. A, 1983)

Distance to Nearest Downslope Surface Water

Approximately 700' north of site.

Physical State of Waste

Solid, unconsolidated domestic refuse. (Webster, R., and Sharpe, P., December 1985)

* * *

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill cover unsound (leachate outbreaks and protruding refuse) and diversion system unsound (ponding surface water). (ES and D&M Site Visit, December 1985)

Method with highest score:

Same as above.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Iron, however, could not identify this as an observed release. (Ecology and Environment, Inc., 1985)

Compound with highest score: Iron-18

Iron was detected in the surface water drainage ditch at concentration exceeding NYS Standards.

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 95,000 cubic yards of municipal waste were disposed in the landfill from 1965 to 1985. However, no hazardous wastes are known to be disposed of on-site.

(Webster, R., and Sharpe, P., December 1985 and Tallamy, Van Kuren, Gertis & Assoc. report 1982)

Basis of estimating and/or computing waste quantity:

Because only low concentrations of contaminants have been detected and no records exist which indicate that hazardous wastes have been disposed on-site, the hazardous waste quantity score for this site is one.

* * *

5. TARGETS

Surface Water Use

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

Tributary of Little Buffalo Creek - No known use.

Little Buffalo Creek - recreational use only - flows through Town Park.

(ES and D&M Site Visit, December 1985; NYS Atlas of Community Water

System Sources, 1982)

Is there tidal influence?

No.

(USGS Topographic Map, East Aurora Quadrangle)

Distance to a Sensitive Environment

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

None within 2 miles. (USGS Topographic Map, East Aurora Quadrangle)

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

1 mile northwest of site - EA-25
 (NYSDEC Interview - Mike McMurry, January 1986)

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

None within one mile.

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:

No surface water intakes within 3 miles of site. (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):

No surface water intakes within 3 miles of site. (NYS Atlas of Community Water System Sources, 1982)

Total population served:

Not applicable.

Name/description of nearest of above water bodies:

Not applicable.

Distance to above-cited intakes, measured in stream miles: Not applicable.

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

HNu meter readings were taken upwind and downwind of the site in April 1986 by ES and D&M. As a result, the HNu meter readings indicated no measurable concentrations of organics.

Date and location of detection of contaminants:

April 1986 - no contaminants detected (ES and D&M Site Inspection Apr 86)

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:

No reactive or incompatible compounds are known to exist on-site (NYSDEC) Registry Sheet, 1985)

Most incompatible pair of compounds:

No incompatible pair of compounds are known to exist on-site (NYSDEC Registry Sheet, 1985)

Toxicity

Most toxic compound:

No toxic compounds with the potential to impact the air pathway are known to exist on-site (NYSDEC Registry Sheet, 1985).

Hazardous Waste Quantity

Total quantity of hazardous waste:

No hazardous wastes have been known to be disposed on-site (Webster, R., and Sharpe, P., December 1985).

Basis of estimating and/or computing waste quantity:

Because no hazardous wastes are known to be disposed on-site and HNu meter readings did not indicate the presence of volatile organic constituents, the hazardous waste quantity score for the air pathway is zero.

* * *

3. TARGETS

Population Within 4-Mile Radius

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

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi 382 people (Bureau of the Census Data, 1980)

Distance to a Sensitive Environment

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

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

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

1 mile northwest of site EA-25.

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

None within 1 mile. (NYSDEC - Region 9, Division of Fisheries and Wildlife, Department of Regulatory Affairs, 1985)

Land Use

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

None within 1 mile. (ES and D&M site visit, 1985 and USGS Topographic Map, East Aurora Quadrangle)

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

Approximately 450' to Marilla Town Park.

Distance to residential area, if 2 miles or less:

Approximately 1.1 miles to the nearest population center, the Hamlet of Williston. (Tallamy, Van Kuren, Gertis & Assoc., 1982)

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

Adjacent and south of site; land has not been used in past 5 years except for a garden. (ES and D&M Site Visit, Dec. 1985)

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

None.

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 information was discovered during the Phase I study which indicates that a Fire and Explosion Situation existed or presently exists at the site.

Type of containment, if applicable:

* * *

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No measurements to determine the fire and explosion potential were taken on-site.

Ignitability

Compound used:

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

Reactivity

Most reactive compound:

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

Incompatibility

Most incompatible pair of compounds:

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

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

No hazardous waste with the potential to create a fire or explosion hazard is known to exist on-site. (NYSDEC Registry Sheet, 1985)

Basis of estimating and/or computing waste quantity:

See above comment.

* * *

3. TARGETS

Distance to Nearest Population

Landfill is < 1/4 mile from the nearest population. (ES and D&M Site Visit, December 1985; Topographic Map)

Distance to Nearest Building

Landfill is < 1/4 mile from nearest building. (ES and D&M Site Visit, December 19 85; Topographic Map)

Distance to Sensitive Environment

Distance to wetlands:

A NYS registered wetland (EA-25) is located approximately 1 mile northwest of the site. (NYS Wetlands Maps)

Distance to critical habitat:

None within one mile. (NYSDEC Interview - Mike McMurry, January 1986)

Land Use

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

None within one mile.

(ES and D&M Site Visit, 1985 and USGS Topographic Map, East Aurora Quadrangle)

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

Approximately 450 feet to Marilla Town Park. (Engineers Report - Tallamy, 1982)

Distance to residential area, if 2 miles or less:

Approximately 1.1 miles to the Hamlet of Williston. (USGS Topographic Map, East Aurora Quadrangle; Tallamy Report, 1982)

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

Adjacent and south of site, not in production. (ES and D&M Site Visit, 1985)

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

None.

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

Approximately 3,000. (Tallamy, 1982; Topographic Map)

Buildings Within 2-Mile Radius

Residential Houses on Eastwood Road approximately 1,500 ft. from site.

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

Based on review of available information during the Phase I Study, there is no confirmed instance in which contact with hazardous substances at the site has caused injury, illness or death to humans or animals.

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

Chain fence at entrance road prevents vehicle entry; however, barriers do not completely surround the facility to prevent unauthorized entry.

(ES and D&M Site Visit, 1985)

* * *

3. CONTAINMENT

Type of containment, if applicable:

Landfill has a soil cover system, but protruding refuse is an ongoing problem at the site. However, no hazardous wastes are known to exist on-site so hazardous susbstances are not accessible to direct contact.

* * *

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Phenol has been detected in surface water samples at concentrations exceeding NYS Class D Standards (Tallamy, V&nBuren, Gertis & Associates, 1982)

Compound with highest score:

Phenol - 3 (HRS Users Manual, 1982)

5. TARGETS

Population within one-mile radius

382 people. (Bureau of the Census Data, 1980)

Distance to critical habitat (of endangered species)

None within 1 mile.

(NYSDEC - Region 9, Division of Fisheries and Wildlife, Department of Regulation Affairs, 1985)

HRS REFERENCES* TOWN OF MARILLA LANDFILL

- 1. Earth Dimensions, Inc. (1981). Town of Marilla Landfill Soils Report. August 4, 1981.
- 2. Ecology and Environment, Inc. (1985). Laboratory and Analysis Report. August 16, 1985.
- 3. Engineering-Science (ES) and Dames and Moore (D&M) Site Visit, Dec. 85, and April, 1986.
- 4. EPA (1983). Code of Federal Regulations, 40 CFR.
- McMurray, M. (1986), NYSDEC, Div. of Fisheries and Wildlife, Dept. of Regulatory Affairs - Region 9, Interview for Phase I Investigation, 1/3/86.
- 6. NYSDEC, Inactive Hazardous Waste Disposal Site Report (Registry Sheet), 1985.
- 7. NYSDOH (1982). "NYS Atlas of Community Water System Sources".
- 8. Tallamy, Van Kuren, Gertis and Associates (1982). "Town of Marilla Landfill Engineer's Report and Plan of Operation". Feburary, 1982.
- 9. US Bureau of the Census (1980). "Erie County Planning Department 1980 Census Tracts".
- 10. USDA, Erie County General Soil Map and Interpretations.
- 11. US Dept. of Commerce, National Climatic Center, Climatic Atlas of the United States, 1979.
- 12. USGS, Topographic Map: East Aurora and Cowlesville Quadrangles.
- 13. Webster, R. and Sharpe, P. (1985), Town of Marilla Superintendent and Councilman. Interview for Phase I Investigation, 12/10/85.

*For general references, see Appendix A.



DIMENSIONS, INC.

Soil Investigations and Natural Resource Assessments Roycroft Campus, 31 S. Grove St. • East Aurora, N.Y. 14052 • (716) 655-1717

REF. 1

SOILS REPORT

upust 4, 1981

Marilla Landfill

Town of Marilla, New York

INTRODUCTION:

Four (4) soil borings were augered, sampled and described to define the soil characteristics around the above named landfill. Two of these borings were located east of the landfill in the open field to determine the presence of impervious soil material. This investigation was requested by Nicholas J. Pinto with Tallamy, Van Kuren, Gertis and Thielman.

INVESTIGATIVE PROCEEDURE:

The soil samples were obtained with a split spoon sampler that was driven into the ground with the standard penetration test of a 140 pound hammer dropping 30 inches. This split spoon sampler was advanced below hollow stem augers after the surficial two (2) foot sample was collected.

A Professional Soil Scientist supervised this investigation and logged the soil profiles.

SITE CHARACTERISTICS:

The Marilla landfill is located in a kame consisting of stratified mostly shaly gravel and sand. Soil boring #4 reflects the soil characteristics of this kame. The other borings (#1 -#3) indicate that a thin silty soil material mantles the shale bedrock. Following is a summary of the soil characteristics described during this investigation:

	MON	סדד	RIN	G W	FIL	# 5	cont	tinued			SURF. ELEV.
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, i i i i i i i i i i i i i i i i i i i		5201		Tow	n of	Ma	ril	la Sanitary Landfil	1		
	CLIE	NT		TON	n of	<u>M</u> a	ril	la. New York	DATE START	ED <u>8/24</u>	<u>/81</u> COMPLETED <u>8/24/</u>
	SAMPLE NO.		BLO SA		DN R 14/24	*		DESCRIPTION & CLA	SSIFICATION		WATER TABLE & PEMARKS
<u>roer</u>	·	/ 			<			· · ·			
								See sheet 1A of 1B)		
					+						
	·	!									
5_	: 	1									
		 						grades down	ward to $ \frac{7}{2}$.5	
	1							Moist gray shaly s	ilty clay loam		·
								mostly shale grave cobble, extremely soil structure	1 and occasiona. firm, massive	1	
10								,clear trans	ition to $ \frac{11}{2}$	<u>-</u> 5_	
			 		.		/	Wet gray shale bed bedded, very soft, can easily be crus	rock, thinly shale, bedrock hed into a		
		<u> </u>					$\overline{\ }$	CLAYEY-SILT betwee	n fingers	12.0	
								Refusal at 12.0 fe	et		Water table at 11.5 feet below surface
15											well.
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	-	+		1	$\left\{ - \right\}$	{					

EA	Ry DNSIONS, 1.	<u>C.</u> ①
	797 Center Street • East Aurora, New Yor	k 14052 → (716) 655-1717
MONITORING WELL #5		SURF. ELEV.
G81a PROJECT <u>Monitori</u> Town of	ng well installation LOCATION near	ar southwest corner of landfi
CLIENT Town of	Marilla, New York DATE STARTED	8/24/81 COMPLETED 8/24/81
BLOWS ON		
DEPTH 2 SAMPLER	DESCRIPTION & CLASSIFICATION	- WEIL WATER TABLE & REMARKS
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Moist black shaly silt loam (CLAYEY- SILT) topsoil with 15 to 25% mostly shale gravel, very friable 0.5 Moist distinctly mottled brown shaly silt loam (CLAYEY-SILT) with 15 to 25% mostly shale gravel, very firm, blocky soil structure clear transition to2.0 Moist distinctly mottled olive brown very shaly silt loam (CLAYEY-SILT) with 40 to 60% mostly fine size shale gravel, very firm in place, loose when disturbed clear transition to2.5 Moist distinctly mottled olive brown silty clay loam (CLAYEY-SILT) with 5 to 15% mostly black shale gravel, levery firm, blocky soil structure clear transition to3.0 Extremely moist distinctly mottled olive brown very shaly silt loam (CLAYEY-SILT) with 40 to 70% mostly shale gravel, loose when disturbed clear transition to4.3 Moist distinctly mottled shaly silt clay loam (CLAYEY-SILT) with 15 to 20% mostly shale gravel, very firm, massive soil structure 	Water sorted a deposited silt clay and shaly gravel in vary ing amounts to 7.5 feet over dense silty glacial till to 11.5 feet over soft shale bedrock to refusal.
		continued on next sheet
N = NUMBER OF BLOWS TO	DRIVE 2 "SPOON 12 "WITH 140 ID.	WT FALLING PER BLOW

pl LOGGED BY <u>Donald W. Ovens/Soil Scientist</u> SHEET <u>IA</u> OF <u>IB</u>

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	X	H	Test Borings and Logs 797 Center Street • East Aurora, No	lew York 14912 • (716) 655-1717	
MO	NITORIN	G WEIL #4 ~	ntinued	SURF. ELEV	
Se a	PROJECT	Monitori	g well installation LOCATIO	N Southeast corner of landfill	
	CLIENT		arilla, New York DATE ST	ARTED	31
DEPTH	AMPLE	BLOWS ON SAMPLER	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS	
eet			See sheet lA		
5					
10				_11.5	
15			Extremely moist dark gray shaly loam (CLAYEY-SILT) with 20 to 40 black shale gravel and occasiona cobble, very firm, massive soil structure Refusal at 13.3 feet	silt 0% 11 13.3	
brl	N = NUP	MBER OF BLOWS	0 DRIVE " SPOON WITH N. Owens/Soil Scientist	40 Ib. WT. FALLING 30 " PER BLOW	

		Charles Restores, r. C.	0
		Test Borings and Logs	655-17.7
	MONITORING WELL	<u>#4</u> SUR	F. ELEV
G	PROJECT Monitori	ng well installation LOCATION Southeast corr	ner of landfill
	CLIENT <u>Town of N</u>	arilla, New York	COMPLETED
	BLOWS ON		
.P1	TH W Z	DESCRIPTION & CLASSIFICATION WATER	TABLE & PEMARKS
		Moist dark brown gray silt loam (CLAYEY-SILT) topsoil with 15 to 30% gravel, friable 0.3	
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Moist brown silty clay loam (CLAYEY- SILT) with 10-15% mostly black shale gravel, firm, blocky soil structure clear transition to 0.9 Moist faintly mottled sandy loam (SILTY-SAND) thinly bedded, non- plastic clear transition to 4.5 Moist distinctly mottled brown silty clay loam (CLAYEY-SILT) with 10-15% mostly black shale gravel, firm grades downward to 6.0 Moist olive brown shaly silty clay loam (CLAYEY-SILT) with 15 to 25% mostly shale gravel, very firm, massive soil structure 8 5	Water sorted and deposited silt, clay, sand and shaly gravel in varying amounts to 9.5 feet over dense silty glacial till to refusal.
	6 9 15 22 25 37 6 6 7 14 23 100/3" 7 7	Extremely moist distinctly mottled brown shalv loam (SAND-SILT-CLAY), loose 9.5 (1) Moist distinctly mottled olive brown 13.3	(1) Number 15 slotted PVC well screen.
	5	<pre>/ Snaly silt loam (CLAYEY-SILT) with / 15-25% mostly black shale gravel and / occasional cobble, very firm, massive soil structure clear transition to 10.5</pre>	Refusal likely shale bedrock.
		Moist dark gray shaly silt loam (CLAY- EY-SILT) with 20-40% black shale gravel and occasional cobble, very firm, massive soil structure 11.5	No water at completion.
	N = NUMBER OF BLOWS	see description on next page TO DRIVE SPOON WITH Ib. WT. FALLING W. Owens/Soil Scientist SHEET A	PER BLOW
	797 Center Street • East Aurora, New York	c 14052 • (7)(6) + 55-1717	
--	---	---	
MONITORIN <u>G WELL #3</u>		SURF. ELEV.	
PROJECT <u>Monitorin</u> Town of N	ng well installation LOCATION	Wortheast of landfill	
CLIENT Town of M	arilla, New York DATE STARTED	8/24/81 COMPLETED 8/24/81	
BLOWS ON SAMPLER	DESCRIPTION & CLASSIFICATION	WET.I. WATER TABLE & REMARKS	
1 6 7 18 23 25 1 1 1 1 1 1 1 1 1 1 1 1 2 13 11 13 15 24 2 2 1 1 15 24 2 13 11 13 15 24 2 13 11 13 15 24 2 10 10 13 21 13 21 3 3 9 12 13 21 13 21 3 3 9 12 13 21 14 14 14 14 14 14 14 14 14 14 14 14 14 14 15 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 15 14 14 14 14 14 14 14 1	Moist black silt loam (CLAYEY-SILT) topsoil with 5 to 15% mostly shale gravel, very friable 0.6 Moist faintly mottled brown silt loam (SANDY-SILT) with 5 to 15% mostly shale gravel, very friable 1.2 Moist distinctly mottled olive brown shaly silty clay loam (CLAYEY-SILT) with 15 to 25% mostly black shale gravel clear transition to 2.0 Moist distinctly mottled olive brown very shaly silt loam (CLAYEY- SILT) with 40 to 60% mostly shale gravel, loose when disturbed clear transition to 3.5 Moist distinctly mottled olive gray shaly silt loam (CLAYEY-SILT) with 15 to 25% mostly black shale gravel, lvery firm L clear transition to 4.5 Moist gray shaly silty clay loam (CLAYEY-SILT) with 20 to 40% shale gravel and occasional cobble, massive soil structure L clear transition to 6.5 Moist gray shale bedrock, thinly bedded, very soft, shale bedrock (can easily be crushed into a CLAYEY-	and deposited and deposited mostly silt, clay and shaly gravel in vary ing amounts to 3.5 feet over dense silty glacial till to 6.5 feet ov very soft bedr to refusal. (1) Number 15 slotted PVC well screen.	
	MONITORING WELL #3 PROJECT Monitorir Town of M CLIENT Town of M SAMPLER 1 6 7 18 23 25 1 6 7 18 23 25 1 1 7 7 7 1 1 6 7 18 23 25 1 1 7 7 7 1 1 6 7 18 23 25 1 1 7 7 7 1 1 6 7 18 23 25 1 1 7 7 7 1 1 7 7 7 1 1 7 7 7 1 1 6 7 18 23 25 1 1 7 7 7 1 1 7 7 7 1 1 7 7 7 1 1 1 7 7 1 1 1 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	"97 Center Street • East Aurora. New York MONITORING WELL #3 PROJECT Monitoring well installation LOCATION CLIENT Town of Marilla, New York DATE STARTED DESCRIPTION & CLASSIPICATION Stores on SAMPLER DESCRIPTION & CLASSIPICATION Stores on SAMPLER DESCRIPTION & CLASSIPICATION DESCRIPTION & CLASSIPICATION Stores on SAMPLER DESCRIPTION & CLASSIPICATION DESCRIPTION & CLASSIPICATION Stores on SAMPLER DESCRIPTION & CLASSIPICATION Stores on SAMPLER DATE STARTED DATE STARTED DATE STARTED DATE STARTED DATE STARTED DATE STARTED DESCRIPTION & CLASSIPICATION STORE STARTED DESCRIPTION & CLASSIPICATION STORE STARTED DATE STARTED DATE STARTED DATE STARTED <	

	VAL UTALIELONS, F.	С.	
	Test Borings and Logs 797 Center Street • East Aurora, New Yorl	k 14052 •	(716) 655-1717
MONITORING WELL #2			
81a PROJECT <u>Monitorin</u>	g well installation LOCATION w	est side	
CLIENT TOWN OF M	arilla Sanitary Landfill		
		8/25/	81_ COMPLETED <u>8/25/81</u>
DEPTH	DESCRIPTION & CLASSIFICATION	WELL	- WATER TABLE & PEMARKS
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Moist black silt loam (CLAYEY- SILT) topsoil with 5 to 10% mostly black shale fragments, very friable Moist distinctly mottled brown silt loam (CLAYEY-SILT) with 5 to 15% mostly shale gravel and occasional cobble, very firm, blocky soil structure clear transition to 4.0 . Moist highly mottled olive brown shaly silt loam (CLAYEY-SILT) with 15-30% shale gravel, extremely firm, weak platy soil structure clear transition to 6.0 . Moist olive gray very soft shale bedrock, thinly bedded, bedrock can be easily crushed between fingers to a (CLAYEY-SILT) clear transition to 8.0 . Moist distinctly mottled dark gray shale bedrock, thinly bedded, moderately hard, bedrock can be easily etched with a knife 9.8 Refusal at 9.8 feet	R Two inch diameter PVC well pipe Number 4 size sand pack Bentonite seal	Dense silty glacial till to 4.0 feet over 2.0 silty residual soil material to 6.0 feet over shale bedrock to refusal. 7.5 9.5 9.8 Number 15 slotted 2 inch diameter PVC well screen water at completion.
N = NUMBER OF BLOWS TO bl LOGGED BY Donald W	DRIVE SPOON12 WITH140 b . Owens/Soil Scientist	D. WT. FALLI	NG <u>20</u> " PER BLÓW.
			Ur

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LiC. DIMERSIONS, ----Test Bornes and Lors. 797 Center Street • East Aurora, New York 14052 • (716) 655-1717

ONITORING WELL

HOLE NO.

PROJECT Landfill Investigation 31 Town of Marilla Sanitary Landfill Town of Marilla, New York

LOCATION Northwest of landfill

CLIENT

DATE STARTED

7/22/81 COMPLETED 7/24/81

SURF. ELEV.

BLOWS ON SAMPLER			DESCRIPTION & CLASSIFICATION	w	ELL	WATER TABLE & REMARKS					
				×				1			
		1	2	9	10	11		Moist faintly mottled black silt loam (CLAYEY-SILT), firm, blocky soil structure			Thin mantle of dense silty glacial till or
	2	10	10	14	19	24	\`.	$-$ clear transition to $\frac{1 \cdot 0}{2}$ - Moist distinctly mottled olive		Įġ	residual to 5.5 feet over silty residual over
		t.		14	21	,21		brown silty clay loam (CLAYEY- SILT) with 10 to 15% mostly black shale fragments, very		nite plu	soft shale bedrock becoming harder with depth.
							 	firm $$ clear transition to $ \frac{5 \cdot 5}{2}$		bentor	÷
	1	13	21	30	67	51		Moist faintly mottled gray silty clay loam (CLAYEY-SILT), extremely firm, thinly bedded	ll pipe	Cement	
10		10.	0'						Laucter PVC we		Diameter of mon- itoring well back- fill 9 inches abox 10.0 feet, 3 inch below.
	R							Gray shale bedrock, core separated in 1/8 to 2 inch lengths, moder- ately hard shale bedrock can be etched with a knife	2" d		Advanced augers to 10.0 feet, bedrock cored with NX diamond
	n 1			0%			•	$$ -clear transition to $-\frac{13.9}{-}$ -		pack	bit to 62.7 feet
			r		ver	¥		Dark gray shale bedrock, core separated in 1/8 to 4 inch lengths, moderately hard to hard, shale bedrock can be etched with knife but with some effort		#4 size sand	

	H	Test Borings and Logs 797 Center Street • East	Aurora, New Yori	ĸ 14052	• (716) 055-1717
MONIT	ORING WELL				
	HOLENO. <u>1 continued</u>				SURF. ELEV
G C 1	PROJECT Landfill Inv. Town of Mari	estigation 11a Sanitary Landfill	LOCATION NO	rthwes	t of landfill
	CLIENT <u>Town of Mari</u>	Lla, New York	DATE STARTED	2/22	/81COMPLETED _7/24/81
DEPTH	BLOWS ON SAMPLER	DESCRIPTION & CLASSIFICATION	אכ	WEILL	- WATER TABLE & PEMARKS
20	Run 1 RDQ 0.3'	See previous sheet clear transition Dark gray shale bedrock, separated into 3 to 18 i. moderately hard to hard, rock can be etched with but with some effort	to <u>17.7</u> core nch lengths, shale bed- a knife		
25	R u n Recovered 9.9' =2 RDQ RDQ	Dark gray shale bedrock, separated into 1/8 to 1½ lengths with one (1) ½ ir silty interbed at 20.9 fo depth, moderately hard to shale bedrock can be etch knife but with some effor	20 - 20.5 core inch inch inch soft ot o hard, ied with a t	PVC well pipe	
30	R	Dark gray shale bedrock, separated into 3 to 20 in lengths with two (2) ½ in silty interbeds at 21.3 a depths, moderately hard to shale bedrock can be etch a knife but with some effe	core ch ch soft nd 21.7 foot o hard, ed with ort	#4 size cand pack	· · ·
35	n Recovered 	•			continued on sheet 3.
- r ph ι	N = NUMBER OF BLOWS TO DRIV	E <u>2</u> "SPOON <u>12</u> " ens/Soil <u>Scie</u> ntist	WITH <u>140</u> Ib SHS). WT. FAI	LLING <u>30</u> PER BLOW.

ONITO	ORING WELL	797 Center Street • East Aumra, New Yorl	k 14()	52	• (716) 055-1717
	HOLE NO. <u>1 conti</u>	nued			SURF ELEV.
G81	PROJECT Landfill	Investigation LOCATION N Marilla Sanitary Landfill	orth	wes	st of landfill
	CLIENT Town of	Marilla, New York DATE STARTED	7	/22	2/81_ COMPLETED <u>7/24/81</u>
DEPTH Feat	BLOWS ON SAMPLER	DESCRIPTION & CLASSIFICATION			- WATER TABLE & PEMARKS
	R	Dark gray shale bedrock, core separated into 3 to 20 inch lengths with two (2) ½ inch soft silty interbeds at 21.3 and 21.7 foot depths, moderately hard to hard, shale bedrock can be etched with a knife but with some effort			
	p Recovery 3.3	Dark gray shale bedrock, core separated into 1/8 to 6 inch lengths with numerous soft silt lenses, moderately hard to hard, shale bedrock can be etched with a knife but with some effort	well pipe		
45	RUN 5 Core 9.4' Recovery 9.4	clear transition to - $-\frac{44 \cdot 0}{4}$	Two inch PVC	ize sand pack	
	n RDQ 9↓4'	Dark gray shale bedrock, core separated into 2 to 20 inch lengths, bedrock is distinctly more massive, moderately hard to hard, shale bedrock can be etched with a knife but with some effort		¥.4. S	
					ontinued on sheet 4

			• به	DIMENSIONS, I	(C	b	
				Test Borings and Locs 797 Center Street • East Aurora, New 1	York 14	052 •	(716) 655-1717
NIT	ORING WE	TT					
	HOLE NO		ntin	ued			SURF. ELEV
4 81	PROJECT	<u>Landfi</u> Town o	<u>1·1 I</u> f_Ma	nvestigation LOCATION	Nor	thwe	est of landfill
	CLIENT	Tam o	£_Ma	TILLA, New York DATE START	TED	7/22	./81_ COMPLETED _7/24/81
DEPTI	SAMPLE NO	BLOWS ON SAMPLER	~	DESCRIPTION & CLASSIFICATION	5	VBU	WATER TABLE & REMARKS
55		Cored 10	0'	D ark gray shale bedrock, core	l pipe		
	R u n <u>#6</u>	Recovered 9.7' RDO 3.8'		separated into 3 to 20 inch lengths, bedrock becomes more massive with one unbroken length 4.9 feet long.	inch PVC wel	d puck	
				·	OWL	#4 size sar	60.7
				<i>i</i>	•		62.7
65				Coling completed at 62.7'		W be C	ater table at 3.9 feet elow surface after oring.
							· · · · · · · · · · · · · · · · · · ·
	N = NU	MBER OF BLC		0 DRIVE " SPOON " WITH 1. Owens/Soil_Scientist	L Ib. SHFE	WT. F#	ALLING <u>30</u> " PER BLOW. <u>4</u> OF <u>4</u>

· : ·				1		A	12.5	H) DIMENSIONS, I.,	С.	
		\leq				·		Test Borings and Logs 797 Center Street • East Aurora, New Yor	к 14052	• 07160 075 1717
BORE	ноι	LE NO). <u> </u>		4					SURF ELEV
З	PRC	JECI		ian Iowi	dfi n o	11 É M	Inve aril	stigation LOCATION 20 la Sanitary Landfill la	east	of southeast corner of storage building
	CLIE	INT	-	[œw	n o	f_M	aril	La, New York DATE STARTED	7/24/	(81COMPLETED7/24/81
EPTH	SAMPLE NO.		BLC		ON ER 13/24	1.		DESCRIPTION & CLASSIFICATION		WATER TABLE & REMARKS
		12	9	10	13	19		Moist mixed brown and gray gravelly silt loam (CLAYEY-SILT) fill, very firm	1.0	Fill to 1.0 foot over water sorted and deposited mostly
	2	13	12	16	15	28	4	Moist faintly motted olive brown very shaly silty clay loam (CLAYEY-SILT) with 40 to 60%		shale gravel, some that has weathered i a (CLAYEY-SILT) and (SAND-SILT-CLAY) to 12.0 feet over
		2		6	5	12		firm bocoming friable below 4.0 feet, blocky soil structure	6.0	dense silty lake sediment to 15.3 fee over shale bedrock.
		10	12	14		31		Extremely moist olive gray very shaly silty clay loam (CLAYEY- SILT) with 40 to 60% mostly soft shale fragments, very firm		
10								clear transition to	8.0	
	6	9	12	15	15	27		Wet faintly mottled olive gray very shaly clay loam (SAND-SILT-CLAY) with 40 to 60% mostly soft shale fragments, very firm, stratified		
	7 	7	10	14	20 	24			12.0	
	<u> </u>	 						SILT), very firm, thinly bedded	15.3	
15	8	7	10	47	10		$\left\langle \right\rangle$	Dark gray shale bedrock, thinly bedded, moderately hard bedrock can be etched with a knife		•
				_				Refusal at 15.5 feet	15.5	Water table at 9.3 feet below surface
· · · ·	N ==	NU	MBEF	R OF	BLO	ws 1		VE2 " SPOON 12 " WITH 140	Ib. WT FA	LLING 30 "PFR BLOW
	LOG	GED	BY	D	ona	<u>1d</u> 1	w. 0.	vens/Soil Scientist		

LOGGED BY	Donald W.	Owens/Soil	Scientist
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DIMENSIONS, INC.

Test Borings and Logs

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BORE HOLENO. 3

IG81 PROJECT <u>Landfill Investigation</u> <u>Town of Marilla Sanitary Landfill</u> CLIENT <u>Town of Marilla, New York</u> LOCATION 160' west of property, road hedgerow, 230' north of entranc DATE STARIED 7/24/81 COMPLETED 7/24/8

SURF. ELEV

BLOWS ON SAMPLER		BLOWS ON SAMPLER							
DEPTH	NAS		6/12	12/	1-/24	Ň	DESCRIPTION & CLASSIFICATION		WATER TABLE & PEMARKS
		2	4	9	15	13	Moist dark brown silt loam (CLAYEY- SILT) topsoil, friable	0.6	· · · · · · · · · · · · · · · · · · ·
· - - - - - -	2		17	29	100	46	Moist distinctly mottled olive brown silty clay loam (CLAYEY-SILT) with 5 to 15% mostly black shale fragments, very firm, prismatic soil structure grades downward to Moist distinctly mottled olive	<u>4.0</u> _	Dense silty glacial till (residual) to 4.0 feet over silty residual soil mater to 5.0 feet over very soft shale bedrock becoming harder at 6.0 feet.
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	10					<pre>gray very shaly silty clay loam (CLAYEY-SILT) with 40 to 60% mostly soft shale fragments, very firm, very thin platy structure </pre>	.5 <u>.</u> 0_	
<u> </u>							<pre>Moist olive gray very soft shale bedrock, bedrock can easily be crushed into a (CLAYEY-SILT) soil material</pre>		
	·							<u>6.0_</u>	
							Refusal at 7.0 feet		No water at completion.
			· · · · · · · · · · · · · · · · · · ·		•				

N = NUMBER OF BLOWS TO DRIVE ______ SPOON _____ WITH _____ Ib. WT. FALLING ______ PER BLOW.

oh LOGGED By Donald W. Owens/Soil Scientist

SHEET 1 OF

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		EA	R'T'H)	DIMENSIO	NS, IN	С.	$\bigcirc$
				Test Borings and Logs 797 Center Street • East	Aurora, New Yor	k 14052 •	(716) (555-1717
ORE	HOLE NO.	2					SURF. ELEV.
G	PROJECT	Landfill Town of 1	Investiça Marilla Sa	ation anitary Landfill	LOCATION 18	5' north 0' east d	of entrance road,
	CLIENT _	Town of 1	Marilla, !	New York	DATE STARTED	7/24/8	COMPLETED 7/24/81
fcet	SAMPLE SAMPLE	LOWS ON SAMPLER		DESCRIPTION & CLASSIFICATION	N		WATER TABLE & REMARKS
		11 20 15	Mois SILT fria	st dark brown silt lc F) topsoil with 5 to able	am (SANDY- 10% gravel,	0.7	Dense silty glacial
			Mois silt 10% stru	st highly mottled gra t loam (SANDY-SILT) w gravel, firm, blocky ucture	yish brown ith 5 to soil	1.5	till to 4.0 feet over silty residual soil material to 5.5 feet over very soft shale bedrock becoming harder
	2 30 59		Mois shal with extr	t distinctly mottled by silty clav loam (C 15 to 30% shale frac- remely firm with brit- sistence, prismatic so acture	brownish gra LAYEY-SILT) gments, tle pil	Y	at 6.0 feet
- <b></b> 10			Mois very SILT SILT very	clear transition t distinctly mottled shaly silty clay loa ) with 40 to 60% most e fragments, extreme thin platy structure	olive gray am (CLAYEY- tly soft ly firm,	<u>4.0</u> _	
			Mois bedra	clear transition t t very soft gray shal ock can easily be cru YEY-SILT) soil materi	co le bedrock, ished into a lal	<u>5.</u> 5_	
			Wet of bedde	clear transition t dark gray shale bedro ed, moderately hard,	ck, thinly bedrock	<u>6.0</u> _	Water table at 6.0 feet below surface at completion.
			can t	pe etched with a knif	e e	5.9	
			Refus	sal at 6.9 feet			
þ	N = NUMBER	R OF BLOWS T		" SPOON	" WITH <u>140</u> 1	b. WT. FALLI	NG <u>30</u> "PER BLOW.

			Å	N.	$\leq$		Test Borings and Logs 797 Center Street • East Aurora, New Yor	k 14052 ● C	16/ 655-1717
BORE	HOL	E NO	·	_1	<u>.                                    </u>				SURF. ELEV
81	PRO.	JECT	$\frac{L}{T}$	and	lfil 1 of	.1 I Ma	nvestigation LOCATION 20 rilla Sanitary Landfill Of	west of landfill	west central edge
	CLIE	NT	Ţ	 	<u>of</u>	<u>Ma</u>	rilla. New York DATE STARTED	7/21/81	COMPLETED7/21/81
DEPTH	SAMPLE NO.		BLO SA	WS ( MPLI 12/ / 14		 [ ``	DESCRIPTION & CLASSIFICATION	w	ATER TABLE & FEMARKS
		2	8	16	27	24	Moist brown silt loam (CLAYEY-SILT), firm, weak blocky soil structure	1.0	· · · · · · · · · · · · · · · · · · ·
	2	12	17	21	26	38	<pre>&gt; clear transition to Moist distinctly mottled olive gray silty clay loam (CLAYEY-SILT), with 5 to 15% shale gravel, very firm, massive soil structure</pre>	· · ·	Dense silty till sediment.
5_	3	8	18	18	25	36		4.5_	
	4	9	_16	22	38	38	Moist gray shaly silt loam (CLAYEY- SILT) with 15 to 40% mostly soft shale fragments, very firm, massive soil structure		Samples 3-7 emitte slight sulfur odor probably indigenou to the till.
	5	21	40	46	50	86		7.0_	Topsoil removed by bulldozer leveling drilling site before augering.
	7	16	24	23	29 10/3	47	Moist gray very shaly silt loam (CLAYEY-SILT) with 40 to 50% mostly soft shale fragments, extremely firm, massive soil structure	13.8	Refusal likely sha bedrock.
15							Refusal at 13.8 feet		No water at comple

Page 3 SOILS REPORT Marilla Landfill Town of Marilla, New York 4G81

( . j

A north flowing intermittent drainageway at the western edge of this kame has been recently landfilled. The area west of this drainageway is similar to the open field east of the landfill with glacial till or residual soil material mantling shale bedrock.

A water table was recorded at the contact of the stratified shaly sand and gravel (8.0 to 12.0 foot depths) in boring #4 at the southern end of this kame. A perched water table exists near the surface most of the year in the glacial till or residual soils (borings #1 - 3).

The very soft shale bedrock and the soil material above this strata is highly suitable soil cover material for landfilling. The thickness is the major limiting factor.

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Donald W. Owens Soil Scientist

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4G81

Page 2 SOILS REPORT Marilla Landfill Town of Marilla, New York 4G81

Bore number	Topsoil- Fill	Stratified Shaly Gravels and CLAYEY-SILT	CLAYEY-SILT lake sediment	CLAYEY-SILT glacial till Or residual	Shale Bedrock soft	Shale Bedrock moderately hard
1				0 - 13.8		
2*	0 - 0.7	- <del>1,</del> 1		1.5 - 5.5	5.5 - 6.0	6.0 - 6.9
3	0 - 0.6			0.6 - 5.0	5.0 - 6.0	6.0 - 7.0
4	0 - 1.0	1.0 - 12.0	12.0 - 15.3			15.3 - 15.5

Feet below the surface

 $\star$  - SANDY-SILT between 0.7 and 1.5 foot depths



International Specialists in the Environmental Sciences

6-11 REF. 2

#### LABORATORY REPORT

FOR

TOWN OF MARILLA -

SAWITARY LANDFILL

	•	
 Job	No.	TM-540

		•		· · ·	en tart o	· · ·	
	Sample Date: 6/18/82		·· ··	Sample:	d By: E d	3 E	• · · ·
الم المراجع ال المراجع المراجع المراجع المراجع المراجع	Date Received: 5/13/82		• • • •	Sample	Туре: Мог	nitoring	Hells
a series and a series of the ser	E & E Lab Number 82-	1142	1144		1146	1147	1143
	Customer Number MN-	#1	#2	#3	#4	#5	Surface
	pH, S.U.	7.3	6 <b>.</b> 4 ·	7.6	7.3	ö.7	7.3
	Specific Conductance, umhos/cm	2500	2100	400	660	1080	<b>34</b> 00
	Total Dissolved Solids, mg/L	1940	1750	306	488	940	2900
	Chloride, mg/L	842	437	25.7	46.2	334	873
ایت به وارد با از ماند. به میروند از این میروند از این میروند مراجع این میروند مراجع این میروند	Total Organic Carbon, my/L	71.4	182	12.3	8.5	9.1	181
۰۰ در ۱۹۹۰ - ۲۰۰۰ - ۱۹۹۰ - ۲۰۰۱ - ۲۰	Depth of Well, Ft.	65.1	12.7	7.6	12.3	9.5	N.A.
· · ·	Water Height in Well, Ft.	45.9	7.6	.7.0		5.2	

*N.A. = Not Applicable

Analytical References:

recycled paper

يعبدن ودرو وليسادق وبل

"Standard Methods for the Examination of Water and Wastewater," 15th edition, 1981.

		JAMA
Supervising	Analyst_	Tresher Tallelics
Date	July 7	1982

ecology and environment, inc. International Specialists in the Environmental Sciences

Stream of Changes in the Environmental Sciences

		LABORAT F TG/N OF	ORY REPORT OR HARILLA	F		
Job No. TH-540	·					
Sample Date: 7/13/82 Date Received: 7/13/82				· · · · · ·	Sampled By:   Picked Up By:	E & E E & E
Sample Type: Grab	$\mathbf{X}$	et la este de		• . • • • • • • • •		·
E & E Lab Number 82-	1296	1297	1298	1299	1300	1301
Sample Identity	- <u>Hell #1</u>	<u>lie11 #2</u>	<u>!/a11 #3</u>	Kell #4	<u>ke11 45</u>	Surface Nater
pH, S.U.	6.4	6.3	6.8	7.2	6.4	7.3
Specific Conductance, umhos/cm	14500	1520	310	440	830	2100
Total Dissolved	19200	1830	318	447	904	2370
Chloride, mg/L	/9480	625	20.8	50 <b>.</b> 0	375	890
Total Organic Carbon,mg/1	L 88.2	348	40.0	57.0	27.4	156
Cadolina, ng/L	0.058	0.003	0.003	< 0.002	<0.002	< 0.002
Copper, mg/L	∠0.050	∠0.050	∠0.050	∠0.050	<0.050	≥0.050
Chromium, mg/L	0.232	0.025	0.027	0.035	0.037	0.024
Lead, mg/L	20.010	∠0.010	<0.010	<0.010	∠0.010	20.010
Rercury, mg/L	∠0.0004	∠0.0004	<0.0004	20.0004	0.0004 کے ا	20.0004
Nickel, mg/L	0.323	0.069	∠0.050	20.050	0.050	0.051
Zinc. mg/L	0.119	0.179	< 0.050	<0.050	20.050	0.039
Depth of Well, Ft.	64.0	10.5	7.5	11.0	12.5	N.A.*

1.5

42.0

*N.A. = Not Applicable

Water Height, Ft.

Analytical References:

"Standard Hethods for the Examination of Water and Wastewater," 15th edition, 1981.

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Supervising Analyst Reiler July 28, 1082 Date

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R.A.*

# ecology and environment, inc. International Specialists in the Environmental Sciences

### LABORATORY REPORT

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		• • • •	TOWN OF	MARILLA			
. † . •	Job Nc. 171-540				-		
	Sample Date: 10/8/82		• • • • • • • • • •	Sam	pled By:	E&E	
	Date Received: 10/8/82			Pic	ked Up By:	E&E	
	Sample Type: Grab				۲۰ میں اور		· A .
	E & E Lab Number 82-	2117	2113	2119	2120	2121	2122
	Sample Identity	· (1911 #1.	Ne11 #2	₩e11 #3	Ve11 #4	lle11 ∉5	Running Hater
	Chlorice, mg/L	5940	630	7.82	35.6	429	454
	Specific Conductance, umhos/cm	13,200	2500	<b>3</b> 90	490	1260	1550
····· ··	pH, S.U. Sectors in the province of the sector of the sect	6.7	6.3	7.1	7.2	6.1	7.0
	Total Drganic Carbon, mg/L	89.2	121	40.0	32.7	24.3	97.9
	Total Dissolved Solids, mg/L	.12,400	2040	300	368	1140	1520
	Depth of Mell, Ft.	64.0	10.5	7.5	11.0	12.5	
•	Water Neight, Ft.	42.4	1.2	1.4	0.3	5.5	· · ·

Analytical References:

"Standard Methods for the Examination of Water and Wastewater," 15th edition, 1980.

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Supervising Analyst October 18, 1992 Date

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#### LABORATORY REPORT

FOR

TOWN OF MARILLA

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Job No.:	T#=540	
Sample Date:	12/28/82	Sampled Ev:

· .	Sample Date:	12/28/82		Sampled	b Ey:	E & E		
	Date Received:	12/28/812		Deliver	red By:			
	Sample Type:	Monitoring We	ells		· · · · · · · · · · · · · · · · · · ·	• · · ·		Surface
	E & E Lab Number	82-	2886	2887	2888	, 2889	2890	Water*
• • • •	Well Number		1	2	3	· 4	5	··. ···
•	Chloride, mg/L		6590	105	6.1	26.3	263	
• •••	Specific Conducta UMHOS/cm	ince	10,400	1500	<b>47</b> 0	380	.880	
	pH, S.O.	and a set of a set of the set of	5.9	6.4	6.9	7.1	6.7	مەنگەم. مەنبە ئە
	Total Organic Car	·bon, mg/L	110	62.5	37.4	25.6	19.2	
:: 	Total Dissolved S	Solids, mg/L	10,400	752	316	356	658	
•••	Depth of Well, Ft	•	64.0	10.5	7.5	11.0	12.5	· · · ·
	Water Height, Ft.	,	20.5	<b>7.</b> 5	6.0	8.8	4.5	

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*Not running

#### Analytical References:

"Standard Methods for the Examination of Water and Wastewater," 15th edition, 1980.

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Date:	1-6-13

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			Т	OWN OF TOWN LA	MARILLA			· · · ·		-
	محمد معرف المحمد ال	· •								·
	Job No.:	TM-540-3	•		·- ·.			• • •		
	Sample Date:	5/4/83	·· · · .	.:	Sampled	By:	E & E		· · · ·	
· · · · ·	Date Received:	5/4/83	• •			· •				•
···	Sample Type:	Grab	-					<b>I</b>	· · ·	
	E & E Lab Number	83-	1279	1280	1281	1282	1283	1284	1285	
	Sample Identity		Well #1	Well #2	Well #3	Well #4	Well .#5	North West Revine	North East Drainage	· · · ·
	Chloride, mg/L	. * * . *	4000	61.7	1.00	4.20	80.8	2060	· 22.0	
	Total Dissolved S	olids, mg/L	7920	412	276	214	320	4930	174	• .
. '	Total Organic Car	bon, mg/L	28.5	8.74	1.74	2.13	9.13	257	6.49	•
	Specific Conducta umhos/cm	ance,	8800	760	340	250	480	5200	320	•
•	pH, S.U.	· · · · · ·	6.9	6.2	6.8	7.7	6.1	6.9	7.6	
	Depth of Well, ft		64.0	10.5	7.5	11.0	12.5	\	-	

#### Analytical References:

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Water Height, ft.

"Standard ethods for the Examination of Water and Wastewater," 15th edition, 1980.

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Date:

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		<b>\</b>	····	FOR	·			
	Job No.: TM-540-3	 . <del>.</del>	<u>TOWN</u>	OF MA	RILLA	-	· · · · · · · · · · · · · · · · · · ·	
می این این این این این این این این این ای	Sample Date: 7/6/83 Date Received: 7/6/83 Sample Type: Monitoring	Wells				Sample	ed By: E	& E
	E & E Lab Number 83-	2155	2156	2157	2158	2159	2160	2161
- - 	Sample Identity:	Well ⁻ #1	Wel'l #2	Well #3	Well #4	Well #5	North West Ravine	North East Drainage Channel
• •	Chloride, mg/L	4416	292	6.14	11.6	57.2	3964	120
	Total Dissolved Solids, mg/L	5240	640	260	208	240	8800	500
	Total Organic Carbon, mg/L	94.2	86.0	51.0	35.6	22.9	119	36.9
	umhos/cm	8000	1200	460	290	380	7800	1000
	pH, S.U.	7.23	6.82	7.23	7.80	6.55	6.83	8.11
	Depth of Well, ft.	64.0	10.5	7.5	11.0	12.5		nen en
	Water Height, ft.	40.9	0.67	0.25	2.17	4.50		

Analytical References: "Standard Methods for the Examination of Water and Wastewater", 15th edition, 1980.

Supervising Analyst 7.21-83 Date:

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#### LABORATORY REPORT

FOR

TOWN OF MARILLA

Job No.:	Ti-540	··· ·	· · · · · · · · · · · · · · · · · · ·			• •	
Sample Date:	10/4/83	••••••••	Sampled	By: G.	Jones (E	E & E)	
Date Received:	10/4/33	···	Delivere	ed By: G.	Jones (E	E & E)	· · · . • · ·
Sample Type:	Monitoring and Surface	Wells Water					$\sum_{i=1}^{n}$
E & E Lab Numbe	r 83- 3664	3665	3666	3668	3669	3663	3667
Well No.:	1	2	3	4:	5	North West Ravine	North East Drainage Channel
/pH, S.U.	6.95	6.13	6.92	7.26	6.04	6.81	7-44
Specific Conduc umho	tance, s/cm 10,60	0 <b>1</b> 650	420	460	440	9250	765
Total Dissolved	Solids, mg/L 11,68	0 1440	203	240	1990	11,170	566
Chloride, mg/L	4974	554	19.5	181	17.2	4216	160
/Total Organic C	arbon, mg/L 29	35	15	17	20	70	12
Cadmium, mg/L Copper, mg/L	0.013 د 0.050	8 0.0054 0.050	0.002 0.096	0.004	0.006 0.561	0.013 < 0.050	0.002
Chromium, mg/L	0.011	0.015	0.019	0.015	0.036	0.014	k 0.010
∕Lead, mg/L ∕Mercurv, mg/L	0.229 0.000 د	0.0366	0.0542	< <b>0.0178</b>	< 0.0004	< 0.0004	< 0.0004
Nickel, mg/L	8.30	0.258	< 0.050	0.053	0.002	4.43	< 0.050
/Zinc, mg/L	0.067	3 0.250	0.174	0.114	1.145	0.150	< 0.05
Water Height, F	t. 22.6	10.5	7.5	11	8.7	$\bigvee$	

Analytical References: "Standard Methods for the Examination of Water and Wastewater", 15th edition, 1980.

H. t, Supervising Analyst____ Date: 10-25-87



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#### LABORATORY REPORT

FOR

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#### TOWN OF MARILLA

	Job No.:	TM-540	•		· · ·	•		· ·	.•
•	Sampie Date:	12/15/83		San	pled By	:	Ecology and	Environment,	Inc
 	Date Received:	12/15/83		Pic	ked Up	By:	Ecology and	l Environment,	Inc
	Sample Type:	Grab					1		
 	E & E Lab Number	83-	4720	4721	4722	4723	4724	4725	
	Sample Identity		Well -#2	Well #3	Well-, #4	. Hell #5	North Ravine	North East Drainage Channel	
	<pre> Total Organic Car </pre>	bon, mg/L	106	57.0	58.2	24.3	15.0	26.7	
	<pre> Total Dissolved S </pre>	Colids, mg/L	760	200	138	76	62	214	
	Chloride, mg/L		214	3.29	27.4	37.0	31.0	24.6	
	/Specific Conducti	vity,umhos/cm	905	295	275	200	180	179	
•	płi, S.U.		6.01	7.19	7.50	6.15	6.92	7.63	· . · .
	Water Elevation		11'2"	6'1-3/4"	7'3"	5"	NA /	NA	
	NOTE: Well No. 1	. appears to be	conta	minated wi	ith an o	11 1 ik	e substance	e. No	

analyses performed per engineer.

Analytical References:

"Standard Methods for the Examination of Water and Wastewater", 15th edition, 1980.

Supervising Analyst____ KI.4 Date: 1- 15-87



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### LABORATORY REPORT

TOWN OF MARILLA

		•						
Job No.:	Ų-0731	· · ·					•	•
Sample Date:	9/27/8	4		Sampled	By: E.	& E		
Date Received:	9/27/8	4		Delivere	d By: E	& E		
Sample Type:	Water	Grab						•
E & E Lab Numbe	r 84-	4936	4937	4938	4939	4940	4941	4942
Sample Identity	•	Well #1	Well #2	# Well #3	We]] #4	Well #5	South Stream	North Stream
Chloride, mg/L		284	340	11.8	18.5	21.8	85.4	175
Specific Conduc	tance,	1000	1000		500	<b></b>	100	
umnos/cm		4200	1300	380	580	240	480	180
pH, S.U.		5.43	5./4	<b>6.</b> /8	6.60	5.82	7.67	6.94
Total Organic Carbon, mg/L	 	50	77	44	52	31	12	10
Total Dissolved	**						•	
Solids, mg/L		475	642	285	838	186	<b>3</b> 82	<b>6</b> 80
Phenol, mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Iron, mg/L		5.45	137	59.6	67.4	176	3.56	5.88
Manganese, mg/L		2.63	13.4	0.720	0.755	1.46	0.671	0.292
Barium, mg/L		5.58	0.580	0.309	0.227	0.303	0.141	0.103
Chromium, mg/L		0.061	0.104	0.093	0.097	0.199	0.010	0.013
Lead, mg/L		0.191	0.091	0.060	0.060	0.079	0.018	<0.005
Mercury, mg/L		0.0005	<0.0004	0.0010	0.0007	0.0005	<0.0004	<0.0004

#### Analytical References:

"Standard Methods for the Examination of Water and Wastewater," 14th edition, 1975.

"Methods for the Evaluation of Water and Wastewater", EPA-600/4-79-020, U.S. EPA, Environmental Monitoring and Support Laboratory, Cincinnati, OH 45268

Supervising Analyst Date:

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#### LABORATORY REPORT

#### FOR

#### Town of Marilla Landfill

					• •		
Job No .:	U-0821						
Sample Date:	10/24/84	•	·	Sampled	i By: a	₽, E	
Date Received:	10/24/84			Deliver	ed By: E	E & E	
Sample Type:	water Grabs				·		
E & E Lab Mumber	84 5543	5444	5445	5446	5447	5448	5449
Sample Identity	Well #1	L Well #2	We11 #3	Well 34	Well #5	North Stream	South Stream
Chloride, ag/L	1580	480	100	53 -	28	365	110
Specific Conductan umhos/cm	ice, 4500	1690	450	<b>600</b>	<b>27</b> 0	1200	600
рН, S.U.	_6.17	6.10	5.75	5.62	5.26	5.72	7.40
Total Grganic Carb mg/L	oon, <u>1</u> 5	42	22	. 23	17	28	36
Total Dissolved So mg/L	olics, 3750	1100	352	556	240	1050	460
Phenol, mg/L	<0.005	0.034	<0.005	K0.005	<0.005	<0.005	<0.005
Iron, mg/L	6.57	138	44.0	44.8	89.8	38.0	33.2
Manganese, mg/L	2.52	14.3	0.542	0.956	1.08	2.83	1.84
Barium, mg/L	5.06	0.685	0.402	0.242	0.258	0.329	0.271

#### Analytical References:

"Mathods for the Evaluation of Water and Wastewater", EPA-500/4-79-020, U.S. EPA, "Environmental Monitoring and Support Laboratory, Cincinnati, CH 45258.

Supervising Analyst Date: 036129

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#### LABORATORY REPORT

#### FOR

#### TOWN OF MARILLA LANDFILL

Job No.: U	-1046				-			
Sample Date: 1	2/20/84		Sample	d By:	E & E			
Date Received: 1	2/20/84	,	Delive	red By:	<b>E</b> _& E			
Sample Type: W	ater Grab						: 	
E & E Lab Number	84-	6826	6827	6828	6829	6830	6831	6832
Sample Identity	÷ ;	Well 1	- Well -	Well 3	Well 4	Well -5	North Stream	Sout Stre
Chloride, mg/L		780	510	2.0	25	36	50	20
Specific Conducta	nce, umhos/cm	4000	1600	360	530	290	300	260
pH, S.U.		6.78	5.93	7.04	7.11	5.98	7.24	7.30
Total Dissolved Se	olids, mg/L	3300	1200	260	370	200	220	230
Total Organic Carl	bon, mg/L	150	220	82	94	. 50	16	21
Phenol, mg/L 👘	<u> </u>	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0
Barium, mg/L		5.73	0.66	0.37	0.20	<0.20	<0.20	<0.2
Iron, mg/L		6.28	117	104	6.70	0.076	0.838	0.87
Manganese, mg/L		2.98	18.2	1.70	0.132	<0.050	0.216	0.58

#### Analytical References:

"Methods for the Evaluation of Water and Wastewater", EPA-600/4-79-020, U.S. EPA, Environmental Monitoring and Support Laboratory, Cincinnati, OH 45268.

Supervising Analyst Date:



ANALYTICAL SERVICES CENTER, P.O. BOX D, BUFFALO, NEW YORK 14225, TEL. 716-631-0360 International Specialists in the Environmental Sciences

May 22, 1985

Mr. Nick Pinto Tallamy, Van Kuren, Gertis and Associates, Inc. 70 Linwood Avenue Orchard Park, New York 14127

Dear Mr. Pinto:

Attached is the laboratory report of the analysis conducted on seven samples received at the Analytical Services Center on April 25, 1985. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

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Very truly yours,

Sary Habink

Gary Hahn, Manager Analytical Services Center

GH/cp enclosure

cc: Town of Marilla via Fred McKosky

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MAY 31 1985 TALLAMY, VAN KUREN, GERTIS & ASSOCIATES

International Specialists in the Environment

#### FOR

Town of Marilla

Job No.:	U-1632								
Sample Date:	4/25/85			Sample	ed By:	Ε&	E, Ir	nc.	
Date Received:	4/25/85			Delive	red By	/: E&	E, In	ic.	
Sample Type:	Water Grab								
E & E Lab Number 85	-	2725	2726	2727	2728	2729	2730	2731	
Sample Identity	_	Well #D	Well #2	Well #3	Well #4	Well #5	East Ditch	North Ditch	
pH, S.U.		6.86	6.20	7.32	7.66	6.34	6.95	7.25	
Specific Conductance	,umhos/cm	2400	1100	360	280	230	460 [°]	° <b>4</b> 80 ↔	·· · · · ·
Total Dissolved Soli	ds, mg/L	3300	900	190	130	120	300	350	
Chloride, mg/L		1500	360	2	8	19	70	140	
Total Organic Carbon	, mg/L	23	36	11	8	9	7	14	

#### Analytical References:

"Methods for the Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.



ANALYTICAL SERVICES CENTER, P.O. BOX D, BUFFALO, NEW YORK 14225, TEL. 716-631-0360 International Specialists in the Environmental Sciences

July 29, 1985

Mr. Nick Pinto Tallamy, Van Kuren, Gertis and Assoc. 70 Linwood Avenue Orchard Park, New York 14127

Dear Mr. Pinto:

Attached is the laboratory report of the analysis conducted on two samples received at the Analytical Services Center on June 21, 1985. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

Very truly yours,

Gary Hann, Manager Analytical Services Center

GH/cp enclosure

cc: Mr. John Foss

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International Specialists in the Environment

#### LABORATORY REPORT

FOR

Iown of Marilla

Job No.:	U-1945				
Sample Date:	6/21/85		Sampled By:	E & E, Inc.	
Date Received:	6/21/85		Delivered By:	E & E, Inc.	
Sample Type:	Water Grab				
E & E Lab Number	r 85	4139		4140	
Customer Number		North Dit	tch _	East Ditch	
		all results	in mg/L unless	otherwise note	d
Biochemical Oxy	gen Demand	* <2	y i server e se	<2	
Chemical Oxygen	Demand	66		62	
Total Dissolved	Solids	560		40,0	
Specific Conduct	tance, umhos/c	.m 770		580	
Iron, mg/L		1.77		0.494	
pH, S.U.	-	7.46		7.99	

#### Analytical References:

"Methods for the Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

Supervising Analyst Date:

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ANALYTICAL SERVICES CENTER, P.O. BOX D, BUFFALO, NEW YORK 14225, TEL. 716-631-0360 International Specialists in the Environmental Sciences

August 16, 1985

Mr. Nick Pinto Tallamy, Van Kuren, Gertis and Assoc. 70 Linwood Avenue Orchard Park, New York 14127

Dear Mr. Pinto:

Attached is the laboratory report of the analysis conducted on five samples received at the Analytical Services Center on August 6, 1985. Analysis was performed according to the procedures set forth in "Methods for the Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

Very truly yours,

Sary Harn 1400

Gary Hahn/Manager Analytical Services Center

GH/cp. enclosure

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#### LABORATORY REPORT

#### FOR



Job No.:	U-2161					
Sample Date:	8/6/85		Sampled	By:	E & E, Inc	2.
Date Received:	8/6/85		Deliver	ed By:	E & E, Ind	2.
Sample Type:	Water Grab					
E & E Lab Number 85		5161	5162	5163	5164	5165
Customer Number		Well#1	Well 😰 I	Well #3	Well #4	Well 銽
Total Organic Carbon	, mg/L	44	.85	30	30	68
pH, S.U.	• •	6.82	6.24	7.32	7.09	6.05
Chloride, mg/L		1800	430	11	30	24
Specific Conductance	, umhos/cm	5800	1600	430	630	250
Total Dissolved Soli	ds, mg/L	4700	1300	280	450	150

Analytical References:

"Methods for the Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983.

Supervising Analyst august Date:

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## REF. 3

#### ES AND D&M SITE INSPECTION

Observations made during the ES and D&M Site Inspections are provided on US EPA Forms 2070-12 and 2070-13. Field notes were used to complete these EPA Forms, and are not included herein.

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## Protection of Environment

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PARTS 190 TO 399 Revised as of July 1, 1983



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Date:	•
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#### Chapter I—Environmental Protection Agency

#### 3.0 Ground Water Migration Route

3.1 Observed Release. If there is direct evidence of release of a substance of conærn from a facility to ground water, enter a score of 45 on line 1 of the work sheet for the ground water route (Figure 2); then you need not evaluate route characteristics and containment factors (lines 2 and 3). Direct evidence of release must be analytical. If a contaminant is measured (regardless of frequency) in ground water or in a well in the vicinity of the facility at a significantly (in terms of demonstrating that a release has occurred, not in terms of potential effects) higher level than the background level, then quantitative evidence exists, and a reease has been observed. Qualitative evisence of release (e.g., an oily or otherwise objectionable taste or smell in well water) constitutes direct evidence only if it can be confirmed that it results from a release at the facility in question. If a release has been observed, proceed to "3.4 Waste Characterishes" to continue scoring. If direct evidence a lacking, enter a value of 0 on line 1 and continue the scoring procedure by evaluating Route Characteristics. 3.3 Route Characteristics. Depth

3.2 Route Characteristics. Depth to equifer of concern is measured vertically from the lowest point of the hazardous subfunces to the highest seasonal level of the murated zone of the aquifer of concern Figure 3). This factor is one indicator of the ease with which a pollutant from the fafillity could migrate to ground water. Assign value as follows:

i) e	oth

Distance (feet)	Assigned value
1:0	
<b>36</b> to 150	
1 to 75	
b 20	3

Net precipitation (precipitation minus nporation) indicates the potential for leatate generation at the facility. Net seasontrainfall (seasonal rainfall minus seasonal nporation) data may be used if available. Inet precipitation is not measured in the mion in which the facility is located, calcute it by subtracting the mean annual lake

#### Part 300, App. A

evaporation for the region (obtained from Figure 4) from the normal annual precipitation for the region (obtained from Figure 5). EPA Regional Offices will have maps for areas outside the continental U.S. Assign a value as follows:

Net precipitation (inches)	Assigned value
< - 10	0
- 10 to +5	1
+5 to +15	2
> +15	3

Perimeability of unsaturated zone (or intervening geological formations) is an indicator of the speed at which a contaminant could migrate from a facility. Assign a value from Table 2.

#### TABLE 2—PERMEABILITY OF GEOLOGIC MATERIALS¹

Type of material	Approximate range of hydraulic conductivity	As- signed value
Clay, compact till, shale; unfractured metamorphic and inneous rocks	<10 ⁻⁷ cm/sec	0
Silt, loess, silty clays, silty loams, clay loams; less permeable limestone, dolomites, and sand- stone; moderately per- meable till	<10 ⁻⁵ >10 ⁻⁷ cm/ sec.	1
Fine sand and silty sand; sandy loams; loamy sands; moderately per- meable limestone, dolo- mites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till.	<10 ⁻³ >10 ⁻⁶ cm/ scc.	2
Gravel, sand; highly frac- tured igneous and meta- morphic rocks; perme- able basalt and lavas; karst limestone and do- lomite.	>10 ⁻³ cm/sec	3

¹ Derived from: Davis, S. N., *Porosity and Permeability of Natural Materials in Flow-Through Porous Media*, R.J.M. DeWest ed., Academic Press, New York, 1969; Freeze, R.A. and J.A. Cherry, *Groundwater*, Prentice-Hall, Inc., New York, 1979.

#### NYS WETLANDS MAPS

REF. 5

NYS Wetlands Maps were reviewed during the Phase I investigation. Individual maps for each site were not obtained and are, therefore, not included in the Phase I reports. Site specific information collected concerning the location of a wetland within 1 mile of a given site is recorded in the documentation section of each report.

#### INTERVIEW FORM

INTERVIEWEE/CODE Mike McMurry /
TITLE - POSITIONEnvironmental Analyst
ADDRESS 600 Delaware Ave.
CITY Buffalo STATE NY ZIP 14202
PHONE (716) 847-4551 RESIDENCE PERIOD TO
LOCATION DEC Regulatory Affairs Buffalo INTERVIEWER NYE - DIM
DATE/TIME 1/3/86 /
SUBJECT: Wetlands & Flood info - Region 9
REMARKS: Met with Mike who gave me access to both Welland and Floodway maps for the local region
Also left site locations for the identification of Wildlife Critical
Habitat & National Wildlife Refuges
·
NYS Wetland Maps
NYS Wetlands Maps were reviewed during the Phase I investigation. Individual
maps for each site were not obtained and are, therefore, not included in the Phase
I reports. Site specific information collected concerning the location of a wet-
land within 1 mile of a given site is recorded in the documentation section of
each report.
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE:
COMMENTS:

REF. 5

# REF. 5

INTERVIEW FORM MC MURRY Mc Murry INTERVIEWEE/CODE <u>MIKE MALAURR</u> TITLE - POSITION <u>ENVIRONMENTAL</u> <u>ANALYST</u> ADDRESS <u>600 deleware</u> <u>Ave</u> CITY <u>Buffel</u> . <u>STATE N.Y.</u> <u>ZIP /4202</u> PHONE <u>(716) 640-215 847-4551</u> <u>RESIDENCE PERIOD</u> <u>TO</u> LOCATION <u>DEC REGULATORY AFFAIRS</u> INTERVIEWER <u>ERIC NYE - DIM</u> DATE/TIME <u>1/3/86</u> <u>/</u> <u>BUFFALO</u> SUBJECT: <u>METLANTS &amp; FLOOD INFO- REGUON 9</u>
MC MUTTY Mc Murry INTERVIEWEE/CODE <u>MIKE MALAURRY</u> TITLE - POSITION <u>ENVIRONMENTAL</u> <u>ANALYST</u> ADDRESS <u>600 dalaware</u> <u>Ave</u> CITY <u>Biffel</u> . <u>STATE N.Y.</u> <u>ZIP 14202</u> PHONE <u>(716) 640 - 275 847 - 4551</u> . <u>RESIDENCE PERIOD</u> <u>TO</u> LOCATION <u>DEC REGULATORY AFFAIRS</u> INTERVIEWER <u>ERIC NYÉ - D'M</u> DATE/TIME <u>1/3/86</u> <u>/</u> <u>BUFFALO</u> SUBJECT: <u>WETCHINS &amp; FLOOD INFO- REGUON 9</u>
INTERVIEWEE/CODE <u>MIKE MALAURR</u> TITLE - POSITION <u>ENVIRONMENTAL</u> <u>AMALYST</u> ADDRESS <u>600 delaware</u> <u>Ave</u> CITY <u>Buffel</u> . <u>STATE N.Y.</u> <u>ZIP /4202</u> PHONE <u>(716) 640 - 275 B47-4551</u> . <u>RESIDENCE PERIOD</u> <u>TO</u> LOCATION: <u>DEC <u>REGULATORY</u> <u>AFFAIRS</u> <u>INTERVIEWER</u> <u>EQUE NYE - D:M</u> DATE/TIME <u>1/3/86</u> <u>/</u> <u>BuffAlo</u> SUBJECT: <u>METLANTSS &amp; FLOOD</u> INFO- <u>REGUON 9</u></u>
TITLE - POSITION <u>ENVIRONMENTAL</u> <u>ANALYST</u> ADDRESS <u>600 Jalaware</u> <u>Ave</u> CITY <u>Buffel</u> . <u>STATE N.Y.</u> <u>ZIP 14202</u> PHONE <u>(716) 640-275 B47-4551</u> . <u>RESIDENCE PERIOD</u> <u>TO</u> LOCATION <u>DEC REGULATORY AFFAIRS</u> INTERVIEWER <u>ERIC NYÉ - D'M</u> DATE/TIME <u>1/3/86</u> <u>/</u> <u>BuffALO</u> SUBJECT: <u>MÉTRATOS &amp; FROOD INFO- REGION 9</u>
ADDRESS 600 Dalaware Ave CITY Buffel. STATE N.Y. ZIP 14202 PHONE (716) 640-215 847-4551 RESIDENCE PERIOD TO LOCATION DEC REGULATORY AFFAIRS INTERVIEWER ERIC NYE - DIM DATE/TIME 1/3/86 / BUFFALO SUBJECT: WETLANDS & FLOOD INFO- REGION 9
CITY <u>B_ff.(.</u> <u>STATE N.Y.</u> <u>ZIP 14202</u> PHONE <u>(716) 640 - 275 847-4551</u> <u>RESIDENCE PERIOD</u> <u>TO</u> LOCATION <u>DEC REGULATORY AFFAIRS INTERVIEWER ERIC NYE - D:M</u> DATE/TIME <u>1/3/86</u> <u>/ BUFFALO</u> SUBJECT: <u>METLANDS &amp; FLOOD INFO - REGION 9</u>
PHONE (716) 640-215 847-455/ RESIDENCE PERIOD TO LOCATION DEC REGULATORY AFFAIRS INTERVIEWER ERIC NYE - DIM DATE/TIME 1/3/86 / BUFFALO SUBJECT: METLANTOS & FLOOD INFO- REGION 9
LOCATION DEC REGULATORY AFFAIRS, INTERVIEWER ERIC NYE - DIM DATE/TIME 1/3/86 / BUFFALO SUBJECT: METLANDS & FLOOD INFO - REGION 9
DATE/TIME 1/3/96 / BUFFALO SUBJECT: WETLANDS & FLOOD INFO- REGION 9
SUBJECT: WETLANDS & FLOOD INFO- REGION 9
REMARKS: MET WITH MIKE WITH LANG ME ALLESS TO BOTH WETLAND
AND FLOODIWAY MAPS FOR THE LOCAL REGION / MAN
* ALSO LEFT SITE LOCATIONS FOR THE IDENTIFICATION OF WILDLIFE
CRITICAL HABITAT & WILDLIFE REFUGES
٠
I agree with the above interview summary.
Signature/Title: Michael 1 M. Mussus Environmental Analyst
Comments:

#### 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: 915093
NAME OF SITE : Town of Marilla STREET ALURESS: Eastwood Road TOWN/CITY: Marilla	COUNTY: Erie		ZIP:
SITE TYPE: Open Dump- Structur ESTIMATED SIZE: 41 Acres	e- Lagoon-	Landfill-X	Treatment Fond-
SITE OWNER/OPERATOR INFORMATION CURRENT OWNER NAME: Town of CURRENT OWNER ADDRESS.: 1740 Tw OWNER(S) DURING USE: Town of OPERATOR DURING USE: Town of OPERATOR ADDRESS: 1740 Tw FERIOD ASSOCIATED WITH HAZARDOL	l: Marilla Marilla Marilla Marilla Marilla Marilla Marilla	lla, NY Marilla, NY m	То

#### SITE DESCRIPTION:

Site accepts municipal and commercial wastes from town residents.

HAZARDOUS	WASTE DISPOSED:	Confirmed-	Suspected	-x
ہ سے جنہ بند بند جم برد برے ہے جے جے	IYE'E	محمد المحد الملتة المرت حرين وترب المرب المرب المرب ورب المرب	علله فحله وجرو ووقة وتكل وجرو وارد وعله فلك فجرو وورو وورو	QUANTITY_(units)
Ala an Indonesia	-			
(

#### ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE...: State- Federal-STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed- Under Design- In Progress- Completed-NATURE OF ACTION:

GEOTECHNICAL INFORMATION: SOIL TYPE: Unknown GROUNDWATER DEPTH: Unknown

#### ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

No apparent environmenal problems.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient information

#### PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME.: John S. Tygert, F.E. TITLE: Sr. Sanitary Eng.

NAME.: Roberto Olazagasti TITLE: Solid Waste Managemen t Spec.

DATE .: 01/24/85

NEW YORK STATE DEPARTMENT OF HEALTH

NAME.: Ronald Tramontano TITLE: Bur. Tox. Stust. Assess.

NAME.: TITLE:

DATE .: 01/24/85

Fage 9 - 286



REF

THE ANAGARA COUNTIES



#### ERIE COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Muniq	cipal Community		
1234567	Akron Village (See No 1 Myoming ( Page 10) Alden Village	Co, 	Wells Lake Erie Lake Erie Wells Wells Wells

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a	(Sturgeon Point Intake) 375000Lake Erie Erie County Water Authority	
`ب ا	(Van DeWater Intake),	Branch
10	Holland Water District	
12	Lawtons water Company,	Branch
13 14	Niagara County Water District (Niagara Co) Niagara River - West Niagara falls City (Niagara Co)	Branch
15	North Collins Village 1500 Weils	Branch
17	Orchard Park Village	Branch,
18 19	Springville Village	Beanab
20 21	Tonawanda Water District #1	orancii
-		

#### Non-Municipal Community

22	Aurora Mobile Park,
23	Bush Gardens Mobile Home Park
24	Circle B Trailer Court
25	Circle Court Mobile Park
26	Creekside Mobile Home Park
27	Donnelly's Mobile Home Court. 99 Wells
28	Gowanda State Hospital.
29	Hillside Estates. 160 Wells
30	Hunters Creek Mobile Home Park 150 Wells
31	Knox Apartments
32	Maple Grove Trailer Court. 72 Vells
33	Millerove Mobile Park 100 Velle
34	Perkins Trailer Park 75 Volle
35	Quarry Hill Estates
36	Socionyille Mobile Park
37	Springund Mobile Villago
36	Taylors Grove Trailer Park
30	Valley View Mobile Couch
39	Villagon Acontectore
40	VIIIOUEL ADULTMENTS

#### NIAGARA COUNTY

#### ID NO COMMUNITY WATER SYSTEM POPULATION SOURCE

Municipal Community

- · · .

#### Non-Municipal Community



. '

REF. 8

#### TOWN OF MARILLA NEW YORK SANITARY LANDFILL

ENGINEER'S REPORT AND PLAN OF OPERATION

> -February, 1982

Prepared by:

dame.

ALC: NO

1

in the second

Tallamy, Van Kuren, Gertis and Associates 70 Linwood Avenue Orchard Park, New York 14127

810406-1B

#### 1.0 AUTHORIZATION

The firm of Tallamy, Van Kuren, Gertis and Associates was authorized on December 30, 1981 to prepare an engineering and operations report for the Town of Marilla Sanitary Landfill. This report is the culmination of that authorization.

#### 2.0 SCOPE

This report will provide information on the existing condition and operating procedures of the landfill site and site area. This report will also provide an analysis of the proposed project design so that operations may continue on the existing site. This analysis will include projected waste generation rates and cover requirements, the estimated life of the facility, the recommended operation plan, a contingency plan for the control of undesirable conditions, and final closure plans. Accompanying this report will be those maps, site plans, and detail plans which the New York State Department of Environmental Conservation requires for obtaining a Landfill Operating Permit.

#### 3.0 EXISTING SITUATION

#### 3.1 Background

The landfill is owned and operated by the Town of Marilla, solely for the use of Town residents. There is no commercial dumping at the facility, as Town residents are responsible for transporting their own refuse to the working face area of the landfill. The only waste allowed on the site is residential debris and refuse. No hazardous, toxic, or liquid wastes are accepted at the site.

#### 3.2 Site Analysis

#### 3.2.1 Location ---

As can be seen from Exhibits 1 and 2, the existing Town of Marilla Landfill and Park area are located between Three Rod Road and Eastwood Road in the Town of Marilla, Erie County, New York. The landfill site is approximately 1.1 miles from the nearest population center, the ______ Popul. which in Hamlet of Williston, and is estimated to be 3.1 miles from the larger Town report also population centers of the Hamlet of Marilla and the Hamlet of Porterville. Used to predic Access to the landfill site is from Eastwood Road which is designated as a Lawdfill medium duty road. There are no airparks or railway systems near the landfill expansion. site or in the Town of Marilla.

#### 3.2.2 Topography --

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As can be seen from the topographical map displayed in Exhibit 2, the landfill site is located in a kame and kettle area which has been cut by drainage channels sloping northward to a small stream.

3.2.3 Sub-Surface Conditions* ---

The geology of the Town of Marilla Landfill and surrounding area is largely composed of stratified shaly sand and gravel, covered by a layer of dense silty glacial till over a predominantly shale bedrock.

As displayed on the U.S.D.A. soils map of the landfill and surrounding area, Exhibit 3, the dominant soils underlying and immediately adjacent to the actual site are as follows: Howard Gravelly Loam (20E), Palmyra Gravelly Loam (13B), Darien Silt Loam (72B), Hornell Silt Loams (82-C and 82-D), and Manlius Shaly Silt Loam (86C).

The Howard Gravelly Loams are generally deep, well drained soils, that have a moderately coarse textured, gravelly subsoil. They were formed in glacial outwash deposits, which are mainly composed of a mixture of limestone and sandstone gravel, however, shale may also be dominant in some areas. These soils are nearly level to gently sloping where they are found on outwash terraces, and are rolling to steep in Kettle and Kame areas. The bedrock underlying the Howard Gravelly Loam soils is generally found at depths greater than 6 feet. A perched water table may rise to a depth of 3.5 feet below the ground surface during the wet seasons of the year. The permeability of these soils is generally greater than 0.63 in./hr. and the ph is usually found to be greater than or equal to 5.1.

Palmyra Gravelly Loams are in general deep, well drained, medium textured, gravelly soils that were formed in outwash deposits of sand and gravel. These soils are usually found on nearly level to gently sloping areas. The underlying bedrock may be found at depths greater than 6 feet, and a seasonally high perched water table may rise to within 3.5 feet of the ground surface. The Palmyra Gravelly Loam soils generally have a permeability of greater than .63 in./hr. with a ph of 6.0 or greater.

Darien Silt Loam soils are deep, somewhat poorly drained soils, that have a moderately fine textured subsoil. These soils were formed in glacial till derived primarily from soft shales. They are nearly level to moderately sloping soils and are found on uplands. The bedrock underlying the Darien Silt Loam soil may be found at depths of 3.5 feet or greater. A seasonally high perched water table may rise to 0.5-1.5 feet of ground surface. The permeability of these soils is approximately 0.63 in./hr. with a ph of 5.5 or greater.

-2-

*Information obtained from the U.S.D.A.

The Hornell Silt Loam soils are moderately deep, somewhat poorly drained to moderately well drained, medium textured soils that have a moderately fine textured subsoil. They were formed in acidic glacial till derived mainly from soft clayey shales. These soils are nearly level to steep and have a permeability equal to or less than .63 in./hr. and a ph of 4.5 to 5.5. The depth to bedrock is generally found to be 1.5 to 3.5 feet and a seasonally high perched groundwater table may rise to within 0.5-1.5 feet of the ground surface.

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Manlius Shaly Silt Loam is a moderately deep, well drained, medium textured soil that was formed in acidic glacial till, derived mainly from black brittle shale. These soils are nearly level to steep and have a permeability of 0.63 in./hr. to 2.0 in./hr. with a ph of 4.5 to 5.5. The bedrock underlying the Manlius Shaly Silt Loam soil may be found at depths of 1.5 feet to 3.5 feet. A seasonally high perched water table may rise to 2 feet below the ground surface.

3.2.4 Site Description --

The Town of Marilla Sanitary Landfill lies on approximately 40 acres of primarily open fields owned by the Town. The actual landfill site consists of approximately 10 acres, of which, only about 7 have been used to date. The existing topography and layout of the site are displayed in Exhibit 4. As can be seen from this exhibit, access to the actual landfill area is from Eastwood Road via a small gravel access road.

The climate of the Town of Marilla, along with that of - the extine members portion of New York State, is varied and changeable, characteristic of the latitude. Large seasonal changes in temperature are moderated by the close proximity of Lakes Erie and Ontario. Lake Erie lies to the southwest, the direction of the prevailing winds, while Lake Ontario lies to the north. Wind flow is often very high due to the closeness of these lakes. The interaction of warm and cold air masses during the winter and spring may cause one or more severe storms. Precipitation is moderate and fairly evenly distributed throughout the year. The summers are pleasantly warm, lake breezes temper the extreme heat of the summer season. Maximum daytime temperatures rarely exceed 90 degrees. Due to the stabilizing effect of the lakes, thunderstorms are infrequent, and most are caused by frontal action. Winters in western New York usually arrive in late November or early December. Throughout the winter months, arctic air masses move across the lakes producing locally heavy snowfalls. However, rarely do these polar air masses cross the lakes without considerable warming. Temperatures of well below zero over Canada and the midwest are raised 10° to 30° in crossing the Great Lakes.

The forms of wildlife found near the landfill site, and in the Town of Marilla in general, are those that can adopt to the combination of woodland and agricutural land in the proximity of human habitation. Because of this rural setting, the Town of Marilla may attract such large species as deer, fox, etc., however, the wildlife predominantly found

-3-

on and around the landfill site are various small animal species such as rabbits, squirrels, field mice, wood rats, woodchucks, frogs, toads, snakes, and various bird species including grouse and pheasant. Vegetation around the landfill consists primarily of various hard and soft wood trees, and field grasses and shrubs.

The land uses surrounding the actual site are as follows: to the east is a large open field predominantly owned by the Town, to the immediate east is a row of relatively large trees which acts as a natural wind row, to the south is a privately owned farm field which is separated from the landfill by a fiarly large surface and groundwater diversion ditch, immediately west of the landfill site is a dense patch of trees beyond of which the grassed area of the Marilla Town Park is located, to the north of the site lies a relatively dense grove of trees and beyond a small stream.

The major surface water feature near the landfill is the small westerly flowing stream, mentioned above, which is tributary to Little Buffalo Creek, and is located approximately 600 feet from the existing site. The drainage channels cut immediately east and west of the existing site, and throughout the adjacent areas, flow northward into this stream. The seasonally high perched groundwater table found in the soils on and adjacent to the landfill site may, during very wet periods of the year, come to within 0.5 feet of the ground surface, as described in Section 3.2.3. From actual groundwater monitoring, described in detail in a later section, it appears as though the perched groundwater table flows in a northwesterly direction and contributes to the surface water flow at a drainage channel located immediately north of the existing landfill site.

There are no utilities on the landfill site except for electricity and there are no F.I.A. designated flood prone areas in the land-fill area.

#### 3.3 Operation

3.3.1 Personnel --

The Town of Marilla Sanitary Landfill is operated by the Town Highway Department. During the hours of operation, two Highway Department employees are present at the landfill. One operator is responsible for the working face and completed areas. This includes the spreading and compacting of refuse and daily cover material on the work face, the excavating and hauling of daily cover to the work face, and the excavating, hauling and compacting of final cover over previously filled areas. The other operator is responsible for inspecting and directing incoming vehicles. The Highway Department is responsible for general maintenance of the landfill area. This includes access road care, drainage ditch maintenance, etc.

#### 3.3.2 Facilities ---

The existing operational facilities found on the landfill site consist of an aluminum 50 foot x 25 foot maintenance and storage building, used for housing and performing maintenance on the landfill's heavy equipment. This building is also a shelter for the operators, as a heated office room is provided. As shown on Exhibit 4, the control benchmark, which consists of a railroad spike whose top surface elevation is set at 1135.95, is set in a door post of the storage building.

There is no potable water or sanitary facilities serving the landfill site, however, the operators do have access to the facilities at the adjacent Town Park.

The heavy equipment presently used for operating the landfill consists of a Caterpillar D6 tracked dozer, used for spreading and compacting refuse and cover material, and an A66 Ford rubber-tired front end loader, which is used for excavating and transporting cover material, and for general site maintenance such as repairs to the access road, drainage ditch cleaning, snow removal, etc.

Although no telephone communications exist on the landfill site, the operators are equipped with a portable two way radio which is used as regular equipment with the Highway Department's radio system. The system is continuously monitored during the landfill's operating hours so as to provide immediate communication between the operators and any emergency help if the situation arises.

At the present time, there are two resource recovery stations at the landfill site. Paper wastes are deposited in an enclosed trailer by Town residents as they enter the site. The monies derived from salvaging the paper wastes are donated to a local charity. Besides being a great benefit to the charities, this system has greatly lessened the problem of blowing papers, since the collection station is an enclosed trailer. The other resource that is recovered is metallic waste (i.e. washers, dryers, etc.) These are deposited by the operators or town residents in a separate scrap pile, and as soon as enough metal scrap is present to fill a dump truck, it is transported to a local scrap dealer. Monies raised from this operation serve to help offset the cost of operating the landfill.

3.3.3 Facility Control --

The landfill is operated on <u>Saturdays</u> between the hours of 8:00 A.M. and 4:00 P.M. Access to the disposal site may be gained only by those Town of Marilla residents who have purchased a disposal permit from the Town Clerk. An operator at the landfill checks each vehicle for a permit as it enters the site.

#### 4.2 Site Analysis

#### 4.2.1 Ground and Surface Water Monitoring --

For the purposes of collecting groundwater samples to analyze the required groundwater parameters and to monitor the groundwater elevations, five monitoring wells were constructed at the locations shown on Exhibit 4. A typical cross section of the monitoring wells is displayed on Exhibit 5. The placement of four of the groundwater wells (wells 2-5) was decided on the basis of being able to monitor the perched water table upstream and downstream of the landfill. These wells were installed to the top of the bedrock. The fifth well (well number 1) was installed as a deep well into the bedrock. The basis used for the placement of this well was to monitor the deep groundwater after it has passed under the existing landfill.

The water level in the wells was measured on 8/28/81, 8/31/81, and 11/16/81. The results are displayed in Table 2.

#### Table 2.

Groundwater Elevations

		۲. ;		
	Well	Ground	Water Depth Below	Water
Date	No.	Elevation	Ground Surface	Elevation
8/28/81	1	1062.6	/ 18.4 ft.	1044.2
8/28/81	2	1099.0	8.5 ft.	1090.5
8/28/81	· 3	1109.0	3.3 ft.	1106.6
0120101	4	1132.7	7.3 ft.	1125.4 .
8/28/81	5	1119.0	5.3 ft.	1113.7
8/31/81	1	1062.6	[18.3]ft.	1044.3
8/31/81	2	1099.0	7.8 ft.	1091.2
8/31/81	3	1109.0	4.4 ft.	1105.5
8/31/81	4	1132.7	7.2 ft.	1125.5
8/31/81	5	1119.0	5.7 ft.	1113.7
			· · · · · · · · · · · · · · · · · · ·	
11/16/81	1	1062.6	17.3 (ft.	1045.3
11/16/81	2	1099.0	6.8 ft.	1092.2
11/16/81	3	1109.0	4.0 ft.	1105.9
11/16/81	4	1132.7	5.7 ft.	1127.0
11/16/81	5	1119.0	3.3 ft.	1115.7

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September 14, 1981

Page Two

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GROUND WATER MONITORING STUDY TALLAMY, VAN KUREN, GERTIS & ASSOCIATES

الجارية، المعرب إلى المنافقة المحالية وإلى مسالم المراجع التي

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х. Х	2/2/22-	9 dice	TABLE I		J/250	<u>1</u> .	
Parameter Log Number	Well (#1) 502	Well #2	Well #3 504	<u>Well #4</u> 505	<u>Well #5</u> 506	Stream 507	NYS Limits Class GA
Total Alkalinity as CaCO3, mg/l	127.6	61.2	229.2	169.4	148.3	994.	NL
Biochemical Oxygen Demand, mg/l	62.	220.	5 <b>.4</b>	28.8	6.1	652.	NL
Chemical Oxygen Demand, mg/l	138.	437.	10.2	61.2	8.2	1285.	NL 250 mg/l
Chloride, mg/l	207.4	514.	13.5	27.9	184.	14//•	
Specific Conductance, umhos/cm	1055.	1858.	506.3	470.0	1496.	6922.	NL
Cyanide, mg/l	0.004	0.002	LT 0.001	LT _i 0.001	LT 0.001	0.657	0.2 mg/1
Ammonia Nitrogen, mg/l	0.46	0.009	0.014	0.007	0.037	3.83	NL
Total Kjeldahl Nitrogen, mg/l	1.21	0.247	0.450	1.52	14.4	10.9	NL
Nitrate-Nitrite, as N, mg/l	0.76	1.23	0.186	0.32	1.46	8.02	10.0 mg/1
Phenols, mg/l	0.007	0.016	0.011	0.003	0.004	0.003	0.001 mg,
pH Units	7.71	6.69	7.78	7.69	7.53	7.38	6.5 - 8.5
Total Dissolved Solids, mg/l	720.	1654.	240.	258.	1072.	4684.	NL
Total Solids, mg/l	1700.	2795.	700.	1712.	1498.	5036.	NL
Total Organic Carbons, mg/l	63.	178.	4.0	35.	13.	500.	NL
* Nitrate only			•				
LT = Less Than				1	Other days and 1		(09)

ومحاصبه والمناطو ولارتها والمردر والأروم ممحا المراجع وروميته ومحاج المراجع ممحور والمراجع مراجع والمراري والم

. . . . . . . . . . . .

NL = Not Listed

Termini Associat

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(NYS Ground Water Classifications - Quality Standards and Effluent Standards and/or Limitations (Title 6, Official Compilation of Codes, Rules and Regulations, Part 703)

September 14, 1981

Page Three

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GROUND WATER MONITORING STUDY TALLAMY, VAN KUREN, GERTIS & ASSOCIATES

TABLE I

(Continued)

Parameter Log Number	Wel 5	<u>1 #1</u> 02	Wel	11 #2 503	<u>Wel</u> 5	<u>1 #3</u> 04	<u>Wel</u> 5	<u>1 #4</u> 005	Wel 5	1 #5 06	Str	eam 507	NYS Li Class	mits GA
		1 73		4.13		6.61		8.91		1.20		2.45	NI	
Aluminum, mg/1		1.15		0.007		0.004		0.020		0.012	$\mathbf{LT}$	0.001	0.025	5 mg/
Arsenic, mg/l .		0.002	•		Μ	000010	<u>ک</u> .	1.70.2		0.471		0.105	1.0	mg/l
Barium, mg/l		0.134		1.73	5	(1.000)	ł	0.005		0.002		0.006	0.01	mg/l
Cadmium, mg/l		0.002		0.006		0.002		0.005		0.002	τm	0 001	0.05	mq/l
Chromium, mg/l		0.002		0.007		0.002		0.015	LL	0.001		0.001	1 0	
Copper mg/l		0.016		0.044		0.006		0.028		0.005	$\Gamma L$	0.001	1.0	mg/ 1
		2.37		5.71		2.01		6.85		2.75		55.5	0.3	mg/l
iron, my/i		0.006		0.007		0.008		0.008		0.002		0.001	0.02	5 mg,
Lead, mg/l		0.000	•	11 09		to.78		11.98		10.77		12.35	N	L
Magnesium, mg/l		9.46		11.90		0.0002	TUP	0.0002	LT	0,0002	$\mathbf{LT}$	0.0002	0.00	2 mg,
Mercury, mg/1	LT	0.0002	LT	0.0002	LT	0.0002		0.0002	 T TT	0 001	·T.T	0.001	0.02	mg/
Selenium, mg/l	LT	0.001	LT	0.001	LT	0.001	LT	0.001	1.1	0.001		0.001	0.05	mal
stiver. mg/l	$\mathbf{LT}$	0.001	LT	0.001	LT	0.001	LT	0.001	LT	0.001	Т.Т.	0.001	0.05	mg/.
Zinc, mg/l	LT	0.001		(1.87)	)5	0.300)	LT	0.001	LT	0.001	LT	0.001	5	ma∖.
Polychlorinated Biphenyls, ug/l	LT	0.1	LT	0.1	LT	0.1	LT	0.1	LT	0.1	LT	0.1	0.1	.ug/

** Standard for Hexavalent Chromium

LT = Less Than

Termini Associates

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NL = Not Listed

(NYS Ground Water Classifications - Quality Standards and Effluent Standards and/or Limitations (Title 6, Official Compilation of Codes, Rules and Regulations, Part 703)

November 24, 1981

Page Two

GROUND WATER MONITORING STUDY TALLAMY, VAN KUREN, GERTIS & ASSOCIATES

			TABLE I			•	
, Parameter	Well #1	<u>Well #2</u> 684	<u>Well #3</u> 685	Well #4 686	Well #5 687	Stream 688	NYS Limits Class GA
Log Number	005	/	. •				NL
Total Alkalinity as CaCO3, mg/l	147.	42.	197.	203.	159.	810.	NL
Biochemical Oxygen Demand, mg/l	76.	241.	3.2	.38•	- 7	1468.	NL
Chemical Oxygen Demand, mg/l	150.	447 <b>.</b> 715	12.1 22.	82. 45.	139.	1603.	250 mg/l
Chlorides, mg/l Specific Conductance, unhos/cm	241. 1229.	2039.	611. LT 0.001	520. LT 0.001	1222. LT 0.001	7070. 0.44	NL 0.2 mg/l 10.0 mg/l
Cyanides, mg/l Nitrates, mg/l Nitrites, mg/l Phenols, mg/l	0.002 0.59 LT 0.01 0.003	0.81 LT 0.01 0.009	0.27 LT 0.01 0.019 7.41	0.18 LT 0.01 0.020 7.81	LT 0.01 0.006 7.77	LT 0.01 0.005 7.20	NL 0.001 mg, 6.5 - 8.
pH Units	7.39	, ,		274	1113.	5729.	NL
Total Dissolved Solids, mg/l	811.	1897.	<b>2</b> 5%•	2/4•	14	537.	NL
Total Organic Carbon, mg/l	62.	168.	13.	29.	74.		(a)

LT = Less Than

NL = Not Listed

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Termini Associates

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(NYS Ground Water Classification - Quality Standards and Effluent Standards and/or Limitations (Title 6, Official Compilation of Codes, Rules and Regulations, Part 703)

November 24, 1981 Page Three

GROUND WATER MONITORING STUDY TALLAMY, VAN KUREN, GERTIS & ASSOCIATES

## TABLE I

(Con	tinged)
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Parameter	Wel	1 #1	Well #2	<u>Well #3</u> 685	<u>Well #4</u> 686	<u>Wel</u>	<u>1 #5</u> 587	Str 6	eam 88	Class GA
Aluminum, mg/l Arsenic, mg/l Barium, mg/l Cadmium, mg/l Chromium, mg/l Copper, mg/l Iron, mg/l Lead, mg/l	LT	1.01 0.001 0.247 0.003 0.001 0.031 3.01 0.003 0.92	684 3.97 0.005 1.99 0.007 0.003 0.051 4.31 0.002 0.88	5.41 0.002 (1.17 0.004 0.001 0.009 1.51 0.003 0.97	6.27 0.012 1.39 0.006 0.027 0.013 4.77 0.005 1.11	LT	1.47 0.009 0.592 0.003 0.001 0.009 3.16 0.003 0.51	LT LT	1.98 0.001 0.211 0.008 0.002 0.005 37.9 0.001 4.09	NL 0.025 mg/l 1.0 mg/l 0.01 mg/l 0.05 mg/l 1.0 mg/ 0.3 mg/ 0.025 mg/ 0.3 mg/
Mandanese, my/ -									•	

LT = Less Than

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NL = Not Listed

(NYS Ground Water Classification - Quality Standards and Effluent Standards and/or Limitations (Title 6, Official Compilation of Codes, Rules and Regulations, Part 703)

 $(\hat{\boldsymbol{\omega}})$ 

#### US CENSUS DATA, 1980

REF. 9

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.

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Led on New York coordinate Systems 50.000 to --

## ERIE COULTY PLANNING DEPAL LENT

# 1280 CENSUS TELETS

Tract Boundaries Tract Boundaries Extending to the International Boundary Tradt Portion

Source: U.S. Ebreau of the Census, 1980. Prepared. Erie County Department of Environment and Pluoning, Division of Planning, October 1980

REF: 10

## GENERAL SOIL MAP and INTERPRETATIONS



Erie County Soil and Water Conservation District

EFIE COUNTY SOIL & WATER Conservation District 21 S. Grove Street East Aurora, N. Y. 14052



3. DARIEN, NEARLY LEVEL

## Deep, somewhat poorly drained, loamy soils, on lowland plains and upland fringe areas

This unit consists of nearly level to sloping soils on upland plateau fringe areas and on adjacent lowland plains in the central to southwestern part of the county. Slope ranges from 0 to 15 percent but is dominantly 0 to 3 percent.

This unit covers about 29,500 acres or 4.4 percent of the county. Darien soils make up 55 percent of the unit, and soils of minor extent make up the remaining 45 percent.

Darien soils formed in loamy, olive colored glacial till having a moderate to low amount of amount of shale fragments. The subsoil of these soils has a moderately high clay content. Darien soils are somewhat poorly drained and have a seasonal high water table perched in the upper part of the subsoil during the spring and other wet periods. Surface runoff is slow in lesser sloping areas. The rate of water movement (permeability) through the subsoil is moderately slow and in the substratum it is slow. In some areas these soils have a silty substratum that lacks shale fragments.

The important soils of minor extent are about equally divided between those of the Angola, Danley, Derby, Ilion, and Remsen series. Somewhat poorly drained Angola soils are in areas where shale bedrock is within 40 inches of the soil surface. Moderately well drained Danley soils are on higher knolls, and poorly drained Ilion soils are in depressions. Some areas include Derby soils that are similar to Darien soils but more acid, and a few areas of Remsen soils that have a higher clay content than Darien soils.

Most areas of this unit were originally cleared and used in farming. Some areas are still used for dairy farm operations; however, many fields are now idle. Seasonal wetness and erosion hazard on longer slopes are soil limitations for farm and many nonfarm uses.

- 6 -

#### 4. DERBY, GENTLY SLOPING

#### Deep, somewhat poorly drained, silty soils, on uplands

This unit consists of nearly level to sloping soils on plateau crests in upland areas in the south central and southwestern portions of the county. Slope ranges from 0 to 15 percent, but is dominantly 3 to 8 percent.

This unit covers about 21,500 acres or 3.2 percent of the county. Derby soils make up 80 percent of the unit, and soils of minor extent the remaining 20 percent.

Derby soils formed in olive colored glacial till that is high in silt content and quite acid in reaction. These soils are somewhat poorly drained and have a seasonal high water table perched in the upper part of the subsoil in early spring. Rate of water movement (permeability) through the subsoil is moderately slow or slow, and in the substratum it is slow.

The important soils of minor extent are about equally divided between those of the Canadice, Darien, Fremont, Hornell, Orpark, and Volusia series. Poorly drained Canadice are in depressions or along drainageways. Darien and Fremont soils are similar to Derby soils but in areas where the soil is more loamy and has a higher content of shale fragments. Hornell and Orpark soils are usually on narrow benches where the bedrock is within 40 inches of the soil surface. Somewhat poorly drained Volusia soils are in areas where a dense, compact layer has formed in the subsoil.

Considerable portions of this general soil unit was cleared for farming. Many of these areas are now idle because of seasonal wetness. The sloping portions of this unit is quite erosive. Most areas tend to have fairly long slopes.

- 7 -

#### 17. ORPARK, GENTLY SLOPING

#### Moderately deep, somewhat poorly drained, silty soils, on uplands

This unit consists of nearly level to sloping soils on plateau crests in the southern half of the county. Some areas have a shelf-like appearance. Slope ranges from 0 to 15 percent but is dominantly 3 to 8 percent.

This general soil unit covers about 35,300 acres or 5.2 percent of the county. Orpark soils make up 65 percent of the unit and soils of minor extent make up the remaining 35 percent.

Orpark soils formed in glacial till deposits. Shale bedrock underlies the soil at depths of 20 to 40 inches. These soils are somewhat poorly drained, silty, and contains a small amount of shale fragments. A seasonal high water table is perched in the upper part of the subsoil during excessively wet periods. Rate of water movement through the soil is moderately slow or slow. Orpark soils are quite acid.

Soils of minor extent are those of the Hornell, Angola, Manlius, and Derby series. Hornell soils are in areas that have a high clay content; Angola soils occur where the soil materials is less acid than in the Orpark soils; and Manlius soils are on higher, better drained knolls and ridges. Derby soils are in areas where bedrock is deeper than 40 inches. Some drainageways and low spots include soils similar to Orpark but poorly drained.

Some areas of this unit are used for farming but many areas are now idle and in brush cover. A few urban areas are encroaching into some areas. Seasonal wetness, relatively slow water movement through the soil, and close proximity of shale bedrock to the soil surface are important soil features to consider for most farm or nonfarm uses.

### 30. BLASDELL-FARNHAM, GENTLY SLOPING

Deep, well drained and moderately well drained, shaly soils, on terraces and ridges

This unit consist of nearly level to sloping soils on remnant beach ridges, outwash terraces, and remnant deltas. Slope ranges from 0 to 15 percent but is dominantly 3 to 8 percent.

This unit covers about 18,900 acres or 2.8 percent of the county. Blasdell soils make up 55 percent of the unit, Farnham soils about 35 percent, and soils of minor extent comprise the remaining 10 percent.

Blasdell and Farnham soils formed in loamy glacial outwash deposits dominated by black, brittle shale fragments. Blasdell soils are well drained, but have a seasonal high water table that rises into the substratum for very brief periods in early spring. Farnham soils are moderately well drained and have a seasonal high water table that rises into the subsoil during early spring. Rate of water movement (permeability) through both of the soils is moderately rapid. Blasdell soils occupy the higher part of the landscape while Farnham soils are in moderately low areas.

Soils of minor extent are those of the Phelps, Red Hook, Varysburg, and Manlius series. Moderately well drained Phelps soils and somewhat poorly drained Red Hook soils are in areas where the rock fragments are dominated by hard gravel rather than brittle shale fragments. Varysburg soils occur in a few areas where clayey sediments underlie the gravelly or shaly deposits at depths of 20 to 40 inches. Manlius soil are in areas where shale bedrock is within 20 to 40 inches of the soil surface.

Many areas of this general soils unit are used in farming. The Blasdell soils are particularly suited to early season vegetable crops because they dry out readily in early spring and are easy to cultivate. Many areas provide good homesites, although in areas of Farnham soils temporary seasonal wetness can be a problem. This unit can be a source of gravel, although the gravel is often of poor quality because of the high content of brittle shale fragments.









### INTERVIEW FORM

REF. B

INTERVIEWEE/CODE Russell Webster / Paul Sharpe /	•
TITLE - POSITION Superintendent Councilman	
ADDRESS Town Hall Address	
CITY_MarillaSTATE_NYZIP	
PHONE ( ) RESIDENCE PERIOD	TO
LOCATION Eastwood Rd. INTERVIEWER Cathy J Bo	sma
DATE/TIME 12/10/85 / 8:10 am	
SUBJECT: Town of Marilla Phase I Site Investigations	
REMARKS: Household refuse & trash were disposed in landfill from 19	65 to present.
Site is only open on Saturdays. Waste disposal average 80 - 120yd	/Sat.
<u>No drums or chemicals are accepted. Waste motor oil is placed in tan</u>	k. Oil is
pumped out by waste oil companys. Tank is 550 gal. Engineers Report	is filled
out monthly. 5 monitoring wells exist on site (shown in drawing 1982	). There
are no soil samples, leachate collection piping or gas collection sys	tems. Wells
are monitored every 3 months. Houses surrounding landfill have their	own drilled
drinking wells. Trash is not picked up Residence drop it off.	
	••••
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:	
SIGNATURE:	
COMMENTS: Paul would like follow up report!	
·	

## REF. 13

#### INTERVIEW FORM

INTERVIEWEE/CODE RUSS // Webster / Paul Sharpe TITLE - POSITION Grandente date Councilnsin ADDRESS Town that Address CITY NErdla_____STATE KY ZIP_____ RESIDENCE PERIOD _____TO PHONE ( ') LOCATION Fastund Rd INTERVIEWER Cathy J. Bogma DATE/TIME 12-10-85 1 8.10 cm SUBJEC .: town of Marilla Phase I Site Investigations REMARKS: Household refuse of tragh were disposed inlandfill from 1965 to Accent. Tite is only open on Saturdays. the disposal queence on -120 13/sat. No drume or changals are accepted, westerning is plead in teach. Bilis aimpod out by wirste Oil Companys, Tank is 54) gal. Francies Report is filled out monthly. 5 monitering wells exist on site ( shown in drawing, 1932). There are no soil samples, packate notherion piping or ous collection systems , hells are manifored every 3 months. Heres Surcanding landfill have their over drilled drinking wells. Trash is not picked in but residence drop it att. I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW: SIGNATURE: Still In Story & Crumbing Ruppell inelsk Suger COMMENTS: Raul would , Eiler fixtow up wont!



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I. SITE NAME AND LOCATION	······································					
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Town of Marilla	_	04 STATE NY	14102	Erie		
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I. RESPONSIBLE PARTIES	·····					<u> </u>
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Same		04 STATE	05 ZIP CODE	06 TELEPHON	ie number 12-73/1	
7 OPERATOR (It known and atlerenk from owner Same	n	08 STREE	T (Business, mailing,	residential)		
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#### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

1. IDENTIFICATION OT STATE OZ SITE NUMBER

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0~4	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARDO	OUS SUBSTANCES (See	Appendiz for most frequent	iy cang ÇAS Numberti			···	CE MEASURE OF
01 CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	CONCENTRATION
	Phenols			LF-GW	sample	0.003-0.034	ppm
MES	Barilion			LF - GW	Sample	0.2-5.73	pon_
MES	Cadmium		7440-43-9	LF-GW	Samole	0,000-0.058	ppm
	tm	n an		LF-GW	Sample	0.08-176	pom
MED_	Lend		T	LF-GL	N Sample	0,002-023	pon
MRS	Manapara			LF-GW	Sample	0.05-18.2	ppm_
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VI. SOURC	ES OF INFORMATION	Cite specific references, e.	g . state f-es, sample analy	sis. (epoits )			
1. E	ngineers Repo- Toillamy =cology & Eni	van Kure	of Operations en, Certis al, Inc., (	m, Feb. 19 , € Assoc. groundwate	+ analysi	1 87-marilla 5, 1983 and	, NI 1987

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PART 3 - DESCRIPTION			·	
HAZARDOUS CONDITIONS AND INCIDENTS				
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03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION			
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04 NARRATIVE DESCRIPTION			,	
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04 NARRATIVE DESCRIPTION				
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01 M. UNSTABLE CONTAINMENT OF WASTES (Sode/runof//standing iguids/leaking drume)				
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NONE NOT	LED			
1				
01 D. CONTAMINATION OF SEWERS, STORM DRAINS, WW	TPs 02 () OBSERVED (DATE:)			
04 NARRATIVE DESCRIPTION	•			
NONEN	UTUED			
04 NARRATIVE DESCRIPTION	02 E 000E(10E) (000E)			
	DIEA			
Mine no				
			·	
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR A	LLEGED HAZARDS		•	
_		· · .	·	
None	•			
III. TOTAL POPULATION POTENTIALLY AFFECTED:				
IV. COMMENTS			•	
	· .			
			<u></u>	
		<u> </u>		
DIMAES SITE VISIT 1785				
ENIGLENS REPORT AND VLANOF OFERANION FOR TOWN OF PREATER TO				
EPA 2070-13

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P	OTENTIAL HAZAR	DOUS WASTE SIT	E I. IDEN	
PART 1-3	SITE INSPECT SITE LOCATION AND	ION REPORT	RMATION	
II. SITE NAME AND LOCATION		· · · · · · · · · · · · · · · · · · ·	· · ·	•
Town of Marilla Landf		02 STREET, ROUTE NO., C S. Eastwood R	d betw. 2432 ¢ d	2548 S. Eastwood
Town of Marilla		NY 14105	2 Erie	07COUNTY OB CONG CODE DIST
09 COORDINATES UNTITUDE 47 44 00.0 018 30 00.	0 TYPE OF OWNERSH	P (Check one)	[] C. STATE [] D. COUN	NTY BE MUNICIPAL
III. INSPECTION INFORMATION			·····	
$\frac{12,10,85}{10,100}$	BEGI	1965 Pres	SentUNKNOV	MN .
	(Matter of Unit)		D. MUNICIPAL CONTRACTOR	
	(Name of tim)	B.G. OTHER Engin	neering-Science	Dames a Maone
Cathy J. BOSMac	Civil E	ingineer	67 ORGANIZATION Explinedring-S	08 TELEPHONE NO. CETTE (703) 591-7575
DO OTHER INSPECTORS	Céolocii	st	Dames & Mco	12 TELEPHONE NO. 12 (315) 638-2572
				( )
				( )
↓ 			······································	()
				·····
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15ADDRESS	Bod	16 TELEPHONE NO
Russell Webster	Superinten	dent 1740 T	workland	(716) 652-7311
Paul Sharpa	Councilm	an		( )
Paul Offhaus	Lancfill Operate	°c		( )
H. George Be Beats	Lantill.	br		( )
				( . <del>.)</del>
				( )
				·
17 ACCESS GAINED BY 18 TIME OF INSPECTION (Check one) D PERMISSION WARRANT	Cold, OV	erast, wet	from snow m	nett.
IV. INFORMATION AVAILABLE FROM				
Cathy J. Bosna	Engin	eering-Sc	ilence	03 TELEPHONE NO. (703)59/-7575
104 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	OB ORGANIZATION	07 TELEPHONE NO. SR.M.C.	08 DATE 12, 2, 35 MONTH DAY YEAR

EPA FORM 2070-13 (7-81)

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€E	PA	PO	TENTI SITI PART	AL HAZA E INSPEC	RDOUS WASTE TION REPORT	SITE	I. IDENTIFICA	
II. WASTES	TATES, QUANTITIES, AN	D CHARACTER	ISTICS					
01 PHYSICAL	STATES (Check all that apply)	02 WASTE QUANT	TTY AT SIT	Ε · · · ·	03 WASTE CHARACT	ERISTICS (Check al that	600ty)	
		musi be	independen			CI E. SOLI		VOLATILE
C C. SLUDG		TONS .	05	0.00		ISIVE DIF. INFE	CTIOUS DI J. EXPLO	SIVE
E D. OTHER	Municipal	CUBIC YARDS .	<u>ab</u>		D. PERSIS	TENT DH. KONT		
	(Specify) 1	NO. OF DRUMS						
IIL WASTE								
CATEGORY	SUBSTANCE N/	ME	01 GRO	SS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		<u> </u>
SLU	SLUDGE	<u> </u>	Unk	nown		MUNICIE	volupation d	TRACAC
OLW	OILY WASTE		1			af mic	He No 1	-ispuzze
SOL	SOLVENTS					uncter (	Le Know	<u>nazaro</u>
PSD	PESTICIDES					die me n	d at a	He OR
000	OTHER ORGANIC CH	EMICALS	F	r		- u spuse		-174
	INORGANIC CHEMIC	ALS			· · · ·			
ACD	ACIDS							
BAS	BASES							
MES	HEAVY METALS							
V. HAZARD	OUS SUBSTANCES (See App	endix for most (requent)	CRed CAS	Numbersj				
1 CATEGORY	02 SUBSTANCE NA	ME	03 CAS	NUMBER	04 STORAGE/DISP	OSAL METHOD		06 MEASUR
	Phonols		-	-	LE-GUIS	Panole	A AAR A ARIA	CONCENTRA
MES	Barium				11	u million	0,005-0,039	- ppm
MES	Cotismicin		7440	43-9	11	1	0,2 - 5,73	- <u>6</u> 044
MES	Iron .	•	<u> </u>		11		0.002-0.058	1 pm
MES	Lead		_	~	11		0.08-176	<u>pom</u>
MES	Manganese		*	=+			0.002-0.53	P?m
							0,05 - 15-2	- pm
	KOnly mangane	se was	an					
	observed re	ease.						
								<u> </u>
· .								
								·
								<u>·</u>
								<u> </u>
						· · ·		
FEEDSTO	XS (See Assessed to a second							
CATEGORY		<u> </u>						
EDe	OTFEEDSTOCK		02 CASI	NUMBER	CATEGORY	01 FEEDSTO	CKNAME	02 CAS NUMB
F03					FDS			
500					FDS			
FUS					FDS			
FUS		· · ·			FDS			
I. SOURCES	OF INFORMATION (CRespe	cific references, e.g., st	ete förs, sam	tole analysis, rep	orts)			
1. E	Enginoers Re NY; Talla	my, Vom	Plan Kure	of Op n, Ger	tis & As	eb. 1982, soc.	Town of Ma	rilla
2.	Ecology & En	simonmen	tal J	Ene.	groundwort	or analys	is, 1983 and	1 1984

POTENTIAL	HAZARDOUS WASTE SITE	I. IDENTIFICATIO	)N UME
SEPA SITE IN PART 3 - DESCRIPTION OF H	ISPECTION REPORT IAZARDOUS CONDITIONS AND INCIDE	NTS AY	
HAZABDOUS CONDITIONS AND INCIDENTS	· . · . · . · .	•	•
01 DLA. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 5,000,= 7520	02 00 OBSERVED (DATE: 7/85) 04 NARRATIVE DESCRIPTION	D POTENTIAL	AL
GROUNDWATER SAMPLES	FROM MONITORING WELLS	- ANIALYZED	
quarterly By Ecology An	US ENVIRONMENT, INC.	•	
01 DB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 DOBSERVED (DATE: _7185) 04 NARRATIVE DESCRIPTION VECDENTURINE USE UNLY		AL
	02 DOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION		AL
NO DATA AVHIL	-HBLE.		
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 DOBSERVED (DATE:		AL
NO INCIDENT	·		
	- 02 C CESERVED (DATE:		A I
USED BY HUNTERS AND SILIE	LiDERT - POTENTIAL EVIS 25 However, no hazardo	ts since Litris is uasted one king	ی م
01 0 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 OBSERVED (DATE:	) 🕅 POTENTIAL C	A C
AREA OF LANDALL OFF-SITE SOILS	~10 ACRES NO DATA	AVAILABLE FOI2	
01 G DRINKING WATER CONTAMINATION		) CXPOTENTIAL C	Ì,
03 POPULATION POTENTIALLY AFFECTED.		(PRIVITE)	
RESIDENTS IN AREA	ALL ON WELL WATER		
01 CH. WORKER EXPOSURE/INJURY	OLE ON WELL WATEL	.) D POTENTIAL (	
01 DH. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: NO KNOWN IN	OLE ON WELL WATER	) D POTENTIAL (	
01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: NO KNOWN IN 01 D I. POPULATION EXPOSURE/INJURY	OLE ON WELL WATEL	_)	
01 D H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: NO KNOWN IN 01 D I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: NO KNOWN INC.	ALE ON WELL WATEL         02 D OBSERVED (DATE:	_)	
OI DI. POPULATION EXPOSURE/INJURY O3 POPULATION EXPOSURE/INJURY O3 POPULATION POTENTIALLY AFFECTED: NO KNOWN INC	QLE ON WELL WATEL         02 DOBSERVED (DATE:	_) [] POTENTIAL (	

	POTENTIAL H SITE IN ART 3 - DESCRIPTION OF H	HAZARDOUS WASTE SITE ISPECTION REPORT IAZARDOUS CONDITIONS AND INCID	I. IDENTIFIC	ATION ITE NUMBER
HAZARDOUS CONDITIONS	AND INCIDENTS (Continued			• • •
DI Ø J. DAMAGE TO FLORA		02 0 OBSERVED (DATE: 12/85		C ALLEGED
04 NARRATIVE DESCRIPTION	•	•		05
	SLIGHT DAMAGE	E TO VEGETATION UN A	RETA DITCA C	
	LAND GLL			
04 NARRATIVE DESCRIPTION IN	sclude neme(3) di species)			
	NUDALE, NUTTLE	A- AID REDA ANTHICHBLE		
04 NARRATIVE DESCRIPTION		02 D OBSERVED (DATE:		
	NOT LIKED	-y .		•
01 DM. UNSTABLE CONTAINN (Speer/Runof/Standing insuffs.	AENT OF WASTES	02 C OBSERVED (DATE:		O ALLEGED
03 POPULATION POTENTIALLY	AFFECTED:	- 04 NARRATIVE DESCRIPTION		
	NOT AFFLI	CHOLE		
01 IN. DAMAGE TO OFFSITE	PROPERTY	02 OBSERVED (DATE:	) D POTENTIAL	C ALLEGED
04 NARRATIVE DESCRIPTION				
	I DAVE A	INTI ED		
			n an	
	SEWERS, STORM DRAINS, WWT	Ps 02 0 OBSERVED (DATE:		O ALLEGED
04 NARRATIVE DESCRIPTION				
	. NINE NO			
04 NARRATIVE DESCRIPTION				
	1 din m			
	Nove	NOTICES)	<b>、</b>	
05 DESCRIPTION OF ANY UTH	ER KNOWN, POTENTIAL, OR AL	LEGED HAZAHOS	,	
		NOME		
IL TOTAL POPULATION PO	TENTIALLY AFFECTED:			
IV. COMMENTS	<u> </u>	······································	•	·
			•	
V. SOURCES OF INFORMAT	10N (Cao specific references, e.g., state to	les, sample analysis, reports;		
V. SOURCES OF INFORMAT	10N 1010 20000110 1010100002 0. g. SINO 11	ies. Sample ansiysis, reports;		
V. SOURCES OF INFORMAT E.S. & D.4M S ECCYLOC: Y AND	IONICIO EDOCAL POTOMORE D. D. SILVO IL ITE L'ISIT I2/85 ENVIRONIMENT IN	RE SEMPLE ENERGY SER. 1000181		
V. SOURCES OF INFORMAT (55 & D4M 5) ЕССИСС: У АЛЭ РА FORM2070-13 (7-81)	IONICAO EDORAR NOIONDACOEL O. Q. SIMO II ITE L'ISIT IZ/85 ENVIRONIMENT IN	R ANALYTICAL REBULTS		
V. SOURCES OF INFORMAT E.S. & D.4M S ECCLOC: Y AND PAFORM2070-13(7-81)	TONICIO EDOCATE NOTONACOEL O. O. ALMO IL ITE VISIT I2/85 ENVIRONIMENT IN	Ker. JEMONE ENERY LE. 100018) R ARALY TICAL REBULTS		······

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\$ EPA	POTENTIAI S PART 4 - PERMIT	L HAZARDOU SITE INSPECT AND DESCRIF	S WASTE SITE	ION	I. IDENTIFICATION 01 STATE 02 SITE NUMBER
IL PERMIT INFORMATION		• •	· · · ·		
DI TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS	
(Check of the epoly)	· · · · · · · · · · · · · · · · · · ·			1	• •
		· · ·			
				<u> </u>	
NG STATE Same DEC	15522	3-6-84	11-31-56	<u> </u>	
		·			
			1		
III. SITE DESCRIPTION			<u>.</u>		
01 STORAGE/DISPOSAL (Check all that appry)	02 AMOUNT 03 UNIT O	FMEASURE 04 T	REATMENT (Check of that	nopły)	05 OTHER
A. SURFACE IMPOUNDMENT	· · · ·	0 A	INCENERATION		
C 8. PILES			. UNDERGROUND INJ	ECTION	
	550 and LEOR NUKS COMINIA	the works	. CHEMICAL/PHYSIC	AL	Storage Shed
E TANK, BELOW GROUND		cintrato DE	WASTE OIL PROCES	SING	OB AREA OF SITE
DF. LANDFILL	95,000 C		SOLVENT RECOVER	IY	
G. LANDFARM		□ 9	OTHER RECYCLING	RECOVERY	(Ac
	·	12 ⁷ H	. OTHER ()/1 5 1	elovered b	Y
			1.00	way waste	
or comments The landfill beg	an in 1965 and is	currently	used Brma	Contract Inicipal	refeise ine land,
is open every sat is open every sat was not observed north side (DEC in 5 wells.	an in 1965 and is urday and accepted during the site site visit - 8-27-85	currently sonly mu visit bu S. Ground	used france inicipal use thas been twater is a	inicipal enicipal stes (no ontinuou	refusie. "The land, drums), Leachard led in along the sely monitored
isouring The landfill beg is open every sate was not observed north side (DEC in 5 wells. IV. CONTAINMENT	an in 1965 and is urday and accepted during the site site visit - 8-27-85	currently s only mu visit bu S. Greund	used france inicipal use thas been twater is a	nicipal stes (no ontinuou	refuse ine land, drums, Leachat Ked in along the sely monitored
(South) The landfill beg is open every sate was not observed north side (DEC in 5 wells. IV. CONTAINMENT OI CONTAINMENT OF WASTES (Changed one) D. A. ADEQUATE, SECURE	an in 1965 and is urday and accepted during the site site visit-8-27-85	currently sonly my visit bu S. Greund	used Brma inicipal use thas bee twater is a suate, poor	Contract unicipal stes (no ortinuou ontinuou	refusie. "The land, drums), Leachatted ted in along the sty monitored
15 OPEN EVERY The landfill beg is open every Sath was not observed north side (DEC in 5 wells. IV. CONTAINMENT OI CONTAINMENT OF WASTES (Check one) I A. ADEQUATE, SECURE 02 DESCRIPTION OF DRUMS, DIKING, LIN The landfill has storage Urcm is I we gave and war	an in 1965 and is urday and accepted during the site site visit-8-27-85 B. MODERATE ERS. BARRIERS. ETC. S no liner materia not diked. the s not diked. The s	currently sonly mu visit bu disit bu c.inadec clexcept site is no cnovided	used forma inicipal wa thas been twater is a suate poor for a clay of tenclosed at the en	D. INSEC D. D. INSEC	referse ine land, o drums), Leachad led in along the sely monitored cure, unsound, Dangerous the demporary of price, however,
(Sovery) 07 COMMENTS The landfill beg is open every Sath was not observed north side (DEC in 5 wells. IV. CONTAINMENT 01 CONTAINMENT OF WASTES (Cheet one) I A. ADEQUATE, SECURE 02 DESCRIPTION OF DRUMS, DIKING, LIN The landfill has storage Urcm is I w gale and war V. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: 1	an in 1965 and is urday and accepted during the site site visit - 8-27-85 B. MODERATE ERS. BARRIERS. ETC. S no liner materia not diked. the s nirg sign are f.	currently sonly mu visit bu d. Greund c. inadec d except site is no Drovided	used forma inicipal wa thas bee twater is a buater is a buater on the enclosed of the enclosed	Dover.	refuse ine land, o drums), Leachad led in along the isly monitored cure, unsound, DANGEROUS the demporary of price, however,
Isoreny The landfill beg is open every Satu was not observed north side (DEC in 5 wells. IV. CONTAINMENT OI CONTAINMENT OF WASTES (Cheet one) □ A. ADEQUATE, SECURE O2 DESCRIPTION OF DRUMS, DIKING, LIN The landfill has storage wrom is n we gave and war V. ACCESSIBILITY OI WASTE EASLY ACCESSIBLE: 1 02 COMMENTS No fence waste is (over	an in 1965 and is urclay and accepts d during the site site visit- 8-27-85 B. MODERATE ERS, BARRIERS, ETC. S no liner materia not diked. the s nor diked. the s nor g sign are f.	currently sonly mu visit bu disit bu disit bu c. inadec di except site is no chincy sign of clay.	used forma inicipal wa thas been twater is a swater is	Dover. 1 by fe 1 by fe	entrance. Municip
Isocery The landfill beg is open every Sat was not observed north side (DEC in 5 wells. IV. CONTAINMENT 01 CONTAINMENT OF WASTES (Cheen one) □ A. ADEQUATE. SECURE 02 DESCRIPTION OF DRUMS, DIKING, LIN The landfill has storage Urcm is I we gave and war V. ACCESSIBILITY 01 WASTE EASILY ACCESSIBLE: { 02 COMMENTS No fence waste is (Over VI. SOURCES OF INFORMATION	an in 1965 and is urday and accepted during the site site visit- 8-27-85 B. MODERATE ERS, BARRIERS, ETC. Sno liner materia not cliked. the s not cliked. the s not cliked. the s not cliked and wa ves I NO but gate and wa ed with 2 feet a	currently sonly mu visit bu disit bu disit bu disit bu c. inadec di except site is no Drovided	used forma inicipal wa thas been twater is a twater is a suate poor for a clay of the enclosed at the enci-	D. INSEC	refuse The land, or drums, Leachand, led in along the sely monitored cure, unsound, DANGEROUS the demporary of proce, however,

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· · · · · · · · · · · · · · · · · · ·	POTE	NTIAL HAZAR	DOUS WASTE	SITE	I. IDE	ENTIFICATION
SEPA		SITE INSPECT	ION REPORT			ATE 02 SITE NUMBER
	PART 5 - WATER	, DEMOGRAPHI	C, AND ENVIRON	IMENTAL DATA	<u>47</u>	
IL DRINKING WATER SUPPLY			• • • •	•		
01 TYPE OF DRINKING SUPPLY		02 STATUS			0	B DISTANCE TO SITE
SURFA	CE WELL	ENDANGERE	D AFFECTED	MONITORED		·
COMMUNITY . A.C	3. 🖸	A.O	в. 🔾	C. 🗆		(mi)
NON-COMMUNITY C. C	0.9	O	E. D	F. 0	B	. <u>0, cs</u> (mi)
III. GROUNDWATER						<u> </u>
01 GROUNDWATER USE IN VICINITY IC	Choch and) IG D. DRINKING (Other sources availe COMMERCIAL, IN (No other water sources)	DISTRIAL IRRIGATIO		CIAL, INDUSTRIAL, IRRIG adurcas avaeadas)		D. NOT USED, UNUSE
02 POPULATION SERVED BY GROUND	WATER 5,000-75	20	03 DISTANCE TO NE	AREST DRINKING WATE	R WELL_	0,25 (m)
	05 DIRECTION OF GR	OUNDWATER FLOW	06 DEPTH TO AQUIFE	R 07 POTENTIAL Y	1810	08 SOLE SOURCE AD
770	. M / N /	W	OF CONCERN 20	IM 300-400	(a=4)	
(m)				111 - 200 - 20	(gpd)	· .
	* [#] #	<u> </u>				· ·
INO		DN, ECONOMICALL	Y C. COMME	RCIAL, INDUSTRIAL	_,	D. NOT CURRENTLY
INO	DN DB. IRRIGATIO	DN, ECONOMICALL		ERCIAL, INDUSTRIAL	ĒD	DISTANCE TO SIT
D NO IV. SURFACE WATER 01 SURFACE WATER USE (Check and DA RESERVOIR, RECREATION DRINKING WATER SOUR 02 AFFECTED/POTENTIALLY AFFECT NAME: <u>LITTLE</u> BUF	ON DE B. IRRIGATIO CE IMPORTA TED BODIES OF WATER FACC CREEK	DN, ECONOMICALL	Y C. COMME	ERCIAL, INDUSTRIAL	ED	DISTANCE TO SIT
INO IV. SURFACE WATER 01 SURFACE WATER USE (Check and CA. RESERVOIR, RECREATION DRINKING WATER SOUR 02 AFFECTED/POTENTIALLY AFFECT NAME: 	DN D. B. IRRIGATIO ICE IMPORTA TED BODIES OF WATER FATC CREEK	DN. ECONOMICALL		AFFECT	ED	DISTANCE TO SIT
INO	DN D. I. B. IRRIGATIO CE IMPORTA TED BODIES OF WATER FACC CLEEK	DN, ECONOMICALL		AFFECT	ED	DISTANCE TO SIT
IV. SURFACE WATER  IV. SURFACE WATER USE (Check one)  A. RESERVOIR, RECREATION DRINKING WATER SOUR  OZ AFFECTED/POTENTIALLY AFFECT NAME:	DN DB. IRRIGATIO	DN. ECONOMICALL	Y C. COMME		ED	
IV. SURFACE WATER  IV. SURFACE WATER USE (Check and)  A. RESERVOIR, RECREATION DRINKING WATER SOUR  O2 AFFECTED/POTENTIALLY AFFECT NAME:	DN D. I. B. IRRIGATION	DN, ECONOMICALL			ED EAREST PC	DISTANCE TO SIT
IV. SURFACE WATER 01 SURFACE WATER USE (Check one) A. RESERVOIR, RECREATION DRINKING WATER SOUR 02 AFFECTED/POTENTIALLY AFFECT NAME: 	DN D. B. IRRIGATION ICE IMPORTA TED BODIES OF WATER FACO CHEEK PERTY INFORMATION TWO (2) MILES OF SITE B.	DN. ECONOMICALL INT RESOURCES			ED	
NO IV. SURFACE WATER O1 SURFACE WATER USE (Create and) CA. RESERVOIR, RECREATION DRINKING WATER SOUR O2 AFFECTED/POTENTIALLY AFFECT NAME:	DN D. IB. IRRIGATION TED BODIES OF WATER FACC LEGEK PERTY INFORMATION TWO (2) MILES OF SITE 8	DN, ECONOMICALL INT RESOURCES	(3) MILES OF SITE	ERCIAL, INDUSTRIAL AFFECT	ED	DISTANCE TO SIT
IV. SURFACE WATER 01 SURFACE WATER USE (Check one) CA. RESERVOIR, RECREATION DRINKING WATER SOUR 02 AFFECTED/POTENTIALLY AFFECT NAME: 	DN D. IRRIGATION ICE IMPORTA TED BODIES OF WATER FFACE CREEK PERTY INFORMATION TWO (2) MILES OF SITE B	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO OF PERSONS 04 DISTANCE TO N	ERCIAL, INDUSTRIAL AFFECT		DISTANCE TO SIT
INO	DN DI B. IRRIGATION GE IMPORTA TED BODIES OF WATER FACO CHEEK PERTY INFORMATION TWO (2) MILES OF SITE B NO. OF PERSONS WO (2) MILES OF SITE	DN, ECONOMICALL INT RESOURCES	(3) MILES OF SITE			DISTANCE TO SIT
IV. SURFACE WATER 01 SURFACE WATER USE (Check one) CA. RESERVOIR, RECREATION DRINKING WATER SOUR 02 AFFECTED/POTENTIALLY AFFECT NAME: 	DN D. B. IRRIGATION TED BODIES OF WATER FFACC CEREK PERTY INFORMATION TWO (2) MILES OF SITE B NO. OF PERSONS WO (2) MILES OF SITE  SITE (Provide nametry description	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS 04 DISTANCE TO NI	ERCIAL, INDUSTRIAL AFFECT		DISTANCE TO SIT
INO	DN DB. IRRIGATION IED BODIES OF WATER FACO CHEEK PERTY INFORMATION TWO (2) MILES OF SITE B NO. OF PERSONS WO (2) MILES OF SITE SITE (Provide nerretive describution ) CAL DUPUEA	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS 04 DISTANCE TO NI 04 DISTANCE TO NI 04 DISTANCE TO NI		ED AREST PC DING S ( RE	DISTANCE TO SIT
INO IV. SURFACE WATER O1 SURFACE WATER USE (Check and A RESERVOIR, RECREATION DRINKING WATER SOUR O2 AFFECTED/POTENTIALLY AFFECT NAME:	DN D. B. IRRIGATION TED BODIES OF WATER FACC CLEEK PERTY INFORMATION TWO (2) MILES OF SITE B WO (2) MILES OF SITE SITE (Provide neuretive describion SITE (Pro	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS O4 DISTANCE TO NI D4 DISTANCE TO NI D4 DISTANCE TO NI D4 DISTANCE TO NI			DISTANCE TO SIT
IV. SURFACE WATER 01 SURFACE WATER USE (Check one) CA. RESERVOIR, RECREATION DRINKING WATER SOUR 02 AFFECTED/POTENTIALLY AFFECT NAME: 	DN DE B. IRRIGATION TED BODIES OF WATER FFACC CREEK PERTY INFORMATION TWO (2) MILES OF SITE B MO. OF PERSONS WO (2) MILES OF SITE SITE (PROVIDE ABAYERING DESCRIPTION SITE (PROVIDE	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS 04 DISTANCE TO NI 11 HELIL Y A ELEC HEVES	ERCIAL, INDUSTRIAL AFFECT OZ DISTANCE TO NE CAREST OFF-SITE BUIL C.Z CAREST OFF-SITE BUIL CAREST OFF-SITE B	ED AREST PO DING S ( PE	DISTANCE TO SIT
INO	DN DE B. IRRIGATION TED BODIES OF WATER FACO CREEK PERTY INFORMATION TWO (2) MILES OF SITE B NO. OF PERSONS WO (2) MILES OF SITE SITE (Provide nerretive descrouder ) RAC DUPUEN COU DENS	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS 04 DISTANCE TO NI 11 VICINITY OF LIFE, AVEL 11 HELLY A. ELER HUSS	ERCIAL, INDUSTRIAL AFFECT OZ DISTANCE TO NE EAREST OFF-SITE BUIL C.Z SALCUL TORE		DISTANCE TO SIT
INO	DN DE B. IRRIGATION TED BODIES OF WATER FACC CLEEK PERTY INFORMATION TWO (2) MILES OF SITE B NO. OF PERSONS WO (2) MILES OF SITE SITE (Provide neurospice descributed SITE (Provide neurospice descributed S	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS O4 DISTANCE TO NI MILES OF SITE	ERCIAL, INDUSTRIAL AFFECT	ED AREST PC	DISTANCE TO SIT
IV. SURFACE WATER O1 SURFACE WATER USE (Check and A. RESERVOIR, RECREATION DRINKING WATER SOUR 02 AFFECTED/POTENTIALLY AFFECT NAME: 	DN DE B. IRRIGATION TED BODIES OF WATER FACE CREEK PERTY INFORMATION TWO (2) MILES OF SITE B NO. OF PERSONS WO (2) MILES OF SITE SITE (Provide neuretive description ) SAL DUPUENT COLU DENS	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS 04 DISTANCE TO NI 04 DISTANCE TO NI 14 HELIC Y A C	ERCIAL, INDUSTRIAL AFFECT O2 DISTANCE TO NE CAREST OFF-SITE BUIL C.2 Frances densely populated und SUICUL TURE	ED AREST PC DING S ( RE	DISTANCE TO SIT
INO IV. SURFACE WATER O1 SURFACE WATER USE (Check and A. RESERVOIR, RECREATION DRINKING WATER SOUR O2 AFFECTED/POTENTIALLY AFFECT NAME: <u>///T/L/E_BUF</u> V. DEMOGRAPHIC AND PROF O1 TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A. <u>382</u> MO. OF PERSONS O3 NUMBER OF BUILDINGS WITHIN T OS POPULATION WITHIN VICINITY OF RC	DN DE B. IRRIGATION TED BODIES OF WATER FACC CLEEK PERTY INFORMATION TWO (2) MILES OF SITE B WO (2) MILES OF SITE SITE (Provide neuretive described SITE (Provide neuretive des	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE	ERCIAL, INDUSTRIAL AFFECT	ED EAREST PC	DISTANCE TO SIT
IV. SURFACE WATER 1V. SURFACE WATER USE (Check one) A. RESERVOIR, RECREATION DRINKING WATER SOUR 02 AFFECTED/POTENTIALLY AFFECT NAME: 	DN DE B. IRRIGATION TED BODIES OF WATER FACC CREEK PERTY INFORMATION TWO (2) MILES OF SITE B MO. OF PERSONS WO (2) MILES OF SITE  SITE (PROVIDE ANYTHING DELEDED )RAL DUPUEN COU DENS	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS 04 DISTANCE TO NI 10 VICINITY OF LIFE 1 V AV ELEC Y AV	ERCIAL, INDUSTRIAL AFFECT OZ DISTANCE TO NE CAREST OFF-SITE BUILD C. Z CARE		DISTANCE TO SIT
IV. SURFACE WATER 01 SURFACE WATER USE (Check and A. RESERVOIR, RECREATION DRINKING WATER SOUR 02 AFFECTED/POTENTIALLY AFFECT NAME: 	DN DE B. IRRIGATION TED BODIES OF WATER FACO CREEK PERTY INFORMATION TWO (2) MILES OF SITE B NO. OF PERSONS WO (2) MILES OF SITE SITE (Provide nametive describion ) RAC DUPUEN COU DENS	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS 04 DISTANCE TO NI 11 FICALLY A ELEC HEVES		ED ED ED EAREST PC DING S S E ( RE	DISTANCE TO SIT
<ul> <li>NO</li> <li>IV. SURFACE WATER</li> <li>O1 SURFACE WATER USE (Check and A. RESERVOIR, RECREATION DRINKING WATER SOUR</li> <li>O2 AFFECTED/POTENTIALLY AFFECT NAME: </li></ul>	DN DE B. IRRIGATION TED BODIES OF WATER FACC CLEEK PERTY INFORMATION TWO (2) MILES OF SITE B NO. OF PERSONS WO (2) MILES OF SITE SITE (Provide neuronic descributed SITE (Provide neuronic descri	DN. ECONOMICALL INT RESOURCES	(3) MILES OF SITE NO. OF PERSONS 04 DISTANCE TO NI 11 H/C-1C I/ A-4 ELIED MENUS	ERCIAL, INDUSTRIAL AFFECT OZ DISTANCE TO NE EAREST OFF-SITE BUIL OZ DISTANCE TO NE EAREST OFF-SITE BUIL OZ DISTANCE TO NE	ED ED EAREST PC	DISTANCE TO SIT

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		•	LIDENTIFICATION
	POTENTIAL HAZA SITE INSPEC	RDOUS WASTE SITE	01 STATE 02 SITE NUMBER
VERA	PART 5 - WATER, DEMOGRAPH	HIC, AND ENVIRONMENTAL DA	ra wy
VI. ENVIRONMENTAL INFORMA	TION		
01 PERMEABILITY OF UNSATURATED Z	ONE (Check and)		
□ A. 10 ⁻⁴ - 10 ⁻	• cm/sec Ø B. 10 ⁻⁴ − 10 ⁻⁶ cm/≟cc [	C. 10 ⁻⁴ – 10 ⁻³ cm/sec D. GRE/	ATER THAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK		<u> </u>	
C A IMPERN	AEABLE D B. RELATIVELY IMPERMEAS	BLE C. RELATIVELY PERMEABLE	D. VERY PERMEABLE     (Greater them 10 ⁻² criving)
	04 DEPTH OF CONTAMINATED SOIL ZONE	/	
(	1(2) - 10	760	
	C) Che resize noun maintrat	SITE SLOPE DIRECTION OF S	SITE SLOPE TERRAIN AVERAGE SLOPE
(in)	(in)	<u> </u>	w <u></u>
09 FLOOD POTENTIAL			
SITE IS IN 500 YEAR FLC	DODPLAIN		
11 DISTANCE TO WETLANDS (5 acre mener		12 DISTANCE TO CRITICAL HABITAT (of en	Gangered SDecieS)
ESTUARINE	OTHER		(mi)
A(mi)	8/. <i>(</i> (mi)	ENDANGERED SPECIES:	
13 LAND USE IN VICINITY		······································	
DISTANCE TO:			
COMMERCIAL/INDUSTR	RESIDENTIAL AREAS; NATIO	ONAL/STATE PARKS, JFE RESENTED	AGRICULTURAL LANDS
A (mi)	B14	(mi) C	(mi) D(mi)
14 DESCRIPTION OF SITE IN RELATION	TO SURROUNDING TOPOGRAPHY		
SI	TE IS LUCHTED IN	A RURAC AREA	I SAME SMAL
OF MARIN	LA. LAND 15 RALA	TIVELY FLAT WITH	A DELAR A MACORS
MILLS, S	ITE IS BURDARED BY	FARM LANDS, U,	DUESKLOPED
AND TT	the TOWN PARK- 1		
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•			
•		-	
VII. SOURCES OF INFORMATIO	)N (Cale Edecatic references, e.g., state fires, sample analys	121_ /0D0/72j	
VII. SOURCES OF INFORMATIO	DN (Care Educatic references, e.g., state face, Lamoie analys - (1985)	-	
VII. SOURCES OF INFORMATIO SITE VISIT LISGS TOPO	DN ICHO EDECTIC INTOTICEL O. B. LIDIO INTEL LANDIA BARAYI - [1925] DGBADITIC MAD, EAST AURO	ue reported DRA & COWELSVILLE QUA	DiZothuale
VII. SOURCES OF INFORMATIO SITE VISIT LISGS TOPO SULLS IMAD O BUDLING LOG	DN ICAO EDOCOTO TOTOTOTO E O. G., ELENO 1902, LEMONO EMONT - (1985) DGBADHTC MAP, EAST AURO F ERIE COUNTY, 1015DA, 1979 5 ; EAHRTH DIMMENTATIONS	na rodonni DRA & COWELSVILLE QUAN	Di2AW4LE
VII. SOURCES OF INFORMATIO SITE VISIT LISGS TOPO SULLS IMHO O BORING LOGG US CLIMA	DN ICLO EDOCLE IN/OFORCEL O. B. ALDIO INOL LANDIA ANOM - [1985] DGBADING MAP, EAST AURO FERIE COUNTY IUSDA, 1979 5; EARTH DIMENSIOUS TICATLAS, USDOC	ue reportes DRA & CONECSVILLE QUAN	Dizatula Lé

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SEPA	P	OTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT	
II. SAMPLES TAKEN	O1 NUMBER OF	102 SAMPLES SENT TO	103.ESTIMATED DATE
SAMPLE TYPE	SAMPLES TAKEN		RESULTS AVALABLE
GROUNDWATER	quarterly	Ecology & Environmental, In	<u>c.€ 1981-1985</u>
	quarterle	Tallamy Van Kuren & Azsoc.	1981-1985
WASTE		1 none	
AIR	•	HNU meter ES and DEM	
RUNOFF	-	None	
SPILL		hone	
SOIL		None	
VEGETATION		none	
OTHER		None	•
III. FIELD MEASUREMENTS TA	AKEN		
)1 TYPE	02 COMMENTS		
HNW -ATT	Air coadin	gs were taken in April 1986, no c	observed
	release	es were detected Readings user	o takan
	upuin	I and dremwind of the site.	
·	· .		
.:			
IV. PHOTOGRAPHS AND MAP	PS		· · ·
	L	02 IN CUSTODY OF	
D3 MAPS BYES D NO	2 map of SI	te was updated during site inve	ostigation.
V. OTHER FIELD DATA COLLI	ECTED (Provide narrative das	scription)	
Sanitary La	rdfill draw	ings (Feb. 1982) - Tallamy, Van Kurer	n, Gentis, Massa
Requested	in field an	d received later, an Engineer's Rel	port e Plan
of Open	ation (Feb	.82) containing groundwater monit	tering data
No leachate	e outbreak	s or drums were visable during	site,
investigati	ion, but lec	ichate outbreaks are known to have	cecured
some Jebr	is and trac	in not covered, this was piled (~2't	righ) along
rorth side	of landfill	<i>,</i>	•
VI. SOURCES OF INFORMATI		e.g., state files, sample analysis, reports)	
site inspect	tion by Es	EDEM on 12-10-85	
Feology &	Environme	steel, the	
Tallany, Ve	oin Kuren ai	nd Assoc Engineers Report, 1982	
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	· ·	PART 7 - OW		· WL	
I. CURRENT OWNER(S)			PARENT COMPANY (# applicable)		
Town of Marilla	0	2 D+B NUMBER	08 NAME		D9 D+8 NUMBER
1740 Two Read		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	1	11 SIC CODE
Marille	OB STATE O	7 ZIP CODE 14107	12 CITY	13 STATE	14 ZIP CODE
)1 NAME	. c	2 D+8 NUMBER	OB NAME		09 D+8 NUMBER
D3 STREET ADDRESS (P.O. Bos. RFD 4. etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Boz, RFD #, etc.)	, <u></u>	11 SIC CODE
DS CITY	06 STATE (	T ZIP CODE	12 СІТУ	13 STATE	14 ZIP CODE
01 NAME	1	D2 D+B NUMBER	OB NAME	<u> </u>	09 D+B NUMBER
D3 STREET ADDRESS (P.O. Bos, RFD #, etc.)	. <u></u>	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, erc.)		1 1 SIC CODE
о5 слу	OB STATE C	1 D7 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
DI NAME		D2 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS (P.O. Box. RFD #, erc.)	<u> </u>		10 STREET ADDRESS (P.O. Bos, RFD #, etc.)	1	11 SIC CODE
OS CITY	06 STATE	J J7 ZIP CODE	12 GITY	13 STATE	14 ZIP CODE
IIL PREVIOUS OWNER(S) (Las most m	econt first) +		IV. REALTY OWNER(S) (# appacepte:	lest most recent first)	ļ
Oscar Tankuslay	(And (Hubert)	D2 D+B NUMBER	01 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD 4, erc.)		04 SIC CODE	03 STREET ADORESS (P.O. Box, AFO #; etc		04 SIC CODE
OS CITY	OGSTATE	D7 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		2 D+B NUMBER	01 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	•	04 SIC CODE	03 STREET ADDRESS (P.O. Bos, RFD #, etc.	-)	04 SIC CODE
	06 STATE	D7 ZIP CODE	05 CITY	OB STATE	07 ZIP CODE
05 CITY	I 1				02 D+8 NUMBER
05 CITY		D2 D+8 NUMBER	01 NAME		
05 CITY 01 NAME 03 STREET ADDRESS (P.O. Box, AFD #, etc.)		02 D+B NUMBER	01 NAME 03 STREET ADDRESS (P.O. Box, RFD #, etc.		04 SIC CODE
05 CITY 01 NAME 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 05 CITY	06 STATE	02 D+8 NUMBER 04 SIC CODE 07 ZIP CODE	03 STREET ADDRESS (P. O. Bos, RFD #, etc.	OB STATE	04 SIC CODE
05 CITY 01 NAME 03 STREET ADDRESS (P.O. Box, AFD P. etc.) 05 CITY V. SOURCES OF INFORMATION	OB STATE (Cas specific references, e - h Paul <	04 SIC CODE 07 ZIP CODE	03 STREET ADDRESS (P.O. Box. RFD 0, onc. 05 CITY 144. (PODOTS) RUSSE((4))ebston	OB STATE	

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SEPA		PO	TENTIAL HAZA SITE INSPE PART 8 - OPERA	ARDOUS WASTE SITE CTION REPORT TOR INFORMATION	I. IDENTIFI	
IL CURRENT OPERATO	OR (Provide # different from	· cuner)		OPERATOR'S PARENT COMPANY	(If appacable)	• • •
TOWN OF A	Marilla		02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. B 1740 Twee 1	ar AFD . arc.) Rat Rd	<b>1</b>	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
Marilla	· · · ·	OB STATE	07 ZIP CODE イイバクス	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER					
III. PREVIOUS OPERAT	COR(S) (List most recent fi	et; provide only	y # different from owner)	PREVIOUS OPERATORS' PARENT (		applicable)
OSPar Jank	uster	·	02 D+8 NUMBER	10 NAME		11 D+8 NUMBER
03 STREET ADDRESS (P.O. 8	02. RFD 0. 012)	<b>I</b>	04 SIC CODE	12 STREET ADDRESS (P.O. Boz, RFD #, etc.)		13 SIC CODE
05 CITY	<u></u>	OB STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
OB YEARS OF OPERATION	OS NAME OF OWNER	nkus	PERIOD Py			
01 NAME			02 D+B NUMBER	10 NAME		11 D+B NUMBER
03 STREET ADDRESS (P.O. B	ns, AFD Ø, efc.j		04 SIC CODE	12 STREET ADDRESS (P.U. Box, AFD #, etc.)		13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THI	S PERIOD			
01 NAME	· · · · · · · · · · · · · · · · · · ·		02 D+B NUMBER	10 NAME	· _ · ·	11 D+8 NUMBER
03 STREET ADDRESS (P.O. B	DE, RFO Ø. etC.}		04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFO Ø, etc.)		13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THI	SPERIOD		<u>, I</u>	
IV. SOURCES OF INFO		c relerances, e	.g., slete files, sample analys	=		
Interview	with Pac	,1 Sta	irpe E Rus	sell webster during	site visi	t. 12-10-85.
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SFPA	1	POTENTIAL HA SITE INSF	ZARDOUS WASTE SITE	I. IDENTIF	
	PART	9 - GENERATOR	TRANSPORTER INFORMATION	NY	
II. ON-SITE GENERATOR				······································	
OI NAME		02 D+8 NUMBER			
Ivurie					
US SIREET ADURESS (P.O. Boz, RFD 0, orc.)		04 SIC CODE			
05 CITY	06 STATE				
III. OFF-SITE GENERATOR(S)	·	<u> </u>			
OI NAME	<u> </u>	02 D+8 NUMBER	01 NAME		02 D+8 NUM
Residents of Mari	lla				· · · · · · · · · ·
US STREET ADDRESS (P.O. Box, RFD #, erc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	· · ·	04 SIC (
05 CITY	06 STATE				
Marilla	NY			06 STATE	07 ZIP CODE
01 NAME		02 D+8 NUMBER	01 NAME		
03 STREET ADDRESS (P.O. BOL RFD &, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC C
05 CITY	IOS STATE				
		OV ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
IV. TRANSPORTER(S)					-
	(i	02 D+8 NUMBER	01 NAME	·	02 0 + 0 + 11 +
Kesidents of Maril	la				
D3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Bas, RFD . etc.)		04 SIC C
D5 CITY	IOG STATE	07.710.000			
Marilla	NY		05 CITY	06 STATE	07 ZIP CODE
DI NAME		02 D+8 NUMBER	01 NAME		
3 STREET ADDRESS (P.O. Box, RFD #, MC.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC C
25 CTTY					
	UGSIAIE	07 ZIP CODE	05 СПУ	06 STATE	07 ZIP CODE

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	POTENTIAL H	IAZARDOUS WASTE SITE		
SEPA	SITE IN			NY
	PART 10 - PA	ST RESPONSE ACTIVITIES	•	
PAST RESPONSE ACTIVITIES		02.0475	03 AGENCY	
01 CA WATER SUPPLY CLOSED 04 DESCRIPTION	• • • • • • • • • • • • • • • • • • •			
	NUNE		03 AGENCY	
01 D 8. TEMPORARY WATER SUPPLY PRO 04 DESCRIPTION	h Da a			
	MAR	02 DATE	03 AGENCY	
01 C. PERMANENT WATER SUPPLY FRO 04 DESCRIPTION				
CONTRACTORIAL REMOVED	NUNE	02 DATE	03 AGENCY	······································
04 DESCRIPTION	MINK	· · ·	•	
01 D E. CONTAMINATED SOIL REMOVED		02 DATE	03 AGENCY	
04 DESCRIPTION	- NICKIG ,			
01 D F. WASTE REPACKAGED		02 DATE	03 AGENCY	
	NONE			
01 C G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION		02 DATE	03 AGENCY	
	NONE			
01 D H. ON ST 2 HINGAL 04 DESCRIPTION		02 DATE	03 AGENCY	
L.	ANDFIEL OF	PERATION - CURRENT	-	
01 L IN SITU CHEMICAL TREATMENT 04 DESCRIPTION		. 02 DATE	U3 AGENGT	
	NONE	02 DATE	03 AGENCY	,
04 DESCRIPTION	NUNIC			
01 CI K IN SITU PHYSICAL TREATMENT		02 DATE	03 AGENCY	/
04 DESCRIPTION	NONE			
01 L ENCAPSULATION		02 DATE	03 AGENC	1
04 DESCRIPTION				а,
	NONE.	02 DATE	03 AGENC	<b>V</b>
04 DESCRIPTION	, ,			
	None	02 DATE		<u></u>
04 DESCRIPTION	_			· ·
	NONE			<u> </u>
01 O. EMERGENCY DIKING/SURFACE W 04 DESCRIPTION	ATER DIVERSION	02 DATE	03 AGENC	Y
	NOWE		02 ACENC	·
01 D. P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	, 10-1, <b>1</b>	UZ DATE		··· <u></u>
	NUNE	02.0475		~
01 D Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	le car ste	UZ UAIG	. US AGENC	· ·
	NONE		·	· <u> </u>

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	POTENTIAL HAZARD	OUS WASTE SITE	1	
SFPA	SITE INSPECTI	ON REPORT		MI
	PART 10 - PAST RESP	PONSE ACTIVITIES		<u> </u>
PAST RESPONSE ACTIVITIES		• • • •		
01 D R. BARRIER WALLS CONSTRUCTED	02 DA	TE	03 AGENCY	· ·
04 DESCRIPTION	A c Amia			
	NO N.C.	·	02 ACENCY	
01 DI S. CAPPING/COVERING 04 DESCRIPTION CUIZE	ENT OPERATIONS	INCINDE DAIL	V CAPPIN	G / LOVERING
	RODE OF REF	USC INC INT	y Child	
01 D T. BULK TANKAGE REPAIRED	02 DA	πε	03 AGENCY	· · · · · · · · · · · · · · · · · · ·
04 DESCRIPTION	•	· · ·		
	NONR			
	02 DA		03 AGENCY	
	ALLANE			
OT CLV BOTTOM SEALED	02 DA		03 AGENCY	
04 DESCRIPTION				
•	NUNE			· · · · · · · · · · · · · · · · · · ·
01 DXW. GAS CONTROL	02 DA	TE 3/2/2	03 AGENCY	NYSIDEC-KES.9
04 DESCRIPTION GAS VENO	TING STRUCTURE	5		
Entere.		- 2/82		NVSDER - REC 9
01 GEX. FIRE CONTROL	02 04	ME	US AGENUT	
CONTINGENCY	PLANUS			
	02 DA		03 AGENCY	
04 DESCRIPTION				
<u></u>	NONE	· · · · · · · · · · · · · · · · · · ·		
	02 DA	ATE	03 AGENCY	<u> </u>
	NONE			• •
01 TY 1 ACCESS TO SITE BESTRICTED	02.04	ATE 3/82	03 AGENCY	MISDRY -REA9
04 DESCRIPTION		· · · · · · · · · · · · · · · · · · ·		
OPÉRATIKA	DAUX GOURES.	- LIMITED ACC	635/056	OF LANDFILL
01 2. POPULATION RELOCATED	02 D/	ATE	03 AGENCY	
04 DESCRIPTION				
		A TE	02 4 6510	,
04 DESCRIPTION	02.07	···c	US AGENCI	- <u></u>
•				
				· • • • • • • •
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			•	
	• • • • • • • • • • • • • • • • • • •			
IIL SOURCES OF INFORMATION (Crossocre re	lerences, e.g., sisie lies, sample analysis,			40
ENGILLER'S REPORT	AND PLAN OF O	WERATION FOR T	own of	MANICLA CANDALL
Comments FROM	NYS DEC REGU	av 9		•

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SEPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION	1. IDENTIFICATION 01 STATE 02 SITE NUMBER
I. ENFORCEMENT INFORMATION		······································
01 PAST REGULATORY/ENFORCEMENT ACTIO	BYES DINO	
02 DESCRIPTION OF FEDERAL, STATE, LOCAL	REGULATORY/ENFORCEMENT ACTION	
In order to a must apply for Department of prepares facilities The renewal of inspection report noted in this a Past Facility problems in the with the heaving poor covering of refuse in some 1 land ; poor veg compliance repor Leachate	perate the landfill, the Town a state permit as designate Environmental Conservation (Dec j inspection reports to monitor the DEC permit is based on the s and compliance with any inad eport. y Inspection Reports have indic southeast and north east corne the landfill in the northwest corne orations); inadequate grading to petative cover; and windblown ts inspect these areas:	of Marilla d by the D. The DEC the landfill. ne facility equate areas. rated leachate rs of the site st corner; oner (visible e donin the litter. The
Cover Grading' Separation Dis Nuisance (cod	stances itions	
Operation Con Safety and He Access Contr	trol Palth d	, <b></b> 4

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

Facility Inspection Reports - DEC.

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## 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. The surface water data were rated as inadequate for an observed release because upgradient/downgradient there were inadequate data to make an comparison. The downgradient samples were taken from the north, east, and south drainage ditches which surround the landfill. Based on this information it is recommended that an upgradient surface water sample be collected, and analyzed as part of the Phase II site investigation. Samples should be analyzed for organic and inorganic constituents.

Adequate data are available to score an observed release for the groundwater route as many metal constituents were identified which exceeded NYS Standard and were present above background concentrations. However, samples were not analyzed for organic compounds; therefore, it is recommended that samples be collected, as part of the Phase II site investigation, from all groundwater wells. These samples should be analyzed for organic constituents.

## 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.

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- 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:

- Groundwater A groundwater sample will be taken from each of the five existing wells. The groundwater samples will be analyzed for HSL organics and metals.
- Surface Water One surface water sample will be taken upgradient of the site and one surface water sample will be taken downgradient of the site. The upgradient sample will be taken from the south side of the Access Road before the road reaches the inactive landfill area. The downgradient sample will be taken trom the drainage ditch immediately after the two downgradient drainage ditches converge. The surface water samples will be analyzed for HSL organics and metals.

Air - An air monitoring survey with an HNu meter is recommended to test the air quality above the site.

## TASK DESCRIPTION

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

#### COST ESTIMATE

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

## QUALITY ASSURANCE PLAN

The Quality Assurance Plan will be submitted as a separate document.

## TABLE VI-1

## ASSESSMENT OF DATA ADEQUACY

HRS Data Requirement	Comments on Data
Observed Release	
Groundwater	Adequate to score an observed release
Surface Water	Inadequate to score an observed release
Air	Adequate for HRS score
Route Characteristics	
Groundwater	Adequate 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

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VI-3

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## TABLE VI-2 PHASE II WORK PLAN - TASK DESCRIPTION TOWN OF MARILLA LANDFILL SANITATION

Task	I	Description of Task
II-A	Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B	Conduct Geophysical Studies	No further studies necessary.
II-C	Conduct Boring/Install Monitoring Wells	No well installation required.
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	No soil sampling required.
	Soil samples from surface soils	No further studies necessary.
	Soil samples from auger holes/test pits	No further studies necessary.
	Sediment samples from surface water	No further studies necessary.
	Groundwater samples	Five groundwater samples are to be collected and analyzed for HSL organics and HSL metals.
	Surface water samples	Two surface water samples are to be collected and analyzed for HSL organics and HSL metals.
	Air samples	Using the HNU, determine the presence of organics.
	Waste samples	No further studies necessary.

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VI-4

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

	Task	Description of Task
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 Phase I report, 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.

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VI-5

#### NEW YORK STATE DEFARTMENT OF ENVIRONMENTAL CONSERVATION PHASE II INVESTIGATION COST ESTIMATE

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SITE 1D #: 9150 <b>93</b>				Ti	ABLE VI-3	8						
SITE NAME: TOWN OF MARILLA LA CONSULTANT: ENGINEERING SCIET	ANDF ILL NCE	E	ESTIMATEI	O HOURS (	OF DIRECT	TECHNIC	AL LABOR	(DTL.)			TOTAL	
TASK DESCRIPTION	 I.1	L2	L3	L_4	L5	L6	L7	L.8	L9	L10	HOURS	COST
II-A UPDATE WORKPLAN		24	4	12	4	60	32	40	32	52	264	3696.80
II-B CONDUCT GEOPHYSICAL STUDIES	Ö	Ō			1	Ō		0	· 0	Ó	0	0.00
II-C CONDUCT BORING/INSTALL		Ŭ			,	Ŭ		Ü	Ŭ	Ŭ.	0 O	0.00
MONITORING WELLS											Ŭ	0.00
AUGER HOLES											· ú	0,00
II-E SAMPLING AND ANALYSIS					•							0.00
Soil samples from borings						0		Ú			0	0.00
Soil samples from											Ŭ	0.00
surface soils											Ŭ	0.00
Soil samples from auger												
holes/test pits Sediment samples trom		U				Ŭ		Ü			Ũ	0.00
surface water						40		40			82	1134.40
Groundwater samples		2				40						0/7 00
Surface water samples		2				8		8			18	267.20
Air samples											Ú	0.00
Waste sample≡											Ŭ	<b>0.0</b> 0
11-F CALCULATE FINAL HRS SCORE	8	16	. 4	2	8	48	40	10	8	8	158	2528.20
II-G CONDUCT SITE ASSESSMENT	2	40	4		8	72	40	8	60	100	334	4450.00
II-H PROJECT MANAGEMENT	4	30	4		16			-4		48	102	1662.40
TOTAL HOURS	18	114	16	14	- 36	228	112	112	100	208		
HOURLY RATE \$	33.40	25.20	22.00	19.70	17.00	15.10	13.30	12.00	9.60	8.60		
DIRECT LABOR COSTS \$	601.20	2872.80	352.00	275.80	612.00	3442.80	1489.60	1344.00	960.00	1788.B¢		
									TOTAL D' INDIREC	TL COSTS T LABOR	COSTS	13739.00 16212.02
									TOTAL LO PROFIT	ABOR COS (15%)	TS	29951.02 4492.65

34443.67

TOTAL PRICE

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

SITE ID #: 915093			TABLE	V1-4	•	•	
SITE NAME: TOWN OF MARILLA LANDFILL CONSULTANT: ENGINEERING SCIENCE TASK DESCRIFTION	DIRECT HOURS	LABOR COST (\$)	SUBCONTR. COSTS \$	SUPP.& EQUIP. \$	MISC. \$	TRAVEL & PER DIEM \$	TOTALS \$
II-A UPDATE WORKPLAN	268	3697		360	200	350	4607.00
II-B CONDUCT GEOFHYSICAL STUDIES	õ	Ŭ	,	õ	0	· 0	0.00
II-C CONDUCT BORING/INSTALL MONITORING WELLS 1I-D CONSTRUCT TEST FITS/	Ŭ	Ō	C	) 0	0	O	0.00 0.00
AUGER HOLES II-E SAMPLING AND ANALYSIS			Ŭ	) (	Ŭ	Ŭ	0.00
Soil samples from borinos	Ō	Ú.					0.00
Soil samples from surface							0.00
soils Soil samples from test pits/ auger boles							0.00
Sediment samples from	Ú	U	ł				0.00
Groundwater samples	82	1134					1134.00
Surface water samples	18	267					267.00
Air samples							0.00
Waste samples							0.00
11-F CALCULATE FINAL HRS SCORE	158	2528		50	75		2653.00
II-G CONDUCT SITE ASSESSMENT	334	4450		500	300	. 165	5415.00
IJ-H PROJECT MANAGEMENT	102	1662		200	150		2012.00
SUBTOTAL INDIRECT LABOR (118% DTL)	962	13738.00 16210.84	0.00	0 1110.00	725.00	515.00	
PROFIT (%) PROFIT (\$)		15 4492.33		5 5 0 55.50	5 36.25	Ŭ	
1'OTAL COSTS (\$)		34441.17	0.0	0 1165.50	761.25	515.00	36882.92

## APPENDIX A REFERENCES

Sources Contexted

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## SOURCES CONTACTED SUMMARY SHEET TOWN OF MARILLA LANDFILL

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Person Contacted/ Location	Telephone #	Date	Information Collected
Glenn Hardcastle USEPA Headquarters, Superfund Office 401 M Street, SW Washington, DC	202–382–5617	12/19/85	Reviewed list of sites to determine if additional information was available.
John Anderson USEPA-Region II EPA Information 345 3rd St., Suite 530 Niagara Falls, NY 1430	716-285-8842	1/6/86	General information from site files.
Charley Hudson NYSDOH Empire State Plaza Corning Tower Albany, NY 12237	518-474-2121	12/30/85	Draft Reports.
Kevin Walters NYSDEC-Div. of Environmental Enforcement 50 Wolf Road Albany, NY 12233	518–457–4346	11/20/85	Reviewed list of sites to determine legal actions to taken.
Walt Demick NYSDEC-Div. of Solid & Haz. Waste 50 Wolf Road Albany, NY 12233	518-457-0639	11/19/85	General information from site files.
Bob Hannaford NYSDEC-Div. of Water SPDES Files 50 Wolf Road Albany, NY 12233	518–457–6716	11/20/85	Reviewed SPDES files for permit numbers and condi- tions.
Val Washington NYS - Dept. of Law, Attorney General's Of Empire State Plaza Albany, NY 12233	518-473-3105 fice	12/16/85	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.

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## SOURCES CONTACTED SUMMARY SHEET ED BALL SANITATION

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Person Contacted/ Location	Telephone #	Date	Information Collected
Jeff T. Lacey Peter Burke Glenn Bailey NYS - Div. of Environmental Enforcem 600 Delaware Ave. Buffalo, NY 14202	716-847-4582 ent	12/27/85 1/7/86	Reviewed list of sites to determine legal actions taken.
Peter Buechi Ahmad Tayyebi Bob Mitrey Larry Clare NYSDEC - Region 9 Div. of Solid & Haz. W 600 Delaware Ave. Buffalo, NY 14202	716-847-4585 aste	11/14/85	Collected information from site files.
Lou Violanti NYS - Regional Dept. of Health 585 Delaware Ave. Buffalo, NY 14202	716-847-4500	11/15/85	Sent site information to Peter Buechi.
Henry Sondonato Robert Armbrust Dick Dybowski Larry Stiller Jackie DiPronio NYSDEC - Region 9 Division of Air 600 Delaware Ave. Buffalo, NY 14202	716–847–4565	11/15/85	Air emissions permits for sites.
Mike Wilkenson Jim Sneider NYSDEC - Region 9 Div. of Fish & Wildlif 600 Delaware Ave. Buffalo, NY 14202	716–847–4600 e	11/14/85	Endangered species informa- tion.
Mike McMurray NYSDEC - Region 9 600 Delaware Ave. Buffalo, NY 14202	716-847-4551	1/8/86	Wetlands and flood zone information.

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## SOURCES CONTACTED SUMMARY SHEET ED BALL SANITATION

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Person Contacted/ Location	Telephone #	Date	Information Collected
Marion Pfohl Spencer Schofield Erie and Niagara County Regional Planning Board 3103 Sheraton Dr. Amherst, NY 14226	716-837-2035 Y	12/20/85	Census data, general site information.
Tony Voell Don Campbell Erie County - Division of Environmental Contro 95 Franklin St. Buffalo, NY	716-846-6271 ol	11/14/85	Collected information from Erie County site files.
Ron Koczaja Erie County Health Department 95 Franklin St. Buffalo, NY	716-846-7677	11/25/85	General information.
Russell Webster Paul Sharpe Town of Marilla 11740 Two Rod Rd. Marilla, NY 14101	716–652–7311	12/10/85	Site interview - ownership, disposal practices, etc.

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## GENERAL REFERENCES*

- 14. LaSala, Groundwater Resources of the Erie-Niagara Basin, New York, 1968
- 15. NYS Department of Environmental Consideration, Ambient Water Quality Standards and Guidance Values, July 24, 1985
- 16. NYSDEC Site Inspection Reports, 1980-85 (Samples)
- 17. NYS Museum and Science Service Bedrock Map and Quaternary Map, 1970

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

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# GROUND-WATER RESOURCES OF THE ERIE-NIAGARA BASIN, NEW YORK

REF. 14



Prepared for the Eri-Niggara Basin Regional Water Resources Planning Board

## by

## A. M. La Sala, Jr.

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

## in cooperation with

THE NEW YORK STATE CONSERVATION DEPARTMENT DIVISION OF WATER RESOURCES

## STATE OF NEW YORK CONSERVATION DEPARTMENT WATER RESOURCES COMMISSION

Basin Planning Report ENB-3 1968

Matter         Mater         <		· · · · · · · · · · · · · · · · · · ·		Year	-					Altitude	Water	level		Estimated		
Set-Given         Willings of Earl Aurors (96)         Dr. $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$ $1/2$	Well number	County	Ovmer	pie- ted	of well	of well (feet)	Diameter (Inches)	to to bedrock (feet)	Water-bearing material	above sea level (feet)	Below land surface (feet)	Date	Method of llft	pumpaga or flow (gallons per day)	Use	Remorks
24-49-1         de.         L. Geffrey         155         0:1         45,3         6         40         6.         80         17,3         7-34         Jat         100         0         915         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925         925 <th< td=""><td>246-836-4</td><td>Erie</td><td>Village of East Aurora</td><td>1961</td><td>Drl</td><td>r122</td><td>12</td><td></td><td>Sand and gravel</td><td>895</td><td>r7</td><td>5-16-61</td><td>Tur</td><td>250,000</td><td>PS</td><td>iron; screen, 12-inch diameter, 6-gage slot, 107-122 ft; gravel packed; pumping rate 490 gpm.</td></th<>	246-836-4	Erie	Village of East Aurora	1961	Drl	r122	12		Sand and gravel	895	r7	5-16-61	Tur	250,000	PS	iron; screen, 12-inch diameter, 6-gage slot, 107-122 ft; gravel packed; pumping rate 490 gpm.
24.4443         6.         5. Solver         7.5         5.3         7.27.43         Jet         1r         Pp5; used for Lem sprinkling only, p34.443           244.443         6.         6. Seast         1955         0.1         37.1         7         65         6.         65         5.2         7.27.43         Jatt         20         B         Aud.           247-434         Myming         7. Neter         1955         0.1         38.6         6          Sond and gravel         1,140         15.6         8-943         Jatt         D         Aud.           247-4354         Moning         7. Neter         1959         0.1         48.0         6         a-1         Sond and gravel         1,140         15.6         8-943         Jatt         D         Bo.         Jatt         Aud.         Neter         195         Monin         Sond and gravel         1,140         15.6         8-943         Jatt         D         Aud.         Sond and gravel         1,140         Jatt         Jatt         Jatt         Aud.         Sond and gravel         1,140         Jatt         Jatt         Aud.         Sond and gravel         1,115         Jatt         Jatt         Jatt         Jatt         Aud. <td>246-843-1</td> <td>do.</td> <td>L. Godfrey</td> <td>1950</td> <td>Drl</td> <td>45.3</td> <td>6</td> <td>a40</td> <td>do.</td> <td>830 '</td> <td>17.9</td> <td>7-26-63</td> <td>Jet</td> <td>100</td> <td>D</td> <td>H2S; gas; clay overlies water-bearing gravel (r).</td>	246-843-1	do.	L. Godfrey	1950	Drl	45.3	6	a40	do.	830 '	17.9	7-26-63	Jet	100	D	H2S; gas; clay overlies water-bearing gravel (r).
24.449-1         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         7         6         6         7         6         6         7         6         6         7         6         7         6         7         6         7         6         7         6         7         6         7         6         7         6         7         6         7         6         7         6	246-848-1	do.	C. Stocking	1953	Drl	27.8	. 6	∎7	Shale	715	5.3	7-27-63	Jat		l r	H ₂ 5; used for lawn sprinkling only.
20/-439.1       Veneter       1957       01       35.6       6        Sand and gravel       1,160       15.6       8-9-43       1et       30       0       Dec.         20/-439.1       fr.       7. Stellart       1958       0rl       28.0       6       40       5hate       96       6.5       8-1-63       5e        0       Irren; H5; vinit is baseling charge frageling         20/-438-1       6.       5.0       6.6       7.90-45       5e       150       0       Anei; H5;       160       0       Anei; H5;       160       0       Anei; H5;       160       1.60       56       7.90-45       5e       150       0       Anei; H5;       160       0       Anei; H5;       160       1.60       Anei; H5;       160       1.60       Anei; H6;       160       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       1.60       56       56       56	246-849-1	do.	G. Bapst	1955	Drl	39.1	7	a5	do.	685	9.2	7-27-63	Jet	250	D	Anel.
32-433-1       Irie       7. Sicher       195       0rl       28.0       6       ale       bais       945       6.5       8-1-63       5        0       irres; hy3; unand backass suster qualit $32-434-1$ do.       0. Engel       1956       0rl       46.1       6       a30       do.       560       6.6       7-10-63       5       200       0       Anal; hy5;       irres; hy5; unand backass suster qualit $327-490-1$ do.       0. Engel       1950       Drl       40.4       8       a30       do.       580       21.1       7-26-63       Ser       200       0       Anal; hree; hy5; unand backass suster qualit $247-492-1$ do.       J. Smith       1950       Drl       40.4       8       a30       do.       590       21.1       7-26-63       Ser       200       0       Anal; hree; hy5; unand backass suster qualit $247-492-1$ do.       J. Smith       1950       Drl       515.7       7        Sen       1.00       0       Anal; hree; hy5; unand backass suster qualit       hy6; firet        Ser       1,00       0       Anal; hree; hy5; unand backass suster qualit       hy6; hree       hy6; hree	247-823-1	Wyoming	P. Hester	1957	Drl	36.6	6		Sand and gravel	1,160	15.6	8- 9-63	Jet	300	D	Do.
287-38-1       do.       A. Schwater       196       Pri       46.1       6       430       do.       660       15.8       7-30-3       50       20       0       Iren; Hy5; yield 10 gpm (r).         287-38-1       do.       0.       Analovich       1950       Dr1       31.4       6       al.0       do.       360       6.6       7-30-43       50       D       Anal; hy5.         287-38-1       do.       J. Smith       1950       Dr1       31.5       7        Sand       300       9.4       7-26-33       Jet       250       D       Anal; hys.; leasting charge fired in Jegrow yield.         284-815-1       do.       J. Smith       1950       Dr1       51.5       7        Sand       300       9.4       7-26-43       Jet       250       D       Anai; rest jet jet jet jet jet jet jet jet jet je	247-833-1	Erle	T, Siclari	1958	Ort	28.0	6	a16	Shale	945	6.5	8- 1-63	Sw		U	fron; $H_2S$ ; unused because water quality is poor.
287-389-1       é.       9. Engel       195       Pri       33.4       é.       al.2       do.       950       6.6       7-30.6-3       for       150       D       Aual; Hy5.         287-360-1       do.       J. Setth       1950       Drl       40.4       8       a30       do.       Big 21.1       7-76-63       Sir       200       D       Aual; Hy5.         287-360-1       do.       J. Setth       1950       Drl       Sir.5       7        Sand       Big 20       J. Setth       1950       Drl       Aual; Hy5.         288-818-1       Meming       Block       a1940       Drl       rike       6        Sand       Big 20       File       Aual; Hy5.         284-818-1       Meming       Block       a1940       Drl       rike       1       Constant       1       Sand       Aual; Hy5.       Aual;	247-836-1	do.	A. Schuster	1961	Drl	46.1	6	e30	do.	860	15.8	7-30-63	Sw	250	Ð	lron; H ₂ S; yield t0 gpm (r).
247-840-1       do.       A. Relovich       1959       Dri       40,4       8       a30       do.       890       21,1       7-26-63       Sur       200       D       Anali iron; Hysting charge fired in the process yield.         247-942-1       do.       J. Smith       1959       Dri       51.5       7        Sand       830       9.4       7-26-63       Jet       250       D       Anali iron; Hyst.         248-932-1       do.       J. Smith       1959       Dri       rill       6        Shate       1,015       Filor        Smit       Jac.       Jac. <td>247-838-1</td> <td>do.</td> <td>D. Engel</td> <td>1956</td> <td>Drl</td> <td>33.4</td> <td>6</td> <td>a12</td> <td>do.</td> <td>960</td> <td>6.6</td> <td>7-30-63</td> <td>Sw</td> <td>150</td> <td>D</td> <td>Anal; H₂S.</td>	247-838-1	do.	D. Engel	1956	Drl	33.4	6	a12	do.	960	6.6	7-30-63	Sw	150	D	Anal; H ₂ S.
247-842-1       do.       J. Snith       1959       Dr1       51.5       7        Sand       830       9.4       7-26-63       Jet       250       D       Anal; iron; HgS.         248-818-1       Wyoning       D. Block       a)50       Dr1       r110       G        Sand       1,005       Fiber        Ser       1,400       D       Anal; iron; HgS.       Anal; operations in proceedings in procedings in proceedings in proceedings in procedi	247-840-1	do.	A, Malovich	1959	Drl	40.4	8	a30	do.	890	21.1	7-26-63	Sw	200	D	Anal; iron; blasting charge fired in well to Improve yield.
288-818-1       Vyoning       0. Block       al940       0-rl       r/40       6        Shale       1,05       Flow        Sw       1,000       0       Anal; sai; sai; sai; sai; sai; sai; sai; sai	247-842-1	do.	J. Smith	1959	Drl	51.5	7		Sand	830	9.4	7-26-63	Jet	250	Ð	Anal; iron; H2S.
248-825-1       do.       N. Fox       1963       Dr1       r112       8       12       do.       1.115       28.8       8-2-63       Sub       150       D       Anal; yield 1 gen (r); weter-bearing zon point weter-bearing zon point weter-bearing zon point weter-bearing zon point weter-bearing zon zon point weter-bearing zon point weter-bear	248-818-1	Wyoming	0. Block	e1940	Drl	r140	6		Shale	1,045	Flow		Sw	1,400	D	Anal; gas; iron; temp 51.2, 8-12-63; flows about 1 gpm, 2.6 ft below LS; occasionally water level has fallen below end of drop pipe, 25 ft below surface while pumping.
248-828-1       do.       V. Deaxley       1957       Pr1 <r112< td="">       8       8       do.       1,210       20,3       8-2-63       Jet       300       D       Anal: yield 1 gpt (r): were-dearing a strend were indiced in the partial were</r112<>	248-825-1	do.	H. Fox	1963	Dr1	r112	8	12	do.	1.115	28.8	8- 2-63	Sub	150	D	Anal; yield 1 gpm (r); water-boaring zone at 34 ft; <u>no lower</u> water-bearing zones.
248-829-1       Erle       0. Whitmam       1958       Dr1       36.4       6       a28       do.       1.150       12.5       8-2.63       Jet       50       D       Anal; H25; yield 2.5 gpm (r).         248-833-1       do.       R. Gilbert       1957       Dr1       35.9       6       33       Sand and gravel; shale       970       11.4       8-1-63       Su       400       D       Anal; H25; yield 2.5 gpm (r).         248-838-1       do.       H. Gezemiki       1954       Dr1       58.9       6       2       Shale       925       21.5       7-30-63       Jet       500       D       Anal; H25; yield 2.5 gpm (r).         248-839-1       do.       H. Gezemiki       1957       Dr1       85.7       8        do.       905       pl4.4       9-23-63       Sub        I       Anal; H25.         -2       do.       do.       1957       Dr1       24.7       12        do.       905       pl4.4       9-23-63       Sub        I       Do.         -3       do.       1958       Dr1       76.8       10        do.       910       p26.9       9-23-63       Sub	248-828-1	do.	W. Deazley	1957	Drl	r112	8	8	do.	'1,210 ,	20,3	8- 2-63	Jet	300	D	Anal; yield   gpm (r); water-bearing zone at 30 ft; attempted to increase yield by blasting at three different depths; occasionally is pumped dry.
248-833-1       do.       R. Gilbert       1957       Drl       35.9       6       33       Sand and gravel; shale       970       11.4       8 - 1-63       Sw       400       D       Anal; H2S.         248-838-1       do.       H. Gazzewski       1954       Drl       S8.9       6       2       Shale       925       21.5       7-30-63       Jet       500       D       Anal; H2S.         248-839-1       do.       Moog Servecentrols, inc.       1957       Drl       S8.9       6       2       Shale       925       21.5       7-30-63       Jet       500       D       Anal; H2S.         -24       do.       Moog Servecentrols, inc.       1957       Drl       24.7       12        do.       905       p14.4       9-23-63       Sub        1       Mai; H2S.         -3       do.       do.       1958       Drl       76.8       10        do.       910       p26.9       9-23-63       Sub        1       H2S.         -4       do.       do.       1958       Drl       76.8       10        do.       910       p26.9       9-23-63       Sub <td>248-829-1</td> <td>Erie</td> <td>0, Whitman</td> <td>1958</td> <td>Dri</td> <td>36.4</td> <td>6</td> <td>a28</td> <td>do.</td> <td>1,150</td> <td>12.5</td> <td>8- 2-63</td> <td>Jet</td> <td>50</td> <td>D</td> <td>Anal; H₂S; yield 2.5 gpm (r).</td>	248-829-1	Erie	0, Whitman	1958	Dri	36.4	6	a28	do.	1,150	12.5	8- 2-63	Jet	50	D	Anal; H ₂ S; yield 2.5 gpm (r).
248-838-1       do.       H. Geczewski       1954       Dri       58.9       6       2       Shale       925       21.5 $7-30-63$ Jet       500       D       Anal; gas.         248-839-1       do.       Moog Servecontrois, Inc.       1957       Dri       85.7       8        do.       905       pH0.4       9-23-63       Sub        I       Anal; gas.         -2       do.       do.       1957       Dri       85.7       12        do.       905       pH4.4       9-23-63       Sub        I       Do.         -3       do.       do.       1958       Dri       76.8       10        do.       910       p-23-63       Sub        I       Do.         -4       do.       40.       do.       1962       Dri       76.8       10          I       T Ticld 10 gpm (r).         248-841-1       do.       A. Struck       1960       Dri       43.8       6       e40       do.       770       17.9       7-26-63       Sw       200       D       Anal; H25; yield 5 gpm (r); biasting of fired in well to increase yield.       eis	248-833-1	do.	R. Gilbert	1957	Drl	35.9	6	33	Sand and gravel; shale	970	11.4	8- 1-63	Sw	400	0	Anal; Iron; H2S.
248-839-1       do.       Moog nervocantrols, Inc.       1957       0rl       85.7       8        do.       905       pl0.4       9-23-63       Sub        1       Anal; H25.         -2       do.       do.       1957       0rl       24.7       12        do.       905       pl4.4       9-23-63       Sub        1       Bo.         -3       do.       do.       1958       0rl       7.8       10        do.       910       p23-63       Sub        1       Bo.         -4       do.       do.       1958       0rl       7.8       10        do.       910       p23-63       Sub        1       Bo.         -4       do.       do.       1960       0rl       7.8       10       0rl       7.8       7.8       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2       7.9       7.2 <td< td=""><td>248-838-1</td><td>do.</td><td>H. Gaczewski</td><td>1954</td><td>Drl</td><td>58.9</td><td>6</td><td>2</td><td>Shale</td><td>925</td><td>21.5</td><td>7-30-63</td><td>Jet</td><td>500</td><td>D</td><td>Anal; gas.</td></td<>	248-838-1	do.	H. Gaczewski	1954	Drl	58.9	6	2	Shale	925	21.5	7-30-63	Jet	500	D	Anal; gas.
-2       do.       ido.       iff       i	248-839-1	do.	Moog Servecontrols, inc.	1957	Drl	85.7	8		do. -	905	p40.4	9-23-63	Sub		I	Anel; H ₂ S.
-3       do.       1958       0'1       76.8       10        do.       910       p26.9       9-23-63       Sub        1       H2S.         -4       do.       do.       1962       17       725       18       alo       do.       910          T       Ylaid 10 gpm (r).         248-841-1       do.       R. Struck       1960       0'1       43.8       6       e40       do.       770       17.9       7-26-63       Sw       200       D       Anal; iron; H2S; gas; yleid 3 gpm (r).         248-844-1       do.       R. Struck       1960       0'1       43.8       6       e40       do.       770       17.9       7-26-63       Sw       200       D       Anal; iron; H2S; gas; yleid 3 gpm (r).         248-844-1       do.       Spring Perch Co., Inc.       1936       D'1       19.7       6       als       do.       740       8.5       7-26-63       Sw       250       D       Anal; H2S; yleid 3 gpm (r): blasting or fired investing registry inded 2 gpm; encicience servield.         248-850-1       do.       Spring Perch Co., Inc.       1936       Dr1       r40       5        do.       1,190	-2	do.	do.	1957	Drl	24.7	12		do.	905	p14.4	9-23-63	Sub		I.	Do.
-4       do.       do.       1962       Dr1       r225       18       alo       do.       910          T       Yield 10 gpm (r).         248-841-1       do.       R. Struck       1960       Dr1       43.8       6       a40       do.       770       17.9       7-26-63       Sw       200       D       Anal; iron; H2S; gas; yield 3 gpm (r).         248-844-1       do.       D. Eaton       1959       Dr1       19.7       6       als       do.       770       17.9       7-26-63       Sw       200       D       Anal; iron; H2S; gas; yield 3 gpm (r).         248-844-1       do.       D. Eaton       1959       Dr1       19.7       6       als       do.       740       8.5       7-26-63       Sw       250       D       Anal; H2S; yield 3 gpm (r). blasting or fired in well to increase yield.         248-850-1       do.       Spring Perch Co., Inc.       1936       Dr1       r40       S        do.       1205       9.1       6-9-64       Sw       150       D        also in use.       also	-3	do.	do.	1958	Orl	76.8	10		do.	910	p26.9	9-23-63	Sub			H ₂ S.
248-841-1       do.       R. Struck       1960       Dr1       43.8       6       e40       do.       770       17.9       7-26-63       Sw       200       D       Anal; iron; H2S; ges; yield 3 gpm (r).         248-844-1       do.       D. Eaton       1959       Dr1       19.7       6       al5       do.       740       8.5       7-26-63       Sw       250       D       Anal; iron; H2S; yield 5 gpm (r); blasting of fired in well to increase yield.         248-850-1       do.       Spring Perch Co., Inc.       1936       Dr1       r40       S        do.       580       p21.0       3-20-63       Sw       10,000       I       Anal; H2S; yield 29 gpm; another similitation rease yield.         248-850-1       do.       Spring Perch Co., Inc.       1936       Dr1       r40       S        do.       580       p21.0       3-20-63       Sw       150       D         249-809-1       Wyoming       H. Meeder        Dug       13.8       24        Sand and gravel       1,205       9.1       6-9-64       Sw       150       D         249-801-1       do.       C. Bailey       1963       Dr1       54.6       6	-4	do.	do.	1962	Drl	<del>r</del> 225	18	a10	do.	910					т	Yield 10 gpm (r).
248-844-1       do.       0. Eaton       1959       Dr1       19.7       6       al5       do.       740       8.5       7-26-63       Sw       250       D       Anal; H25; yield 5 gpm (r); blasting of fired in well to increase yield.         248-850-1       do.       Spring Perch Co., Inc.       1936       Dr1       r40       5        do.       580       p21.0       3-20-63       Sw       10,000       I       Anal; H25; yield 29 gpm; another similiation use.         249-809-1       Wyoming       H. Meeder        Dug       13.8       24        Sand and gravel       1,205       9.1       6- 9-64       Sw       150       D         249-810-1       do.       C. Bailey       1963       Dr1       54.4       6        do.       1,190       21.6       6-10-64       Sw       150       D         249-810-1       do.       C. Bailey       1963       Dr1       54.4       6        do.       1,190       21.6       6-10-64       Sw        A         249-810-1       do.       M. Dersam        Dug       10.5       36        Till       1,180       4.6       6-10-64	248-841-1	do.	R. Struck	1960	Drl	43.8	6	a40	do.	770	17.9	7-26-63	Sw	200	D	Anal; iron; H ₂ S; gas; yield 3 gpm (r).
248-850-1       do.       Spring Perch Co., Inc.       1936       Drl       r40       5        do.       580       p21.0       3-20-63       Jet       10,000       I       Anal; H2S; yield 29 gpm; another similiator         249-809-1       Wyoming       H. Meeder        Dug       13.8       24        Sand and gravel       1,205       9.1       6-       9-64       Sw       150       D         249-810-1       do.       C. Bailey       1963       Drl       54.4       6        do.       1,190       21.6       6-10-64       Jet       100       D         -2       do.       V. Dersam        Dug       10.5       36        Till       1,180       4.6       6-10-64       Sw        A         249-818-1       do.       K. Mobloch        Dug       10.5       36        Till       1,180       4.6       6-10-64       Sw        A         249-818-1       do.       K. Mobloch        Drl       58.6       4       a10       Shale       1,075       23.5       8-12-63       Jet       100       Anal; yield 3.5 gpm (est).	248-844-1	do.	0. Eaton	1959	Dri	19.7	6	a15	do.	740	8.5	7-26-63	Sw	250	D	Anal; H ₂ S; yield 5 gpm (r); blasting charge was fired in well to increase yield.
249-809-1       Wyoming       H. Meeder        Dug       13.8       24        Sand and gravel       1,205       9.1       6-9-64       Sw       150       D         249-810-1       do.       C. Beiley       1963       Drl       54.4       6        do.       1,190       21.6       6-10-64       Jet       100       D         -2       do.       W. Dersem        Dug       10.5       36        Till       1,180       4.6       6-10-64       Sw        A         249-818-1       do.       G. Knobloch        Drl       58.6       4       a10       Shele       1,075       23.5       8-12-63       Jet       100       D       Anel; yield 3 gpm (est).         249-823-1       do.       L. Green       1963       Drl       81.5       8       19       do.       1,260       13.3       8-9-63       Jet       400       D       Anel; yield 1.5 gpm (r).	248-850-1	do.	Spring Perch Co., Inc.	1936	Drl	r40	5		do.	580	p21.0	3-20-63	Jet	10,000	I	Anal; H ₂ S; yield 29 gpm; another similar well is also in use.
249-810-1       do.       C. Baileý       1963       Drl       54.4       6        do.       1,190       21.6       6-10-64       Jet       100       D         -2       do.       W. Dersam        Dug       10.5       36        Till       1,180       4.6       6-10-64       Jet       100       D         249-818-1       do.       G. Knobloch        Drl       58.6       4       a10       Shale       1,075       23.5       8-12-63       Jet       100       D       Anal; yield 3 gpm (est).          249-823-1       do.       L. Green       1963       Drl       81.5       8       19       do.       1,260       13.3       8-9-63       Jet       400       D       Anal; yield 1.5 gpm (r).	249-809-1	Wyoml ng	H. Meeder		Dug	13.8	24		Sand and gravel	1,205	9.1	6- 9-64	Sw	150	D	
-2       do.       V. Dersem        Dug       10.5       36        Till       1,180       4.6       6-10-64       Sw        A         249-818-1       do.       G. Knobloch        Dr1       58.6       4       a10       Shale       1,075       23.5       8-12-63       Jet       100       D       Anal; yield 3 gpm (est).          249-823-1       do.       L. Green       1963       Dr1       81.5       8       19       do.       1,260       13.3       8-9-63       Jet       400       D       Anal; yield 1.5 gpm (r).	249-810-1	do.	C. Belleý	1963	Drl	54.4	6		do.	1,190	21.6	6-10-64	Jet	100	Ð	
249-818-1 do. G. Knobloch Dr1 58.6 4 al0 Shale 1,075 23.5 8-12-63 Jet 100 D Anal; yield 3 gpm (est). 249-823-1 do. L. Green 1963 Dr1 81.5 8 19 do. 1,260 13.3 8-9-63 Jet 400 D Anal; yield 1.5 gpm (r).	-2	do.	W. Dersam		Dug	10.5	36		TIII	1,180	4.6	6-10-64	Sw		A	
249-823-1 do. L.Green 1963 Drl 81.5 8 19 do. 1,260 13.3 8-9-63 Jet 400 D Anal; yield 1.5 gpm (r).	249-818-1	do.	G. Knobloch		Drl	58,6	4	a10	Shale	1,075	23.5	8-12-63	Jet	100	D	Anal; yield 3 gpm (est).
	249-823-1	do.	L. Green	1963	Drl	81.5	8	19	do.	1,260	13.3	8- 9-63	Jet	400	D	Anal; yield 1.5 gpm (r).

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



Henry G. Williams Commissioner

July 24, 1985

## HEHORANDUM

TO: Bureau Directors, Regional Water Engineers, Section Chiefs

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

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

## I. Purpose

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

## II. Discussion

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

## III. Guidance

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

In Daniel

2 Daniel M. Barolo, Er Director Division of Water

Attachments cc: Dr. Banks Mr. Pagano Nr. Mt. Pleasant Regional Engineers for Environmental Quality Ms. Chrimes TOWN OF MARILLA OFFICE OF THE TOWN CLERK MARILLA, NEW YORK 14102

Ć,

REF. 16 .662-936 HKY File: 15522

November 30, 1982

( )

Mr. Robert J. Mitrey, Assoc. Sanitary Engineer New York State Department of Environmental Conservation 600 Delaware Avenue Buffalo, New York 14202

Dear Sir:

Enclosed please find a list of items completed or partially complexed at the Marilla Sanitary Landfill, Job No. 15522, as compiled by our Highway Superintendent, Russell Webster.

- Installation of a 10" drainage pipe on the south side of Landfill as per drawings.
- Seeding of east slope and moving ditch as per drawings.
- Covering of 75% of west side with 18" of clay cap.
- 4. Installation of a new roadway across top of hill to dump site being used.

Very truly yours,

alkani K. Holges

Katherine R. Hodges Town Clerk Town of Marilla, New York

cc: Russell Webster

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tentes III de la companya de la comp	Gordman	·		:5522	
				EXPIRATION D	ATE
Under the Envir	commental Conservation Law, Article	27, Iffe 7, Pa	11 360	•	LEMIT NO
П со		LISSUE	REISSUA	NCE	•
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PERMIT ISSUED TO	LADDRESS OF PERMITT	EE		TELEPHONE NO	).
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LOCATION OF PROJECT		Environmental Cons	servation Regional Off		<u>1350</u>
Town	County	Dominan O	Duffer I -		
DESCRIPTION OF PROJECT	5118	Kagion y	- BULFALO		
Marilla Sanitaru l	tandfill 🛰 .		Ruga Wahetas	- Richard	Cunt.
	CENERAL CO				
	GENERAL CO				
1. The permittee shall file i	in the office of the Environmental Conser-	4. All work carr	ied out under this per	mit shall conform	to the appro
work at least 48 hours in	advance of the time of commencement and	plans and spi Department or	ecifications, Any ame f Environmental Cons	ervation prior to	their impler
shall also notify said off	fice promptly in writing of the completion	tation.		•	
of the work.		5. The permittee	is responsible for	obtaining any oth	ner permits,
2. The permitted work shall	be subject to inspection by an authorized artment of Environmental Conservation who	this project.	ements and rights-or-	way which may	De required
may order the work suspen	ided if the public Interest so requires.	6. By acceptance	e of this permit, the p	ermittee agrees ti	nat the permi
3. As a condition of the issue	uance of this permit, the applicant has ac-	contingent up	on strice compliance	e with Part 360	and the spe
cepted expressly, by the responsibility for all dama	execution of the application, the full legal	Conditions. Al	ny variances granteo c to Part 360 must be in	writing and attac	or Environme hed heret <b>o.</b>
and by whomever suffered,	, arising out of the project described herein				
and has agreed to indemni actions, damages and cos	ify and save harmless the State from suits, its of every name and description resulting			· ·	
from the said project.					
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•	SPECIAL UN				· •
i. Only municipal for disposal at yo may be accepted.	refuse and non-industrial constrained and non-industrial and sour facility. No industrial a	onstruction a aste, hazard	and demolition long waste, s	n debris-is septage, or	accepta sludg <b>a</b>
<ul> <li>1. Only municipal</li> <li>for disposal at you may be accepted.</li> <li>2. The landfill s submitted by Talla</li> </ul>	refuse and non-industrial co our facility. No industrial i hall be operated in accordance umy, Van Kuren, Gertis and Ass	construction a vaste, hazard ce with the e sociates on F	and demolition long waste, s angineering pl lebruary 25, 2	n debris is septage, or lans and re 1982, and a	accept: sludga port as
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November 6, 1981

Marilla Landfill

Facility /15522

16

Mr. Micholas J. Pinto Tallamy, Van Kuren, Gertis and Thielman 70 Linwood Avenue P.O. Box 151 Orchard Park, New York 14127

Dear Mr. Pfnto:

In reiteration of our meeting of November 4, 1981, on discussion of the preliminary engineering report as submitted for the Town of Marilla, the following items need clarification:

Re:

1. The boring logs do not indicate that a well screen was placed on MW#1.

2. MW#1 was placed into bedrock. The bentonite seal was placed at 7.5 feet and up. Bedrock coring was initiated at 19.0 feet. This leaves a gap of 7.5 feet of soil between the plug and bedrock through which perched water can enter the bedrock layer.

3. According to the plan, MW#2 was placed inside the fill area. However, the boring log indicated no refuse. If located on the edge of the fill area, horizontal separation distance should be obtained.

4. The topographic map for the site must be updated. The limits of the fill area should be shown as well.

5. A revised final topographic map should be submitted.

6. The hydraulic conductivity was estimated. It was not determined by testing.

7. The location at which the stream sample was taken was not stated.

8. This Department concurs with the recommendations sited in the report. A final decision relative to the need for a leachate collection system will be made upon submission of the next monitoring well results. The sampling to be conducted will include the following parameters: pH, alkalinity, BOD, COD, chaprides, conductivity, cyanide, nitrate, nitrite, phenols, dissolved solids,
600 Dolaware Avenue, Buffalo, New York 14202-1073

April 15, 1983

<u>(</u>;;;

Mr. Joseph Foss, Supervisor And Town Board Town of Marilla S-1740 Two Rod Road Marilla, New York 14102

Gentlemen:

#### Re: Marilla Landfill - #15522

On April 12, 1983 Mr. Hintz, of this Department, inspected your · landfill to determine compliance with Part 360. The site was found to be in poor shape as a result of the following violations:

- 1) LEACHATE Leachate is breaking out in minor amounts in the southeast and northeast corner. However, a major volume of leachate is breaking out in the northwest corner, flowing northward and entering a tributary of Little Buffalo Creek.
- 2) COVER The cover on the active fill area in the northwest corner of the site is poor. Refuse protrudes the cover throughout the area and, in some spote, the refuse remains uncovered.
- 3) GRADING The covered fill area in the northwest corner is rough and uneven. In addition, the fill area east of the access road to the sand pile is rough and uneven and water is ponding in spots.
- VEGETATION The east slope of the site needs to be revegetated. In addition, the capped area on the west side of the site should be vegetated to minimize erosion. Some minor erosion of this area has already occurred.
- 5) WINDBLOWN REFUSE Windblown papers litter the drainage ditch on the south and east edges of the site. The woods in the northeast corner are heavily littered. The woods in the northwest corner are also littered with refuse.

TOC, manganese, aluminum, arsenic, barium, cadmium, chromium, copper, iron and lead. Please advise this office as to when the sampling can be accomplished.

The complete application must be submitted to this office on or before January 18, 1982.

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If you have any questions, please contact this office at 716/847-4585.

Very truly yours,

the Street, P.S.

Mobert J. "ftrey, P.E. Associate Sanitary Engineer

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RJM:KRH:las

cc: Mr. D. Campbell, Erie County Department of Environment and Planning

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600 Dalaware Avenue, Buffalo, New York 14202-1073

July 28, 1983

Mr. John R. Poss, Supervisor Town of Marilla Marilla, New York 14102

filt: Re: Marilla Landfill \$15822

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Dear Supervisor Foss:

On July 26, 1983 Mr. Hintz of this office reinspected the town landf'll to determine the progress in clean-up of the site. The inspection indicated an improvement, but the following problems still remain:

1. LEACHATE - Leachate is breaking out at the toe of the slope in the northwest corner of the slope. The flow from this breakout is substantial.

2. PROTRUDING WASTE - Waste is protruding the cover in the entire active fill area. In spots, the waste is nearly uncovered.

3. VEGETATION - The east half of the site needs to be seeded and mulch applied once the final grading is completed.

4. WINDBLOWN WASTE - Windblown papers and refuse litter the woods in the northwest and northeast corners of the site. It is also littered on the east slope and near the access road in the southeast corner.

5. SALVAGE PILE - The metal salvage site is excessive in size. The volume of salvage material should be removed.

Daily operations still need to be improved. Furthermore, it appears that the clay cap will not alleviate the leachate problem. At this time, I feel it would be appropriate to discuss the above items in detail. It is our intent to permit your site as soon as possible, providing the above problems are addressed.

Should you have any questions, please contact this office at (716)847-4585.

Very truly yours, Robert J. Mitrey, P.E. Associate Sanitary Engineer

KRH:vs Enclosure cc: Mr. Kenneth Hall/Jensen, Hall, Ricketts & Marky Mr. Donald Campbell/Erie County DEP

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Mr. Joseph Foss And Town Board 4/15/83 Page 2 ة ) ا

6) WASTE OIL - The waste oil in the barrels next to the shed are leaking. The waste oil should be picked up by a reclaimer and the contaminated soil should be removed and deposited in the landfill.

This Department is concerned about the daily operations. The leachate problems appear to be directly the result of poor operations, inadequate cover, etc. This cannot be tolerated. Therefore, I feel it would be appropriate to meet to discuss solution of these problems.

Please contact me at 716-847-4505 to arrange a meeting.

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Very truly yours,

by LEP

Robert J. Mitrey Associate Sanitary Engineer

Attachment

KH:jar

cc: ECDEP

600 Dolsware Avenue, Buffalo, New York 14202-1073

August 17, 1983

Mr. John Foss Town of Marilla - 5-1740 Two Rod Ruid Marilla, New York 14102

#### Re: Marilla Landfill \$15822

Dear Mr. Foss:

On August 17, 1983, Mr. Hintz of this office met with yourself, your Town Highway Superintendent, and your consultant to discuss the problems at the landfill. Of utmost concern is the leachate problem. Last year we mat and agreed to monitor the leachate problem at the landfill. If the problem remained, abatement action would be initiated. In light of the fact that the clay cap was not completed last fall, one additional year will be granted to monitor the leachate. If leachate continues to be a problem next May or June, abatement action will be required. No further extensions will be granted.

In the meenting, a permit to opprate will be issued. It will be mailed out shortly.

If you have any questions, please contact this office at 874-4585.

Very truly yours,

h-S.Am

John S. Tygert, P.E. Senior Samitary Engineer

KRE:ve

cc: Mr. Peul Elemann/NYSDEC DRA Mr. Don Campbell/Brie County DEP

47-15-1 (11/79) FACILITY NAME LOCATION REGION NEW YORK STATE Easton Is DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID WASTE MANAGEMENT PERSONS INTERVIEWED & TITLES **FACILITY INSPECTION REPORT** SITE KACKED UP - WALKED TO SITE EASTWOOD ROAD - NO PERSONNEL DA ~ LEACHATE 1. Leachate is entering surface water. 2. Leachate is known to be contravening groundwater standards. 3. Refuse is being placed into water. SITE SKETCH/COMMENTS (additional sheets attached 📋 YES 🖙 NO) BURNING 4. Refuse is burning without permit or not under permit conditions. 5. There is evidence of unapproved previous burning. COVER 6. Previous days refuse is not covered. 7. Refuse is protruding through daily, intermediate or final cover. 8. Intermediate or final cover is not in place or improperly applied. GRADING 9. Depressions, ponding, cracked cover, or slopes steeper than 3 to 1 exist. ŝ 10. Vegetative cover is missing or inadequate on completed areas. wije đ 11. Soil crosion or other drainage problems exist. JTO RIVE SEPARATION DISTANCES 12. Refuse is closer than 50 feet to site boundaries. REMARKS 13. Refuse is being placed less than 5 feet above groundwater or bedrock. 14. Refuse is being placed too close to surface water. 32 NUISANCE CONDITIONS KO ADWAY 15. Odors are detectable off site. 4 16. Blowing dust or dirt is a nuisance. 6-17. Papers are uncontrolled or are blowing off-site. 18. Methane gas is known to be leaving the site. 19. Noise is a nuisance off-site. ∢_ ч_ OPERATION CONTROL 1 20, Operation Permit conditions are being violated, (List violations) 5 TIME m 21. Refuse is not sufficiently confined or controlled. يخو 15 22. Refuse is spread in layers thicker than 2 feet. 5 ROND WA 23. Refuse is not compacted or compacted insufficiently. 1 €-24. The working face height is greater than 10 feet. 3-9 25. Equipment on the site is not adequate for proper operation. 5 2 SAFETY AND HEALTH 26. Salvaging is uncontrolled or is creating a nuisance. DATE 5 27. Rodents, insects, birds, or other vectors are not controlled. 0 28. Unsafe conditions or equipment exist. (List items) è V ACCESS CONTROL 2 29. Access to the site is improper, unsafe, or inadequately controlled. 3 30. The site is open without an attendant. X 31. Information about the site is not posted. (e.g., hours of operation) ป 32. Access to the operating area is poor or unsafe. ğ J. OTHER ら М JI_Uncontrolled leachate is visible on, or near the site. 34. The quality of cover material is inadequate. NXKI The working face is steeper than a 3 to 1 slope. 36. Monitoring wells are not operative. 37. Unapproved wastes have been deposited since last inspection. 38. Operator is unfamiliar with site boundaries, operation plan or permit 1 conditions. CARD ក្រភ Ea MARK BOXES WITH "X" ONLY IF ANSWER IS YES **REGIONAL OFFICE COPY** INSPECTOR'S SIGNATURE LOLKEU



## County of Erie

EDWARD J. RUTKOWSKI COUNTY EXECUTIVE

#### DEPARTMENT OF ENVIRONMENT AND PLANNING

May 7, 1985

JOAN E. LORING

ANTHONY T. VOELL DEPUTY COMMISSIONER ENVIRONMENTAL CONTROL

Heilie 15522

Hon. John R. Foss Supervisor, Town of Marilla 1740 Two Rod Road Marilla, New York 14102

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Dear Sir:

On May 2, 1985, Mr. Melvin Szymanski of the Erie County Department of Environment and Planning inspected the Town of Marilla Landfill. Mr. Szymanski was accompanied by Mr. Russ Webster, Highway Superintendent.

Overall condition and operation of the site was generally considered satisfactory. However, the following problems require attention under Title 6, Chapter III of the New York State Compilation of Rules and Regulations:

- The completed area at the northwest corner or the site has been graded, but lacks vegetation. (Part 360.8(b)(1)(ix)).
- (2) The salvage pile at the east end of the site is much too large (Part 360.8(a)(4)).

Mr. Webster advised me that the material will be removed by May 15, 1985.

(3) Leachate is breaking out at the northwest toe of the slope beyond the weir. (Part 360.8(a)(19)).

Mr. Nelson Schnabel of the New York State Department of Environmental Conservation has informed me that the leachate problem is being addressed in a Consent Order dated January 7, 1985. 600 Delaware Avenue, Buffalo, New York 14202-1073

September 4, 1985

The Honorable John Foss Supervisor, Town of Marilla Two Rod Road Marilla, New York 14102

Dear Mr. Foss:

#### Marilla Landfill #15S22

On August 22, 1985, Mr. James Goehrig and this writer of this Department inspected your landfill to determine coupliance with Part 360 and the conditions of your Permit to Operate. Our inspection found the landfill to be in good shape overall. However, the following items are called to your attention:

<u>Londhate</u> - Leachate continues to break out at the toe of the long slope on the north side of the site. The leachate appears to be weak and the volume small.

A red-brown stain is found at the discharge points of the pipe in the northwest corner of the site and at the southeast corner of the site next to the access road.

- 2. Protruding Waste Waste is protruding through the daily cover in the active working area. Waste is also protruding the cover in the old matal salvage area on the northeast edge of the site.
- 3. Vegetation The completed (west and north) slopes in the northwest corner of the site need to be revegetated.

It is hoped that site conditions will continue to improved. Keep up the good work. If you have any questions, please contact this office.

Very truly yours, in

Kevin R. Hintz, P.E. Senior Sanitary Engineer

KEE: vas cc: Erís County DEP Hon. John R. Foss, Supervisor Town of Marilla May 7, 1985 Page 2

Should you have any questions you may contact Mr. Szymanski at 846-6272.

Very truly yours,

Joseph Suissei

E. JOSEPH SCIASCIA, P.E. Sr. Env. Quality Engineer Division of Environmental Control

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EJS:MHS:jk

cc: R. Mitrey, NYSDEC
D. Campbell/M. Szymanski

Enc: Inspection Report



# GEOLOGIC MAP OF NEW YORK

1970

Niagara Sheet



CONTOUR INTERVAL 100 FEET

REF. 17

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### APPENDIX B PROPOSED UPDATED NYS REGISTRY SHEET

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#### NEW YORK STATE DEFARTMENT OF ENVIRONMENTAL CURSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE • INACTIVE HAZARDOUS WASTE DISFOSAL SITE REFORT

CLASSIFICATION CODE: 2a	REGION: 9	SITE COL	E: 915093
NAME OF SITE : Town of Maril STREET ALURESS: Eastwood Road TOWN/CITY:	la d County:		ZIF:
Marilla (Town)	Erie	·	
SITE TYPE: Open Hump- Struc ESTIMATED SIZE: 10 Acre	ture- Lagoon- L S	andfill-X Tr	eatment Fond-
SITE OWNER/OPERATOR INFORMAT	ION:		
CURRENT OWNER NAME Town	of Marilla		
CURRENT DWNER ADDRESS,: 1740 Two Road, Marilla, NY			
OWNER(S) DURING USE: Town of Marilla			
OFERATOR DURING USE Town	of Marilla		
	Two Rod Road Ma		

UPERATOR ADDRESS...... 1740 Two Rod Road, Marilla, NY FERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1965

To Date

SITE DESCRIPTION: Site accepts municipal

wastes from town residents.

The landfill was operated from 1965 until 1970 by Oscar Tankusley and his brother Hubert. From 1970 until the present the Town of Marilla Highway Department operated the site using the area and trench method. The landfill operates only on Saturdays and is estimated to received 95,000 cu. yds. of municipal wastes. No hazardous wastes are known to be disposed of on-site. Leachate outbreaks remain a problem at the northwest p tion of the site. Residents within a half mile  $^{\circ}$  of the site use private groundwater wells which are installed in the aquifer of concern.

#### HAZARDOUS WASTE DISPOSED:

_IYEE_

Confirmed- Suspected

-X __QUANIIIY_(upits)_

None Known

#### ANALYTICAL DATA AVAILABLE:

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

#### CONTRAVENTION OF STANDARDS!

Groundwater- Drinking Water- Surface Water-x Air-

LEGAL ACTION:

TYFE...: State- Federal-STATUS: In Frogress- Completed-

REMEDIAL ACTION:

Froposed- Under Design- In Frogress-X Completed-NATURE OF ACTION: Covering and capping of disposal areas, groundwater and surface water monitoring. GEOTECHNICAL INFORMATIO'': SOIL TYPE: Silty, clay loams GROUNDWATER DEFTH: <a href="https://www.clay.com">https://www.clay.clay.com</a>

#### ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Of the groundwater samples taken, the only observed release was manganese. No upgradient /downgradient relationship was available for surface water.

ASSESSMENT OF HEALTH FROBLEMS:

Insufficient information

#### PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME.: John S. Tygert, P.E. TITLE: Sr. Sanitary Eng.

NAME:: Roberto Olazagasti TITLE: Solid Waste Managemen t Spec.

DATE .: 01/24/85

#### NEW YORK STATE DEPARTMENT OF HEALTH

NAME.: Ronald Tramontano TITLE: Bur. Tox. Stust. Assess.

NAME .: TITLE:

DATE .: 01/24/85

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