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FINAL TECHNICAL REPORT NO. 4

PHASE 2 STAGE 2C
SELECTION OF PREFERRED SITE

AGRICULTURAL ASSESSMENT

ECOLOGICAL SERVICES FOR PLANNING LTD.

H-19

HALTON

ENVIRONMENTAL
ASSESSMENT
LANDFILL COMPONENT OF
SOLID WASTE MANAGEMENT

JUNE 1985

SUMMARY

This report outlines the agricultural impact assessment component of the "Environmental Assessment of the Landfill Component of Halton's Solid Waste Management System". The six Candidate Sites selected in Stage 2B were evaluated during Stage 2C. A Site Plan Area, defined as the actual site area required to accommodate the long term solid waste landfill requirement, was identified during the Stage 2C analysis. Four sub-factors, including (1) Long-Term Agricultural Viability, (2) Land Quality, (3) Large Contiguous Blocks of Agricultural Land and (4) Special Farm Enterprises were used in the agricultural assessment for Stage 2C.

Long-Term Agricultural Viability was considered the most important sub-factor (Level 1) and this ranking produced two groups of Site Plan Areas.

- relatively low impact - A,B,C,F (most preferred for a landfill site).
- relatively high impact - D, E (least preferred for a landfill site).

The remaining sub-factors (Level 2) were given equal weighting and the Site Plan Areas were ranked accordingly. The cumulative ranking obtained on the basis of Land Quality, Large Contiguous Blocks of Agricultural Land and Special Farm Enterprises provides a comparative evaluation of existing conditions within each Site Plan Area.

By combining all of the agricultual sub-factors, the following ranking of the Site Plan Areas is obtained in order of preference with the most preferred site being Site F and the least preferred site being Site E as shown below:

Site Plan Area	Level 1 Sub-factor Ranking	Level 2 Sub-factor Ranking	Order	
F	Low	LLL	1	Most preferred for a landfill site
B	Low	MLM	2	
C	Low	HLM	3	
A	Low	MHM	4	
D	High	MML	5	
E	High	HHM	6	Least preferred for a landfill site

For those sites where an agricultural after-use is desired following landfilling, a number of design criteria have been outlined as a basis for site rehabilitation. As well, issues identified through the public participation program and agency contacts are also addressed.

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1.0 INTRODUCTION

This report presents a detailed evaluation of the six Candidate Sites selected in Phase 2, Stage 2B. The agricultural analysis is based on the Site Plan Areas, which were identified during Stage 2C as the actual area for landfilling within the Candidate Sites. In the case of Site F, the Site Plan Area is the same as the Candidate Site area. The agricultural analysis is based on sub-factors consistent with earlier stages of the overall Environmental Assessment of the Landfill Component of Halton's Solid Waste Management System.

The evaluation also includes a detailed review of the Food Land Guidelines (see Technical Report on Land Use and Planning Assessment) to ensure that the agricultural impact analysis and site selection process is consistent with provincial policy. Public concerns and agency comments from ongoing participation in Stage 2C are also incorporated into the report. General mitigation measures and design specifications for site restoration to an agricultural after-use are discussed as a basis for conceptual design.

A set of four maps are included with the report. Map 1 shows the Enumeration Area boundaries while Maps 2, 3, and 4 show Candidate Areas, Site Plan Areas, and data for the Level 2 agricultural sub-factors for Sites A, B, and C, Sites D and E, and Site F, respectively.

2.0 METHODOLOGY

2.1 Sub-Factors for Site Plan Area Comparison

The sub-factors used in evaluating the Site Plan Areas include Long Term Agricultural Viability, Land Quality, Large Contiguous Blocks of Agricultural Land and Special Farm Enterprises.

The sub-factors were assigned the following priorities:

Level 1 - Long Term Agricultural Viability

Level 2 - Combination of Land Quality, Large Contiguous Blocks of Agricultural Lands, and Special Farm Enterprises. Each of these three factors were treated as having equal weight.

Long Term Agricultural Viability was given a high priority weighting (Level 1) since it addresses the issue of future potential of agricultural production within the surrounding area and reflects recent planning initiatives and development trends. The use of Long Term Agricultural Viability as the most important factor for differentiating Site Plan Areas is argued on the basis of the potential for continued long-term agricultural production. Site Plan Areas which lie within a generally rural environment would be the least preferred for a future landfill site, whereas those located within the immediate rural-urban interface zone, which is characterized by dynamic changes in land use and a movement away from full-time agricultural production, would be the most preferred sites from an agricultural perspective.

The Level 2 group of sub-factors, which were assigned a low priority weighting, provide a direct comparison of on-site conditions among the Site Plan Areas.

2.2 Agency Meetings

Meetings were arranged with representatives from the Ontario Ministry of Agriculture and Food (O.M.A.F.) and the Halton Agricultural Advisory Committee (H.A.A.C.) to solicit input on the sub-factors to be applied and studies to be undertaken in Stage 2C. Refinement of the agricultural sub-factors was discussed with O.M.A.F. in June 1984, and with H.A.A.C. in July 1984. On November 6, 1984, the preliminary findings of the agricultural analysis from Stage 2C of the project were presented to H.A.A.C.

2.3 Site Surveys

Background information was derived from field surveys, the Halton County Soil Report, the Canada Land Inventory, Soil Capability for Agriculture mapping, Enumeration Area data from Statistics Canada and data from assessment rolls and maps.

Onsite soil surveys of Candidate Sites A, B, C, D, E, and F were conducted in order to verify the existing soil and agricultural capability mapping. Soil samples were taken on land within each of the Candidate Sites where the landowners permitted access as follows:

Candidate Sites	Site Plan Areas
A - 12 Samples	A - 5 Samples
B - 7 Samples	B - 3 Samples
C - 12 Samples	C - 3 Samples
D - 7 Samples	D - 3 Samples
E - 3 Samples	E - 2 Samples
F - 4 Samples	F - 4 Samples

Soil survey field sheets are included in Appendix 1 for the Site Plan Areas. Previous studies conducted for portions of Candidate Sites E and F were used as supporting documentation. The soil surveys were also supported by aerial photo interpretation and onsite slope analysis in order to upgrade provincial soil mapping for the Candidate Sites and Site Plan Areas. Soil sample points and soil capability for agriculture are shown on Maps 2, 3, and 4.

A field survey of agricultural land use was conducted within a study area of approximately 0.8 kilometre (0.5 mile) of each Candidate Site, as well as within each Candidate Site and Site Plan Area in the summer of 1984. Information was obtained on farm type and ownership, farm buildings, livestock and types of crops grown. Farms occurring within the 0.8 kilometre study area were assigned a number which is recorded on Maps 2, 3, and 4. Farm inventory sheets for the Site Plan Areas are included in Appendix 2.

2.4 Public Meetings and Workshops

Public meetings and workshops were held from February 1984 to August 1984. The issues and concerns of residents in the areas surrounding the six Candidate Sites were summarized in the June 1984 "Interim Report on Public Concerns and Issues" by Myra Schiff Consultants Limited. Additional landowner information on Candidate Sites A, B and C was also obtained in June 1984 from C.R.O.W. (Concerned Residents Over Wastes), a citizens' group in the Town of Oakville.

3.0 SITE COMPARISON AND RANKING

The relative ranking of individual Site Plan Areas from the standpoint of their agricultural impact was undertaken at two levels. At Level 1, the Site Plan Areas were ranked according to their Long Term Agricultural Viability. This produced two groups of sites, including those most preferred for landfilling and those least preferred for landfilling.

At Level 2, the Site Plan Areas within each of the two groups were given a relative ranking according to the combined impacts of Land Quality, Large Contiguous Blocks of Agricultural Land and Special Farm Enterprises. Each of these sub-factors was given equal weight consistent with the Stage 2B process. Supporting data from the onsite soil survey and farm inventory are contained in Appendix 1 and Appendix 2, respectively.

3.1 Level 1 Sub-factors - Long-term Agricultural Viability

Site Plan Areas A, B and C are located at or near the intersection of Trafalgar Road and Burnhamthorpe Road, in the Town of Oakville; Site Plan Areas D and E are located southeast of First Line and Britannia Road and northwest of Tremaine Road and Britannia Road, respectively, in the Town of Milton; and Site Plan Area F is located at Highway #403, North Service Road, and King Road in the City of Burlington (Map 1).

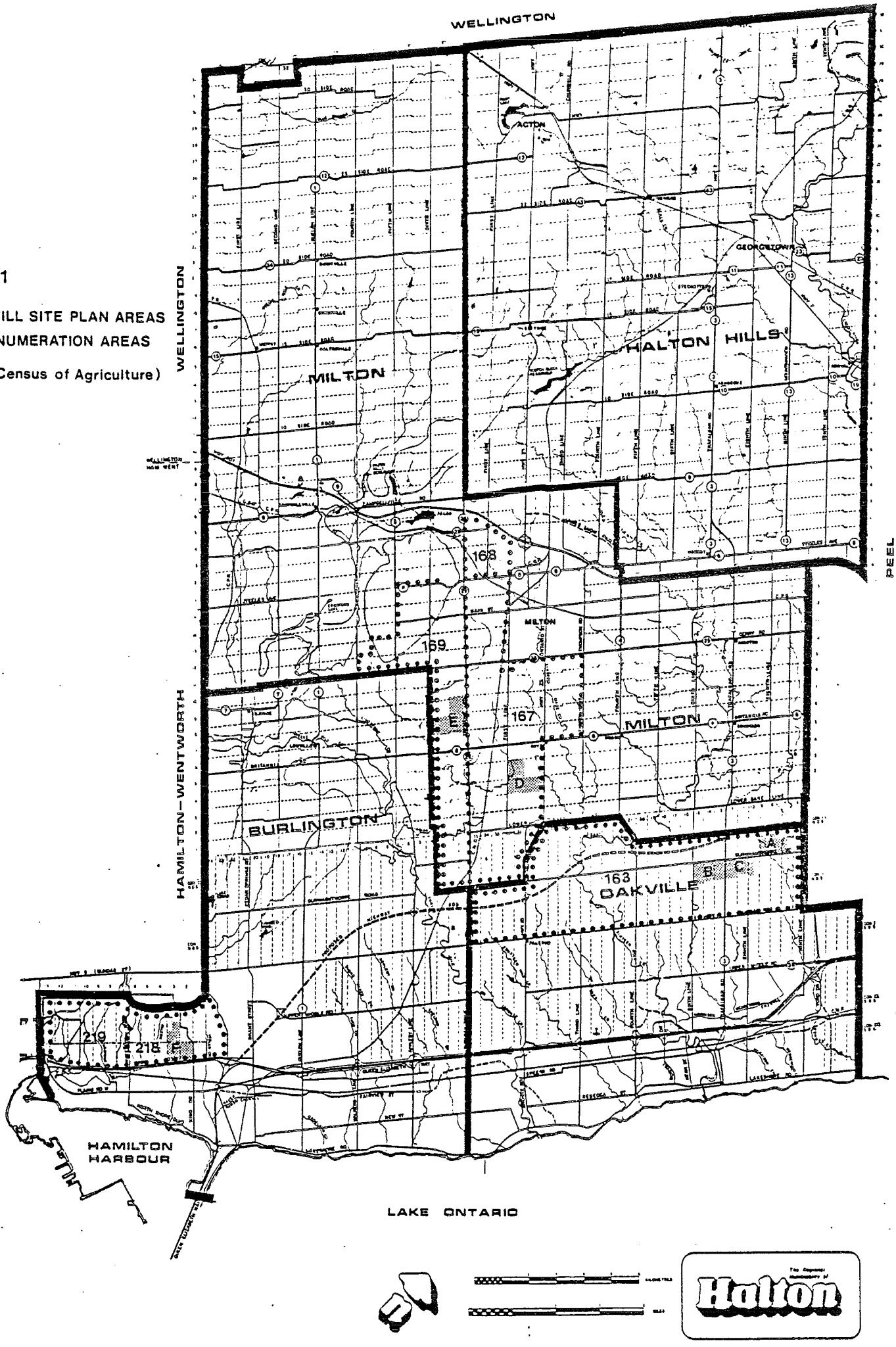
These sites have been placed into two relatively distinct groups based on long-term agricultural potential. Site F is situated entirely within the Parkway Belt West and lies adjacent to a quarry, an active landfill operation, a closed landfill site, major transit and utility corridors, and the urban area of Burlington. Site F has the following constraints to agricultural development:

1. The site is isolated from large contiguous blocks of agricultural lands by urban and industrial development, transit corridors, the Parkway Belt and the Niagara Escarpment;
2. Site access for farm machinery is along paved arterial roads such as King Road and North Service Road;
3. The majority of the site is primarily low to moderate quality for agricultural production of common field crops;

MAP 1

LANDFILL SITE PLAN AREAS
AND ENUMERATION AREAS

(1981 Census of Agriculture)



- Major ravines which originate from the escarpment face disect the area and are responsible for the small, irregular shaped fields which reduce efficient use of farm machinery; and

- Several fields contain an old field complex of trees and scrubland and have not been used for agricultural production for several years.

Based on the foregoing, the future potential of Site F for agricultural production is limited. (1)

Sites A, B and C also lie within the vicinity of areas with probable long-term urban development potential, although this is currently not recognized by the Town of Oakville Official Plan. (2) how does he know

The Parkway Belt West is located to the north and east of Sites A and C and the Oakville future urban boundary at Dundas Street is within approximately 1.0 km of the proposed Site Plan Areas B and C. Existing transit and utility corridors within the surrounding Parkway Belt West include TransCanada Pipelines and Interprovincial Pipeline Limited hydrocarbon pipelines, an existing and future Hydro transmission corridor and future Highway #403/407.

The Ministry of Transportation and Communications' five-year-plan for the extension of Highway #403 to Trafalgar Road and Highway #407 indicates the construction of a major transportation corridor across the north limits of the Town of Oakville. A major interchange is planned at the intersection of future Highway #403/407 and a smaller one at future Highway #403 and Trafalgar Road. This new corridor will effectively separate north Oakville from rural Milton, with Sites A, B and C falling between Highway #403 and the Oakville urban limit at Highway #5 (Dundas Street). In addition, this area lies within several alternative alignments for a long-range inter-regional rapid transit corridor (GO-ALRT, Northern Section). (3)

Planned urban growth of the Town of Oakville is proceeding above Upper Middle Road toward Dundas Street in a phased, northward projection. Site Plan Areas A, B and C occupy an "urban shadow" area, where the potential for future urban development creates an unstable environment for sustaining long-term agricultural investment and production. Land tenure, severence patterns, and farm types indicate a trend away from long-term investment in the agricultural land base. (4)

Site Plan Areas D and E occur within a more stable agricultural zone, where agricultural activities can be expected to continue over a longer term due to a comparatively higher proportion of farmer-owned operations and the lack of development pressures which are evident in the vicinity of Site Plan Areas A, B, and C.

Differences between the general areas which contain Site Plan Areas D and E compared to Site Plan Areas A, B and C are shown by the Enumeration Area (EA) data from the 1981 Census of Agriculture (see Map 1 for EA boundaries), keeping in mind that the definition of a Census Farm in 1981 included farms with anticipated or actual sales of more than $250.

EA	Site Plan Areas	Farm Characteristics: No. of Farms	Farmed Area (ha.)	Owner Operated Farms: #	Owner Operated Farms: Area (ha)	Farm Area Rented (ha.)
163	A, B, C	22	1998	7(32)*	80 (4)**	1758 (88)**
167/168	D	32	1479	17(53)	237 (16)	932 (63)
169	E	29	1497	22(76)	389 (26)	973 (65)
218/219	F	14	233	12(86)	175 (75)	58 (25)

* Percent of total number of farms.
** Percent of total farm area.

The above data indicate trends in farm community stability. For example, Site Plan Areas D and E are located in areas which have a relatively larger number of owner-operated farms, a greater proportion of the farm land being owned by the operators, and lesser amounts of farm land being rented as compared to Site Plan Areas A, B, and C. EA #163 contains approximately 486 ha. more farmland than either EA #167/168 and 169, yet only 80 ha. are owner-operated in EA#163 as compared to 238 and 389 ha. for the other respective areas. These trends in Site Plan Areas A, B, and C, as compared to D and E, are consistent with an increased uncertainty in the agricultural industry, as well as reduced expectations associated with long-term agricultural viability.

The enumeration area data for Site Plan Area F are consistent with sites in the immediate rural/urban interface zone, i.e., a relatively high percentage of small-sized, part-time, owner-operated farms.

3.1.1 Site Plan Area Rankings - Long Term Agricultural Viability

Based on the Long-term Agricultural Viability of operations, the following rankings for Site Plan Areas are evident:

Relatively Low Impact - A, B, C, F
Relatively High Impact - D, E

3.2 Level 2 Sub-factors - Land Quality; Large Contiguous Blocks of Agricultural Land; Special Farm Enterprises

Each Site Plan Area was evaulated according to the three sub-factors indicated below. Within each sub-factor, the various components were given a high (H), medium (M), or low (L) rating as follows:

I. Land Quality:

- $\geq$ 80% Class 1 & 2 Lands consisting of simple mapping units - High (H)
- 50-80% Class 1 & 2 lands in simple mapping units; or

  $\geq$ 50% complex unit of 1^6 - 3^4 lands plus simple mapping units of Classes 1 & 2 lands - Moderate (M)
- < 50% Class 1 & 2 lands, consisting mainly of simple mapping units of Classes 3, 4, and 7. - Low (L)

II. Large Contiguous Blocks of Agricultural Land:

- > 80% Unfragmented (Large parcel $\geq$ 20 ha (50 ac.) with local or non-local owner) - High (H)

- 50%-79% Unfragmented - Moderate (M)
- > 50% Fragmented (<20 ha; 50 ac.) - Low (L)

III. Special Farm Enterprises:

- Owner Operated, Intensive Livestock Operation on Large Parcels (> 20 ha.) - High (H)
- Cash Crop Headquarters; Livestock Feeder and/or Pasture Operations; Nursery Operations - Moderate (M)
- Hobby Farm - Normally on fragmented parcel; Vacant Agricultural Lands - Low (L)

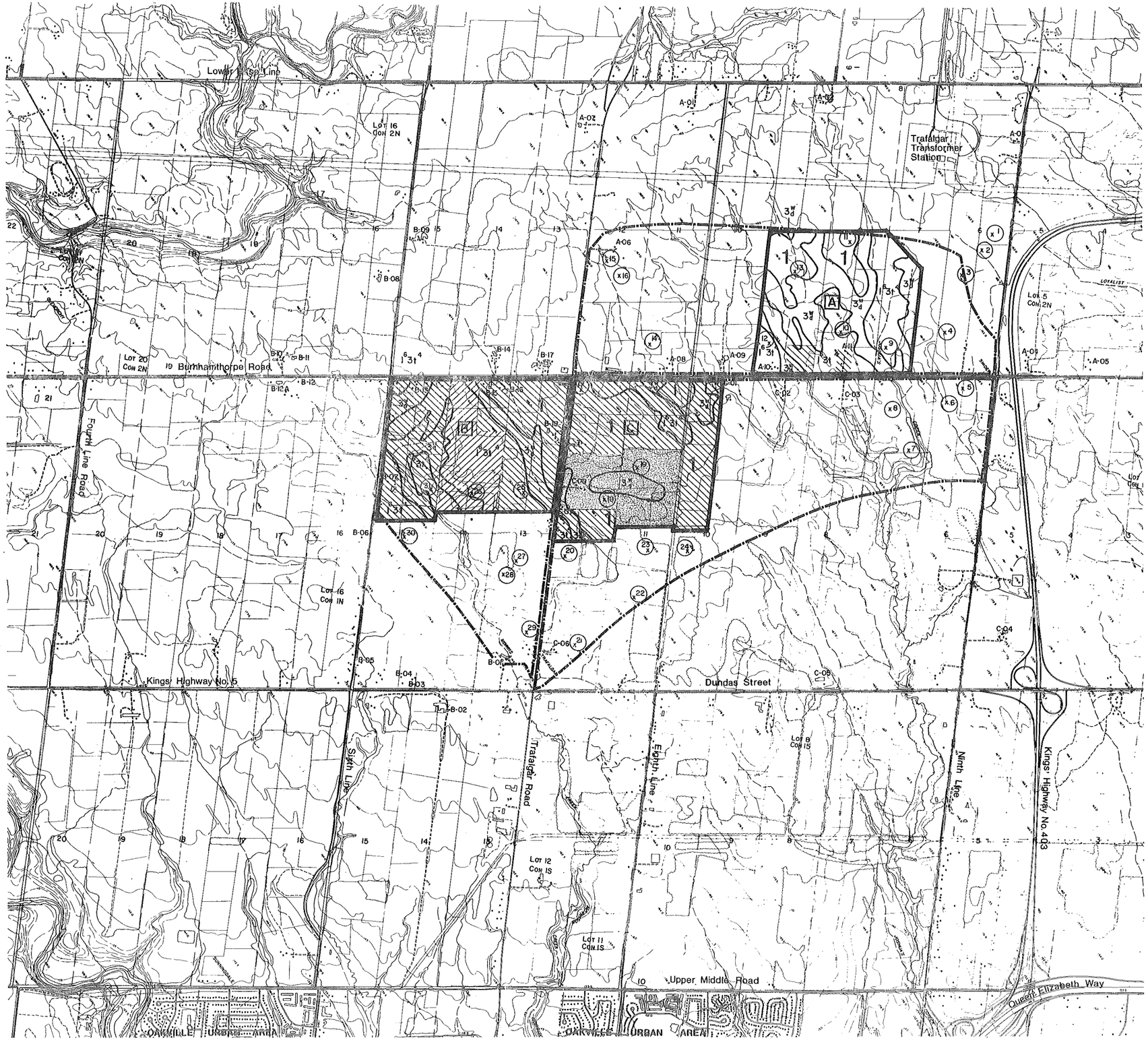
Detailed data for the above sub-factors are presented in Table 1 and plotted on Maps 2, 3, and 4.

3.3 Overall Rankings

By combining the rankings obtained from the Level 1 sub-factor - Long Term Agricultural Viability (Section 3.1.1) and the Level 2 sub-factors (Table 1, Section 3.2), the Site Plan Areas are ranked as follows:

Site Plan Area	Level 1 Sub-factor Ranking	Level 2 Sub-factor Ranking	Order	
F	Low	LLL	1	Most preferred for a landfill site
B	Low	MLM	2	
C	Low	HLM	3	
A	Low	MHM	4	
D	High	MML	5	
E	High	HHM	6	Least preferred for a landfill site

Based on the foregoing, Site Plan Area F is recommended for location of the landfill site from an agricultural standpoint.



MAP 2

LEGEND

- A-01 Farms Surveyed
- 3M Soil Capability for Agriculture
- x30 Soil Sampling Location
- Large Parcels (Non-Local Ownership; ≥50 ac.)
- Large Parcels (Local Ownership; ≥50 ac.)
- Fragmented Parcels (Existing; <50 ac.)
- Fragmented Parcels (New, Due to Site Plan Boundary; <50 ac.)
- Site Plan Area
- Candidate Site

Map Information Compiled By:
Ecological Services for Planning Ltd.

SOIL LIMITATIONS

- w - WETNESS
- d - STRUCTURE
- t - TOPOGRAPHY
- e - EROSION

PHASE 2, STAGE 2C
SELECTION OF PREFERRED SITE

ENVIRONMENTAL ASSESSMENT OF THE LANDFILL COMPONENT OF HALTON'S SOLID WASTE MANAGEMENT SYSTEM

Scale
0 50 100 200 400 600 1000 m

Walker Wright Young Associates Limited

MAP 3

LEGEND

- A-01 Farms Surveyed
- 3d Soil Capability for Agriculture
- (32) Soil Sampling Location
- Large Parcels (Non-Local Ownership; ≥50 ac.)
- Large Parcels (Local Ownership; ≥50 ac.)
- Fragmented Parcels (Existing; < 50 ac.)
- Fragmented Parcels (New, Due to Site Plan Boundary; <50 ac.)
- Site Plan Area
- Candidate Site

Map Information Compiled By:
Ecological Services for Planning Ltd.

SOIL LIMITATIONS

- w - WETNESS
- d - STRUCTURE
- t - TOPOGRAPHY
- e - EROSION

PHASE 2, STAGE 2C
SELECTION OF PREFERRED SITE

ENVIRONMENTAL ASSESSMENT OF THE LANDFILL COMPONENT OF HALTON'S SOLID WASTE MANAGEMENT SYSTEM

Scale
0 50 100 200 400 600 1000 m

N

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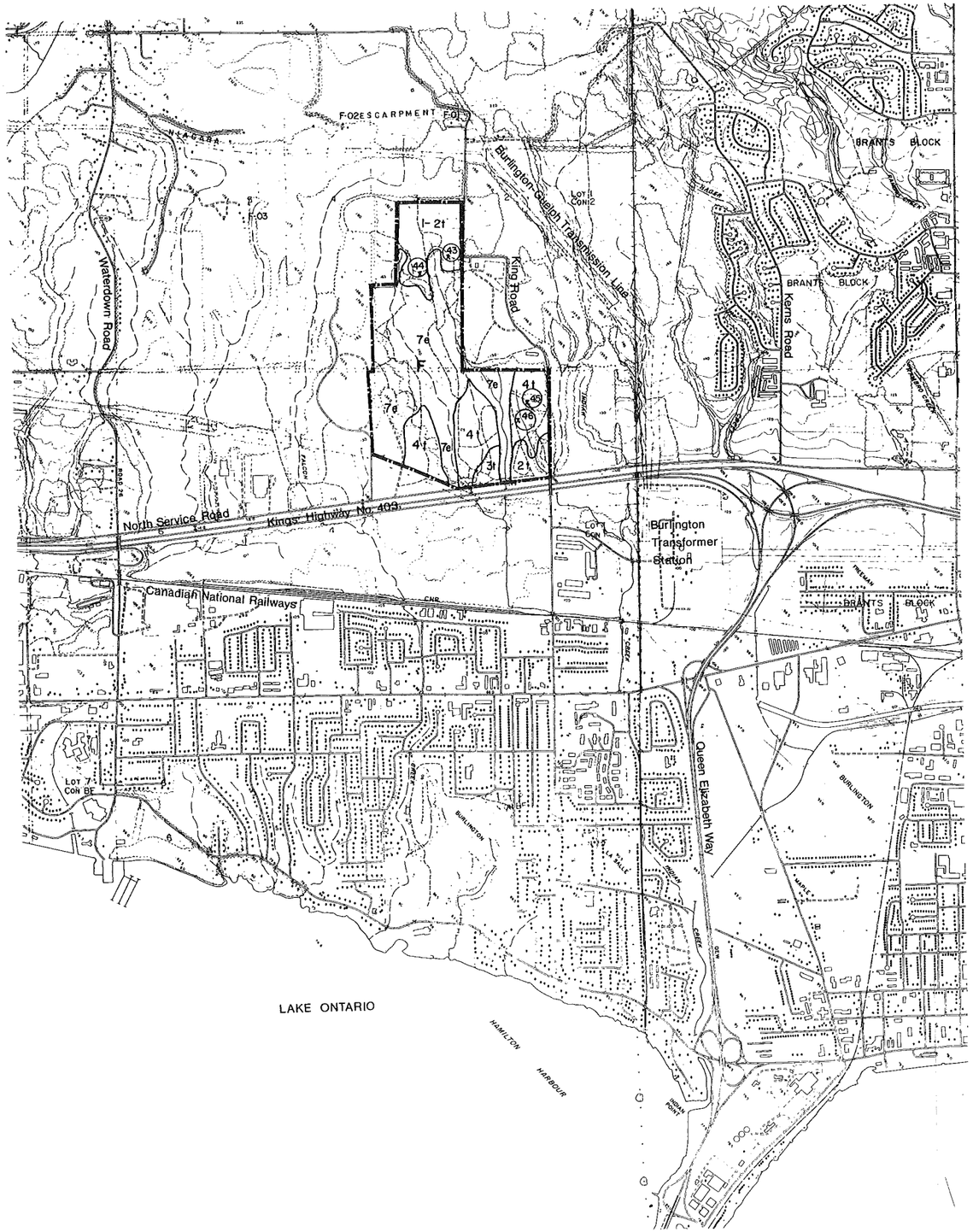
Associates Limited



MAP 4

LEGEND

- A-01 Farms Surveyed
- 3W Soil Capability for Agriculture
- 30 Soil Sampling Location
- Large Parcels (Non-Local Ownership; ≥50 ac.)
- Large Parcels (Local Ownership; ≥50 ac.)
- Fragmented Parcels (Existing; <50 ac.)
- Fragmented Parcels (New, Due to Site Plan Boundary; <50 ac.)
- Site Plan Area
- Candidate Site

Map Information Compiled By:
Ecological Services for Planning Ltd.

SOIL LIMITATIONS

w - WETNESS
d - STRUCTURE
t - TOPOGRAPHY
e - EROSION

PHASE 2, STAGE 2C
SELECTION OF PREFERRED SITE

ENVIRONMENTAL ASSESSMENT OF THE LANDFILL COMPONENT OF HALTON'S SOLID WASTE MANAGEMENT SYSTEM

Scale
0 50 100 200 400 600 1000 m

N

Walker Wright Young Associates Limited

TABLE 1: LEVEL 2 SUB-FACTORS -- SITE PLAN AREA COMPARISON MATRIX

SUB-FACTOR	Site Plan Area					
	A (100.7 ha)*	B (151.5 ha)	C (102.8 ha)	D (139.6 ha)	E (122.6 ha)	F (93.8 ha)
Land Quality						
Class 1 and 2	17%	21%	80%	51%	100%	21%
Class 1^6 - 3^4 Complexes	43%	52%	11%	44%	--	--
Class 3 and 4	40%	27%	9%	5%	--	26%
Class 5, 6, 7	--	--	--	--	--	53%
Rank	M	M	H	M	H	L
Large Contiguous Blocks of Agricultural Land						
Large Parcel, Local Owner	--	--	34%	15%	33%	--
Large Parcel, Non-Local Owner	94%	13%	--	62%	67%	37%
Fragmented	6%	87%	66%	23%	--	18%
Rank	H	L	L	M	H	L
Special Farm Enterprises						
Owner-operated, Intensive Livestock Operation	--	--	--	--	--	--
Cash Cropper Headquarters; Livestock Feeder and/or Pasture Operations; Nursery Operations	A-10: Poultry, Hogs A-11: Hogs	B-07: Beef B-15: Broiler Chickens B-16: Beef, Hogs Slaughter House	C-07: Nursery Pasture	--	E-06: Cash Crops E-07: Beef/ Pasture	--
Hobby Farm; Vacant Agricultural Lands	--	B-13 B-18	--	D-05 D-12 D-13	--	Vacant Agricultural Land
Rank	M	M	M	L	M	L

4.0 SITE REHABILITATION TO AN AGRICULTURAL AFTER-USE

Following completion of landfilling, the site must be rehabilitated to an appropriate after-use. The design requirements for site restoration vary according to the after-use chosen. If the site is to be returned to a productive agricultural after-use, then a number of specific requirements, as outlined below, should be built into the design.

4.1 Methane Gas Concerns

A number of instances have been reported of vegetation kills associated with landfill sites. The most common problem is the result of methane gas buildup in the soil which displaces oxygen and causes anaerobesis. A review of data available on landfill sites indicates that vegetation kill is usually associated with:

- inadequate depth of surface cover and/or the use of pervious, coarse textured soils as overburden materials; and
- landfill sites which contain pervious sand and gravel beds within the subsoil strata.

Adequate design standards to overcome the surface gas kill problem require the use of passive gas collection systems or sealers, most often of compacted clay, placed between the landfill refuse and the topsoil/subsoil layer followed by an adequate depth of overburden material.

4.2 Mitigation Measures for Agricultural Rehabilitation

The following guidelines for mitigation address specific concerns for site restoration to an agricultural after-use:

- reduce the amount of water percolating into the landfill which contributes to leachate;
- prevent upward migration of metal contaminants into the plant root zone;
- prevent gas from migrating into the plant root zone; and
- provide an adequate rooting medium for plant growth.

A number of design requirements are necessary to ensure the above. These include:

1. Providing a seal, preferably of clay, immediately over the final lift to reduce water infiltration into the landfill site and prevent upward migration of metal contaminants and gas into the plant root zone;

2. Providing an adequate topsoil/subsoil depth of 1-1.2m overlying the clay seal to ensure an adequate rooting medium for crop growth;

3. Contouring the final surface to provide for surface drainage (2-5% slopes) and the development of a microdrainage network, for drainage of depressional areas created by differential subsidence, in order to reduce the amount of water percolation into the landfill site;

4. Development of a passive gas venting system to avoid uncontrolled venting into the plant root zone;

5. Progressive rehabilitation of the area with final grading and application of topsoil following after a period of 1-3 years to allow for subsidence; and

6. Side slope grading to as low an angle as possible to reduce surface runoff and erosion and to maximize the area available for arable crop production.

Following the application of topsoil, a post-rehabilitation management program should be implemented, in order to assist the restoration of the plant root zone and enhance the agricultural productivity of the rehabilitated site:

1. Mechanical ripping of the topsoil/subsoil with a winged-tine agricultural subsoiler to alleviate soil compaction;

2. Addition of green manure and animal manure to the topsoil, together with standard fertilization to enhance soil productivity;

3. A cropping program consisting of a shallow rooting forage-legume system for a period of 3-5 years followed by rotation with cash crops;

4. Development of specific guidelines for selection and planting of tree species consistent with landfill site conditions; and

5. Implementation of a monitoring program to include assessment of soil subsidence, surface drainage, soil compaction, fertility, gas levels in the subsoil and crop establishment, with further mitigation applied as required.

5.0 PUBLIC RESPONSE AND AGENCY CONCERNS

5.1 Downstream Livestock Watering

Pubic enquiry expressed in Stage 2B responses and at Stage 2C workshops has indicated a concern for adequate mitigation, compensation or prevention of potential contamination of groundwater and surface streams from landfill leachate. The concern is over potential hazards to livestock, which in turn could affect the livelihood of livestock farmers who reside downstream of the landfill site.

The Halton Agricultural Advisory Committee (H.A.A.C.) has also expressed concern, and has sought guarantees from the Region for maintenance of adequate potable water for farm operations. Further to this end, H.A.A.C. has requested, by way of resolution, that an adequate contingency plan be implemented to provide safe, potable water in adequate supply for both livestock and residential needs.

manure operations don't improve water quality

Farms with livestock which have been identified within 0.8 km of a Site Plan Area are as follows (see Maps 2, 3, and 4):

Site Plan Area	Map Reference to Downstream Farms Having Livestock Within Study Area (0.8 km)
A	No livestock recorded
B	B02 - Hayes Farms - Beef B05 - Horses
C	C05 - Horses
D	D07 - Dairy D08, D09, D11 - Horses
E	E02 - Dairy E15, E16 - Beef E04, E13, E14, E17, E19 - Horses
F	No Livestock Recorded

The concern arises over the need for swift emergency action in the event of water supply contamination and support from the Region so that the individuals affected are not left with the dual burden of water supply loss and

the necessity to provide their own contingency source of supply. Therefore, some form of mutually agreeable contingency plan for emergency water supply should be sorted out between the Region and those constituents whose wells may be affected by the presence of a new landfill site.

5.2 Potential Bird Problems

Several concerns have been voiced by various members of the general public and by members of H.A.A.C. during meetings and workshops. The concerns most frequently stated are with disease, carried to local livestock by gulls and with damage to nursery, orchard or greenhouse products.

Of particular concern to a member of H.A.A.C. was the potential for gulls to carry salmonella spp. bacteria from contaminated garbage to a local farmstead, where the disease could be introduced to the livestock. In response to this concern, the hundred or more species of salmonella bacteria tend to be normal residents of our environment and only create problems when they infect unhealthy individuals. It is possible for a gull to carry salmonella bacteria on its feet or in its excrement to a feed or water trough on a local farm. However, the gull is low on the list of carriers, with infected humans or livestock being the best source of transport (personnel communication - Dr. M. Koller, Health of Animals Branch, Agriculture Canada).

Damage to agricultural crops caused by birds is well known. Robins were found to do the greatest damage to crops such as grapes and cherries, with grackles and starlings creating seasonal problems (Brown, 1974). In addition, red-winged blackbirds are known to cause severe damager to grain corn in the "milk" stage. Gulls have been known to damage tomato crops and young vegetable shoots, according to Blokpoel (1983), reporting in Gull Problems in Ontario. However, it is more likely that the former common rural birds will be the source of loss to the small fruit growers in the area.

Landowners who experience crop damage may obtain a special "kill" permit from the Canadian Wildlife Service in order to legally eliminate nuisance species which would otherwise be protected, such as robins or gulls.

APPENDIX A

SOIL SURVEY SHEETS FOR SITE PLAN AREAS

Site Plan Areas	Soil Survey Points
A	9, 10, 11, 12, 13
B	17, 18, 19
C	25, 26, 31
D	37, 38, 39
E	41, 42
F	43, 44, 45, 46

(1)

SURVEY: WW8301 | SITE NUMBER: 84-09 | DATE: 84-06-25 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Jeddo | PHOTONUMBER | P.M. MAP

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- 4 ROWCROPS
- X HAY
- 6 WOODLANDS
- 7 SCRUB
- 8 ABAND. FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

SPECIFIC LAND USE: Grasses & Crown Vetch

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- X TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- 5 CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- 4 MOD. WELL
- 5 IMPERFECT
- X 6 POOR
- 7 V. POOR

SITE POSITION
- 1 CREST
- 2 UPPER SLOPE
- X 3 MIDDLE
- 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- 1 LEVEL
- X 2 INCLINED
- 3 UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

% SLOPE: 1.0 | TYPE: C | LENGTH (m): 20

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2				
#3				

	SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1	X		A	p		0	20		10	YR	3	2					CL
2	X		B	tg		20	45		10	YR	4	3	10	YR	4	6	CL
3	X		C	kg		45	90		10	YR	5	2	10	YR	5	6	SiCL
4																	
5																	
6																	
7																	
8																	

	HORIZON FEATURES	% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	%
1	X	X					X					
2	X	X					X					
3	XX	X					X					
4												
5												
6												
7												
8												

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O.M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: SW

SURVEY: WW8301 | SITE NUMBER: 84-10 | DATE: 84-06-25 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M MAP: P M -

LAND USE
1 RECREATION
2 VEGETABLES
3 FRUIT
X ROWCROPS
5 HAY
6 WOODLANDS
7 SCRUB
8 ABAND.FARMLAND
9 SWAMP
10 MARSH
11 IDLE LAND
12 PASTURE
13 SEE BELOW

SPECIFIC LAND USE: S. Grain

MODE OF DEPOSITION (I II III)
1 FLUVIAL
2 EOLIAN
3 GLACIOLACUSTRINE
4 LACUSTRINE
X TILL
6 LACUSTRO-TILL
7 COLLUVIAL
8 ALLUVIAL
9 MARINE
10 BEDROCK

PHYSICAL COMPOSITION (I II III)
1 FRAGMENTAL
2 SKELETAL
3 C. LOAMY-SILTY
4 F. LOAMY-SILTY
5 CLAYEY
6 STRATIFIED
7 SANDY
8 ORGANIC

DRAINAGE
1 V. RAPID
2 RAPID
3 WELL
4 MOD. WELL
X IMPERFECT
6 POOR
7 V. POOR

SITE POSITION
1 CREST
2 UPPER SLOPE
X MIDDLE
4 LOWER SLOPE
5 TOE
6 DEPRESSION

SURFACE EXPRESSION
1 LEVEL
2 INCLINED
X UNDULATING
4 ROLLING
5 HUMMOCKY
6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

% SLOPE: 4.5 | TYPE: C | LENGTH (m): 30

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

	COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2					
#3					

	SAMPLED	D	HORIZON MASTER	HORIZON SUFFIX	M	DEPTH (cm) UPPER	DEPTH (cm) LOWER	COLOUR ASP	COLOUR HUE	COLOUR SY	COLOUR VAL	COLOUR CHR	MOTTLE COLOUR HUE	MOTTLE COLOUR SY	MOTTLE COLOUR VAL	MOTTLE COLOUR CHR	TEXTURE
1	X		A	p		0	30		10	YR	3	3					CL
2	X		B	g		30	55		10	YR	5	3	10	YR	5	6	CL
3	X		B	tg		55	75		10	YR	4	3	10	YR	5	6	CL
4	X		C	kg		75	100		10	YR	6	2	10	YR	4	4	CL
5																	
6																	
7																	
8																	

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			% MOIST		
1			X	X					X									
2	X		X	X					X									
3	X		X	X					X									
4	X	X	X	X					X									
5																		
6																		
7																		
8																		

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9
NATURE OF O.M.: 1 2 3 4 5 6 7 8
FOREST HUMUS: 1 2 3 4 5 6 7 8
MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: NW

(3)

SURVEY: WW8301 | SITE NUMBER: 84-11 | DATE: 84-06-25 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M.MAP

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- 4 ROWCROPS
- X 5 HAY
- 6 WOODLANDS
- 7 SCRUB
- 8 ABAND.FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- X 5 TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- 5 CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- 4 MOD. WELL
- X 5 IMPERFECT
- 6 POOR
- 7 V. POOR

SITE POSITION
- 1 CREST
- 2 UPPER SLOPE
- 3 MIDDLE
- X 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- 1 LEVEL
- X 2 INCLINED
- 3 UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

SPECIFIC LAND USE: Grasses & Some Trefoil

% SLOPE: 1.5 | TYPE: S | LENGTH (m): 100

DEPTH (m) to: BEDROCK +-+- | WATER TABLE ----+ | IMPERVIOUS LAYER +-+-

MAP DELINEATION

COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2				
#3				

	SAMPLED	D	HORIZON MASTER	HORIZON SUFFIX	M	DEPTH (cm) UPPER	DEPTH (cm) LOWER	COLOUR ASP	COLOUR HUE	COLOUR SY	COLOUR VAL	COLOUR CHR	MOTTLE COLOUR HUE	MOTTLE COLOUR SY	MOTTLE COLOUR VAL	MOTTLE COLOUR CHR	TEXTURE
1	X		A	p		0	30		10	YR	3	1					CL
2	X		AB	g		30	45		10	YR	4	3	10	YR	5	6	CL
3	X		B	tg		45	65		10	YR	5	4	10	YR	5	8	CL
4	X		C	kg		65	100		10	YR	5	4	10	YR	5	8	C
5																	
6																	
7																	
8																	

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			%		
1			X	X					X									
2			X	X					X									
3	X		X	X					X									
4	XX		X	X					X									
5																		
6																		
7																		
8																		

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O.M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: E

SURVEY: WW8301 | SITE NUMBER: 84-12 | DATE: 84-06-25 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M.MAP

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- X ROWCROPS
- 5 HAY
- 6 WOODLANDS
- 7 SCRUB
- 8 ABAND FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

SPECIFIC LAND USE: S. Grain

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- X TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- 5 CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- 4 MOD. WELL
- X IMPERFECT
- 6 POOR
- 7 V. POOR

SITE POSITION
- X CREST
- 2 UPPER SLOPE
- 3 MIDDLE
- 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- 1 LEVEL
- 2 INCLINED
- X UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

% SLOPE: 6.0 | TYPE: C | LENGTH (m): 20

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

	COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2					
#3					

	SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1	X		A	p		0	20		10	YR	3	3					CL
2	X		B	tg		20	40		10	YR	5	3	7.5	YR	4	4	C
3	X		C	kg		40	90		10	YR	4	4	10	YR	5	6	CL
4																	
5																	
6																	
7																	
8																	

	HORIZON FEATURES	% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	%
1	X						X					
2	X X	X					X					
3	X X	X					X					
4												
5												
6												
7												
8												

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: S

SURVEY: WW8301 | SITE NUMBER: 84-13 | DATE: 84-06-25 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV. (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Jeddo | PHOTONUMBER | P.M MAP

LAND USE
1 RECREATION
2 VEGETABLES
3 FRUIT
X ROWCROPS
5 HAY
6 WOODLANDS
7 SCRUB
8 ABAND.FARMLAND
9 SWAMP
10 MARSH
11 IDLE LAND
12 PASTURE
13 SEE BELOW

SPECIFIC LAND USE: S. Grain

MODE OF DEPOSITION (I II III)
1 FLUVIAL
2 EOLIAN
3 GLACIOLACUSTRINE
4 LACUSTRINE
X TILL
6 LACUSTRO-TILL
7 COLLUVIAL
8 ALLUVIAL
9 MARINE
10 BEDROCK

PHYSICAL COMPOSITION (I II III)
1 FRAGMENTAL
2 SKELETAL
3 C. LOAMY-SILTY
4 F. LOAMY-SILTY
5 CLAYEY
6 STRATIFIED
7 SANDY
8 ORGANIC

DRAINAGE
1 V. RAPID
2 RAPID
3 WELL
4 MOD. WELL
5 IMPERFECT
X POOR
7 V. POOR

SITE POSITION
1 CREST
2 UPPER SLOPE
3 MIDDLE
X LOWER SLOPE
5 TOE
6 DEPRESSION

SURFACE EXPRESSION
X LEVEL
2 INCLINED
3 UNDULATING
4 ROLLING
5 HUMMOCKY
6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

% SLOPE: 10 | TYPE: S | LENGTH (m): 100

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

	COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2					
#3					

	SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1	X		A	p		0	30		10	YR	3	2					CL
2	X		B	g		30	55		10	YR	4	2	10	YR	5	8	CL
3	X		B	tg		55	85		10	YR	5	1	10	YR	5	6	C
4	X		C	kg		85	110		10	YR	6	1	10	YR	5	4	C
5																	
6																	
7																	
8																	

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			% W/VOL	
1			X	X					X								
2	X		X	X					X								
3	X		X	X					X								
4	X	X	X	X					X								
5																	
6																	
7																	
8																	

MOTTLES | CARB. | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: E

SURVEY: WW8301 | SITE NUMBER: 84-17 | DATE: 84-06-26 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M.MAP

LAND USE
1 RECREATION
2 VEGETABLES
3 FRUIT
4 X ROWCROPS
5 HAY
6 WOODLANDS
7 SCRUB
8 ABAND.FARMLAND
9 SWAMP
10 MARSH
11 IDLE LAND
12 PASTURE
13 SEE BELOW

SPECIFIC LAND USE: S. Grain

MODE OF DEPOSITION (I II III)
1 FLUVIAL
2 EOLIAN
3 GLACIOLACUSTRINE
4 LACUSTRINE
5 X TILL
6 LACUSTRO-TILL
7 COLLUVIAL
8 ALLUVIAL
9 MARINE
10 BEDROCK

PHYSICAL COMPOSITION (I II III)
1 FRAGMENTAL
2 SKELETAL
3 C. LOAMY-SILTY
4 F. LOAMY-SILTY
5 CLAYEY
6 STRATIFIED
7 SANDY
8 ORGANIC

DRAINAGE
1 V. RAPID
2 RAPID
3 WELL
4 MOD. WELL
5 X IMPERFECT
6 POOR
7 V. POOR

SITE POSITION
1 CREST
2 UPPER SLOPE
3 MIDDLE
4 X LOWER SLOPE
5 TOE
6 DEPRESSION

SURFACE EXPRESSION
1 LEVEL
2 INCLINED
3 X UNDULATING
4 ROLLING
5 HUMMOCKY
6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

% SLOPE: 1.0 | TYPE: C | LENGTH (m): 25

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

	COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2					
#3					

SAMPLED	D	HORIZON MASTER	HORIZON SUFFIX	M	DEPTH (cm) UPPER	DEPTH (cm) LOWER	ASP	COLOUR HUE	COLOUR SY	COLOUR VAL	COLOUR CHR	MOTTLE COLOUR HUE	MOTTLE COLOUR SY	MOTTLE COLOUR VAL	MOTTLE COLOUR CHR	TEXTURE
1	X	A	p		0	30		10	YR	3	3					CL
2	X	B	t		30	45		7.5	YR	4	4					C
3	X	C	kg		45	85		7.5	YR	4	2	10	YR	4	6	CL
4																
5																
6																
7																
8																

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			% WOOD	
1			X	X					X								
2			X	X					X								
3		X	X	X					X								
4																	
5																	
6																	
7																	
8																	

MOTTLES | CARB. | CO. FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9
NATURE OF O.M.: 1 2 3 4 5 6 7 8
FOREST HUMUS: 1 2 3 4 5 6 7 8
MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: E

SURVEY	SITE NUMBER	DATE	LOCATION ZONE	A	10KM	EASTING	NORTHING	SITE REGION	TWP	ELEV. (m)
WW8301	84-18	84-06-26								

TOPONUM	DELINEATION NUMBER	OLD SOIL NAME	SITE SOIL UNIT	PHOTONUMBER	P.M.MAP
			Ching		

LAND USE

1	RECREATION
2	VEGETABLES
3	FRUIT
4	ROWCROPS
X	HAY
6	WOODLANDS
7	SCRUB
8	ABAND.FARMLAND
9	SWAMP
10	MARSH
11	IDLE LAND
12	PASTURE
13	SEE BELOW

MODE OF DEPOSITION

I	II	III	
1			FLUVIAL
2			EOLIAN
3			GLACIOLACUSTRINE
4			LACUSTRINE
X			TILL
6			LACUSTRO-TILL
7			COLLUVIAL
8			ALLUVIAL
9			MARINE
10			BEDROCK

PHYSICAL COMPOSITION

I	II	III	
1			FRAGMENTAL
2			SKELETAL
3			C. LOAMY-SILTY
4			F. LOAMY-SILTY
5			CLAYEY
6			STRATIFIED
7			SANDY
8			ORGANIC

DRAINAGE

1	V. RAPID
2	RAPID
3	WELL
4	MOD. WELL
X	IMPERFECT
6	POOR
7	V. POOR

SITE POSITION

1	CREST
2	UPPER SLOPE
X	MIDDLE
4	LOWER SLOPE
5	TOE
6	DEPRESSION

SURFACE EXPRESSION

1	LEVEL
X	INCLINED
3	UNDULATING
4	ROLLING
5	HUMMOCKY
6	RIDGED

SURFACE ROCKINESS: 0

SURFACE STONINESS: 0

SPECIFIC LAND USE: Mainly Clover

% SLOPE	TYPE	LENGTH (m)
3.0	S	50

DEPTH (m) to:

BEDROCK	WATER TABLE	IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2				
#3				

	SAMPLED	HORIZON D	HORIZON MASTER	HORIZON SUFFIX	M	DEPTH (cm) UPPER	DEPTH (cm) LOWER	COLOUR ASP	COLOUR HUE	COLOUR SY	COLOUR VAL	COLOUR CHR	MOTTLE COLOUR HUE	MOTTLE COLOUR SY	MOTTLE COLOUR VAL	MOTTLE COLOUR CHR	TEXTURE
1	X		A	p		0	30		10	YR	3	3					CL
2	X		B	tg		30	48		10	YR	4	4	10	YR	5	6	C
3	X		C	kg		48	85		10	YR	5	3	10	YR	5	6	CL
4																	
5																	
6																	
7																	
8																	

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			%
1			X	X					X								
2	X		X	X					X								
3	X	X	X	X					X								
4																	
5																	
6																	
7																	
8																	

MOTTLES · CARB. · CO FRAG. · CONCRET. · FIBRIC · MESIC · HUMIC

MOISTURE REGIME	NATURE OF O M.	FOREST HUMUS	MICROTOPOGRAPHY
0	1	1	1
1	2	2	2
2	3	3	3
3	4	4	4
4	5	5	5
5	6	6	6
6	7	7	7
7	8	8	
8			
9			

ASPECT: N

SURVEY: WW8301 | SITE NUMBER: 84-19 | DATE: 84-06-26 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M.MAP

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- 4 ROWCROPS
- [X] 5 HAY
- 6 WOODLANDS
- 7 SCRUB
- 8 ABAND.FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- [X] 5 TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- 5 CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- 4 MOD. WELL
- [X] 5 IMPERFECT
- 6 POOR
- 7 V. POOR

SITE POSITION
- 1 CREST
- 2 UPPER SLOPE
- [X] 3 MIDDLE
- 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- 1 LEVEL
- [X] 2 INCLINED
- 3 UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

SPECIFIC LAND USE: Grasses

% SLOPE: 1.5 | TYPE: S | LENGTH (m): 100

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT	PROPORTION	SLOPE CLASS	ROCKI	STONI
#1				
#2				
#3				

SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1	X	A	p		0	30		10	YR	3	3					CL
2	X	B	tg		30	55		7.5	YR	4	4	7.5	YR	5	6	C
3	X	C	kg		55	90		7.5	YR	4	4	7.5	YR	5	6	CL
4																
5																
6																
7																
8																

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			% WOOD		
1			X	X					X									
2	X			X					X									
3	XX		X	X					X									
4																		
5																		
6																		
7																		
8																		

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O.M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: NE

(9)

SURVEY: WW8301 | SITE NUMBER: 84-25 | DATE: 84-06-28 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV. (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M.MAP: PM-

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- X ROWCROPS
- 5 HAY
- 6 WOODLANDS
- 7 SCRUB
- 8 ABAND.FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- X TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- 5 CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- 4 MOD. WELL
- X IMPERFECT
- 6 POOR
- 7 V. POOR

SITE POSITION
- 1 CREST
- X UPPER SLOPE
- 3 MIDDLE
- 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- 1 LEVEL
- 2 INCLINED
- X UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

SPECIFIC LAND USE: Just Plowed

% SLOPE: 4:0 | TYPE: C | LENGTH (m): 10

DEPTH (m) to: BEDROCK: --+ | WATER TABLE: --- | IMPERVIOUS LAYER: --+

MAP DELINEATION

COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2				
#3				

	SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1	X		A	p		0	30		10	YR	3	3					CL
2	X		B	f kkg		30	52		10	YR	5	3	10	YR	5	6	CL
3	X		C	kkg		52	85		10	YR	5	3	10	YR	6	6	CL
4																	
5																	
6																	
7																	
8																	

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			% WOOD	
1			X	X					X								
2	X		X	X					X								
3	X	X	X	X					X								
4																	
5																	
6																	
7																	
8																	

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME
- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

NATURE OF O M.
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

FOREST HUMUS
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

MICROTOPOGRAPHY
- 1
- 2
- 3
- 4
- 5
- 6
- 7

ASPECT: S

SURVEY: WW8301 | SITE NUMBER: 84-26 | DATE: 84-06-28 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M MAP

LAND USE
1 RECREATION
2 VEGETABLES
3 FRUIT
4 ROWCROPS
5 HAY
6 WOODLANDS
7 SCRUB
X ABAND.FARMLAND
9 SWAMP
10 MARSH
11 IDLE LAND
12 PASTURE
13 SEE BELOW

MODE OF DEPOSITION (I II III)
1 FLUVIAL
2 EOLIAN
3 GLACIOLACUSTRINE
4 LACUSTRINE
X 5 TILL
6 LACUSTRO-TILL
7 COLLUVIAL
8 ALLUVIAL
9 MARINE
10 BEDROCK

PHYSICAL COMPOSITION (I II III)
1 FRAGMENTAL
2 SKELETAL
3 C. LOAMY-SILTY
4 F. LOAMY-SILTY
5 CLAYEY
6 STRATIFIED
7 SANDY
8 ORGANIC

DRAINAGE
1 V. RAPID
2 RAPID
3 WELL
4 MOD. WELL
X IMPERFECT
6 POOR
7 V. POOR

SITE POSITION
1 CREST
X UPPER SLOPE
3 MIDDLE
4 LOWER SLOPE
5 TOE
6 DEPRESSION

SURFACE EXPRESSION
1 LEVEL
X INCLINED
UNDULATING
4 ROLLING
5 HUMMOCKY
6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

SPECIFIC LAND USE: Old Field

% SLOPE: 2.5 | TYPE: C | LENGTH (m): 50

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT	PROPORTION	SLOPE CLASS	ROCKI	STONI
#1				
#2				
#3				

SAMPLED	D	HORIZON MASTER	HORIZON SUFFIX	M	DEPTH (cm) UPPER	DEPTH (cm) LOWER	COLOUR ASP	COLOUR HUE	COLOUR SY	COLOUR VAL	COLOUR CHR	MOTTLE COLOUR HUE	MOTTLE COLOUR SY	MOTTLE COLOUR VAL	MOTTLE COLOUR CHR	TEXTURE
1 X		A	p		0	25		10	YR	3	3					CL
2 X		B	tg		25	45		10	YR	4	4	7.5	YR	5	8	CL
3 X		C	kg		45	80		10	YR	4	4	10	YR	5	6	CL
4																
5																
6																
7																
8																

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	% WOOD
1		X		X					X					
2	X	X		X					X					
3	X	X	X	X					X					
4														
5														
6														
7														
8														

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9
NATURE OF O M.: 1 2 3 4 5 6 7 8
FOREST HUMUS: 1 2 3 4 5 6 7 8
MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: E

(11)

SURVEY: WW8301 | SITE NUMBER: 84-31 | DATE: 84-06-28 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M MAP

LAND USE
1 RECREATION
2 VEGETABLES
3 FRUIT
4 ROWCROPS
5 HAY
6 WOODLANDS
7 SCRUB
8 ABAND.FARMLAND
9 SWAMP
10 MARSH
11 IDLE LAND
12 X PASTURE
13 SEE BELOW

MODE OF DEPOSITION (I II III)
1 FLUVIAL
2 EOLIAN
3 GLACIOLACUSTRINE
4 LACUSTRINE
5 X TILL
6 LACUSTRO-TILL
7 COLLUVIAL
8 ALLUVIAL
9 MARINE
10 BEDROCK

PHYSICAL COMPOSITION (I II III)
1 FRAGMENTAL
2 SKELETAL
3 C. LOAMY-SILTY
4 F. LOAMY-SILTY
5 CLAYEY
6 STRATIFIED
7 SANDY
8 ORGANIC

DRAINAGE
1 V. RAPID
2 RAPID
3 WELL
4 MOD. WELL
5 X IMPERFECT
6 POOR
7 V. POOR

SITE POSITION
1 CREST
2 UPPER SLOPE
3 X MIDDLE
4 LOWER SLOPE
5 TOE
6 DEPRESSION

SURFACE EXPRESSION
1 LEVEL
2 INCLINED
3 X UNDULATING
4 ROLLING
5 HUMMOCKY
6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

SPECIFIC LAND USE: Cattle pasture

% SLOPE: 1.0 | TYPE: C | LENGTH (m): 50

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT	PROPORTION	SLOPE CLASS	ROCKI	STONI
#1				
#2				
#3				

SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1	X	A	p		0	30		10	YR	3	3					CL
2	X	B	tg		30	45		10	YR	5	3	10	YR	4	6	CL
3	X	C	kg		45	80		10	YR	4	4	10	YR	5	8	CL
4																
5																
6																
7																
8																

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	% WOOD
1			X	X					X					
2	X		X	X					X					
3	X	X	X	X					X					
4														
5														
6														
7														
8														

MOTTLES | CARB. | CO. FRAG. | CONCRET | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9
NATURE OF O.M.: 1 2 3 4 5 6 7 8
FOREST HUMUS: 1 2 3 4 5 6 7 8
MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: E

(12)

SURVEY: WW8301 | SITE NUMBER: 84-37 | DATE: 84-06-29 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Jeddo | PHOTONUMBER | P.M MAP

LAND USE

1	RECREATION
2	VEGETABLES
3	FRUIT
X	ROWCROPS
5	HAY
6	WOODLANDS
7	SCRUB
8	ABAND.FARMLAND
9	SWAMP
10	MARSH
11	IDLE LAND
12	PASTURE
13	SEE BELOW

MODE OF DEPOSITION

I	II	III	
1			FLUVIAL
2			EOLIAN
3			GLACIOLACUSTRINE
4			LACUSTRINE
X			TILL
6			LACUSTRO-TILL
7			COLLUVIAL
8			ALLUVIAL
9			MARINE
10			BEDROCK

PHYSICAL COMPOSITION

I	II	III	
1			FRAGMENTAL
2			SKELETAL
3			C. LOAMY-SILTY
4			F. LOAMY-SILTY
5			CLAYEY
6			STRATIFIED
7			SANDY
8			ORGANIC

DRAINAGE

1	V RAPID
2	RAPID
3	WELL
4	MOD. WELL
5	IMPERFECT
X	POOR
7	V. POOR

SITE POSITION

1	CREST
2	UPPER SLOPE
X	MIDDLE
4	LOWER SLOPE
5	TOE
6	DEPRESSION

SURFACE EXPRESSION

1	LEVEL
2	INCLINED
X	UNDULATING
4	ROLLING
5	HUMMOCKY
6	RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

SPECIFIC LAND USE: W. Wheat

% SLOPE: 2.5 | TYPE: C | LENGTH (m): 25

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT	PROPORTION	SLOPE CLASS	ROCKI	STONI
#1				
#2				
#3				

SAMPLED	HORIZON D	HORIZON MASTER	HORIZON SUFFIX	M	DEPTH (cm) UPPER	DEPTH (cm) LOWER	COLOUR ASP	COLOUR HUE	COLOUR SY	COLOUR VAL	COLOUR CHR	MOTTLE COLOUR HUE	MOTTLE COLOUR SY	MOTTLE COLOUR VAL	MOTTLE COLOUR CHR	TEXTURE
1 X		A	p		0	25		10	YR	3	3					CL
2 X		B	tg		25	40		10	YR	5	2	10	YR	5	6	CL
3 X		C	kg		40	80		10	YR	5	2	10	YR	5	8	CL
4																
5																
6																
7																
8																

	HORIZON FEATURES		% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			% WOOD		
1		X	X					X									
2	X	X	X					X									
3	XX	X	X					X									
4																	
5																	
6																	
7																	
8																	

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME

0
1
2
3
4
5
6
7
8
9

NATURE OF O M.

1
2
3
4
5
6
7
8

FOREST HUMUS

1
2
3
4
5
6
7
8

MICROTOPOGRAPHY

1
2
3
4
5
6
7

ASPECT: NW

13

SURVEY: WW8301 | SITE NUMBER: 84-38 | DATE: 84-06-29 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M.MAP

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- X ROWCROPS
- 5 HAY
- 6 WOODLANDS
- 7 SCRUB
- 8 ABAND.FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

SPECIFIC LAND USE: W. Wheat

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- X TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- 5 CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- 4 MOD. WELL
- X IMPERFECT
- 6 POOR
- 7 V. POOR

SITE POSITION
- 1 CREST
- 2 UPPER SLOPE
- X MIDDLE
- 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- 1 LEVEL
- 2 INCLINED
- X UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

% SLOPE: 1.5 | TYPE: C | LENGTH (m): 25

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2				
#3				

	SAMPLED	D	MASTER	SUFFIX	M	UPPER	LOWER	ASP	HUE	SY	VAL	CHR	MOTTLE HUE	MOTTLE SY	MOTTLE VAL	MOTTLE CHR	TEXTURE
1	X		A	p		0	30		10	YR	3	2					CL
2	X		B	tg		30	55		10	YR	5	3	10	YR	5	6	CL
3	X		C	kg		55	90		10	YR	5	1	10	YR	5	6	CL
4																	
5																	
6																	
7																	
8																	

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			% WOOD
1			X	X					X							
2	X		X	X					X							
3	X	X	X	X					X							
4																
5																
6																
7																
8																

MOTTLES | CARB. | CO. FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O.M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: E

(14)

in class 3W soils

SURVEY: WW8301 | SITE NUMBER: 84-39 | DATE: 84-06-29 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV. (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Jeddo | PHOTONUMBER | P.M.MAP: PM-

LAND USE

1	RECREATION
2	VEGETABLES
3	FRUIT
X	ROWCROPS
5	HAY
6	WOODLANDS
7	SCRUB
8	ABAND FARMLAND
9	SWAMP
10	MARSH
11	IDLE LAND
12	PASTURE
13	SEE BELOW

herbicides

SPECIFIC LAND USE: Corn

MODE OF DEPOSITION

	I	II	III	
1				FLUVIAL
2				EOLIAN
3				GLACIOLACUSTRINE
4				LACUSTRINE
X				TILL
6				LACUSTRO-TILL
7				COLLUVIAL
8				ALLUVIAL
9				MARINE
10				BEDROCK

PHYSICAL COMPOSITION

	I	II	III	
1				FRAGMENTAL
2				SKELETAL
3				C. LOAMY-SILTY
4				F. LOAMY-SILTY
5				CLAYEY
6				STRATIFIED
7				SANDY
8				ORGANIC

DRAINAGE

1	V. RAPID
2	RAPID
3	WELL
4	MOD. WELL
5	IMPERFECT
X	POOR
7	V. POOR

SITE POSITION

1	CREST
2	UPPER SLOPE
3	MIDDLE
X	LOWER SLOPE
5	TOE
6	DEPRESSION

SURFACE EXPRESSION

X	LEVEL
2	INCLINED
3	UNDULATING
4	ROLLING
5	HUMMOCKY
6	RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

% SLOPE: 1.0 | TYPE: S | LENGTH (m): 100

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT #	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2				
#3				

SAMPLED	D	HORIZON MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	ASP	COLOUR HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1 X		A	p		0	20		10	YR	3	3					CL
2 X		B	tg		20	35		10	YR	4	2	10	YR	4	6	CL
3 X		C	kg	1	35	55		10	YR	6	2	10	YR	5	6	CL
4 X		C	kg	2	55	90		10	YR	5	2	10	YR	4	6	SiCL
5																
6																
7																
8																

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG			% WOOD		
1		X		X					X									
2	X	X		X					X									
3	XX	X		X					X									
4	XX	X		X					X									
5																		
6																		
7																		
8																		

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O.M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: NW

SURVEY: WW8301 | SITE NUMBER: 84-41 | DATE: 84-06-29 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M.MAP

LAND USE
1 RECREATION
2 VEGETABLES
3 FRUIT
4 ROWCROPS
[X] 5 HAY
6 WOODLANDS
7 SCRUB
8 ABAND.FARMLAND
9 SWAMP
10 MARSH
11 IDLE LAND
12 PASTURE
13 SEE BELOW

SPECIFIC LAND USE: Grasses

MODE OF DEPOSITION (I II III)
1 FLUVIAL
2 EOLIAN
3 GLACIOLACUSTRINE
4 LACUSTRINE
[X] 5 TILL
6 LACUSTRO-TILL
7 COLLUVIAL
8 ALLUVIAL
9 MARINE
10 BEDROCK

PHYSICAL COMPOSITION (I II III)
1 FRAGMENTAL
2 SKELETAL
3 C. LOAMY-SILTY
4 F. LOAMY-SILTY
5 CLAYEY
6 STRATIFIED
7 SANDY
8 ORGANIC

DRAINAGE
1 V. RAPID
2 RAPID
3 WELL
4 MOD. WELL
[X] 5 IMPERFECT
6 POOR
7 V. POOR

SITE POSITION
1 CREST
[X] 2 UPPER SLOPE
3 MIDDLE
4 LOWER SLOPE
5 TOE
6 DEPRESSION

SURFACE EXPRESSION
1 LEVEL
2 INCLINED
[X] 3 UNDULATING
4 ROLLING
5 HUMMOCKY
6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

% SLOPE: 1.5 | TYPE: C | LENGTH (m): 25

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2				
#3				

	SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1	X		A	p		0	30		10	YR	3	3					CL
2	X		B	tg		30	55		10	YR	5	3	10	YR	5	6	CL
3	X		C	kg		55	80		10	YR	5	1	10	YR	5	6	CL
4																	
5																	
6																	
7																	
8																	

	HORIZON FEATURES	% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	% WOOD
1	X	X					X					
2	X	X	X				X					
3	X	X	X				X					
4												
5												
6												
7												
8												

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O.M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: SE

SURVEY: WW8301 | SITE NUMBER: 84-42 | DATE: 84-06-29 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Jeddo | PHOTONUMBER | P M MAP

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- 4 ROWCROPS
- X 6 HAY
- 6 WOODLANDS
- 7 SCRUB
- 8 ABAND FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

SPECIFIC LAND USE: Grasses & Some Weeds

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- X 5 TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- 5 CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- 4 MOD. WELL
- 5 IMPERFECT
- X 6 POOR
- 7 V. POOR

SITE POSITION
- 1 CREST
- 2 UPPER SLOPE
- X 3 MIDDLE
- 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- X 1 LEVEL
- 2 INCLINED
- 3 UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS: 0 | SURFACE STONINESS: 0

% SLOPE: 1.0 | TYPE: S | LENGTH (m): 100

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

	COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2					
#3					

SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1 X		A	p		0	25		10	YR	3	3					CL
2 X		B	tg		25	45		10	YR	4	2	10	YR	4	4	CL
3 X		C	kg		45	80		10	YR	5	2	10	YR	4	6	CL
4																
5																
6																
7																
8																

	HORIZON FEATURES			% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	%
1			X	X					X					
2	X		X	X					X					
3	X	X	X	X					X					
4														
5														
6														
7														
8														

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O.M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT: SW

SURVEY: WW8301 | SITE NUMBER: 85-43 | DATE: 85/04/17 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV. (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Ching | PHOTONUMBER | P.M.MAP: PM-

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- 4 ROWCROPS
- 5 HAY
- 6 WOODLANDS
- 7 SCRUB
- X ABAND.FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

SPECIFIC LAND USE: Grass

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- X TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- X CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- X MOD. WELL
- 5 IMPERFECT
- 6 POOR
- 7 V. POOR

SITE POSITION
- 1 CREST
- 2 UPPER SLOPE
- 3 MIDDLE
- 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- 1 LEVEL
- 2 INCLINED
- X UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS | SURFACE STONINESS

% SLOPE: 2-5 | TYPE: C | LENGTH (m)

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT	PROPORTION	SLOPE CLASS	ROCKI	STONI
#1				
#2				
#3				

	SAMPLED	HORIZON D	HORIZON MASTER	HORIZON SUFFIX	HORIZON M	DEPTH (cm) UPPER	DEPTH (cm) LOWER	COLOUR ASP	COLOUR HUE	COLOUR SY	COLOUR VAL	COLOUR CHR	MOTTLE COLOUR HUE	MOTTLE COLOUR SY	MOTTLE COLOUR VAL	MOTTLE COLOUR CHR	TEXTURE
1	X		A	p		0	14										CL
2	X		B	t		14	45		Reddish								CL
3																	
4																	
5																	
6																	
7																	
8																	

	HORIZON FEATURES	% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	% WOOD
1												
2												
3												
4												
5												
6												
7												
8												

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O.M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT

SURVEY: WW8301 | SITE NUMBER: 85-44 | DATE: 85/04/17 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Oneida | PHOTONUMBER | P.M MAP

LAND USE
1 RECREATION
2 VEGETABLES
3 FRUIT
4 ROWCROPS
5 HAY
6 [X] WOODLANDS
7 SCRUB
8 ABAND.FARMLAND
9 SWAMP
10 MARSH
11 IDLE LAND
12 PASTURE
13 SEE BELOW

SPECIFIC LAND USE: Shrubby

MODE OF DEPOSITION (I II III)
1 FLUVIAL
2 EOLIAN
3 GLACIOLACUSTRINE
4 LACUSTRINE
5 [X] TILL
6 LACUSTRO-TILL
7 COLLUVIAL
8 ALLUVIAL
9 MARINE
10 BEDROCK

PHYSICAL COMPOSITION (I II III)
1 FRAGMENTAL
2 SKELETAL
3 C. LOAMY-SILTY
4 F. LOAMY-SILTY
5 [X] CLAYEY
6 STRATIFIED
7 SANDY
8 ORGANIC

DRAINAGE
1 V. RAPID
2 RAPID
3 WELL
4 [X] MOD. WELL
5 IMPERFECT
6 POOR
7 V. POOR

SITE POSITION
1 CREST
2 UPPER SLOPE
3 MIDDLE
4 LOWER SLOPE
5 TOE
6 DEPRESSION

SURFACE EXPRESSION
1 LEVEL
2 INCLINED
3 [X] UNDULATING
4 ROLLING
5 HUMMOCKY
6 RIDGED

SURFACE ROCKINESS | SURFACE STONINESS

% SLOPE: 2-5 | TYPE: C | LENGTH (m)

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT #1	PROPORTION	SLOPE CLASS	ROCKI	STONI
#2				
#3				

SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1		A	h(p)		0	20										L
2		B	t		20	50		Reddish								CL
3																
4																
5																
6																
7																
8																

HORIZON FEATURES	% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	% WOOD
1											
2											
3											
4											
5											
6											
7											
8											

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9
NATURE OF O.M.: 1 2 3 4 5 6 7 8
FOREST HUMUS: 1 2 3 4 5 6 7 8
MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT

SURVEY: WW8301 | SITE NUMBER: 85-45 | DATE: 85/05/17 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Oneida | PHOTONUMBER | P.M MAP: P M -

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- 4 ROWCROPS
- 5 HAY
- 6 WOODLANDS
- 7 SCRUB
- X ABAND FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

SPECIFIC LAND USE: Grass/Dirt Bike Trails

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- X TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- X CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- X MOD. WELL
- 5 IMPERFECT
- 6 POOR
- 7 V. POOR

SITE POSITION
- 1 CREST
- 2 UPPER SLOPE
- 3 MIDDLE
- 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- 1 LEVEL
- 2 INCLINED
- X UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS | SURFACE STONINESS

% SLOPE: 9-15 | TYPE: C | LENGTH (m)

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

	COMPONENT #1	PRO-PORTION	SLOPE CLASS	ROCKI	STONI
#2					
#3					

SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1		A	h(p)		0	22										L
2		B	t		20	50		Reddish								CL
3																
4																
5																
6																
7																
8																

	HORIZON FEATURES	% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	%
1												
2												
3												
4												
5												
6												
7												
8												

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT

SURVEY: WW8301 | SITE NUMBER: 85-46 | DATE: 85/04/17 | LOCATION: ZONE | A | 10KM | EASTING | NORTHING | SITE REGION | TWP | ELEV (m)

TOPONUM | DELINEATION NUMBER | OLD SOIL NAME | SITE SOIL UNIT: Oneida | PHOTONUMBER | P.M.MAP: PM-

LAND USE
- 1 RECREATION
- 2 VEGETABLES
- 3 FRUIT
- 4 ROWCROPS
- 5 HAY
- 6 WOODLANDS
- 7 SCRUB
- X ABAND.FARMLAND
- 9 SWAMP
- 10 MARSH
- 11 IDLE LAND
- 12 PASTURE
- 13 SEE BELOW

MODE OF DEPOSITION (I II III)
- 1 FLUVIAL
- 2 EOLIAN
- 3 GLACIOLACUSTRINE
- 4 LACUSTRINE
- X TILL
- 6 LACUSTRO-TILL
- 7 COLLUVIAL
- 8 ALLUVIAL
- 9 MARINE
- 10 BEDROCK

PHYSICAL COMPOSITION (I II III)
- 1 FRAGMENTAL
- 2 SKELETAL
- 3 C. LOAMY-SILTY
- 4 F. LOAMY-SILTY
- X CLAYEY
- 6 STRATIFIED
- 7 SANDY
- 8 ORGANIC

DRAINAGE
- 1 V. RAPID
- 2 RAPID
- 3 WELL
- X MOD. WELL
- 5 IMPERFECT
- 6 POOR
- 7 V. POOR

SITE POSITION
- 1 CREST
- 2 UPPER SLOPE
- 3 MIDDLE
- 4 LOWER SLOPE
- 5 TOE
- 6 DEPRESSION

SURFACE EXPRESSION
- 1 LEVEL
- 2 INCLINED
- X UNDULATING
- 4 ROLLING
- 5 HUMMOCKY
- 6 RIDGED

SURFACE ROCKINESS | SURFACE STONINESS

SPECIFIC LAND USE: Grass/Dirt Bike Trails

% SLOPE: 9-15 | TYPE: C | LENGTH (m)

DEPTH (m) to: BEDROCK | WATER TABLE | IMPERVIOUS LAYER

MAP DELINEATION

COMPONENT	PROPORTION	SLOPE CLASS	ROCK	STONE
#1				
#2				
#3				

SAMPLED	HORIZON D	MASTER	SUFFIX	M	DEPTH (cm) UPPER	LOWER	COLOUR ASP	HUE	SY	VAL	CHR	MOTTLE COLOUR HUE	SY	VAL	CHR	TEXTURE
1 X		A	h(p)		0	25										L
2 X		B	r		25	60+		Reddish								CL
3																
4																
5																
6																
7																
8																

	HORIZON FEATURES	% COARSE FRAGMENTS <10	<20	<30	<40	<50	NAME G	C	S	VON POST	ORG	% WOOD
1												
2												
3												
4												
5												
6												
7												
8												

MOTTLES | CARB | CO FRAG. | CONCRET. | FIBRIC | MESIC | HUMIC

MOISTURE REGIME: 0 1 2 3 4 5 6 7 8 9

NATURE OF O.M.: 1 2 3 4 5 6 7 8

FOREST HUMUS: 1 2 3 4 5 6 7 8

MICROTOPOGRAPHY: 1 2 3 4 5 6 7

ASPECT

APPENDIX B

Farm Inventory Sheets For Site Plan Areas

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. A-10 WW8301

LOCATION: Lot 9, Concession 2N (North of Burnhamthorpe Rd.)
1141 Burnhamthorpe Rd.

OWNER: Admath Holdings Ltd TENANT: Victor Fox

DESCRIPTION:

Acreage - 89 ac.

Barn - 2 wood frames - 1 poor condition, 1 fair condition

Outbuildings -

Silo -

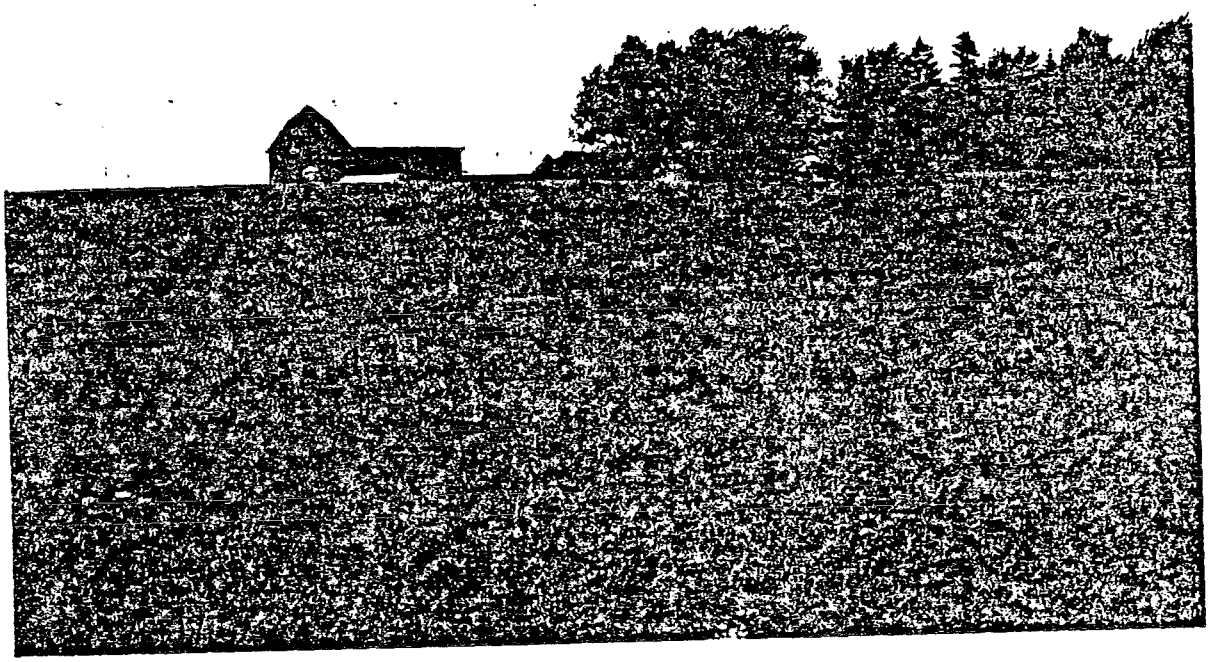
Grain Bin - 1

Livestock - Poultry

Crops - Pasture, small grains

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. A-11 WW8301



LOCATION: Lot 8, Concession 2N (North of Burnhamthorpe Rd.)
1265 Burnhamthorpe Rd.

OWNER: H.O. Schultz TENANT:

DESCRIPTION:

Acreage - 5 ac.

Barn - Wood frame

Outbuildings -

Silo -

Grain Bin - 1

Livestock - Hogs

Crops - Mature apple orchard, oats, barley

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. B-07

WW8301

LOCATION: Lot 15, Concession 1N (East of Sixth Line Rd.)
3369 Sixth Line Rd.

OWNER: Margaret Lehockey TENANT: George Browne

DESCRIPTION:

Acreage - 21 ac.

Barn - Wood frame - fair condition

Outbuildings -

Silo - 1 uncapped

Grain Bin -

Livestock - Cattle (beef)

Crops - Pasture

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. B-13 WW8301

LOCATION: Lot 15, Concession 1N (South of Burnhamthorpe Rd.)
40 Burnhamthorpe Rd.

OWNER: W. Alcock TENANT:

DESCRIPTION:

Acreage - 10 ac.

Barn - Wood frame - good condition

Outbuildings -

Silo -

Grain Bin -

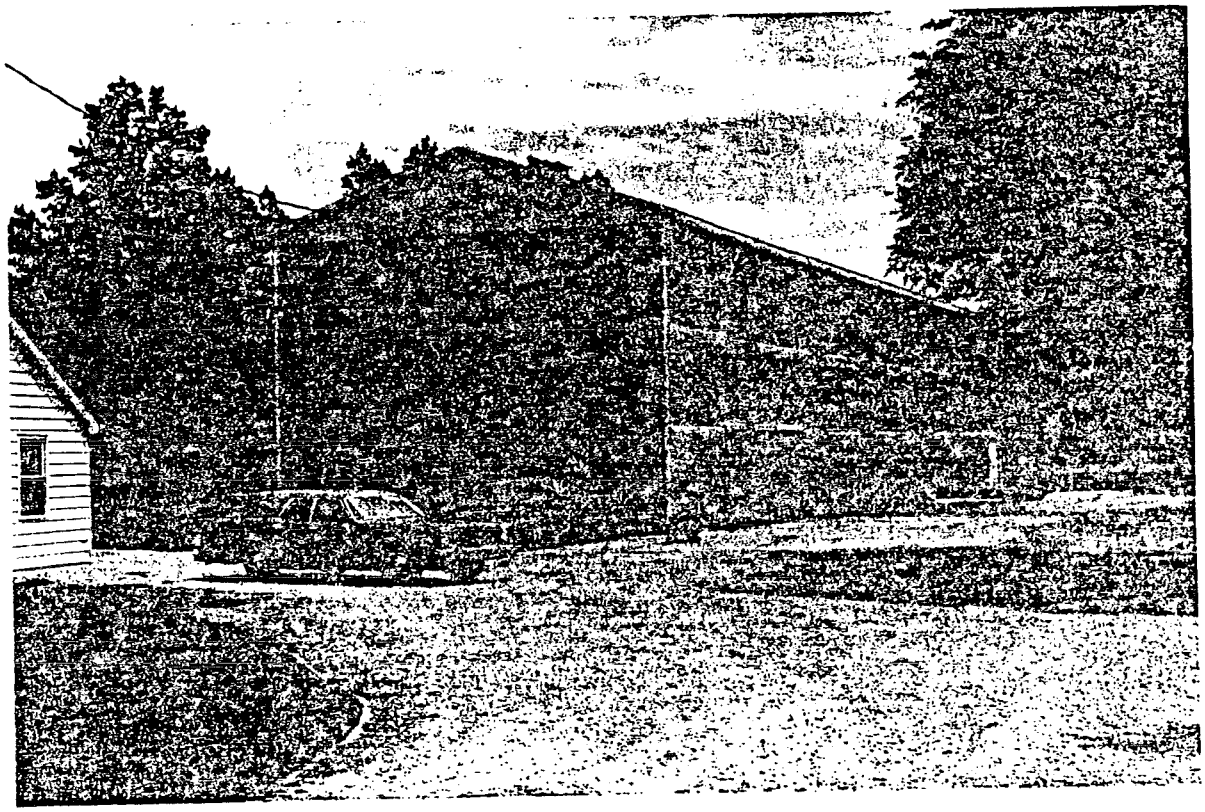
Livestock - Cattle (2 Holsteins)

Crops - Hay

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

WW8301

FARM NO. B-15



LOCATION: Lot 14, Concession 1N (South of Burnhamthorpe Rd.)
180 Burnhamthorpe Rd. E.

OWNER: Arnold & Corey Manders

TENANT:

DESCRIPTION:

Acreage - 1 ac.

Barn - Metal frame - fair condition

Outbuildings -

Silo -

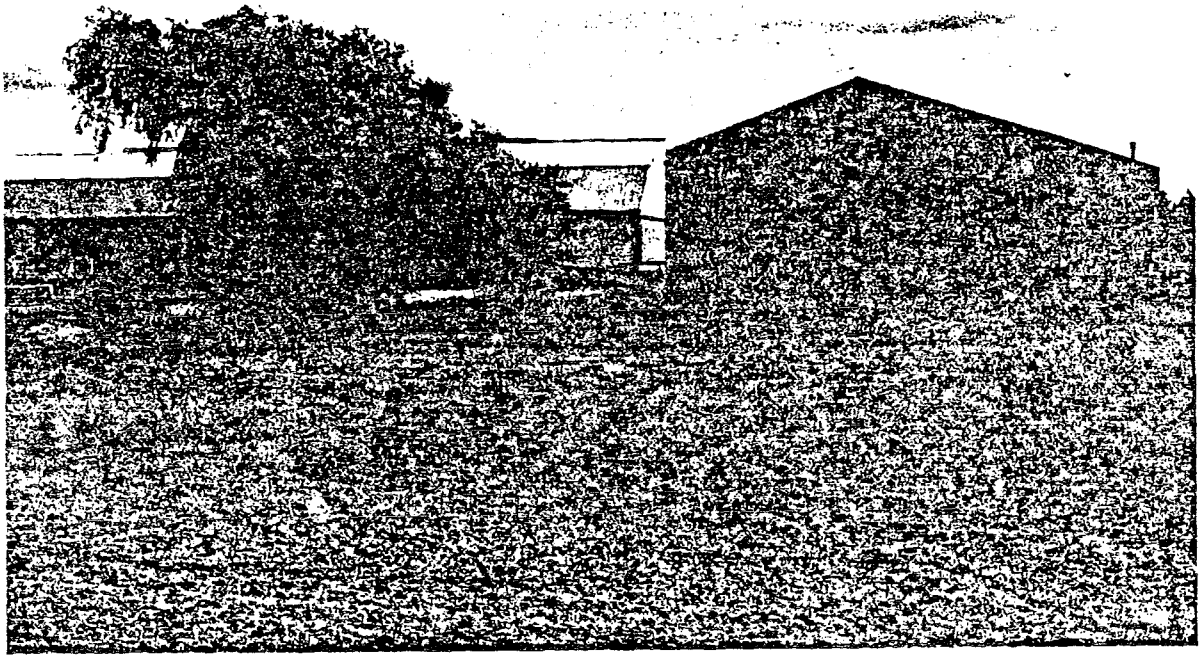
Grain Bin -

Livestock - Poultry (80,000-100,000/yr. broiler operation)

Crops -

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. B-16 WW8301



LOCATION: Lot 14, Concession 1N (South of Burnhamthorpe Rd.)
210 Burnhamthorpe Rd. E.

OWNER: S. Medeiros TENANT:

DESCRIPTION:

Acreage - 18 acres owned, 150 acres rented

Barn - metal frames - good condition

Outbuildings - Metal shed

Silo -

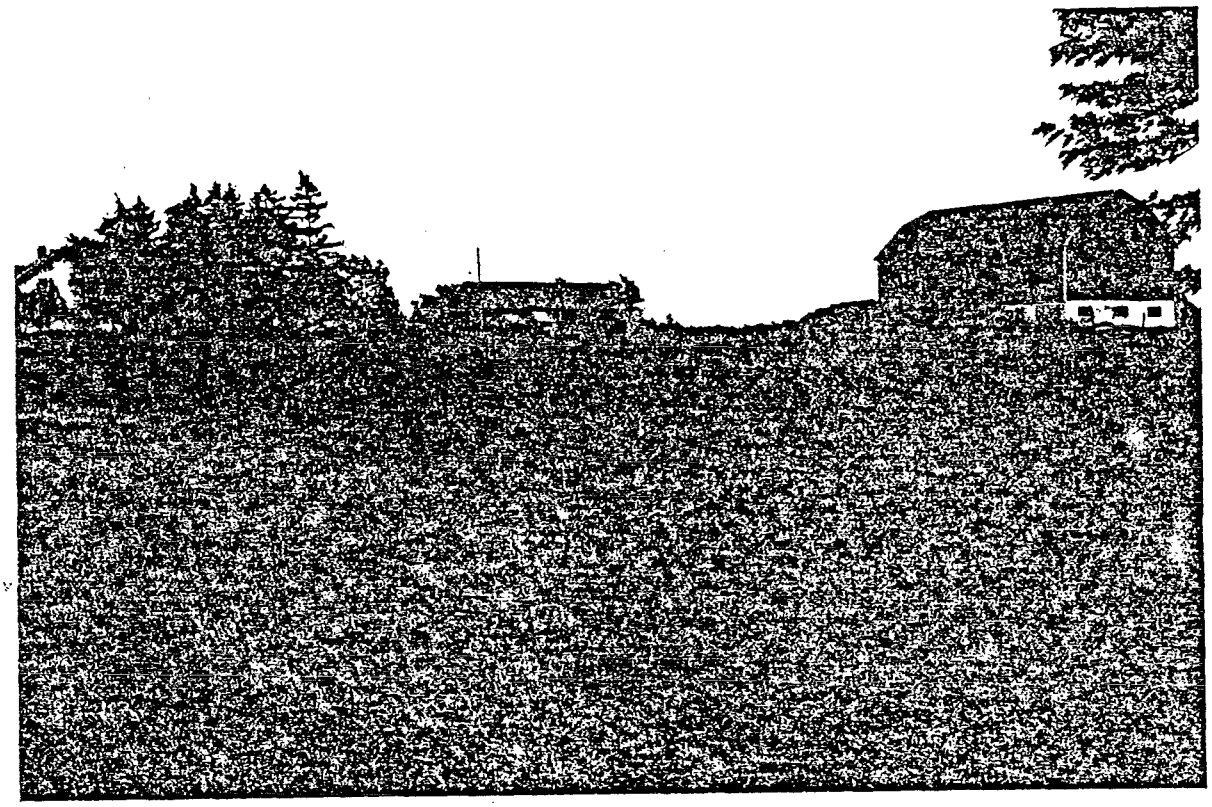
Grain Bin -

Livestock - Hogs, cattle, slaughterhouse

Crops - Hay, barley, oats, wheat

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. B-18 WW8301



LOCATION: Lot 13, Concession 1N (West of Trafalgar Rd.)
3444 Trafalgar Rd.

OWNER: Joseph Bentley TENANT:

DESCRIPTION:

Acreage - 5 ac.

Barn - Wood frame - fair condition

Outbuildings - Wood frame implement shed

Silo -

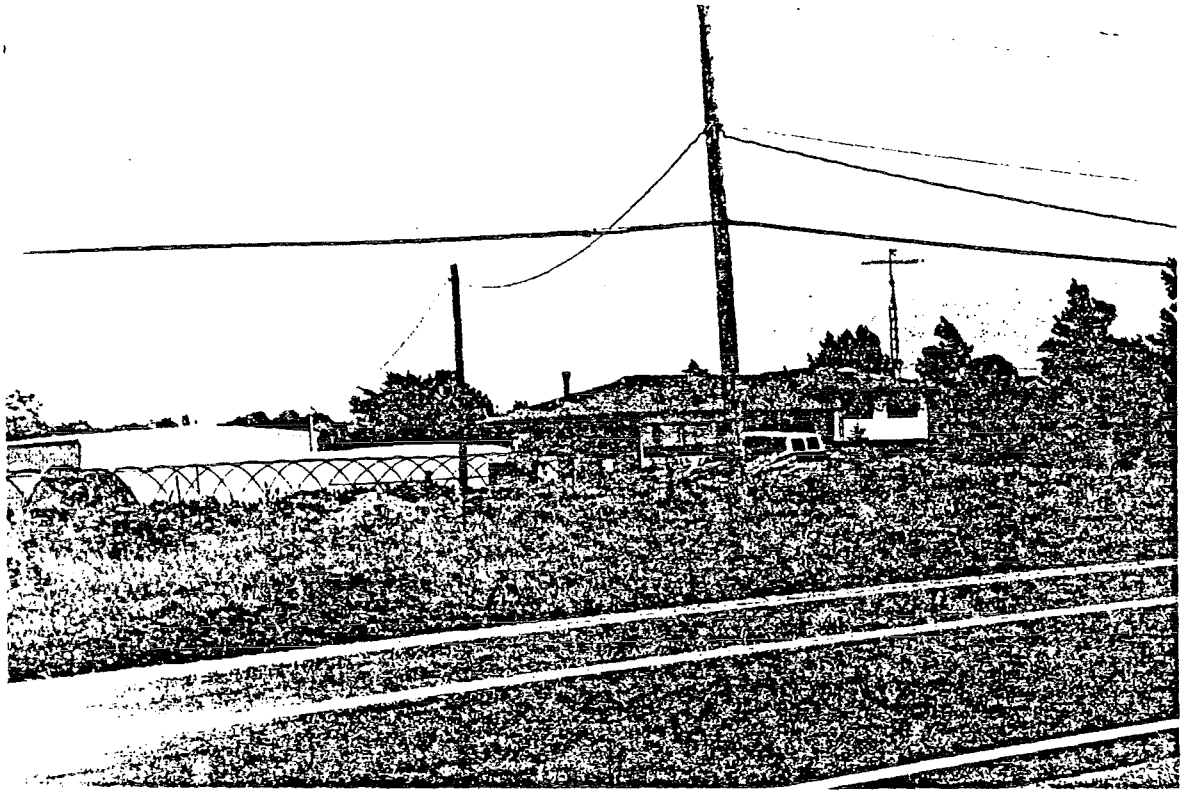
Grain Bin -

Livestock -

Crops - Hay

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. C-07 (G. & M. Farms) WW8301



LOCATION: Lot 12, Concession 1N (East of Trafalgar Rd.)
3301 Trafalgar Rd.

OWNER: G. & M. Ilczyszyn TENANT:

DESCRIPTION:

Acreage - 10 ac.

Barn -

Outbuildings - Greenhouses (2), metal shed

Silo -

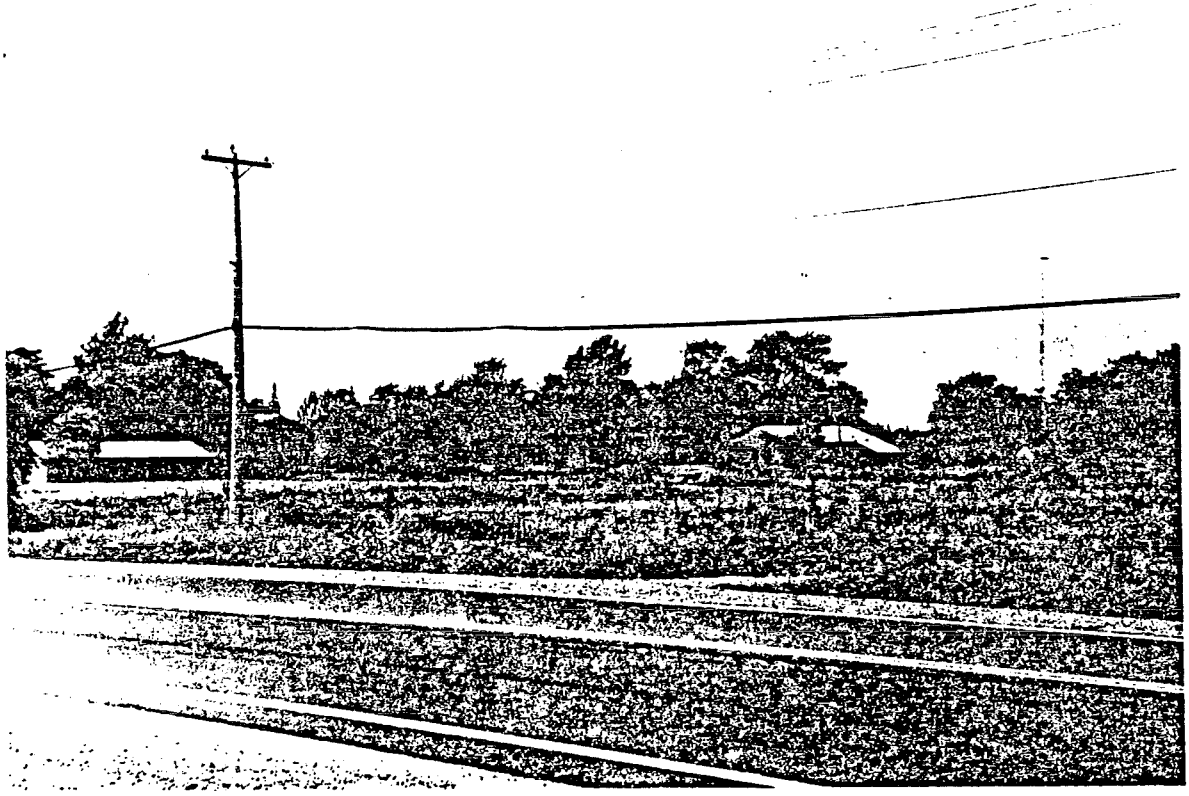
Grain Bin -

Livestock -

Crops - Beans, vegetables, flowers

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. C-08 WW8301



LOCATION: Lot 12, Concession 1N (East of Trafalgar Rd.)
3371 Trafalgar Rd.

OWNER: Nina & Vladmir Shaparew TENANT: Wladislaw Salewski

DESCRIPTION:

Acreage - 86 ac.

Barn - Metal frame - fair condition

Outbuildings -

Silo -

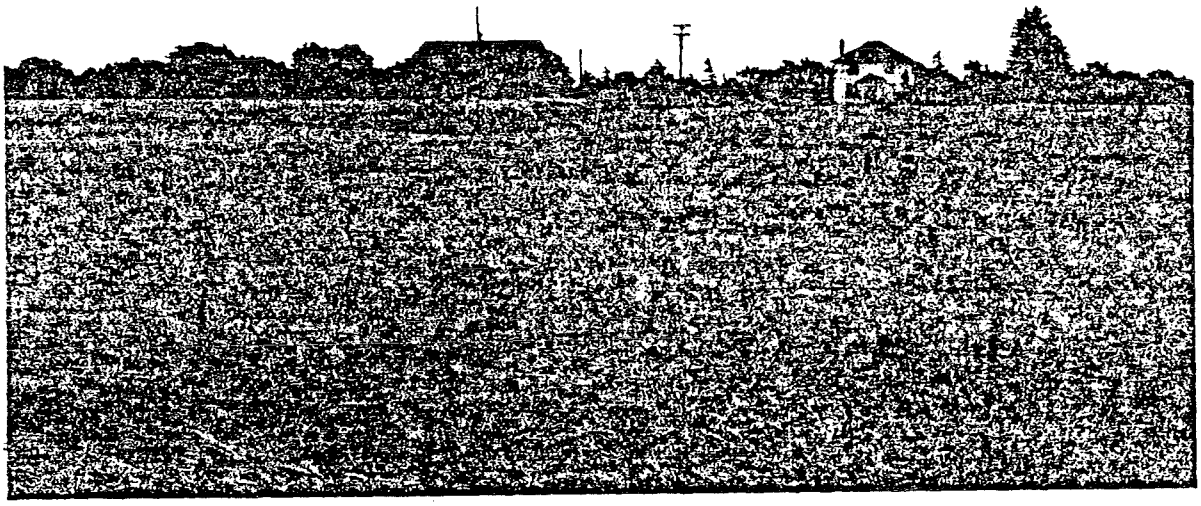
Grain Bin -

Livestock -

Crops - Pasture

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. D-05 WW8301



LOCATION: Lot 3, Concession 2 (West of Hwy 25)
5406 Hwy 25

OWNER: Miller-Figa Investments Ltd. TENANT:

DESCRIPTION:

Acreage - 10 ac.

Barn - Wood frame - fair condition

Outbuildings -

Silo -

Grain Bin -

Livestock -

Crops - Barley

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. D-12 WW8301

LOCATION: Lot 3, Concession 2 (East of First Line Rd)
5357 First Line Rd.

OWNER: Clare F. Ford TENANT:

DESCRIPTION:

Acreage - 1 ac.

Barn - Wood frame - fair condition

Outbuildings -

Silo -

Grain Bin -

Livestock -

Crops - Beans

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. D-13 WW8301

LOCATION: Lot 4, Concession 2, (East of First Line Rd.)
5629 First Line Rd.

OWNER: W.T. Martin (Doreen & Watkin) TENANT: Dick Marshall

DESCRIPTION:

Acreage - 50 ac.

Barn -

Outbuildings - 2 airplane hangers

Silo -

Grain Bin -

Livestock -

Crops - Oats

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. E-06 WW8301

LOCATION: Lot 7, Concession 7 (West of Tremaine Rd.)
6270 Tremaine Rd.

OWNER: Mogil Properties Ltd. TENANT: William Estabrooks

DESCRIPTION:

Acreage - 102 ac.

Barn - Wood frame - fair condition

Outbuildings - Wood frame implement shed - fair condition

Silo -

Grain Bin -

Livestock -

Crops - Soybean

HALTON REGION LANDFILL ENVIRONMENTAL ASSESSMENT

FARM NO. E-07 WW8301

LOCATION: Lot 8, Concession 7, (West of Tremaine Rd.)
6400 Tremaine Rd.

OWNER: H. Vanzwol (Helen & Henry) TENANT: Vanzwol Trucking 6400 Tremaine Rd.

DESCRIPTION:

Acreage - 197 ac.

Barn - Wood frame - fair condition

Outbuildings - Wood frame shed

Silo -

Grain Bin - 1 steel

Livestock - beef calf feeder - finisher (spring-to-fall)

Crops - fenced pasture

APPENDIX C

Bibliography