Submitted to:

The City of Brampton

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TECHNICAL APPENDIX:

MASTER ENVIRONMENTAL SERVICING PLAN: HIGHWAY 427 INDUSTRIAL SECONDARY PLAN AREA ("AREA 47")

submitted by:

Aquafor Beech Limited

09 May, 2016

Aquafor Beech Reference: 64608.1

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APPENDIX A:

GEOTECHNICAL INVESTIGATION REPORT

(AME, June 2013)

AME

Materials Engineering

GEOTECHNICAL INVESTIGATION REPORT
PROPOSED STORMWATER MANAGEMNENT PONDS
AND SLOPE STABILITY STUDIES
AREA 47 SECONDARY PLAN
CITY OF BRAMPTON, ONTARIO

Project No. 40398.201

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3 copies - Aquafor Beech Limited
1 copy - AME Materials Engineering

June 2013

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1 INTRODUCTION

AME - Materials Engineering ("AME") was retained by Aquafor Beech Limited ("ABL") to carry out a geotechnical investigation for a parcel of rural land located in the northeast portion of the City of Brampton, Ontario that is being considered for residential development. The area for the investigation is located between Castlemore Road and Mayfield Road, and between Regional Road 50 and The Gore Road. It is designated as Area 47 Secondary Plan according to the Master Environmental Servicing Plan (MESP). A Site Location Plan is provided as Drawing No. 1-1 in Appendix 1.

We understand that within the area for the proposed development, twenty-six (26) potential stormwater management pond sites have been identified by the MESP study team. We also understand that six (6) locations were identified adjacent to the existing watercourses which require slope stability assessments to determine the long term stable slope lines. The locations and reference numbers of the potential stormwater management ponds and existing slopes are shown on Drawing No. BH-1, titled General Plan Borehole Locations prepared by Candevcon Limited and provided for our use.

The purpose of the investigation is to characterize the underlying subsoil and groundwater conditions, to determine the relevant geotechnical properties of encountered soils and to provide conceptual design advice with respect to the construction of the proposed stormwater management ponds. It is also required to determine the safety factor of the subject slopes with respect to sliding failure and their long term stable top of slope lines. It is assumed that any preliminary/conceptual design work will be in accordance with the applicable engineering codes and standards.

A total of thirty-one (31) boreholes were required by ABL to be put down at the site, which included twenty-six (26) boreholes for the proposed ponds and five (5) boreholes for slope stability studies. At the time of reporting, permission has not been granted (by the land owners) to enter the properties for drilling the boreholes at the proposed ponds designated G3, R4a, C5b

and C6. In this regard, Mr. Grey Frew advised (by e-mail on April 4, 2013) that drilling of these boreholes were not required.

This report presents the results of the investigation performed in accordance with the terms of reference outlined above.

2 SITE DESCRIPTION

The parcel of land that is proposed for residential development is trapezoidal in shape. It is bounded by Regional Road 50 on the east, The Gore Road on the west, Castlemore Road on the south and Mayfield Road on the north. The lands are separated by the existing Countryside Drive that runs in an east-to-west direction and by Clarkway Drive in a north-to-south direction.

The proposed development site consists of mainly agricultural farm fields. According to Drawing No. BH-1 (General Plan Borehole Locations prepared by Candevcon Limited), a total of 128 properties are located within the proposed development site.

A rectangular section of land, located at an approximate distance of 700 m east of The Gore Road extending from Countryside Drive to Mayfield Road has been developed into low rise residential sub-division and serviced with local roads. This parcel of land is outside the boundaries of the area of investigation.

Tributaries of the West Humber River traverse the east and central-west sections of the site in an approximately northeast to southwest direction. Drawing No. CS-2 (titled Slope Stability Study Areas, Plans and Cross Sections) prepared by Candevon Limited shows that the east tributary is now known as Clarkway Tributary and the central-west tributary as Gore Road Tributary.

3 FIELD WORK

The field work was carried out during the period between November 13 and 22, 2012. The locations of the boreholes were laid out and surveyed in the field by MESP study team's surveyor. Personnel from Candevon Limited were present at the site during field work to provide assistance in accessing the properties.

As mentioned in Section 1, the geotechnical investigation originally consisted of a total of thirty one (31) boreholes which included twenty six (26) boreholes for the proposed stowmwater management ponds and five (5) boreholes for slope stability studies. Four (4) boreholes referenced PG3, P4A, PC5B and PC6 were not drilled at the pond sites as permission was not granted by the land owners to enter the properties for the work. As such, only twenty seven (27) boreholes were competed under this investigation.

The boreholes were drilled to depths ranging from 9.2 m to 10 m below grade, or to complete refusal of flight augering and/or split spoon penetration (from Standard Penetration Test). Borehole PG5A was terminated at a shallower depth of 6.9 m due to auger refusal, accompanied by significant caving of the water bearing soils at depth.

Monitoring wells were installed at nine (9) borehole locations PC2, PC3, PG1, PG4, PG7, PR1, P4B, PR7 and PR9 for long term monitoring of the groundwater levels. The locations of the monitoring wells were determined by ABL.

The locations of the boreholes are shown on the attached Borehole Location Plan, Drawing No. 1-2, Appendix 1.

The boreholes were advanced to the sampling depths by means of continuous flight solid stem augers. Standard Penetration Tests (SPT) were carried out at frequent intervals of depth and representative samples were recovered using split spoon samplers. The results of the Standard Penetration Tests in terms of 'N' values have been used to infer the consistency of cohesive soils or the relative density of non-cohesive soils encountered in the boreholes.

The undrained shear strength of cohesive soils was estimated in the field using a pocket penetrometer.

All the soil samples recovered from the boreholes were examined in the field and carefully preserved for further examination in the laboratory. Groundwater observations were made in each borehole during and upon completion of drilling.
The fieldwork was performed under the full-time supervision of experienced geotechnical personnel from **AME**.

The Logs of Boreholes numbered as Figure Nos. 2-1 to 2-27 are enclosed in Appendix 2.

It should be noted that the boundaries of soil types indicated on the borehole logs are inferred from non-continuous soil sampling and observations made during drilling. These boundaries are intended to reflect transition zones for the purpose of geotechnical design, and therefore, should not be construed as the exact plane of geological change.

4 LABORATORY WORK

The soil samples recovered from the boreholes were transported to our laboratory for detailed examination, soil classification and laboratory testing. The natural moisture contents of approximately 50% of the samples were determined by oven drying in the laboratory. The natural moisture content data, soil description and Standard Penetration Test N-values are presented on the Logs of Boreholes, Figure Nos. 2-1 to 2-27, Appendix 2.

Sieve and hydrometer analyses were carried out on twenty three (23) representative samples of the native soils obtained from the boreholes at depths ranging from approximately 3 m to 7.5 m below grade. In addition, sieve analysis was also carried out on two water bearing gravelly sand samples obtained from Boreholes PG2 (6.1 m depth) and PG5A (4.6 m depth), and one silty sand sample from PR2 (2.3 m depth). The grain size analysis results are presented as Figures 3-1 through 3-26 in Appendix 3, and summarized in Table 1 below.

Table No. 1. Summary of Grain Size Analyses for Native Soil Samples

Borehole No.	Approx. Sample Depth	Approximate Sample Elevation	Sample Description	Gravel %	Sand %	Silt %	Clay %
PC1	4.6 m	198.52 m	Grey clayey silt / silty clay till	5.2	17.9	43.1	33.8
PC2	7.6 m	196.14 m	Grey clayey silt / silty clay till	4.8	15.9	57.4	21.9
PC3	7.6 m	205.06 m	Grey sandy silt till	6.0	35.3	48.7	10.0
PC4	4.6 m	209.51 m	Brown clayey silt / silty clay till	0.6	14.1	45.1	40.2
PC5A	6.1 m	213.78 m	Grey clayey silt / silty clay till	2.7	16.9	46.2	34.2
PG1	4.6 m	196.50 m	Grey sandy silt till	12.5	31.4	46.1	10.0
PG2	3.1 m	199.13 m	Brown clayey silt / silty clay till	2.3	13.5	44.7	39.5
PG2	6.1 m	196.13 m	Grey gravelly sand *	15.2	71.2	13.6	
PG4	4.6 m	205.26 m	Grey sandy silt till	2.2	26.5	55.1	16.2
PG5A	4.6 m	201.38 m	Grey gravelly sand *	9.2	80.2	10.6	
PG6	6.1 m	208.03 m	Grey sandy silt till	8.5	33.2	47.6	10.7
PG7	6.1 m	210.68 m	Grey silt / fine sandy silt	-	20.6	72.5	6.9
PG8	7.6 m	210.32 m	Grey sandy silt	4.6	28.1	61.7	5.6
PR1	4.6 m	200.71 m	Grey clayey silt / silty clay till	3.7	23.5	46.2	26.6
PR2	2.3 m	202.83 m	Grey silty sand *	19.7	39.5	40.8	
PR2	4.6 m	200.53 m	Grey sandy silt till	5.3	33.2	49.5	12.0
PR3	6.1 m	205.07 m	Grey silty sand till	24.5	38.6	32.5	4.4
PR5	6.1 m	208.02 m	Grey clayey silt / silty clay till	0.3	7.0	70.6	22.1
PR6	4.6 m	218.00 m	Grey clayey silt / silty clay till	0.1	4.5	51.5	43.9
PR7	6.1 m	208.74 m	Grey sandy silt till	3.8	30.0	49.4	16.8
PR8	2.3 m	216.93 m	Brown clayey silt / silty clay till	2.8	18.8	41.2	37.2
PR9	4.6 m	218.65 m	Grey clayey silt / silty clay till	5.0	23.7	43.8	27.5
SS1	4.6 m	209.74 m	Grey clayey silt / silty clay till	3.5	17.7	44.9	33.9

Table No. 1.
Summary of Grain Size Analyses for Native Soil Samples

Borehole No.	Approx. Sample Depth	Approximate Sample Elevation	Sample Description	Gravel %	Sand %	Silt %	Clay %
SS2	3.1 m	204.59 m	Brown clayey silt / silty clay till	3.0	16.8	42.2	38.0
SS3	3.1 m	206.96 m	Grey clayey silt / silty clay till	1.9	21.1	43.9	33.1
SS5	3.1 m	200.95 m	Brown clayey silt / silty clay till	2.9	16.0	49.4	31.7

*Note: Sieve analysis only.

Atterberg Limits tests were carried out on five (5) representative samples of the native soils obtained from Boreholes SS1 (4.6 m depth), SS3 (3.1 m depth), SS4 (3.1 m depth), PC2 (4.6 m depth), and P4B (4.6 m depth). The results of the Atterberg Limits tests are presented on the Liquid and Plastic Limits Test Report, Figure 3-27 in Appendix 3, and summarized in Table 2 below.

Table No. 2.
Summary of Atterberg Limits Tests

Borehole No.	Approx. Sample Depth	Approx. Sample Elevation	Sample Description	Plastic Limit %	Liquid Limit %	Plasticity Index	Unified Soil Classification
SS1	4.6 m	209.74 m	Grey clayey silt / silty clay till	14	26	12	CL *
SS3	3.1 m	206.96 m	Grey clayey silt / silty clay till	14	27	13	CL*
SS4	3.1 m	202.82 m	Brown clayey silt / silty clay till	15	27	12	CL*
PC2	4.6 m	199.14 m	Grey clayey silt / silty clay till	16	28	12	CL*
P4B	3.1 m	213.19 m	Brown clayey silt / silty clay till	14	25	11	CL*

*Note: Inorganic clays of low to medium plasticity.

5 SUBSOIL AND GROUNDWATER CONDITIONS

Details of the subsurface conditions encountered in the boreholes are shown on the attached Logs of Boreholes, Figure Nos. 2-1 to 2-27, Appendix 2.

In general, all boreholes encountered a surface layer of topsoil, underlain by disturbed native soil, followed by glacial till deposits consisting of clayey silt, silty clay and sandy silt soils. Water bearing silt / sandy silt, silty sand and gravelly sand layers are also present in some of the boreholes. A brief description of the subsoil units and groundwater conditions are presented in Sections 5.1 to 5.7 below. The subsoil and groundwater conditions encountered at the slope stability study areas are also discussed for each of the slope locations in Sections 7 through 11 of this report.

It should be noted that the boundaries of soil types indicated on the borehole logs are inferred from non-continuous soil sampling and observations made during drilling. These boundaries are intended to reflect transition zones for the purpose of geotechnical design, and therefore, should not be construed as the exact plane of geological changes. The soil and groundwater conditions are confirmed at the borehole locations only, and may vary at other locations.

5.1 Topsoil

The thickness of the topsoil at the boreholes varied between approximately 250 mm and 450 mm. It should be noted that the topsoil thickness will vary between boreholes. Thicker topsoil than that found in the boreholes may be present in places.

5.2 Disturbed Native Soil

Disturbed native soil was encountered below the surface layer of topsoil in all the boreholes. The native soil consisted predominantly of clayey silt with trace of gravel. The upper portion of the deposit contained some organics and rootlets. The disturbed and weaker condition of this surface layer is likely due to previous crop cultivation and/or weathering due to repeated seasonal freeze-thaw cycles. The composition of the soil is similar to that of the underlying undisturbed, native glacial till but contains trace of organics. The disturbed native soil was mainly brown / dark brown to greyish brown and moist to wet.

The disturbed native soil extended to depths ranging from approximately 0.55 m to 1.0 m below existing grade. Standard Penetration Resistance in the disturbed native soil had 'N'-values ranging from 4 to 11 blows per 300 mm penetration, indicating a firm to stiff consistency. The moisture content of samples of the disturbed native soil ranged from approximately 16% to 32% by weight.

5.3 Clayey Silt / Silty Clay Till

Underlying the disturbed native soil, most of the boreholes encountered undisturbed glacial till deposits. The glacial till consisted predominantly of clayey silt / silty clay with some sand and trace of gravel. The glacial till deposits were layered, fissured and had occasional oxidized lenses. Cobbles and boulders are probably present but would not be representatively sampled with the equipment used in this investigation. The clayey silt / silty clay till were moist to wet, generally brown in color. The clayey silt / silty clay till change to grey with increasing depths.

The Standard Penetration Resistance in the upper brown clayey silt / silty clay till had "N" values ranging from 8 (at Borehole PG7) to in excess of 50 blows per 300 mm split spoon penetration, indicating a stiff to hard consistency. The grey till that is situated at greater depths possesses a very stiff to hard consistency with "N" values ranging from 15 (at Borehole PC4) to in excess of 50 blows per 300 mm split spoon penetration.

The undrained shear strength of the clayey silt / silty clay till was estimated in the field using a pocket penetrometer and the strength values are shown on the borehole logs.

The moisture content of samples of the brown clayey silt / silty clay till ranged from approximately 10% to 24%, and the grey clayey silt / silty clay till from 6% to 20%.

The Coefficient of Permeability (k) of the clayey silt / silty clay till is estimated to be in the range of 10^{-6} cm/sec to 10^{-7} cm/sec, indicating a very low permeability.

5.4 Sandy Silt Till

Below the clayey silt / silty clay till deposits, sandy silt till was encountered in Boreholes PC3, PC4, PG1, PG2, PG4, PG5A, PG5B, PG6, PG8, PR1, PR2, PR3, P4B, PR5, PR7, SS1, SS2,

SS4 and SS5. This till comprised mainly of silt with some sand and traces of clay and gravel. The sandy silt till is moist to wet, grey in color except at the location of PR5 which is brown at a shallower depth. It should be noted that the sandy silt deposit may likely contain cobbles and boulder size particles that could not be representatively recovered in the small diameter of the samples taken.

Standard Penetration resistance in the sandy silt till had "N"-values ranging from 10 (at PG5A/ 6.1 m depth) to in excess of 50 blows per 300 mm of split spoon penetration, indicating a loose/compact to very dense relative density. The moisture content of samples of sandy silt till ranged from approximately 6% to 16%.

The Coefficient of Permeability (k) of the sandy silt till is estimated to be in the range of 10^{-5} to 10^{-6} cm/sec, indicating a low permeability.

5.5 Silty Sand Till

Boreholes PG5B, PR1, PR3 and SS3 revealed that grey, wet, silty sand till is present at depths ranging from approximately 5.5 m to 8.5 m below grade. At PG5B and PR1, the silty sand till extended to the explored depths of the boreholes. The silty sand till has a matrix consisting predominantly of fine to medium sand as well as silt. The soil matrix also contains trace of clay and embedded gravel.

Standard Penetration Resistance in the silty sand till had "N" values ranging from 33 to greater than 50 blows per 300 mm of split spoon penetration, indicating a dense to very dense relative density. The moisture content of three samples of the silty sand till ranged from approximately 21% to 28% by weight.

The Coefficient of Permeability (k) of the dense to very dense silty sand till is estimated to be in the range of 10^{-4} to 10^{-5} cm/sec, indicating a low to medium permeability.

5.6 Water Bearing Soils

The water bearing soils that were encountered at the boreholes include:

- Silt to sandy silt, at Boreholes PG7 and PG8
- Silty sand, at Boreholes PG5A and PR2
- Gravelly sand, at Boreholes PG2, PG5A and SS3

The sandy silt at Borehole PG8 is situated between approximate depths of 7.0 m and 8.5 m, interspersed between the grey sandy silt till. At Borehole PG7, the silt / fine sandy silt stratum is situated from approximately 4 m depth, extending to the explored depth of the borehole. The silt to sandy silt possesses a very dense relative density and the moisture content of two samples approximated 20% to 21%. Close examination of the wet silt layer revealed that the material is not a glacial till soil.

The silty sand at Borehole PG5A is situated between the upper sandy silt till and the lower gravelly sand, which is also water bearing. The silty sand at Borehole PR2 is situated between the upper clayey silt / silty clay till and the lower sandy silt till. The relative density of the silty sand is compact at Borehole PG5A and dense at Borehole PR2.

At the locations of Boreholes PG2, PG5A and SS3, the gravelly sand layer was embedded in the glacial till soils at depths ranging from approximately 4 m to 7 m below grade. Based on the in situ Standard Penetration Test "N" values, the relative density of the gravelly sand layer is dense to very dense.

The water bearing silty sand and gravelly sand are estimated to have coefficient of permeability values of 10^{-4} cm/sec and 10^{-2} cm/sec respectively, indicating a medium to high permeability.

Based on our field observations of the groundwater conditions, the indications are that the silty sand and gravelly sand layers that are present at Boreholes PG2, PG5A and SS3 are under slight artesian pressure.

5.7 Clayey Silt

A grey clayey silt stratum was encountered below the sandy silt till at Boreholes P4B, PR5 and PR7, extending to the explored depths of these boreholes.

Close examination of this clayey silt layer revealed that the material is not a glacial till soil.

The clayey silt is moist and possesses a hard consistency, with Standard Penetration Test "N" values in excess of 50. The moisture content of four samples of the clayey silt ranged from approximately 12% to 15%.

5.8 Groundwater Conditions

Monitoring wells were installed in the Boreholes PC2, PC3, PR1, P4B, PR7, PR9, PG1, PG4 and PG7. Groundwater observations were made both upon drilling completion of the boreholes and subsequently in the installed monitoring wells. Groundwater levels in all the wells were monitored in December 2012 and March 2013 as part of the long term groundwater monitoring program. The groundwater measurements made in the monitoring wells are summarized in the Table No. 3 below and the groundwater observations made in the open boreholes are shown on the individual borehole logs.

Table No. 3.
Summary of Groundwater Measurements at the Monitoring Wells

Borehole No.	Ground Surface Elevation	Groundwater Level					
		Upon Completion of Drilling		December 3, 2012		March 19, 2013	
		Depth	Elevation	Depth	Elevation	Depth	Elevation
PC2	203.74 m	Dry (Nov. 21, 2012)	-	1.27 m	202.47 m	1.24 m	202.50 m
PC3	212.66 m	Dry (Nov. 20, 2012)	-	2.04 m	210.62 m	1.44 m	211.22 m
PR1	205.31 m	Dry (Nov. 20, 2012)	-	0.9 m	204.41 m	0.71 m	204.60 m
P4B	213.19 m	Dry (Nov. 21, 2012)	-	1.32 m	211.87 m	0.82 m	212.37 m
PR7	214.84 m	2.7 m (Nov. 22, 2012)	212.14 m	1.31 m	213.53 m	1.29 m	213.55 m
PR9	223.25 m	Dry (Nov. 19, 2012)	-	3.1 m	220.15 m	2.52 m	220.73 m
PG1	201.10 m	5.5 m (Nov. 13, 2012)	195.60 m	1.94 m	199.16 m	1.58 m	199.52 m
PG4	209.86 m	6.5 m (Nov. 15, 2012)	203.36 m	2.08 m	207.78 m	1.75 m	208.11 m
PG7	216.78 m	4.8 m (Nov. 16, 2012)	211.98 m	2.65 m	214.13 m	2.28 m	214.50 m

It should be noted that groundwater levels are subject to seasonal fluctuations depending on the amount of precipitation and runoff. The groundwater levels are affected by the topography of the site and the relative permeability of the soil deposits. In general, the clayey silt / silty clay till deposit beneath the surface topsoil/disturbed native soil is of low permeability and does not permit the free flow of water in a short period of time. However, the glacial till contains preferentially permeable lenses of sandy materials which can contain stored water locally.

Based on our observations, the indications are that the groundwater encountered at the monitoring wells is emanating from the wet sand layers embedded in the glacial till soils, as well as from the wet sandy silt till at Borehole PG1 below approximately 6 m depth.

The groundwater encountered at the monitoring well installed at PG7 is derived from the wet silt to fine sandy silt stratum.

6 DISCUSSIONS AND RECOMMENDATIONS – STORMWATER MANAGEMENT PONDS

6.1 General

The following discussions and recommendations are based on the factual data obtained from the boreholes drilled at the proposed stormwater management pond ("SWMP") sites, and are intended for use by the project's design engineers only.

6.2 Pond Excavation and Construction Dewatering

The design bottom elevations of the proposed ponds were not available at the time of reporting. In this regard, ABL advised that the bottom of the pond would be up to 8 m in depth below grade.

The following table summarizes the anticipated subsurface conditions to be encountered and the construction conditions at the proposed SWMP sites.

Table No. 4.
Summary of Construction Conditions for Proposed Stormwater Management Ponds

Proposed Pond Reference No.	Borehole No.	Ground Elevation (at Borehole Location)	Anticipated Soil to be excavated	Anticipated Groundwater Elevation (m)	Comments on Construction Dewatering
C1	PC1	203.12 m	Very stiff to hard clay till.	Dry at borehole location.	Minor groundwater seepage is expected from the till soils. Active dewatering is not anticipated.
C2	PC2	203.74 m	Very stiff to hard clay till.	202.50 m (from monitoring well, March 2013)	Minor groundwater seepage is expected from the till soils. Active dewatering is not anticipated.
C3	PC3	212.66 m	Very stiff to hard clay till, followed by very dense sand till.	211.22 m (from monitoring well, March 2013)	Minor groundwater seepage is expected from the till soils, particularly the lower sand till. Active dewatering is not anticipated.
C4	PC4	214.11 m	Stiff to very stiff clay till, followed by very dense sand till.	206.2 m (from open borehole)	Minor groundwater seepage is expected from the till soils, particularly the lower sand till. Active dewatering is not anticipated.
C5a	PC5A	219.88 m	Very stiff to hard clay till.	Dry at borehole location.	Minor groundwater seepage is expected from the till soils. Active dewatering is not anticipated.
G1	PG1	201.10 m	Very stiff clay till, followed by very dense sand till.	199.52 m (from monitoring well, March 2013)	Minor groundwater seepage is expected from the till soils, particularly the lower sand till. Active dewatering is not anticipated.
G2	PG2	202.23 m	Very stiff clay till, very dense sand till and wet gravelly sand, followed by hard clay till.	197.7 m (from open borehole)	Minor to moderate groundwater seepage is expected from the till soils, particularly the lower sand till. Active dewatering may be required to dewater the gravelly sand stratum between approximate elevations 194.5 m and 197 m.

Table No. 4
Summary of Construction Conditions for Proposed Stormwater Management Ponds

Proposed Pond Reference No.	Borehole No.	Ground Elevation (at Borehole Location)	Anticipated Soil to be excavated	Anticipated Groundwater Elevation (m)	Comments on Construction Dewatering
G4	PG4	209.86 m	Very stiff to hard clay till, followed by sand till.	208.11 m (from monitoring well, March 2013)	Minor groundwater seepage is expected from the till soils, particularly the lower sand till. Active dewatering is not anticipated.
G5a	PG5A	205.98 m	Very stiff clay till, compact sand till, wet compact silty sand and dense gravelly sand, followed by loose to compact sand till.	204.68 m (from open borehole)	Minor to moderate groundwater seepage is expected from the sand till. Active dewatering may be required to dewater the wet silty sand and gravelly sand layers between approximate elevations 200.5 m and 202.8 m.
Proposed Pond Reference No.	Borehole No.	Ground Elevation (at Borehole Location)	Anticipated Soil to be excavated	Anticipated Groundwater Elevation (m)	Comments on Construction Dewatering
G5b	PG5B	212.89 m	Very stiff clay till, followed by very dense sand till.	206.49 m (from open borehole)	Minor groundwater seepage is expected from the till soils, particularly the lower sand till. Dewatering may be required if excavation is extending close to elevation 204.5 m where wet silty sand till is present.
G6	PG6	214.13 m	Very stiff to hard clay till, followed by very dense sand till.	205.93 m (from open borehole)	Minor groundwater seepage is expected from the till soils, particularly the lower sand till. Active dewatering is not anticipated.
G7	PG7	216.78 m	Stiff to hard clay till, followed by very dense silt to sandy silt.	214.50 m (from monitoring well, March 2013)	Minor groundwater seepage is expected from the till soils, particularly the lower silt to sandy silt stratum. Dewatering may be required for the wet silt / fine sandy silt layer below an approximate elevation 212.8 m.

Table No. 4
Summary of Construction Conditions for Proposed Stormwater Management Ponds

Proposed Pond Reference No.	Borehole No.	Ground Elevation (at Borehole Location)	Anticipated Soil to be excavated	Anticipated Groundwater Elevation (m)	Comments on Construction Dewatering
G8	PG8	217.92 m	Very stiff to hard clay till, very dense sand till, followed by wet sandy silt.	212.12 m (from open borehole)	Minor groundwater seepage is expected from the till soils. It may be necessary to dewater the wet sandy silt stratum between approximate elevations 209.4 m and 211 m.
R1	PR1	205.31 m	Stiff to hard clay till, followed by very dense sand till.	204.60 m (from monitoring well, March 2013)	Minor groundwater seepage is expected from the till soils, particular the lower sand till. Dewatering may likely be required if excavation is extending close to elevation 197 m where wet silty sand till is present.
R2	PR2	205.13 m	Very stiff to hard clay till, wet dense silty sand, followed by compact to very dense sand till.	202.4 m (from open borehole)	Minor to moderate groundwater seepage is expected from the till soils, particularly the lower sand till. It may be necessary to dewater the upper silty sand stratum between approximate elevations 202 m and 203 m.
R3	PR3	211.17 m	Very stiff to hard clay till, wet very dense sand till, followed by hard clay till.	206.97 m (from open borehole)	Minor to moderate groundwater seepage should be expected from the till soils, particularly the lower wet sand till. It may be necessary to dewater the silty sand stratum between approximate elevations 204 m and 206 m.
R4b	P4B	213.19 m	Very stiff to hard clay till, followed by compact to very dense sand till.	212.37 m (from monitoring well, March 2013)	Minor groundwater seepage should be expected from the till soils, particularly the lower sand till. Active dewatering is not anticipated.
R5	PR5	214.12 m	Very stiff to hard clay till, very dense sand till, followed by hard silty clay.	210.1 m (from open borehole)	Minor to moderate groundwater seepage should be expected from the till soils, particularly the lower sand till. Active dewatering is not anticipated.

Table No. 4
Summary of Construction Conditions for Proposed Stormwater Management Ponds

Proposed Pond Reference No.	Borehole No.	Ground Elevation (at Borehole Location)	Anticipated Soil to be excavated	Anticipated Groundwater Elevation (m)	Comments on Construction Dewatering
R6	PR6	222.60 m	Very stiff to hard clay till.	Dry at borehole location.	Minor groundwater seepage should be expected from the till soils. Active dewatering is not anticipated.
R7	PR7	214.84 m	Very stiff to hard clay till, followed by hard silty clay.	213.55 m (from monitoring well, March 2013)	Minor to moderate groundwater seepage should be expected from the till soils. Active dewatering is not anticipated.
R8	PR8	219.23 m	Very stiff to hard clay till.	Dry at borehole location.	Minor groundwater seepage should be expected from the till soils. Active dewatering is not anticipated.
R9	PR9	223.25 m	Firm to hard clay till.	220.73 m (from monitoring well, March 2013)	Minor groundwater seepage should be expected from the till soils. Active dewatering is not anticipated.

Remarks: 1. Clay till includes clayey silt / silty clay till soils.
2. Sand till includes sandy silt / silty sand till soils.

Based on the subsoil conditions encountered at the boreholes and the groundwater monitoring results, the indications are that it may be necessary to install a temporary active dewatering system utilizing vacuum well points to dewater the gravelly sand layer at SWMPs G2 and G5a, as well as the wet silty sand layers at SWMPs G5a and R2. It may also be necessary to dewater the wet silty sand till at SWMP R3 and the wet sandy silt till at SWMP G1. The anticipated dewatering depths at the pond locations are shown in Table 4 above.

We are of the opinion that it will not be necessary to dewater the silt to sandy silt layers at SWMPs G7 and G8 using an active system as the material is a fine grained soil.

Excavation for the proposed SWMPs should be carried out to allow sufficient time for the cut slopes to drain. Where the surrounding grades permit, the ponds should be excavated and ditches or sub-drains/trenches installed to allow for gravity drainage in advance of final base grades and side-slopes excavated, to allow the groundwater to drain thereby reducing the risk of instability along the side-slopes as well as disturbance/softening and heaving of the subgrade soils. Consideration should be given to sequencing the excavation to allow construction of the drainage outlet pipes first to provide a passive drainage system for dewatering during the actual pond excavations.

6.3 Pond Construction

Based on the borehole findings, the indications are that it will be necessary to install a liner system at the base as well as on the side-walls of the proposed SWMPs G1, G2, G5a, G7, G8 and R3. It may also be necessary to install liner on the walls of SWMP R2 where wet sandy soils were encountered between approximate elevations 202 m to 203 m.

Wet silty sand till is present at Boreholes PG5B and PR1 at some 8.5 m depth (below existing grade). Provisions should be made to installing a liner system at the base of these two ponds.

Liner options include the use of geosynthetics (e.g. geomembrane) or soil (compacted low permeability clay liner). The installation of a compacted clay liner is considered to be more standard construction practice as compared to the more specialized procedures/specifications for geosynthetic liners. The compacted clay liner should consist of a minimum of 600 mm thick layer of low permeability clay soil with sufficient thickness of ballast/cover soil to counteract hydrostatic pressures. The thickness of the clay liner and ballast should be determined after the depths of the ponds have been determined. It is recommended that, once the design data for the pond facilities are known, AME be given the opportunity to review the design and provide further recommendations regarding the clay liner thickness.

The side slopes of the berms and the cuts should not be steeper than 3H:1V, flattened to a maximum of 5H:1V below the wet perimeter.

Recommendations on the clay liner materials are detailed in the Section 6.3 of this report.

It is also recommended that the groundwater level be maintained at sufficient depth below the pond design excavation level in order to accommodate the thickness of the clay liner and ballast /cover soil below the design bottom elevation of the ponds.

Depending on the groundwater level and the rate of water seepage into the excavations during construction, water may need to be introduced into the ponds immediately after the liner and ballast/cover soil are completed in order to prevent basal heave of the liner, once dewatering of the pond excavation if so required has ceased. The possibility of basal heave of the liner system should be considered in future maintenance of the pond if the pond water is emptied and groundwater conditions are not allowed sufficient time to stabilize.

6.4 Recommendations on Clay Liner Materials

The clay liner should consist of native silty clay / clayey silt which are present within the pond excavation areas and in other cut areas within the subdivision. To be generally consistent with the native cohesive soils at the site, the clay liner should have the following properties:

- Plasticity Index greater than 7 percent.
- 100 percent of the particles passing 75 mm sieve.
- Not less than 50 percent of the particles, by weight, passing the 0.075 mm sieve.
- Not less than 15 percent of the particles, by weight, passing the 0.002 mm sieve.
- Placed in maximum 300 mm lifts and compacted to a minimum of 98% of Standard Proctor Maximum Dry Density of the material.

The ballast / cover soil should consist of earth fill available from the excavation of the pond or other cut areas and typically consist of silty clay / clayey silt till or sandy silt till. Ballast / cover soil should be placed in accordance with Special Provision 206S03 (Amendment to OPSS 206) in maximum 300 mm thick lifts and compacted to a minimum of 95% of Standard Proctor Maximum Dry Density of the material. In areas near inlet / outlet structures, suitable erosion protection should be provided.

6.5 Temporary Excavations

For temporary excavations (e.g. drainage pipes, structures, headwalls etc.), the surficial topsoil and firm to stiff silty clay / clayey silt and compact sandy silt are considered as Type 3 Soils. The very stiff to hard silty clay / clayey silt till and dense to very dense sandy silt / silty sand till are considered as Type 2 Soils according to the Occupational Health and Safety Act and Regulations for Construction Projects.

Temporary excavation for slopes in Type 3 Soils should not exceed 1.0 horizontal to 1.0 vertical. Excavations in Type 2 Soils may be cut with vertical side-walls within the lower 1.2 m height of excavation and 1.0 horizontal to 1.0 vertical above this height, provided that groundwater is allowed sufficient to drain. For excavations through multiple soil layers, the side slope geometry is governed by the soil with the highest number designation. Locally, where loose or soft soil is encountered at shallow depths or within zones of persistent seepage, it may be necessary to flatten the side slopes as necessary to achieve stable conditions. Excavation side-slopes should not be unduly left exposed to inclement weather.

Where workers must enter excavations extending deeper than 1.2 m below grade, the excavation side-walls must be suitably sloped and/or braced in accordance with the Occupational Health and Safety Act and Regulation for Construction Projects.

7 STABILITY ASSESSMENT FOR SLOPE NO. 1

7.1 Conditions of Slope

Slope No. 1 is a natural slope located immediately adjacent to the stream course which is running in an approximate east-to-west direction. The photographs below depict the general conditions of the slope (looking west).

The slope face in general is covered with medium vegetation except at the east-central section which is bare. The slope face is dry, and no sign of any groundwater seepage was observed throughout the height of the slope. The table land near the crest of slope is also well covered with medium vegetation which prevents drainage of surface runoff from the table land over the face of the slope.

The alignment of the stream course was seen meandering along the toe of the slope. The meander brings the stream course close to the slope toe at some locations, as well as creating large distance between the slope toe to the edge of stream bank, generally less than 15 m.

Active erosion was visible along some sections of the stream bank.

The east-central section of the slope is heavily eroded and not covered by any vegetation. At these locations, significant erosion pathways are visible throughout the slope faces.

At the critical area close to Borehole SS1, deeply incised erosion is present close to the crest of slope.

Tension cracks were not observed along the slope crest.

The conditions of the slope were inspected by AME on November 6, 2012, using the Slope Stability Rating Chart document of the Ontario Ministry of Natural Resources. At the critical area (in the proximity of Borehole SS1), AME rated the slope section as having an instability rating value of 47, corresponding to a "moderate potential of instability", and a requirement for detailed geotechnical investigation. The slope inspection record and slope stability rating chart are enclosed in Appendix 4.

A total of five (5) cross sections (referenced Sections 1-1, 1-2, 1-3, 1-4 and 1-5) were prepared by the study team's surveyor. A location plan of the cross sections as well as the slope section profiles are provided in Appendix 4 of this report. The following table summarizes the slope height, slope inclination and distance from the slope toe to the edge of water at the cross section locations.

Section No.	Approximate vertical height of slope	Slope Inclination (degrees to horizontal)	Approximate distance from slope toe to edge of water
1-1	4.5 m	~ 27°	2.4 m
1-2	4 m	~ 21°	15.5 m
1-3	3.6 m	~ 20°	14 m
1-4	6.3 m	~ 23°	6.2 m
1-5	7.4 m	~ 31°	5.8 m

According to the above section profiles, the critical slope section is represented by Section 1-5. This slope section has a vertical height of 7.4 m and an inclination of 31° angle to the horizontal (~1V:1.65H).

7.2 Subsoil and Groundwater Conditions

Borehole SS1 reveals that below the surficial topsoil and disturbed native clayey silt, the subsoil consists of brown, stiff, clayey silt / silty clay till. The brown till changes to grey at an approximate depth of 2.1 m (Elevation 212.24 m), and possesses a very stiff consistency. Below the grey till is a layer of very dense sandy silt till, situated between approximate Elevation 207.3 m and 205.8 m (7 m to 8.5 m in depth), followed by hard grey clay till extending to the explored depth of the borehole.

Groundwater was not encountered in Borehole SS1 upon completion of its drilling.

Based on the findings from Borehole SS1 and using a vertical slope height of 7.4 m, the indications are that at the critical areas (in the vicinity of Sections 1-4 and 1-5) of Slope No. 1, the subsoil consists of predominantly stiff to very stiff clayey silt / silty clay till, followed by very dense sandy silt till situated at a depth close to the toe elevation of the slope.

7.3 Soil Strength Parameters and Groundwater Level used in Slope Stability Analysis

Soil strength parameters used in the slope stability analysis were based on the results of the in situ Standard Penetration Tests at Borehole SS1, together with the results of the grain size distribution test and Atterberg Limits test from the split spoon sample at 4.6 m depth.

To a depth of 0.9 m below grade, the topsoil and the near surface native soil (clayey silt) possess a very soft consistency. Below this depth, the brown clayey silt / silty clay till possess a stiff consistency, with "N" values ranging from 9 to 13. The underlying grey clay till has higher shear strength with "N" values ranging from 18 to 25. Below the clay till the sandy silt till has a very dense relative density, as indicated from "N" values in excess of 50.

Using the in situ testing results and the particle size distribution of the glacial till, our assessment is that the shear strength of the clayey silt / silty clay till is derived mainly from cohesion. The glacial deposit also contains sand with trace of gravel, therefore, its shear strength is augmented by internal friction.

Based on the borehole findings, we have categorized the subsoil into four strata. The soil parameters used in the stability analyses are shown on the following table.

Material Type	Unit weight (kN/m³)	Cohesion (kPa)	Frictional Angle
Native clayey silt (0 m to 0.9 m)	18	0	7°
Brown clay till (0.9 m to 2.2 m)	20	8	15°
Grey clay till (2.2 m to 7 m)	21	10	18°
Grey sandy silt till (below 7 m)	21	0	35°

The subject slope was analyzed without any groundwater (i.e., dry condition).

7.4 Stability Analysis and Safety Factor against Sliding Failure

The analysis was carried out using the Slope/W computer program, which determines the minimum factor of safety for moment equilibrium assuming circular failure surfaces. The Morgenstern-Price method employing effective stress was used to calculate the minimum factor of safety against circular failure. This method of analysis was also used for Slope Nos. 2 to 6.

For planning and land development purposes, the Toronto and Region Conservation Authority (TRCA) policy guidelines requires a minimum design Safety Factor (S.F.) of 1.5 against sliding failure. This S.F. was adopted for stability assessment of all the six (6) slopes under this study.

The stability analysis reveals that the existing Slope No. 1 has a safety factor of 1.24 against sliding failure. The result is shown on Drawing No. 4-1 in Appendix 4.

In this regard, it will be necessary to establish the Long Term Stable Top of Slope (LTSTOS) line. Accordingly, a slope line of 1V:2.5H (21.8° angle to horizontal) will provide a safety factor of 1.59 against sliding failure. The results of the stability analysis with a stable slope line of 1V:2.5H is shown on Drawing 4-2 in Appendix 4. This drawing also shows that the required stable slope allowance (stability setback) is located at a horizontal distance of 5 m landwards from the Sitewalk Line.

7.5 Toe Erosion Allowance

Our slope inspection revealed that the stream bank was eroded at some locations. The erosion however is not extensive and majority of the bank material is covered with vegetation (i.e. not bare).

Cross Sections 1-1 to 1-5 illustrate that the horizontal distances from the slope toe to the edge of water are mostly less than 15 m. As such, it will be necessary to include toe erosion setback. For A watercourse / river located within 15 m of a slope toe and where there is evidence of active erosion of the river bank, the Ontario Ministry of Natural Resources (MNR) requires a minimum Toe Erosion Allowance of "*5 m to 8 m for Stiff/Hard Cohesive Soil (clays, clayey silt),*

Coarse Granular (gravels) Tills", and "*8 m to 15 m for Soft/Firm Cohesive Soil, Fine Granular (sand, silt) Fill*".

Based on the findings from Borehole SS1, it is anticipated that at the critical slope locations (Sections 1-4 and 1-5), the subsoil close to the slope toe consists of very stiff clayey silt / silty clay till, or very dense sandy silt till.

The sandy silt till is considered to be a fine granular soil, and according to the MNR guidelines, the required Toe Erosion Allowance is between 8 m to 15 m. In this regard, given that the sandy silt till at Borehole SS1 has a very dense relative density (Standard Penetration Test "N" value > 50), we are of the opinion that using 8 m as the toe erosion setback would be sufficient for this assessment. A higher erosion setback distance would be necessary for soft/firm cohesive soil and fill material. The 8 m toe erosion setback also meets the requirement in the event the slope toe soil comprises very stiff clayey silt / silty clay till (i.e. a cohesive soil).

AME therefore recommends a Toe Erosion Allowance of 8 m for long term erosion control purposes. This setback distance forms the stable toe of slope line to which the stable slope component is measured landwards from.

7.6 Recommendations

Combining the stability and erosion components of total setback, it is recommended that at the critical slope Sections 1-4 and 1-5 (in the vicinity of Borehole SS1 where the slope face is bare), the Long Term Stable Top of Slope Line should be measured at a horizontal distance of 13 m landwards from the Sitewalk Line.

8 STABILITY ASSESSMENT FOR SLOPE NO. 2

8.1 Conditions of Slope

Slope No. 2 is a natural slope located immediately to the north of the existing stream course (Gore Road Tributary) which is running in an approximate northeast-to-southwest direction. The photographs below depict the general conditions of the slope (looking north).

General condition of Slope No. 2: The slope is lying at a gentle gradient, the lower section is covered with very dense vegetation, while the upper section is bare or sparsely vegetated.

In the vicinity of Borehole SS2, the slope section is steeper. The face of the slope at this location is bare, with signs of some erosion. It is also considered that some active erosion would have occurred at the slope toe in the past, close to the level of the water course.

The table land near the crest of slope is used as agricultural farmland. It is currently bare and would permit drainage of surface runoff over the face of slope.

There are no signs of tension cracks present on the slope crest.

The slope was inspected by AME on November 14, 2012, using the Slope Stability Rating Chart documented of the Ontario Ministry of Natural Resources. At the critical area (in the proximity of Borehole SS2), AME rated that the slope section as having an instability rating value of 45, corresponding to a "moderate potential of instability", with a requirement for detailed geotechnical investigation. The slope inspection record and slope stability rating chart are enclosed in Appendix 5.

A total of four (4) cross sections (referenced Sections 2-1, 2-2, 2-3 and 2-4) were prepared by the study team's surveyor. A location plan showing the locations of the cross sections as well as the slope section profiles are enclosed in Appendix 5 of this report. The following table summarizes the slope height, slope inclination and distance from the slope toe to the edge of water at the location of the cross sections.

Section No.	Approximate vertical height of slope	Slope Inclination (degrees to horizontal)	Approximate distance from slope toe to edge of water
2-1	1.6 m	~ 18°	4.6 m
2-2	1.8 m	~ 13°	13 m
2-3	1.4 m *	~ 48°	0.0 m
2-4	1.6 m	~ 10°	9.5 m

Actual slope height at the critical area (Section 2-3, as shown on the photo) is approximately 3.5 m. This height was estimated during our slope inspection on November 14, 2012. The slope height (1.4 m) that was shown on the surveyor's Section 2-3 was not used in the stability analysis.

Accordingly, the critical slope section is considered to have a vertical height of 3.5 m and an inclination of 48° angle to the horizontal (~1.1V:1H).

8.2 Subsoil and Groundwater Conditions

Borehole SS2 reveals that below the surficial topsoil and disturbed native clayey silt, the subsoil consists of brown, very stiff, clayey silt / silty clay till extending to approximately elevation 203.7 m (4 m in depth). The brown clayey silt / silty clay till is underlain by grey, very dense, sandy silt till extending to the explored depth of the borehole.

Groundwater was not encountered in Borehole SS2 upon completion of its drilling.

Based on the subsoil encountered at Borehole SS2 and using AME's estimated vertical slope height of 3.5 m, the indications are the Slope No. 2 is underlain by very stiff clayey silt / silty clay till. The very dense sand till is situated at a depth slightly below the bottom elevation of the slope.

8.3 Soil Strength Parameters and Groundwater Level used in Slope Stability Analysis

Soil strength parameters used in the slope stability analysis were based on the results of the in situ Standard Penetration Test "N" values at Borehole SS2, together with the results of the grain size distribution test from the split spoon sample at 3.1 m depth.

Borehole SS2 reveals that below the surficial topsoil and disturbed native soil, the brown clayey silt / silty clay till possess a very stiff consistency, with "N" values ranging from 21 to 28.

Using the in situ testing results and the particle size distribution of the clayey silt / silty clay till, our assessment is that the shear strength of the clayey silt / silty clay till is derived mainly from cohesion. The glacial deposit also contains sand and with trace of gravel, therefore, its shear strength is augmented by internal friction.

Based on the borehole finding, we have categorized the subsoil into three strata. The soil parameters used in the stability analyses are shown on the following table.

Material Type	Unit weight (kN/m³)	Cohesion (kPa)	Frictional Angle
Native clayey silt (0 m to 0.8 m)	18	0	10°
Brown clay till (0.8 m to 4 m)	21	10	18°
Grey sandy silt till (below 4 m)	21	0	35°

As the slope is located immediately adjacent to the tributary, it is possible that the stream water level may rise to higher elevations in the spring and during periods of heavy precipitation. As such, it will be necessary to consider that ground water is present within the slope during adverse conditions. For this reason, it is assumed that groundwater is situated at a depth of 1 m above the slope toe, although Borehole SS2 was dry upon completion of drilling.

8.4 Stability Analysis and Safety Factor against Sliding Failure

The stability analysis reveals that the existing slope has a safety factor of 1.34 against sliding failure. The result is shown on Drawing No. 5-1 in Appendix 5.

In this regard, it will be necessary to establish the Long Term Stable Top of Slope (LTSTOS) line. Accordingly, a slope line of 1V: 2H (26.5° angle to horizontal) will provide a safety factor of 1.56 against sliding failure. The results of the stability analysis with a stable slope line of 1V:2H is shown on Drawing 5-2 in Appendix 5. This drawing also shows that the required stable slope allowance (stability setback) is located at a horizontal distance of 0.5 m landwards from the Sitewalk Line.

8.5 Toe Erosion Allowance

Given that the existing stream course is running along the toe of the subject slope, it will be necessary to include the toe erosion setback. For watercourse/river located within 15 m of slope toe, the Ontario Ministry of Natural Resources requires a toe erosion allowance of 5 m to 8 m for stiff/hard cohesive soil (clays, clayey silt) where there is evidence of active erosion of the river bank.

Borehole SS2 reveals that the clayey silt / silty clay till that is situated close to the slope toe (at approximately 3 m to 3.5 m in depth) possesses a very stiff consistency (Standard Penetration Test "N" value = 25). In this regard, AME recommends a Toe Erosion Allowance of 8 m for long term erosion control purposes. This setback distance forms the stable toe of slope line to which the stable slope component is measured landwards from.

8.6 Recommendations

Combining the stability and erosion components of total setback, it is recommended that the Long Term Stable Top of Slope Line be measured at a horizontal distance of 8.5 m from the Sitewalk Line.

9 STABILITY ASSESSMENT FOR SLOPE NO. 3

9.1 Conditions of Slope

Slope No. 3 is a natural slope covered with both young and mature trees. Most of the trees are vertical. Our visual examination did not reveal any sign of instability such as tension cracks, slope movements and deep seated erosions. There was no water seepage from the slope face. The existing stream course (Clarkway Tributary) is located to the east of the slope, at distances very close to its north section, as well as at great distances from the south section of the slope.

The table land near the crest of slope is used as agricultural farm field. It was recently cropped. The indications are that prior to cropping, the table land is covered with vegetation which would prevent drainage of surface runoff from the table land over the face of the slope.

A general view of the slope in the vicinity of Borehole SS3. The slope face is covered by medium dense vegetation, as well as young and mature trees.

Another view of the conditions of Slope No. 3: Trees are established on the slope face and mainly vertical.

The conditions of the slope were inspected by AME on November 14, 2012, using the Slope Stability Rating Chart document of the Ontario Ministry of Natural Resources. At the critical area (in the proximity of Borehole SS3), AME rated that the slope section as having an instability rating value of 33, corresponding to a "slight potential of instability", and a requirement of a preliminary geotechnical study. The slope inspection record and slope stability rating chart is enclosed in Appendix 6.

A total of five (5) cross sections (referenced Sections 3-1, 3-2, 3-3, 3-4 and 3-5) were prepared by the study team's surveyor. A location plan showing the locations of the cross sections as well as the slope section profiles are enclosed in Appendix 6 of this report. The following table summarizes the slope height, slope inclination and distance from the slope toe to the edge of water at the cross section locations.

Section No.	Approximate vertical height of slope	Slope Inclination (degrees to horizontal)	Approximate distance from slope toe to edge of water
3-1	2.5 m	~ 11°	22.8 m
3-2	3 m	~ 10°	26.8 m
3-3	3.5 m	~ 29°	5.0 m
3-4	4.8 m	Top 2.3 m ~ 14° Bottom 2.5 m ~ 48°	0.0 m
3-5	4.3 m	Top 1.8 m ~ 17° Bottom 2.5 m ~28°	0.6 m

According to the above profiles, the critical slope section is represented by Section 3-4. This slope section has a vertical height of 4.8 m, its inclination varies from approximately 48° for the bottom 2.5 m high section and changes to 14° angle (to the horizontal) for the upper 2.3 m high section.

9.2 Subsoil and Groundwater Conditions

Borehole SS3 reveals that below the surficial topsoil and disturbed native clayey silt, the subsoil consists of brown, very stiff, clayey silt / silty clay till extending to Elevation 206.76 m (3.3 m depth below grade). Below this depth, the brown clayey silt / silty clay till changes to grey and possesses a stiff to very stiff consistency. The grey clayey silt / silty clay till is further underlain by dense wet silty sand till between Elevations 204.56 m and 203.06 m (approximately 5.5 m to 7 m in depth), followed by water bearing gravelly sand which in turn overlies hard clayey silt / silty clay till extending to the explored depth of the borehole.

Groundwater was encountered in the open borehole upon completion of its drilling, at Elevation 204.26 m (or 5.8 m below grade).

Based on the subsurface soil profile encountered at Borehole SS3 and using a vertical slope height of 4.8 m, the indications are that at the critical area (Section 3-4) of Slope No. 3, the subsoil consists of stiff to very stiff clayey silt / silty clay till. The wet silty sand till is situated at a depth slightly below the toe elevation of the critical slope section.

9.3 Soil Strength Parameters and Groundwater Level used in Slope Stability Analysis

Soil strength parameters used in the slope stability analysis were based on the results of the in situ Standard Penetration Tests at Borehole SS3, together with the results of the grain size distribution test and Atterberg Limits test from the split spoon sample at 3.1 m depth.

Borehole SS3 reveals that the upper brown clayey silt / silty clay till possesses a very stiff consistency with "N" values ranging from 19 to 25. The lower grey clay till has a stiff to very stiff consistency with "N" values of 12 to 19, its shear strength is slightly weaker than the brown

upper till. The silty sand till stratum that is situated below the clay till possesses a dense relative density with an "N" value is 33.

Using the in situ testing and the laboratory test results of the clayey silt / silty clay till, our assessment is that the shear strength of the clayey silt / silty clay till is derived mainly from cohesion. The glacial deposit also contains sand and with trace of gravel, therefore, its shear strength is augmented by internal friction.

Based on the borehole findings, we have categorized the subsoil into four strata. The soil parameters used in the stability analyses are shown on the following table.

Material Type	Unit weight (kN/m³)	Cohesion (kPa)	Frictional Angle
Native clayey silt (0 m to 0.8 m)	18	0	10°
Brown clay till (0.8 m to 3.3 m)	21	10	18°
Grey clay till (3.3 m to 5.5 m)	20	8	12°
Grey sand till (below 5.5 m depth)	20	0	33°

As the critical section of the slope (Section 3-4) is located immediately adjacent to the tributary, it is possible that the stream water level may rise to higher elevations in the spring and during periods of heavy precipitation. In addition, Borehole SS3 revealed that groundwater is present at Elevation 204.26 m. The indications are that the groundwater is derived from the wet silty sand till as well as the underlying water bearing gravelly sand stratum. In this regard, it will be necessary to consider that groundwater is present within the critical slope section during adverse conditions. For this reason, it is assumed that groundwater is situated at Elevation 205.5 m, which is 0.5 m above the toe of the critical slope section. This assumed groundwater level is equivalent to 1.25 m above the water level measured in Borehole SS3.

9.4 Stability Analysis and Safety Factor against Sliding Failure

The stability analysis reveals that the existing slope has a safety factor of 1.39 against sliding failure. The result is shown on Drawing No. 6-1 in Appendix 6.

In this regard, it will be necessary to establish the Long Term Stable Top of Slope (LTSTOS) line. Accordingly, a slope line of 1V:2.7H (20° angle to horizontal) will provide a safety factor of 1.55 against sliding failure. The results of the stability analysis with a stable slope line of 1V: 2.7H is shown on Drawing 6-2 in Appendix 6. This drawing also shows that the stable slope line is situated at a horizontal distance of 13.5 m landwards from the slope toe, and aligned with Sitewalk Line. As such, the Sitewalk Line may be utilized as the stable slope allowance line at the critical slope location (Section 3-4).

9.5 Toe Erosion Allowance

Cross Sections 3-3, 3-4 and 3-5 illustrate that the slope toe is located at very close distances (horizontal, 5 m, 0 m and 0.6 m respectively) from the edge of water. As such, it will be necessary to include a toe erosion setback. For watercourses / rivers located within 15 m of a slope toe, the Ontario Ministry of Natural Resources requires a toe erosion allowance of 5 m to 8 m for stiff/hard cohesive soil (clays, clayey silt) where there is evidence of active erosion of the river bank.

Based on the results of Borehole SS3, the subsoil that is situated close to the slope toe is stiff to very stiff clayey silt / silty clay till. As the lower slope of Section 3-4 is over steepened, some erosion / undercutting along the stream bank under flood flow conditions should be allowed for. In this regard, AME recommends a Toe Erosion Allowance of 8 m for long term erosion control purposes. This setback distance forms the stable toe of slope line to which the stable slope component is measured landwards from.

9.6 Recommendations

As the location of the stability setback line is similar to the Sitewalk Line, and combining the erosion component of total setback, it is recommended that the Long Term Stable Top of Slope Line be measured at a horizontal distance of 8 m landwards from the Sitewalk Line.

10 STABILITY ASSESSMENT FOR SLOPE NO. 4

10.1 Conditions of Slope

Slope No. 4 is a natural slope covered with both young and mature trees. Most of the trees are vertical. Our visual examination did not reveal any sign of instability such as tension cracks, slope movements and deep seated erosions. There was no water seepage from the slope face. The existing water course is situated at distances greater than 15 m from the toe of the slope. The only exception is a small "nose" section located at the central part of the slope, wherein the distance from the slope toe to the edge of the stream course is close to / slightly less than 15 m.

The table land near the crest of slope is covered with dense vegetative growth which prevents drainage of surface runoff from the table land over the face of the slope

The slope face is covered with sparse vegetation and young trees. Most of the trees are vertical, some are slightly inclined.

Another view of the conditions of Slope No. 4: Trees are established on the slope face and mainly vertical.

The slope is standing at a gentle gradient, visually the upper section is slightly steeper while the lower section has a more gentle profile.

The slope was inspected by AME on November 14, 2012, using the Slope Stability Rating Chart document of the Ontario Ministry of Natural Resources. As the overall slope profiles are rather gentle, **AME** rated that this slope as having an instability rating value of 27, corresponding to a "slight potential of instability", and a requirement of a preliminary geotechnical study. The slope inspection record and slope stability rating chart is enclosed in Appendix 7.

A total of three (3) cross sections (referenced Sections 4-1, 4-2 and 4-3) were prepared by the study team's surveyor. The locations of the cross sections as well as the slope section profiles are enclosed in Appendix 7 of this report. The following table summarizes the slope height, slope inclination and distance from the slope toe to the edge of water at the location of the cross sections.

Section No.	Approximate vertical height of slope	Slope Inclination (degrees to horizontal)	Approximate distance from slope toe to edge of water
4-1	3.3 m	~ 24°	34.8 m
4-2	2.7 m	~ 14°	13.8 m
4-3	3.3 m	~ 18°	28.4 m

According to the above profiles, the critical slope section is represented by Section 4-1. This slope section has a vertical height of 3.3 m and an inclination of 24° angle to the horizontal (~1V:2.3H).

10.2 Subsoil and Groundwater Conditions

Borehole SS4 reveals that below the surficial topsoil and disturbed native clayey silt, the subsoil consists of brown, hard clayey silt / silty clay till extending to approximately Elevation 201.9 m (4 m depth below grade). Below this depth, the brown till changes to grey and possesses a stiff to very stiff consistency. The grey clay till is further underlain very dense sandy silt till below Elevation 199.61 m, which extended to the explored depth of the borehole.

Groundwater was encountered in Borehole SS4 upon completion of its drilling, at Elevation 198.61 m (7.3 m depth below grade).

Based on the subsoil encountered at Borehole SS4 and using a critical slope height of 3.3 m, the indications are that Slope No. 4 is underlain by hard clayey silt / silty clay till followed by grey stiff to very stiff clayey silt / silty clay till. The grey clayey silt / silty clay till is situated at a depth slightly below the toe elevation of the slope.

10.3 Soil Strength Parameters and Groundwater Level used in Slope Stability Analysis

Soil strength parameters used in the slope stability analysis were based on the results of the in situ Standard Penetration Tests at Borehole SS4, together with the results of the Atterberg Limits test from the split spoon sample at 3.1 m depth.

Borehole SS4 reveals that the upper brown clayey silt / silty clay till possesses a hard consistency with "N" values ranging from 32 to 34. The lower grey clayey silt / silty clay till possesses a stiff to very stiff consistency with an "N" value of 15, its shear strength is relatively weaker than the upper brown till.

Using the in situ testing and the Atterberg Limits test results of the clayey silt / silty clay till, our assessment is that the shear strength of the clayey silt / silty clay till is derived mainly from

cohesion. The glacial deposit also contains sand and with trace of gravel, therefore, its shear strength is augmented by internal friction.

Based on the borehole findings, we have categorized the subsoil into three strata. The soil parameters used in the stability analyses are shown on the following table.

Material Type	Unit weight (kN/m³)	Cohesion (kPa)	Frictional Angle
Native clayey silt (0 m to 0.8 m)	19	0	7°
Brown clay till (0.8 m to 4 m)	21	12	20°
Grey clay till (below 4 m depth)	20	8	12°

The subject slope was analyzed without any groundwater (i.e., dry condition). The groundwater that is present in Borehole SS4 is situated at a depth of 7.3 m which is far below the bottom elevation of the slope.

10.4 Stability Analysis and Safety Factor against Sliding Failure

The stability analysis reveals that the existing slope has a safety factor of 2.07 against sliding failure. The result is shown on Drawing No. 7-1 in Appendix 7.

Results of the stability analysis indicate that the critical section of the existing slope has sufficient safety factor against sliding failure, and conforms to TRCA's policy guidelines.

10.5 Toe Erosion Allowance

Cross Sections 4-1 and 4-3 illustrate that the horizontal distances from the slope toe to the edge of water are 34.8 m and 28.4 m respectively. At these sections, the flood plain widths are much greater than 15 m and a toe erosion allowance is not required. Section 4-2 however has a horizontal distance of 13.8 m from its slope toe to the edge of water, which according to MNR policy guidelines, is slightly below the requirement for exclusion of a toe erosion allowance. In this regard, we have reviewed the location of Section 4-2 using an aerial plan, attached in Appendix 7 for reference purposes. The aerial plan shows that Slope Section 4-2 is a localized "nose shape" spur, estimated to extend an approximate horizontal distance of not exceeding 10

m in the north-south direction. As such, we are of the opinion that although the distance from the slope toe to the edge of water is slightly less than 15 m, it is not necessary to include the toe erosion allowance at slope Section 4-2 given its limited span length. Furthermore, the "Sidewalk Line" at Section 4-2 is located at a horizontal distance of ~ 9 m from the top of slope point. This provides an additional buffer distance beyond the limit for future land development.

10.6 Recommendations

At the critical slope section 4-1, the existing slope has sufficient factor of safety against sliding failure. The stability component is complied with and no setback is required from the top of bank derived for stability purposes.

Over the majority of the slope site, the existing water course is situated at distances greater than 15 m from the toe of the slope. However, this distance measured 13.8 m at a discrete location. AME considers that the overall distance to the water course to be adequate and hence no toe erosion allowance is recommended.

11 STABILITY ASSESSMENT FOR SLOPE NO. 5

11.1 Conditions of Slope

Slope No. 5 is a natural slope covered with both young and mature trees. Most of the mature trees are located along the slope crest as well as on the upper to middle sections of the slope. Locally, some young trees are not vertical and inclined away from the slope.

Our visual examination did not reveal any sign of instability such as tension cracks, slope movements and deep seated erosions. There was no water seepage from the slope face.

The existing stream course (Clarkway Tributary) is situated at distances greater than 15 m from the toe of the slope.

The slope is standing at a gentle to moderate gradient.

The table land near the crest of slope is covered with sparse to medium vegetation which prevents drainage of surface runoff from the table land over the slope face. No tension cracks are present along the slope crest. Mature trees are well established along the slope crest and are mainly vertical.

A general view towards the slope face. Young trees are established along the toe of the slope, while mature trees are randomly established on the slope.

Some of the young trees that are located on the lower section of the slope are not vertical and are inclined away from the slope.

The slope was inspected by AME on November 14, 2013, using the Slope Stability Rating Chart document of the Ontario Ministry of Natural Resources. AME rated that the slope has an instability rating value of 27, corresponding to a "slight potential of instability", and a requirement for a preliminary geotechnical study. The slope inspection record and slope stability rating chart is enclosed in Appendix 8.

A total of five (5) cross sections (referenced Sections 5-1, 5-2, 5-3, 5-4 and 5-5) were prepared by the study team's surveyor. The locations of the cross sections as well as the slope section profiles are enclosed in Appendix 8 of this report. The following table summarizes the slope height, slope inclination and distance from the slope toe to the edge of water at the cross section locations.

Section No.	Approximate vertical height of slope	Slope Inclination (angles to horizontal)	Approximate distance from slope toe to edge of water
5-1	3.6 m	~ 30°	54.8 m
5-2	3 m	~ 33°	57.8 m
5-3	4.2 m	~ 30°	65 m
5-4	4 m	~ 26°	59 m
5-5	3.4 m	~ 13°	46.5 m

According to the above profiles, the critical slope section is represented by Section 5-3. This slope section has a vertical height of 4.2 m and an inclination of 30° angle to the horizontal (~1V:1.7H).

11.2 Subsoil and Groundwater Conditions

Borehole SS5 reveals that below the surficial topsoil and disturbed native soil, the subsoil consists of brown, stiff to hard clayey silt / silty clay till extending to approximate Elevation 199.25 m (4.8 m depth below grade). Below this depth, the brown till changes to grey and possesses a very stiff consistency. The grey clayey silt / silty clay till is further underlain by very dense sandy silt till below Elevation 197.05 m, which extended to the explored depth of the borehole.

Groundwater was encountered in Borehole SS5 upon completion of its drilling, at Elevation 198.55 m (5.5 m below grade).

Based on the subsoil encountered at Borehole SS5 and using a vertical slope height of 4.2 m, the indications are the Slope No. 5 is underlain by stiff to hard clayey silt / silty clay till. The underlying grey clayey silt / silty clay till of very stiff consistency is situated at a depth slightly below the bottom elevation of the slope.

11.3 Soil Strength Parameters and Groundwater Level used in Slope Stability Analysis

Soil strength parameters used in the slope stability analysis were based on the results of the in situ Standard Penetration Tests at Borehole SS5, together with the results of the grain size distribution test from the split spoon sample at 3.1 m depth.

Borehole SS5 reveals that the brown clayey silt / silty clay till possesses a stiff to hard consistency with "N" values ranging from 14 to 30. The underlying lower grey clayey silt / silty caly till possesses a very stiff consistency with "N" values of 18 to 21, its shear strength is slightly weaker than the upper brown till.

Using the results of the in situ testing and particle size distribution results of the clayey silt / silty clay till, our assessment is that the shear strength of the clayey silt / silty clay till is derived mainly from cohesion. The glacial deposit also contains sand and with trace of gravel, therefore, its shear strength is augmented by internal friction.

Based on the borehole finding, we have categorized the subsoil into three strata. The soil parameters used in the stability analyses are shown on the following table.

Material Type	Unit weight (kN/m³)	Cohesion (kPa)	Frictional Angle
Native clayey silt (0 m to 0.8 m)	18	0	10°
Brown clay till (0.8 m to 4.8 m)	21	10	18°
Grey clay till (below 4.8 m depth)	21	10	12°

The subject slope was analyzed without any groundwater (i.e. dry condition). The groundwater that is present in Borehole SS5 is situated at a depth of 5.5 m (Elevation 198.55 m) which is below the toe elevation of the slope.

11.4 Stability Analysis and Safety Factor against Sliding Failure

The stability analysis reveals that the existing slope has a safety factor of 1.55 against sliding failure. The result is shown on Drawing No. 8-1 in Appendix 8.

Results of the stability analysis indicate that the critical section of the existing slope has sufficient safety factor against sliding failure, and conforms to TRCA's policy guidelines.

11.5 Toe Erosion Allowance

A Toe Erosion Allowance is not required as the existing watercourse is located at a distance greater than 15 m from the toe of bank. Furthermore, our inspection confirmed that there is no evidence of any erosion along the toe line of the slope.

11.6 Recommendations

At the critical slope Section 5-3, the existing slope has sufficient factor of safety against sliding failure. The stability component is complied with and no setback is required from the top of bank derived for stability purposes. The existing stream course (Clarkway Tributary) is situated at distances greater than 15 m from the toe of the slope. Hence, no toe erosion allowance is required.

12 STABILITY ASSESSMENT FOR SLOPE NO. 6

12.1 Conditions of Slope

Slope No. 6 is a natural slope located immediately to the east of the Clarkway Tributary which is running in an approximate north-to-south direction. The photographs below depict the general conditions of the slope.

General condition of Slope No. 6 (looking east): The slope is heavily eroded with numerous erosion pathways visible throughout the slope face. The slope face is dry, bare and not covered with any vegetation. Young trees were not able to establish themselves along the slope crest.

View of the slope looking south. The slope is over steepened. Overall the upper section is slightly steeper than the lower section. It is also considered that some active erosion would have occurred in the past close to the level of the stream course.

The table land near the crest of slope is covered with medium dense vegetation which reduces drainage of surface runoff over the slope face.

There are no signs of tension cracks present on the slope crest.

Deeply incised erosion is present close to the crest of slope. Young trees have not been able to establish themselves on the slope crest.

The slope was inspected by AME on November 20, 2012, using the Slope Stability Rating Chart document of the Ontario Ministry of Natural Resources. AME rated that at the critical area, the slope section has an instability rating value of 45, corresponding to a "moderate potential of instability", and a requirement for detailed geotechnical investigation. The slope inspection record and slope stability rating chart are enclosed in Appendix 9.

Two (2) cross sections (referenced Sections 6-1 and 6-2) were prepared by the study team's surveyor. The locations of the cross sections as well as the slope section profiles are enclosed in Appendix 9 of this report. The following table summarizes the slope height, slope inclination and distance from the slope toe to the edge of water at the cross section locations.

Section No.	Approximate vertical height of slope	Slope Inclination (degrees to horizontal)	Approximate distance from slope toe to edge of water
6-1	4.2 m	~ 40°	0 m
6-2	4.2 m	Top 3.4 m ~ 10° Bottom 0.8 m ~ 25°	0 m

According to the above profiles, the critical slope section is represented by Section 6-1. This slope section has a vertical height of 4.2 m and an inclination of 40° angle to the horizontal (~1V:1.2H).

12.2 Subsoil and Groundwater Conditions

Borehole PC2 which was drilled for the proposed stormwater management pond C2 was utilized to evaluate the subsoil conditions at Slope No. 6. This borehole is located at an approximate distance of 55 m from the crest of the slope. A monitoring well was installed in Borehole PC2.

Borehole PC2 reveals that below the surficial topsoil and disturbed native soil, the subsoil consists of brown, very stiff to hard, clayey silt / silty clay till extending to approximately elevation 199.7 m (4 m below grade). The brown till is underlain by grey, very stiff to hard, clayey silt / silty clay till extending to the explored depth of the borehole.

Groundwater was not encountered in the open borehole upon completion of its drilling. Subsequent monitoring of groundwater (in December 2012) in the monitoring well revealed that the groundwater was situated at Elevation 202.47 m (1.27 m below grade).

Based on the subsoil encountered at Borehole PC2 and using a vertical slope height of 4.2 m, the indications are the Slope No. 6 is underlain by very stiff to hard clayey silt / silty clay till. The underlying grey clay till also possesses a very stiff to hard consistency and is situated at a depth close to / slightly below the bottom elevation of the slope.

12.3 Soil Strength Parameters and Groundwater Level used in Slope Stability Analysis

Soil strength parameters used in the slope stability analysis were based on the results of the in situ Standard Penetration Tests at Borehole PC2, together with the results of the Atterberg Limits test from the split spoon sample at 4.6 m depth.

Borehole PC2 reveals that below the surficial topsoil and disturbed native soil, the brown clayey silt / silty clay till possess a very stiff to hard consistency, with "N" values ranging from 17 to 33. The grey clay till that is situated close to / below the slope toe possesses a very stiff consistency, with a Standard Penetration Test "N" value of 18.

Using the in situ testing results and the particle size distribution of the clayey silt / silty clay till, our assessment is that the shear strength of the clayey silt / silty clay till is derived mainly from cohesion. The glacial deposit also contains sand and with trace of gravel, therefore, its shear strength is augmented by internal friction.

Based on the borehole findings, we have categorized the subsoil into three strata. The soil parameters used in the stability analyses are shown on the following table.

Material Type	Unit weight (kN/m³)	Cohesion (kPa)	Frictional Angle
Native clayey silt (0 m to 0.8 m)	18	0	7°
Brown clay till (0.8 m to 4 m)	21	10	18°
Grey clay till (below 4 m depth)	21	10	12°

As the slope is located immediately adjacent to the tributary, it is possible that the stream water level may rise to higher elevations in the spring and during periods of heavy precipitation. As such, it will be necessary to consider that groundwater is present within the slope during adverse conditions. For this reason, it is assumed that groundwater is situated at a depth of 1 m above the slope toe, at Elevation 200.0 m. The high groundwater level at Borehole PC2 is derived mainly from the wet sand layers embedded in the till soils.

12.4 Stability Analysis and Safety Factor against Sliding Failure

The stability analysis reveals that the existing slope has a safety factor of 1.24 against sliding failure. The result is shown on Drawing No. 9-1 in Appendix 9.

In this regard, it will be necessary to establish the Long Term Stable Top of Slope (LTSTOS) line. Accordingly, a slope line of 1V:2.5H (21.8° angle to horizontal) will provide a safety factor of 1.58 against sliding failure. The results of the stability analysis with a stable slope line of 1V:2.5H is shown on Drawing 9-2 in Appendix 9. This drawing also shows that the stable slope line is located at a horizontal distance of 5 m landwards from the top of slope point.

12.5 Toe Erosion Allowance

Given that the existing stream course is running in close proximity to the toe of the subject slope, it will be necessary to include a toe erosion setback. For watercourses / rivers located within 15 m of slope toe, the Ontario Ministry of Natural Resources requires a toe erosion allowance of 5 m to 8 m for stiff/hard cohesive soil (clays, clayey silt) where there is evidence of active erosion of the river bank.

In this regard, AME recommends a Toe Erosion Allowance of 8 m for long term erosion control purposes. This setback distance forms the stable toe of slope line to which the stable slope component is measured landwards from.

12.6 Recommendations

Combining the stability and erosion components of total setback, it is recommended that the Long Term Stable Top of Slope line be measured at a horizontal distance of 13 m from the top of slope. This combined setback distance is located at 2.3 m landwards from the Sitewalk Line.

13 GENERAL COMMENTS

During construction, frequent inspections by geotechnical personnel from AME should be carried out to verify the geotechnical aspects regarding the construction of the proposed stormwater management ponds, to verify the placement of fill, compaction of subgrade by in situ density test, and other aspects of the construction that are geotechnical related.

Finally, it is essential that construction be regarded as an extension of the design phase in the sense that design assumptions are confirmed or revised to conform to actual field conditions as revealed by excavation. This report is based on information derived from a limited number of boreholes advanced at the proposed stormwater management pond sites. If, during construction, the excavations reveal different subsoil conditions, such information should be brought to AME's attention so that we can assess their effects on our assessments and construction of the ponds.

14 CLOSURE

We trust this report provides sufficient information for your present requirements in accordance with our Terms of Reference.

Yours truly,
AME MATERIALS ENGINEERING

Larry MacArthur, P.Eng.
Senior Geotechnical Engineer

LICENSED PROFESSIONAL ENGINEER
40398.201
L.C. MacARTHUR
JUNE 28/13
PROVINCE OF ONTARIO

Limitations of Report

The conclusions and recommendations presented in this report are based on the subsurface information determined in the boreholes at the locations indicated on the Borehole Location Plan, Drawing No. 1-2, Appendix A. The information contained herein in no way reflects on the environmental aspects of the project, unless otherwise stated. Subsurface conditions between and beyond the boreholes may differ from those encountered at the borehole locations, and conditions may become apparent during construction, which could not be detected or anticipated at the time of the site investigation. Our responsibility is limited to the interpretation of the soil and groundwater conditions that prevailed at the locations investigated.

The findings and recommendations of the geotechnical investigation presented in this report are applicable only to the project described in the text, and then only if the work described is completed substantially in accordance with the details stated in this report.

This work has been undertaken in accordance with normally accepted geotechnical engineering practices. No other warranty is expressed or implied.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. AME Materials Engineering accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

APPENDIX 1

Site Location Plan
Drawing No. 1-1

Borehole Location Plan
Drawing No. 1-2

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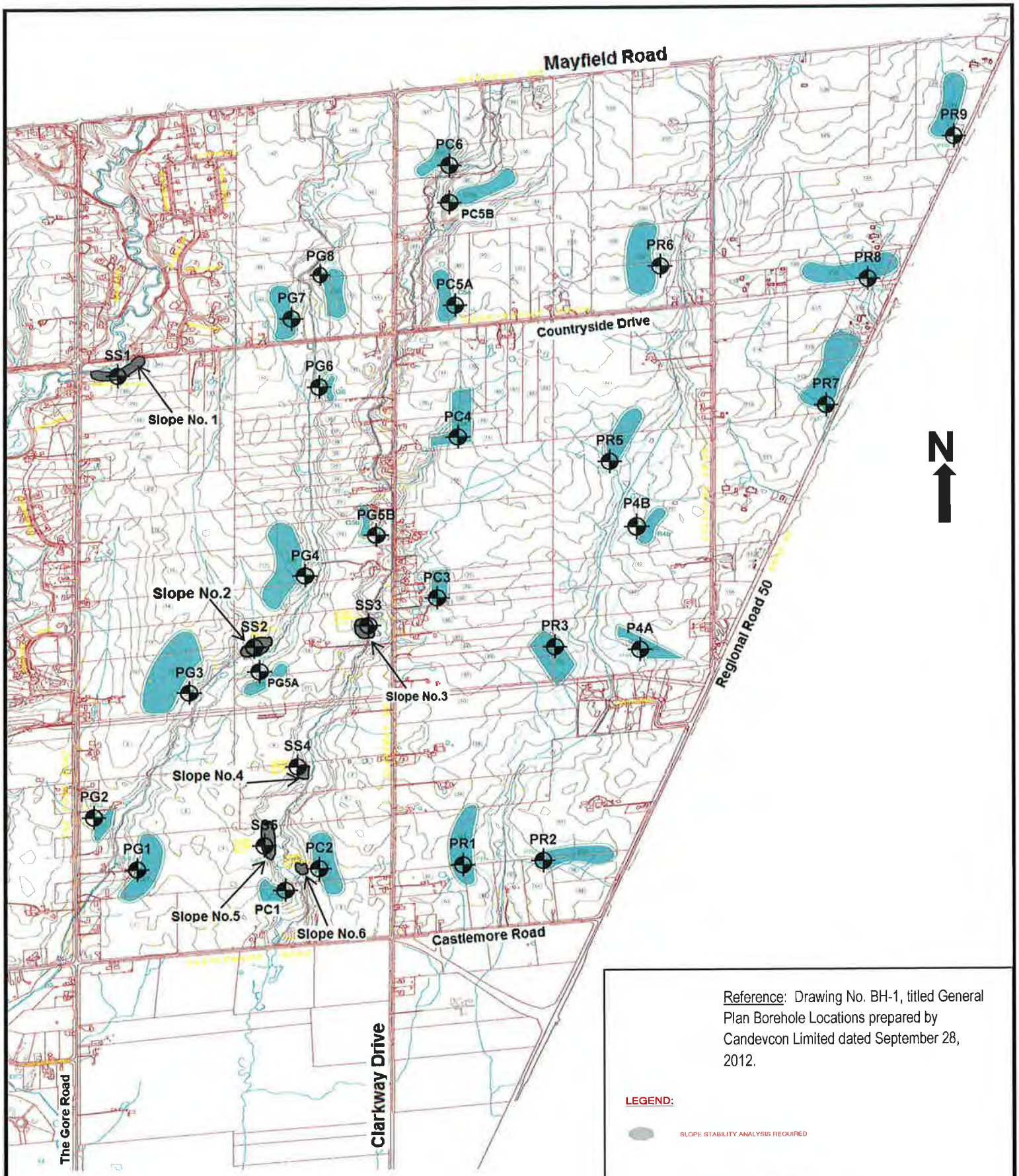
117 Ringwood Drive, Unit # 6
Stouffville, Ontario, L4A 8C1

Tel: (905) 640 7772 Fax: (905) 640 8512

SITE LOCATION PLAN
Area 47 Secondary Plan
Proposed Stormwater Management Ponds and Slope Stability Studies

Brampton **Ontario**

Project No.:	40398.201
Scale:	NTS
Date:	December 2012
Drawing No.:	1-1



Reference: Drawing No. BH-1, titled General Plan Borehole Locations prepared by Candevcon Limited dated September 28, 2012.

LEGEND:

SLOPE STABILITY ANALYSIS REQUIRED

PROPOSED STORMWATER MANAGEMENT POND LOCATION

PROPOSED BOREHOLE LOCATION

Project No. **40398.201**
Drawing No. **1-2**

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APPENDIX 2

Logs of Boreholes
Figure Nos. 2-1 to 2-27

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EXPLANATION OF BOREHOLE LOGS

This form describes some of the information provided on the borehole logs, which is based primarily on examination of the recovered samples, and the results of the field and laboratory tests. Additional description of the soil/rock encountered is given in the accompanying geotechnical report.

GENERAL INFORMATION

Project details, borehole number, project location, location coordinates, date of drilling, type of drilling equipment used and elevation reference datum are given at the top of the borehole log.

GWL

Instrumentation installations (monitoring wells, piezometers, inclinometers, etc.) are plotted in this section. Water levels, if measured during fieldwork, are also plotted. These water levels may or may not be representative of the static groundwater level depending on the nature of soil stratum where the piezometer tips are located, the time elapsed from installation to reading and other applicable factors.

Symbol

This column presents a graphic depiction of the soil and rock stratigraphy encountered within the borehole.

Soil Description

This column gives a description of the soil stratums, based on visual and tactile examination of the samples augmented with field and laboratory test results. Each stratum is described according to the following classification and terminology *(Ref. Unified Soil Classification System)*:

The compactness condition of cohesionless soils (SPT) and the consistency of cohesive soils (undrained shear strength) are defined as follows *(Ref. Canadian Foundation Engineering Manual)*:

Compactness of Cohesionless Soils	**SPT N-Value**	**Consistency of Cohesive Soils**	**Undrained Shear Strength kPa**	**SPT N-Value**
Very loose	0 to 4	Very soft	0 to 12	< 2
Loose	4 to 10	Soft	12 to 25	2 - 4
Compact	10 to 30	Firm	25 to 50	4 - 8
Dense	30 to 50	Stiff	50 to 100	8 - 15
Very Dense	> 50	Very stiff	100 to 200	16 to 32
		Hard	Over 200	> 32

Elevation and Depth

These columns give the elevation and depth of inferred geologic layers. The elevation is referred to the datum shown in the General Information.

Field and Laboratory Testing

Results of field testing (e.g., SPT, pocket penetrometer, and vane testing), measurements of total combustible vapours and laboratory testing (e.g., natural moisture content and Atterberg Limits) executed on the recovered samples are plotted in this section.

Soil Sampling

Sample types are abbreviated as follows:

SS	Split Spoon	TW	Thin Wall Open (Pushed)	RC	Rock Core
AS	Auger Sample	TP	Thin Wall Piston (Pushed)	WS	Washed Sample

Additional information provided in this section may include sample numbering, sample recovery and numerical testing results (e.g. natural unit weight).

Log of Borehole PC1

AME
Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-1

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/14/12

Drill Type:

Datum: Geodetic

Split Spoon Sample	▨	Combustible Vapour Reading	□
Auger Sample	⊠	Natural Moisture Content	×
SPT (N) Value	●	Atterberg Limits	⊢—⊖
Dynamic Cone Test	—	Undrained Triaxial at % Strain at Failure	⊕
Shelby Tube	■	Shear Strength by Penetrometer Test	▲
Shear Strength by Vane Test	✚ S		

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH	Standard Penetration Test N Value (20, 40, 60, 80) / Shear Strength kPa (50, 100, 150, 200)	Total Organic Vapours (ppm) (25, 50, 75) / Natural Moisture Content % / Atterberg Limits (% Dry Weight) (10, 20, 30)	SAMPLES	Natural Unit Weight kN/m³
		Topsoil (approx. 350 mm in thickness)	203.12	0				
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Firm to very stiff	202.77		5			
				1	19			
				2	22			
				3	24			
					25			
		CLAYEY SILT / SILTY CLAY TILL - Grey - Damp to moist - Very stiff to hard	199.12	4				
				5	19			
				6	50/125mm			
				7				
				8	45, 50/75mm			
				9	40, 50/100mm			
		End of borehole at 9.54 m	193.58					

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	7.30

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PC2

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-2

Location: Area 47 Secondary Plan, Brampton, ON

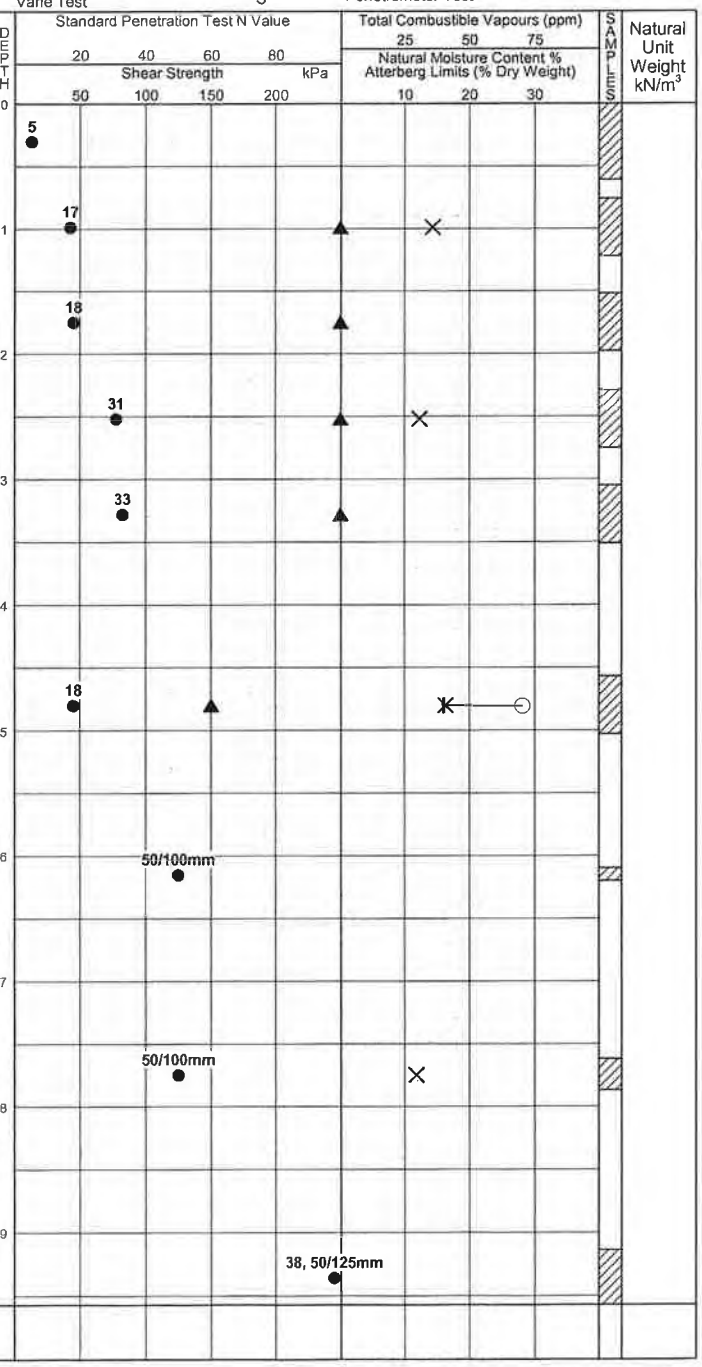
Date Drilled: 11/21/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 350 mm in thickness)	203.74
		Native Soil: Brown, moist, firm, CLAYEY SILT.	203.39
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff to hard	202.99
		..... brownish grey	202.50
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Very stiff to hard	199.74
		End of borehole at 9.57 m	194.17



Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open
Dec. 3, 2012	1.27	
Mar. 19, 2013	1.24	

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 5/29/13

Log of Borehole PC3

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-3

Location: Area 47 Secondary Plan, Brampton, ON

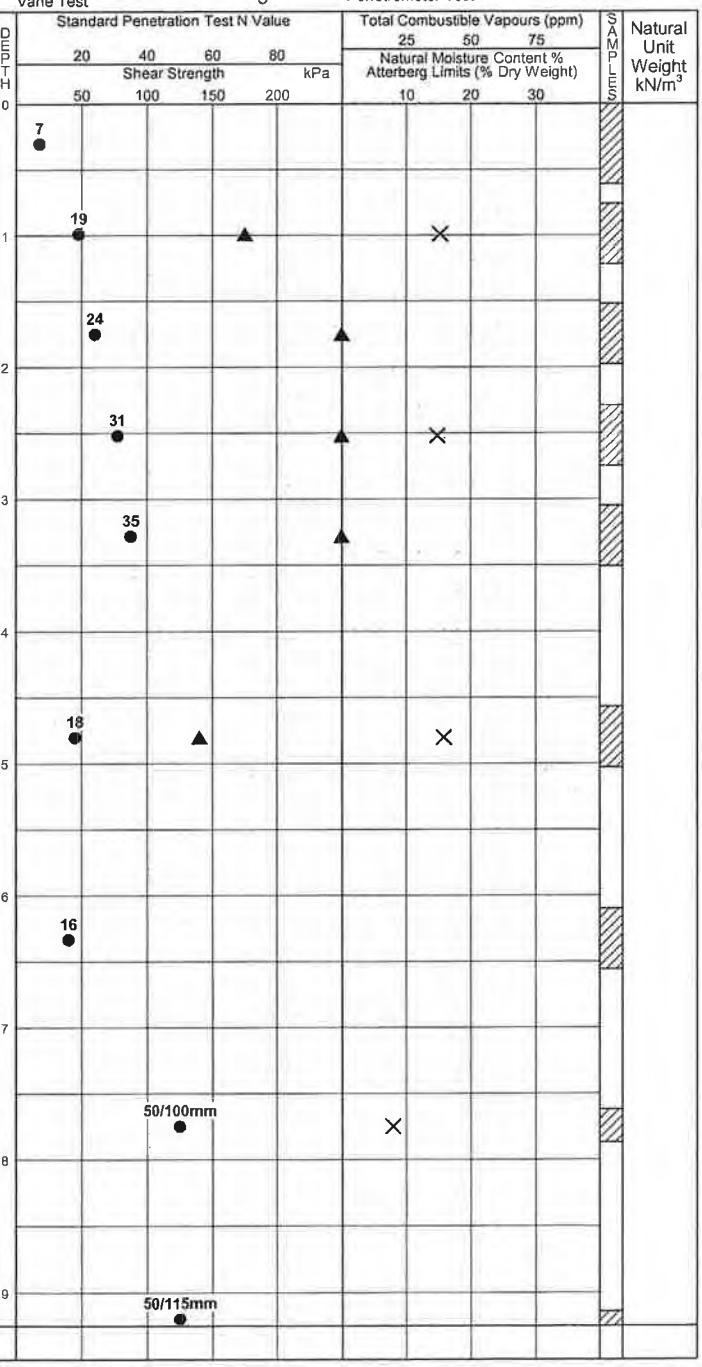
Date Drilled: 11/20/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 300 mm in thickness)	212.66
		Native Soil: Brown, moist, firm, CLAYEY SILT.	212.36
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff to hard	211.96
		..... brownish grey	211.22
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Very stiff	208.66
		SANDY SILT TILL - Grey - Damp to moist - Very dense	206.36
		End of borehole at 9.25 m	203.41



Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open
Dec. 3, 2012	2.04	
Mar. 19, 2013	1.44	

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 5/29/13

Log of Borehole PC4

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-4

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/20/12

Drill Type:

Datum: Geodetic

Split Spoon Sample	▨	Combustible Vapour Reading	□
Auger Sample	⊠	Natural Moisture Content	×
SPT (N) Value	●	Atterberg Limits	⊢—⊖
Dynamic Cone Test	——	Undrained Triaxial at % Strain at Failure	⊕
Shelby Tube	■	Shear Strength by Penetrometer Test	▲
Shear Strength by Vane Test	✚ S		

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH	Standard Penetration Test N Value (20, 40, 60, 80) / Shear Strength kPa (50, 100, 150, 200)	Total Organic Vapours (ppm) (25, 50, 75) / Natural Moisture Content % / Atterberg Limits (% Dry Weight) (10, 20, 30)	SAMPLES	Natural Unit Weight kN/m³
		Topsoil (approx. 350 mm in thickness)	214.11	0	5	×		
		Native Soil: Brown, wet, firm, CLAYEY SILT.	213.76					
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff	213.36	1	18			
				2	29	×		
				3	20			
				4	22	×		
		..... brownish grey		5	17			
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist to wet - Stiff	208.61	6	15	×		
		SANDY SILT TILL - Grey - Moist - Very dense	207.11	7				
▼			206.21	8	45, 50/125mm			
				9	48, 50/100mm	×		
		End of borehole at 9.54 m	204.57					

Notes: Re-located.

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	7.90	8.50

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PC5A

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-5

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/16/12

Drill Type:

Datum: Geodetic

Split Spoon Sample ▨ | Auger Sample ⊠ | SPT (N) Value ● | Dynamic Cone Test — | Shelby Tube ■ | Shear Strength by Vane Test ✚ S | Combustible Vapour Reading □ | Natural Moisture Content × | Atterberg Limits ⊢—⊖ | Undrained Triaxial at % Strain at Failure ⊕ | Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH
		Topsoil (approx. 300 mm in thickness)	219.88	0
		Native Soil: Brown, wet, stiff,, CLAYEY SILT.	219.58	
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist to wet - Stiff to very stiff	219.08	1
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Very stiff to hard	215.88	4
		..... with silt seam at 7.8 m depth		8
		End of borehole at 9.24 m	210.64	9

Standard Penetration Test N Value: 20, 40, 60, 80

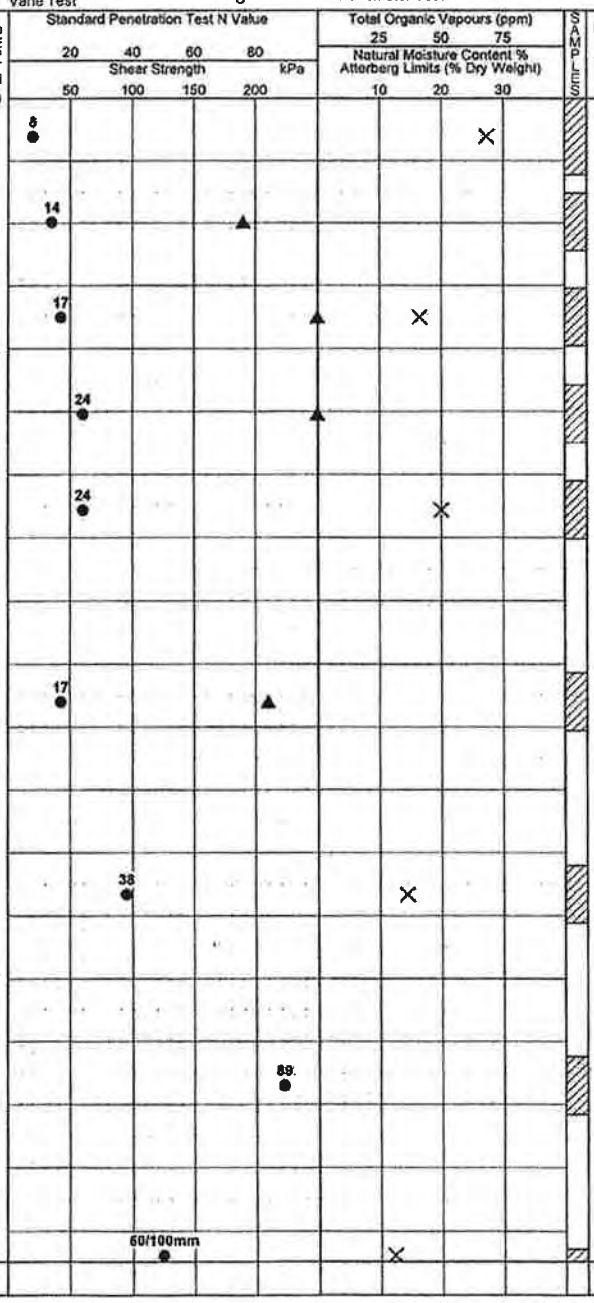
Shear Strength kPa: 50, 100, 150, 200

Total Organic Vapours (ppm): 25, 50, 75

Natural Moisture Content % / Atterberg Limits (% Dry Weight): 10, 20, 30

SAMPLES

Natural Unit Weight kN/m³



Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201-AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PG1

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-6

Location: Area 47 Secondary Plan, Brampton, ON

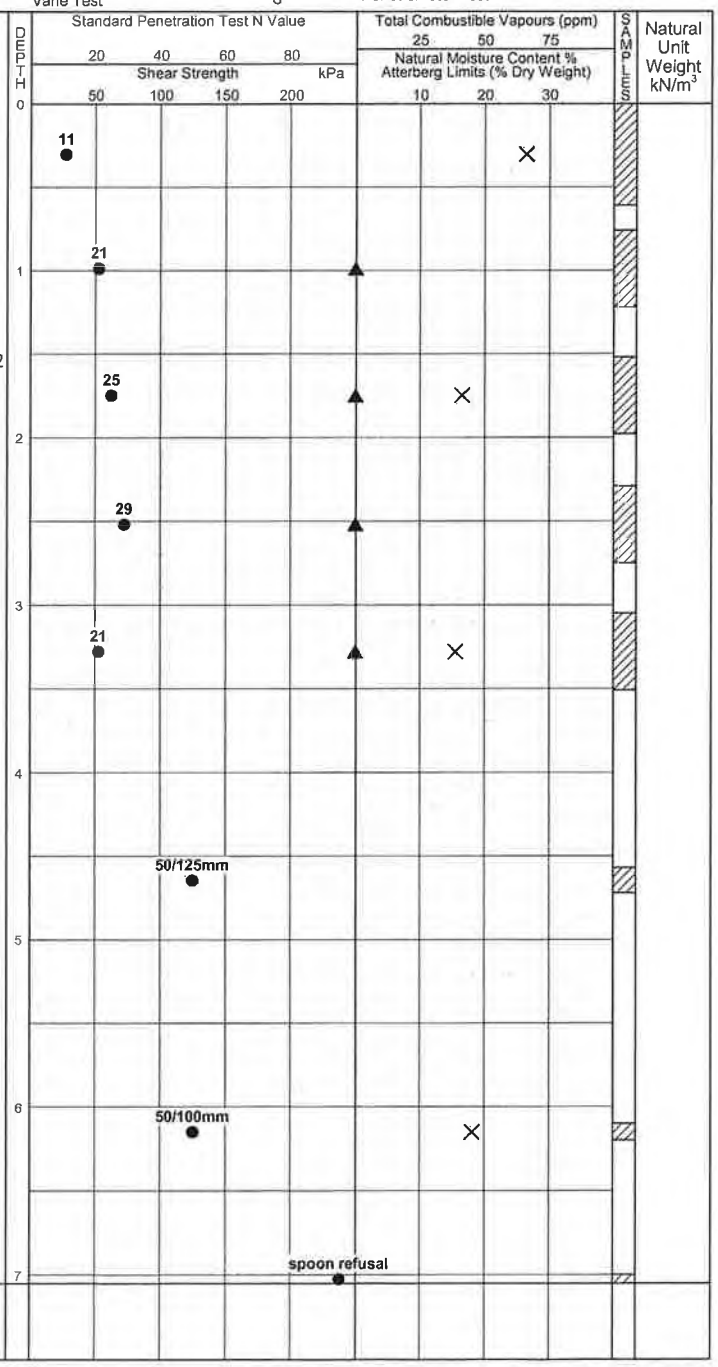
Date Drilled: 11/13/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 350 mm in thickness)	201.10
		Native Soil: Greyish brown, wet, stiff, CLAYEY SILT.	200.75
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff	200.35
		..... brownish grey	199.52
		SANDY SILT TILL - Grey - Moist - Wet below approx. 6 m depth - Very dense	197.10
		..... wet	
		..... auger and split spoon refusal at 7 m depth.	194.05
		End of borehole at 7.05 m	



Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	5.50	
Dec. 3, 2012	1.94	
Mar. 19, 2013	1.58	

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 5/29/13

Log of Borehole PG2

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-7

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/14/12

Drill Type:

Datum: Geodetic

Legend		Legend	
Split Spoon Sample	▨	Combustible Vapour Reading	□
Auger Sample	⊠	Natural Moisture Content	×
SPT (N) Value	●	Atterberg Limits	├──○
Dynamic Cone Test	──	Undrained Triaxial at % Strain at Failure	⊕
Shelby Tube	■	Shear Strength by Penetrometer Test	▲
Shear Strength by Vane Test	✚ S		

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH	Standard Penetration Test N Value (20, 40, 60, 80) / Shear Strength kPa (50, 100, 150, 200)	Total Organic Vapours (ppm) (25, 50, 75) / Natural Moisture Content % / Atterberg Limits (% Dry Weight) (10, 20, 30)	SAMPLES	Natural Unit Weight kN/m³
		Topsoil (approx. 400 mm in thickness)	202.23	0	4			
		Native Soil: Greyish brown, moist, firm, CLAYEY SILT.	201.83					
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff	201.48	1	18			
				2	21	×		
					23			
		..... brownish grey		3	29	×		
		..... grey						
		SANDY SILT TILL - Grey - Moist - Very dense - With inclusions of sand seam	198.23	4				
▼			197.73	5	58			
		GRAVELLY SAND - Grey - Wet - Very dense	196.73	6	50/125mm	×		
				7				
		CLAYEY SILT / SILTY CLAY TILL - Grey - Damp to moist - Hard	194.53	8	36	×		
				9	50/75mm	×		
		End of borehole at 9.34 m	192.89					

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	4.50	6.10

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PG4

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-8

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/15/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH
		Topsoil (approx. 300 mm in thickness)	209.86	0
		Native Soil: Brown, wet, firm, CLAYEY SILT.	209.56	
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff to hard	209.26	1
			208.11	2
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Hard	206.86	3
		SANDY SILT TILL - Grey - Moist - Very dense	205.86	4
		..... auger and split spoon refusal at 7.16 m depth.	202.70	7
		End of borehole at 7.16 m		

Standard Penetration Test N Value: 20, 40, 60, 80

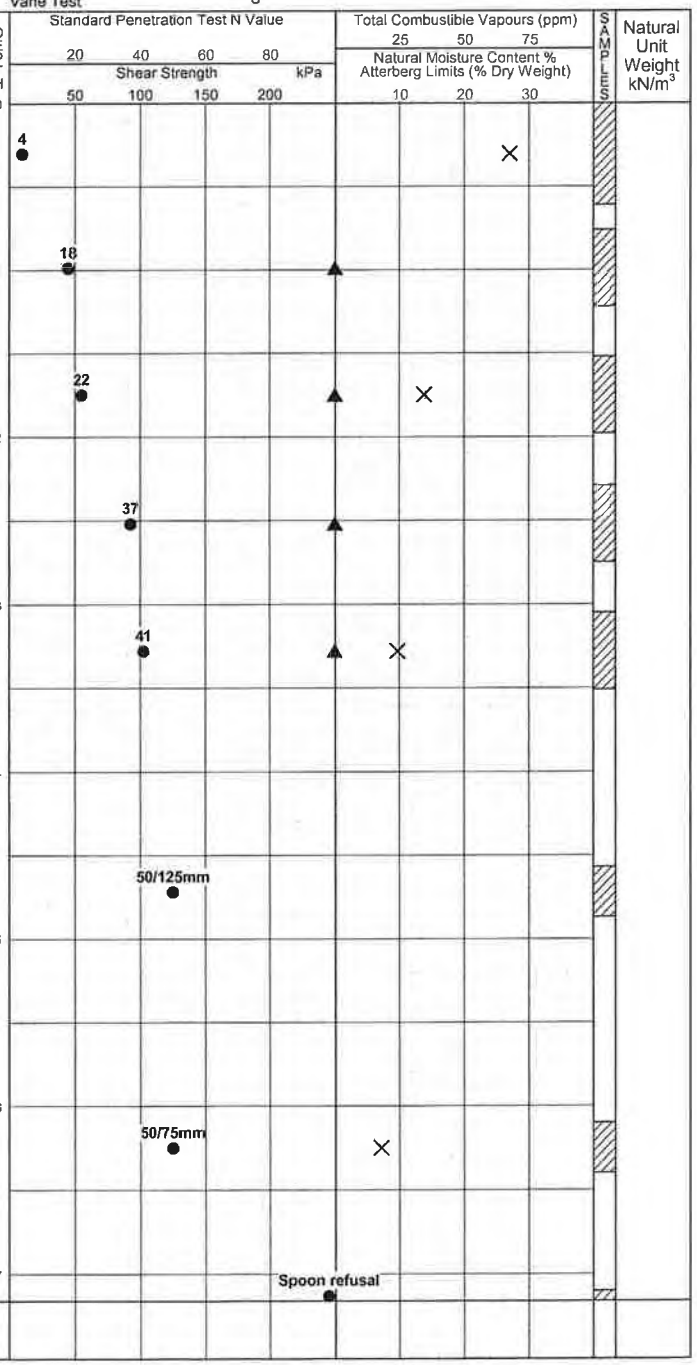
Shear Strength kPa: 50, 100, 150, 200

Total Combustible Vapours (ppm): 25, 50, 75

Natural Moisture Content % / Atterberg Limits (% Dry Weight): 10, 20, 30

SAMPLES

Natural Unit Weight kN/m³



LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 5/29/13

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	6.50	Open
Dec. 3, 2012	2.08	
Mar. 19, 2013	1.75	

Sheet No. 1 of 1

Log of Borehole PG5A

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-9

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/15/12

Drill Type:

Datum: Geodetic

Split Spoon Sample ▨ | Auger Sample ⊠ | SPT (N) Value ● | Dynamic Cone Test — | Shelby Tube ■ | Shear Strength by Vane Test ✚ S | Combustible Vapour Reading □ | Natural Moisture Content × | Atterberg Limits ⊢—⊖ | Undrained Triaxial at % Strain at Failure ⊕ | Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH
		Topsoil (approx. 350 mm in thickness)	205.98	0
		Native Soil: Brown, moist, firm, CLAYEY SILT.	205.63	
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff	205.28	1
▼			204.68	
				2
		SANDY SILT TILL - Grey - Moist - Compact	203.48	3
		SILTY SAND - Brown - Wet - Compact	202.78	
		GRAVELLY SAND - Grey - Wet - Dense	201.98	4
				5
		SANDY SILT TILL - Grey - Wet - Loose to compact	200.48	6
		..... auger refusal at 6.9 m depth with heavy caving.	199.08	
		End of borehole at 6.90 m		

Standard Penetration Test N Value: 20 40 60 80

Shear Strength kPa: 50 100 150 200

Total Organic Vapours (ppm): 25 50 75

Natural Moisture Content % / Atterberg Limits (% Dry Weight): 10 20 30

SAMPLES

Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	1.30	3.30

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PG5B

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-10

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/15/12

Drill Type:

Datum: Geodetic

Legend		Legend	
Split Spoon Sample	▨	Combustible Vapour Reading	□
Auger Sample	⊠	Natural Moisture Content	×
SPT (N) Value	●	Atterberg Limits	⊢—⊖
Dynamic Cone Test	——	Undrained Triaxial at % Strain at Failure	⊕
Shelby Tube	■	Shear Strength by Penetrometer Test	▲
Shear Strength by Vane Test	✚ S		

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH	Standard Penetration Test N Value (20, 40, 60, 80) / Shear Strength kPa (50, 100, 150, 200)	Total Organic Vapours (ppm) (25, 50, 75) / Natural Moisture Content % / Atterberg Limits (% Dry Weight) (10, 20, 30)	SAMPLES	Natural Unit Weight kN/m³
		TOPSOIL (approx. 350 mm in thickness)	212.89	0	8			
		Native Soil: Brown, moist, firm to stiff, CLAYEY SILT.	212.54					
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff	212.14	1	17	×		
				2	26			
					26	×		
				3	20			
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Very stiff	208.89	4				
				5	20	×		
▼		..... sandy silt seam 6.15 m to 6.3 m depth	206.49	6	24			
		SANDY SILT TILL - Grey - Moist - Very dense	205.89	7				
				8	50/100mm	×		
		SILTY SAND TILL - Grey - Wet - Dense	204.39	9	42			
					40	×		
		End of borehole at 10.06 m	202.83	10				

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	6.40	Open

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PG6

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-11

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/16/12

Drill Type:

Datum: Geodetic

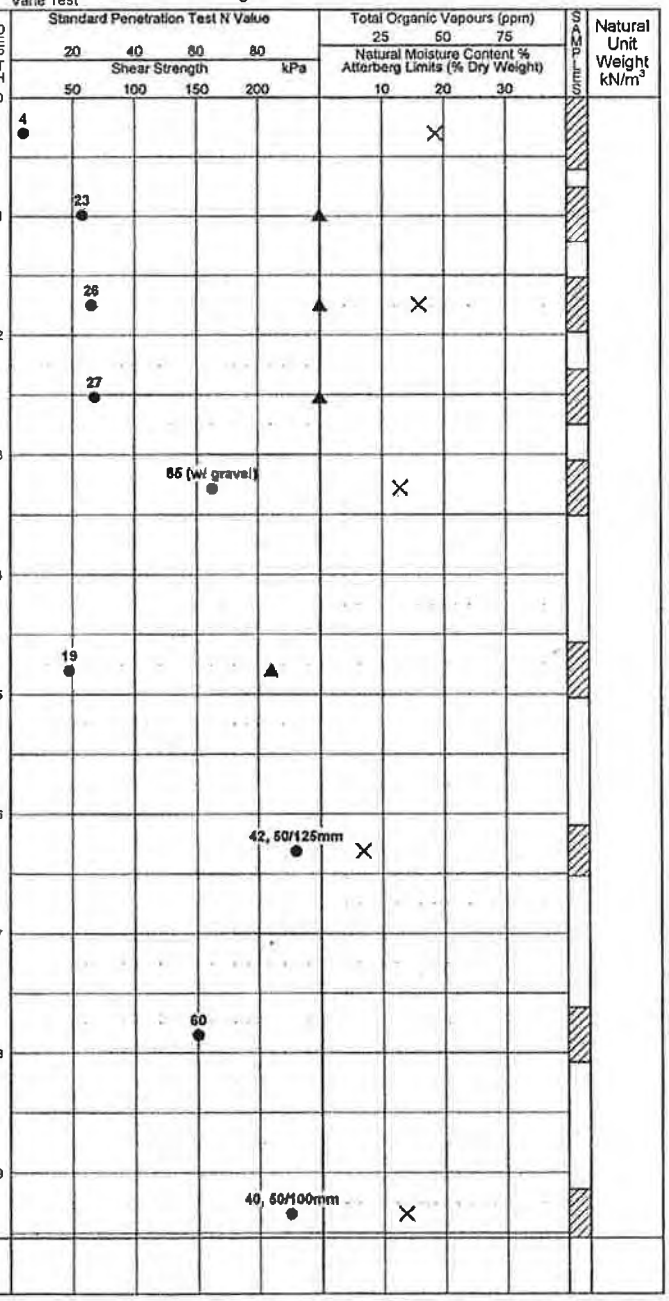
Split Spoon Sample ▨ | Auger Sample ⊠ | SPT (N) Value ● | Dynamic Cone Test — | Shelby Tube ■ | Shear Strength by Vane Test ✚ S | Combustible Vapour Reading □ | Natural Moisture Content × | Atterberg Limits ⊢—○ | Undrained Triaxial at % Strain at Failure ⊕ | Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH
		Topsoil (approx. 350 mm in thickness)	214.13	0
		Native Soil: Brown to dark brown, moist to wet, firm, CLAYEY SILT.	213.78	
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff	213.38	1
		..... brownish grey		2
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Very stiff to hard	211.13	3
		SANDY SILT TILL - Grey - Damp to moist - Very dense	208.63	6
▼			205.93	8
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Hard	205.63	9
		End of borehole at 9.54 m	204.59	

Standard Penetration Test N Value (20, 40, 60, 80) — Shear Strength (50, 100, 150, 200 kPa)

Total Organic Vapours (ppm) (25, 50, 75) — Natural Moisture Content % / Atterberg Limits (% Dry Weight) (10, 20, 30)

SAMPLES — Natural Unit Weight kN/m³



Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	8.20	Open

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PG7

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-12

Location: Area 47 Secondary Plan, Brampton, ON

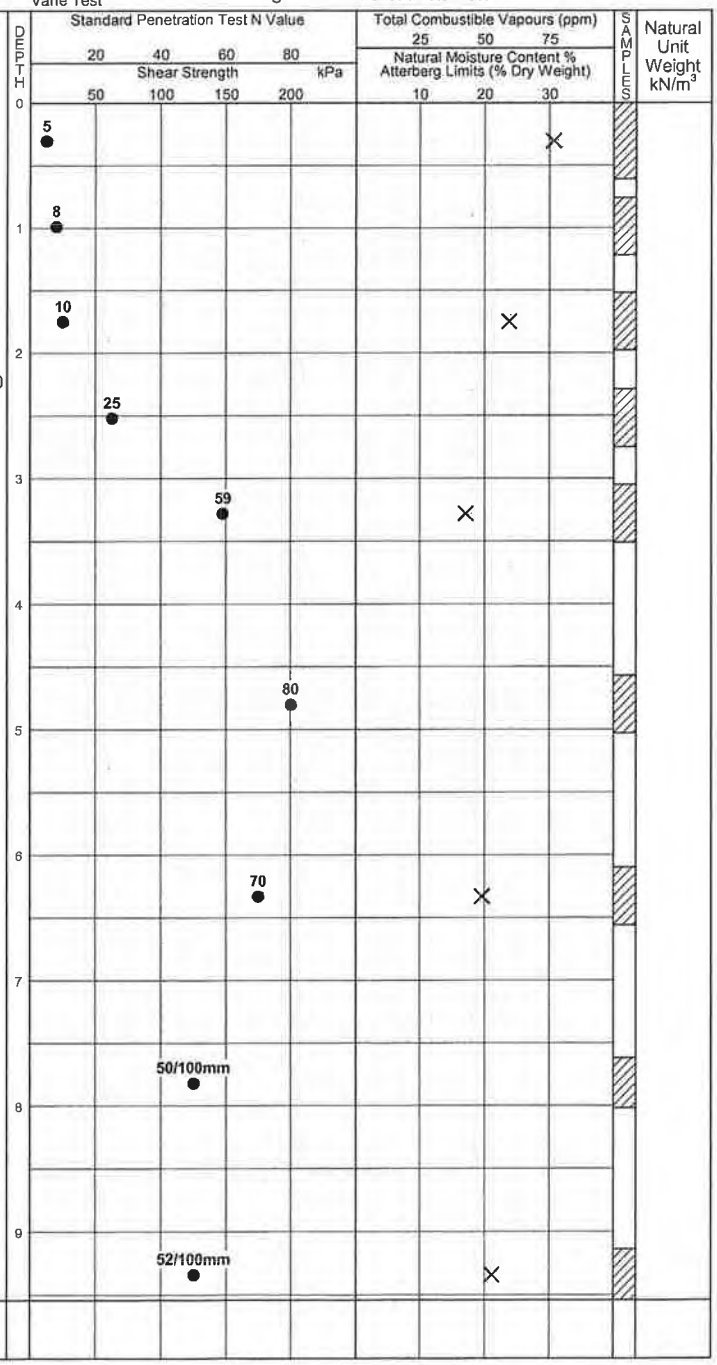
Date Drilled: 11/16/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 350 mm in thickness)	216.78
		Native Soil: Brown, wet, firm, CLAYEY SILT.	216.43
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist to wet - Stiff to hard	216.08
		SILT / FINE SANDY SILT - Grey - Wet - Very dense	214.50
			212.78
		End of borehole at 9.54 m	207.24



Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	4.80	7.60
Dec. 3, 2012	2.65	
Mar. 19, 2013	2.28	

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 5/29/13

Log of Borehole PG8

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-13

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/16/12

Drill Type:

Datum: Geodetic

Split Spoon Sample	▨	Combustible Vapour Reading	□
Auger Sample	⊠	Natural Moisture Content	×
SPT (N) Value	●	Atterberg Limits	├─○
Dynamic Cone Test	──	Undrained Triaxial at % Strain at Failure	⊕
Shelby Tube	■	Shear Strength by Penetrometer Test	▲
Shear Strength by Vane Test	✚ S		

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH	Standard Penetration Test N Value (20 40 60 80) / Shear Strength kPa (50 100 150 200)	Total Organic Vapours (ppm) (25 50 75) / Natural Moisture Content % / Atterberg Limits (% Dry Weight) (10 20 30)	SAMPLES	Natural Unit Weight kN/m³
		Topsoil (approx. 350 mm in thickness)	217.92	0	5			
		Native Soil: Brown, moist, firm, CLAYEY SILT.	217.57					
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff to hard	217.22	1	21	×		
				2	33			
					40			
				3	50/125mm	×		
		SANDY SILT TILL - Grey - Damp to moist - Very dense	213.92	4	50/100mm			
▼			212.12	5				
				6	50/100mm	×		
		SANDY SILT - Grey - Wet - Very dense	210.92	7	50/75mm			
		SANDY SILT TILL: Grey, moist to wet, very dense.	209.42	8				
		..... split spoon refusal at 9.39 m depth	208.53	9	50/75mm, refusal	×		
		End of borehole at 9.39 m						

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	5.80	Open

Sheet No. 1 of 1

Log of Borehole PR1

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-14

Location: Area 47 Secondary Plan, Brampton, ON

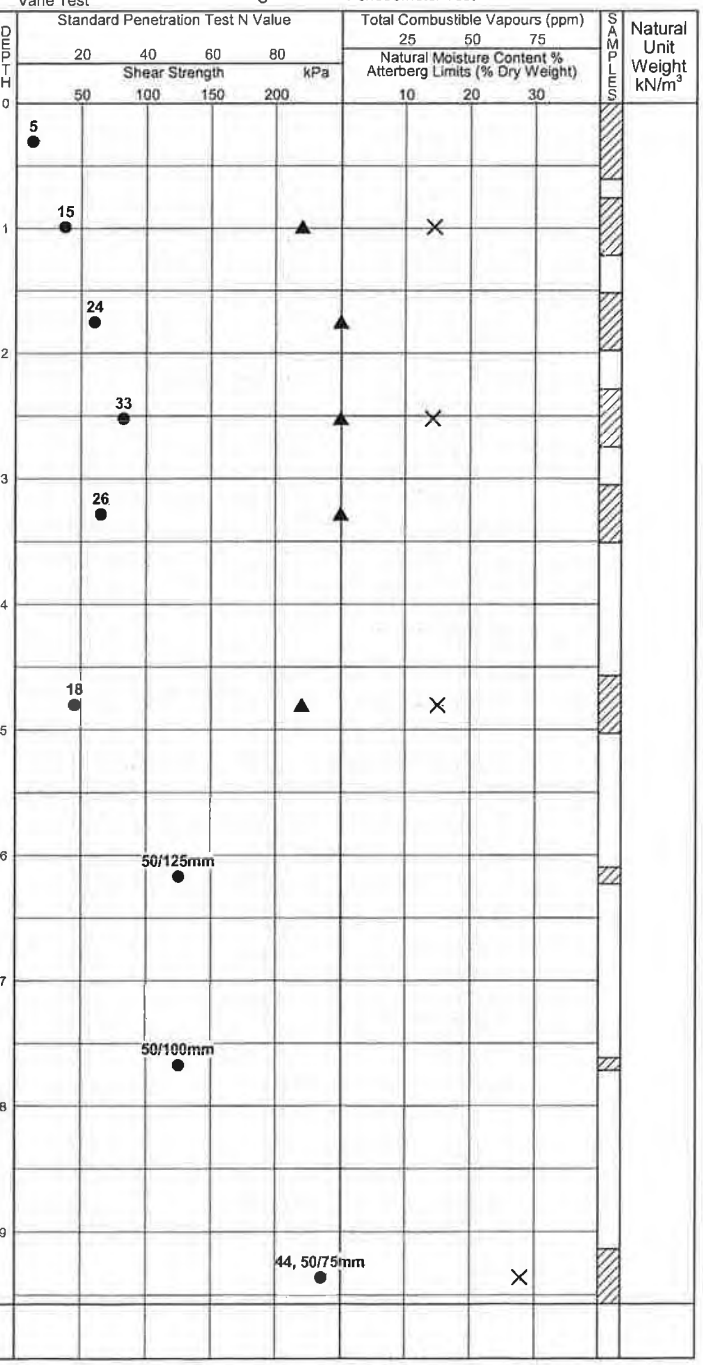
Date Drilled: 11/20/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 300 mm in thickness)	205.31
		Native Soil: Brown/dark brown, wet, firm, CLAYEY SILT.	205.01
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Stiff to hard	204.71 204.60
		..... brownish grey	
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Very stiff to hard	202.01
		SANDY SILT TILL - Grey - Moist to wet - Very dense	198.31
		SILTY SAND TILL - Grey - Wet - Very dense	196.81
		End of borehole at 9.57 m	195.74



Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open
Dec. 3, 2012	0.90	
Mar. 19, 2013	0.71	

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 5/29/13

Log of Borehole PR2

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-15

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/21/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH
		Topsoil (approx. 350 mm in thickness)	205.13	0
		Native Soil: Brown, wet, firm, CLAYEY SILT.	204.78	
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff to hard	204.33	1
		SILTY SAND with some gravel - Grey - Wet - Dense	203.03	2
▼		SANDY SILT TILL - Grey - Moist - Compact to very dense	202.43	3
		..... split spoon at 7.2 m depth ..... auger refusal at 7.3 m depth	202.13	7
		End of borehole at 7.30 m	197.83	

Standard Penetration Test N Value: 20, 40, 60, 80

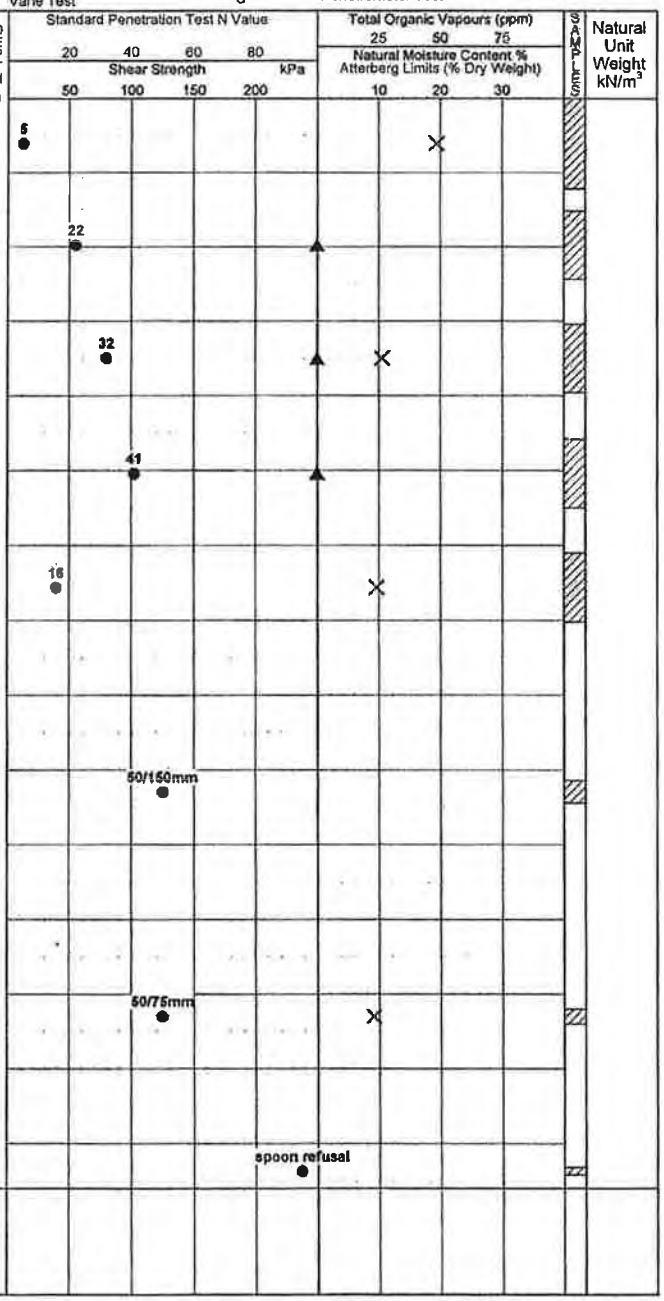
Shear Strength kPa: 50, 100, 150, 200

Total Organic Vapours (ppm): 25, 50, 75

Natural Moisture Content % Atterberg Limits (% Dry Weight): 10, 20, 30

SAMPLES

Natural Unit Weight kN/m³



Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	2.70	Open

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PR3

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-16

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/19/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value (20 40 60 80) / Shear Strength kPa (50 100 150 200)	Total Organic Vapours (ppm) (25 50 75) / Natural Moisture Content % / Atterberg Limits (% Dry Weight) (10 20 30)	SAMPLES	Natural Unit Weight kN/m³
		Topsoil (approx. 300 mm in thickness)	211.17	0				
		Native Soil: Brown, wet, firm, CLAYEY SILT.	210.87		7			
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff to hard	210.42	1	19			
				2	19			
					28			
				3	71			
		..... brownish grey, with sand seam						
▼			206.97	4				
		SANDY SILT TILL - Grey - Moist to wet - Very dense	206.47	5	75			
		SILTY SAND TILL - Grey - Wet - Very dense	205.67	6	50/100mm			
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Hard	204.17	7	50/75mm			
				8				
				9	50/100mm			
		End of borehole at 9.24 m	201.93					

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	4.20	7.80

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole P4B

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-17

Location: Area 47 Secondary Plan, Brampton, ON

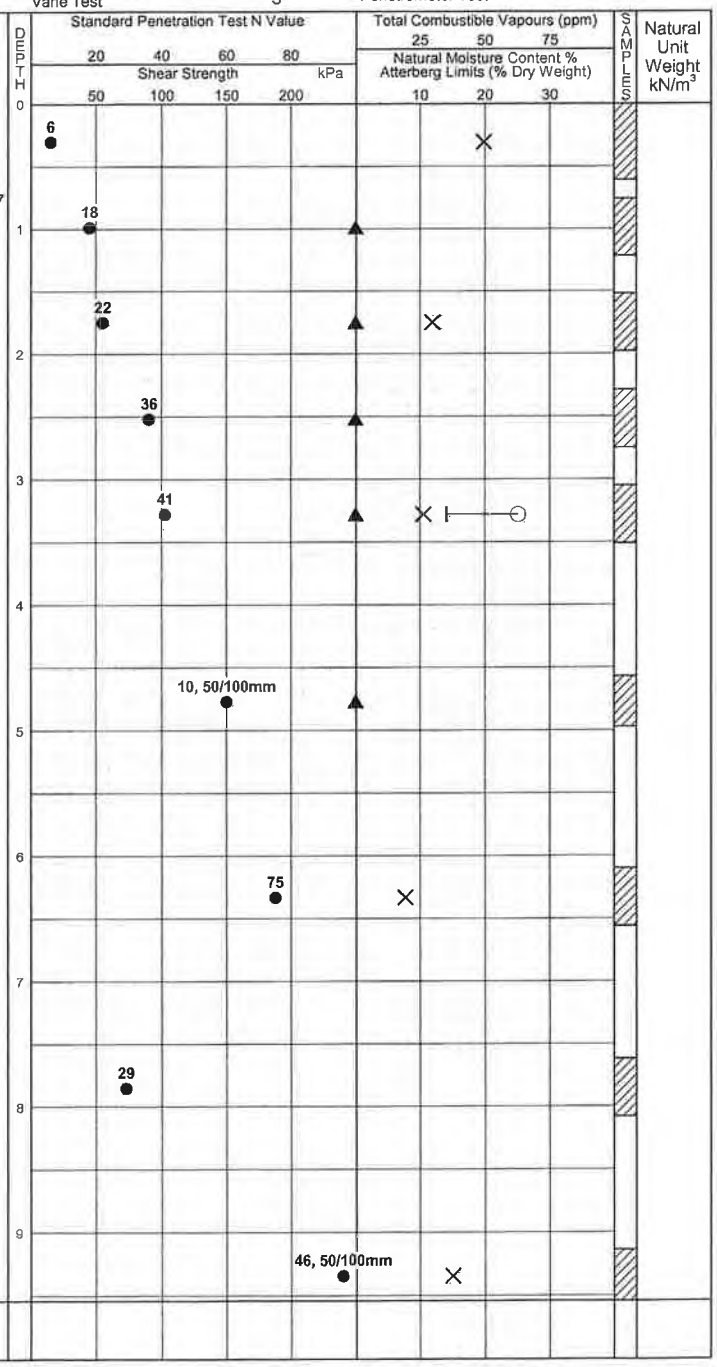
Date Drilled: 11/21/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 300 mm in thickness)	213.19
		Native Soil: Brown, wet, firm, CLAYEY SILT.	212.89
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff to hard	212.64
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Hard	212.37
		SANDY SILT TILL - Grey - Damp to moist - Compact to very dense	209.19
		CLAYEY SILT - Grey - Moist - Hard	207.69
		End of borehole at 9.54 m	204.69
			203.65



Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open
Dec. 3, 2012	1.32	
Mar. 19, 2013	0.82	

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 5/29/13

Log of Borehole PR5

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-18

Location: Area 47 Secondary Plan, Brampton, ON

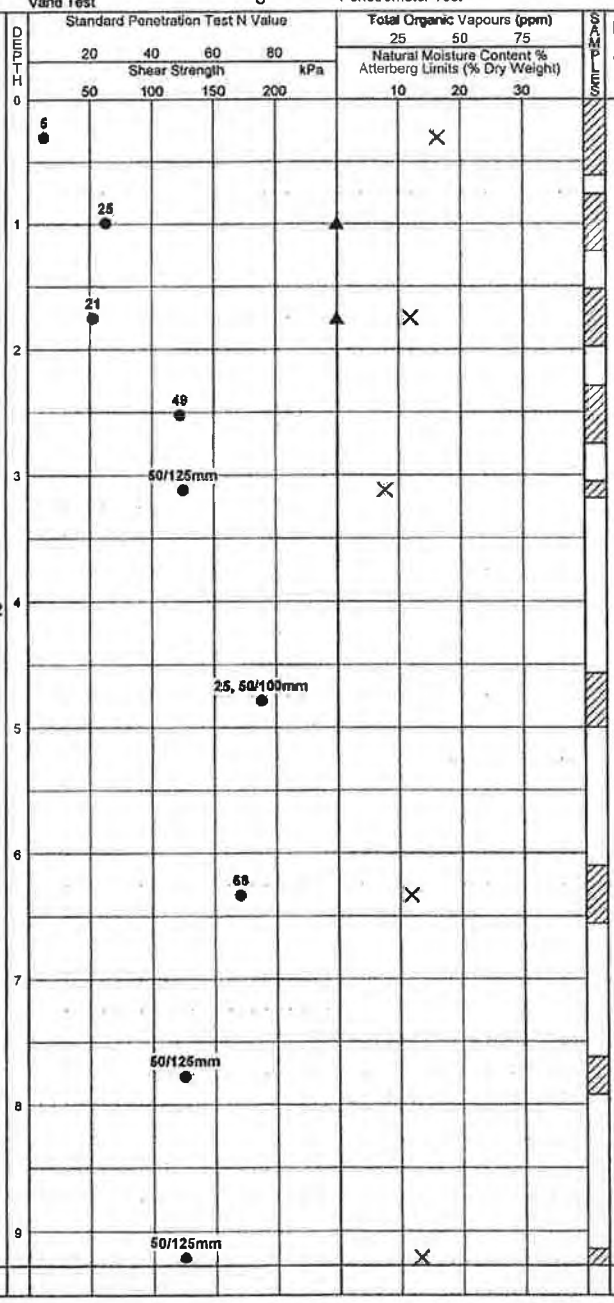
Date Drilled: 11/20/12

Drill Type:

Datum: Geodetic

Split Spoon Sample ▨ | Auger Sample ⊠ | SPT (N) Value ● | Dynamic Cone Test — | Shelby Tube ■ | Shear Strength by Vane Test ✚ S | Combustible Vapour Reading □ | Natural Moisture Content × | Atterberg Limits ⊢—⊖ | Undrained Triaxial at % Strain at Failure ⊕ | Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 350 mm in thickness)	214.12
		Native Soil: Brown/dark brown, moist, firm, CLAYEY SILT.	213.77
		SILTY CLAY TILL - Brown - Moist - Very stiff to hard	213.42
		..... brownish grey	
		SANDY SILT TILL - Brown - Damp to moist - Very dense - With silt seams	211.12
▼		..... grey	210.02
		CLAYEY SILT - Grey - Moist - Hard	208.62
		End of borehole at 9.27 m	204.85



Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	4.10	

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PR6

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-19

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/16/12

Drill Type:

Datum: Geodetic

Split Spoon Sample ▨ | Auger Sample ⊠ | SPT (N) Value ● | Dynamic Cone Test — | Shelby Tube ■ | Shear Strength by Vane Test ✚ S | Combustible Vapour Reading □ | Natural Moisture Content × | Atterberg Limits ⊢—⊖ | Undrained Triaxial at % Strain at Failure ⊕ | Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH
		Topsoil (approx. 350 mm in thickness)	222.60	0
		Native Soil: dark brown, moist, firm, CLAYEY SILT.	222.25	
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff to hard	221.65	1
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Hard	218.60	4
		..... auger and split spoon refusal at 6.5 m depth.	216.05	
		End of borehole at 6.55 m		

Standard Penetration Test N Value: 20, 40, 60, 80

Shear Strength kPa: 50, 100, 150, 200

Total Organic Vapours (ppm): 25, 50, 75

Natural Moisture Content % / Atterberg Limits (% Dry Weight): 10, 20, 30

SAMPLES

Natural Unit Weight kN/m³

Observations: 4; 20; 20; 50/75mm; 50/80mm; 50/125mm; 50/100mm; refusal

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201-AREA 47_BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PR7

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-20

Location: Area 47 Secondary Plan, Brampton, ON

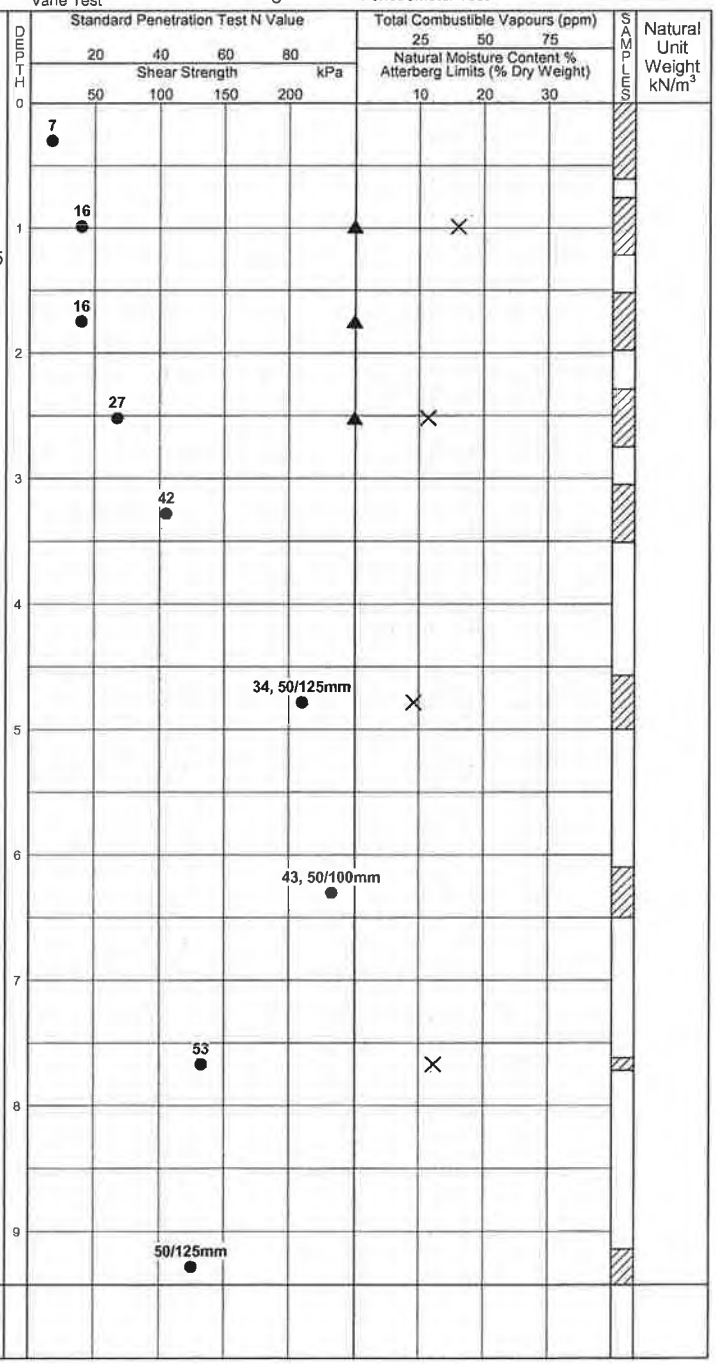
Date Drilled: 11/22/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 250 mm in thickness)	214.84
		Native Soil: Brown, wet, firm, CLAYEY SILT.	214.59
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff to hard	214.29
		..... brownish grey	213.55
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Hard - With silt seams	210.84
		SANDY SILT TILL - Grey - Moist - Very dense	209.34
		CLAYEY SILT - Grey - Moist - Hard	207.84
		End of borehole at 9.42 m	205.42



Notes: Re-located.

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	2.70	Open
Dec. 3, 2012	1.31	
Mar. 19, 2013	1.29	

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 5/29/13

Log of Borehole PR8

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-21

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/19/12

Drill Type:

Datum: Geodetic

Split Spoon Sample	▨	Combustible Vapour Reading	□
Auger Sample	⊠	Natural Moisture Content	×
SPT (N) Value	●	Atterberg Limits	⊢—⊖
Dynamic Cone Test	—	Undrained Triaxial at % Strain at Failure	⊕
Shelby Tube	■	Shear Strength by Penetrometer Test	▲
Shear Strength by Vane Test	✚ S		

GWL	SYMBOL	SOIL DESCRIPTION	ELEV, m	DEPTH	Standard Penetration Test N Value (20, 40, 60, 80) / Shear Strength kPa (50, 100, 150, 200)	Total Organic Vapours (ppm) (25, 50, 75) / Natural Moisture Content % / Atterberg Limits (% Dry Weight) (10, 20, 30)	SAMPLES	Natural Unit Weight kN/m³
		Topsoil (approx. 350 mm in thickness)	219.23	0				
		Native Soil: Brown, wet, firm, CLAYEY SILT.	218.88		5	×		
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist to wet - Very stiff	218.48	1	21			
					15	×		
				2	19			
		CLAYEY SILT / SILTY CLAY TILL - Grey - Damp to moist - Hard	216.23	3	46	×		
				4				
		..... auger and split spoon refusal at 5.18 m depth	214.00	5	32	refusal ×		
		End of borehole at 5.23 m						

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Log of Borehole PR9

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-22

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/19/12

Drill Type:

Datum: Geodetic

Split Spoon Sample
Auger Sample
SPT (N) Value
Dynamic Cone Test
Shelby Tube
Shear Strength by Vane Test
Combustible Vapour Reading
Natural Moisture Content
Atterberg Limits
Undrained Triaxial at % Strain at Failure
Shear Strength by Penetrometer Test

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH	Standard Penetration Test N Value (20 40 60 80) / Shear Strength kPa (50 100 150 200)	Total Combustible Vapours (ppm) (25 50 75) / Natural Moisture Content % / Atterberg Limits (% Dry Weight) (10 20 30)	SAMPLES	Natural Unit Weight kN/m³
		Topsoil (approx. 450 mm in thickness)	223.25	0	6			
		Native Soil: Brown, wet, firm, CLAYEY SILT.	222.80					
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Firm to hard	222.25	1	7			
				2	18			
			220.73	3	27			
		..... brownish grey			36			
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Hard	218.55	5	30			
				6	50/125mm			
				7				
				8	50/125mm			
				9	50/100mm			
		End of borehole at 9.24 m	214.01					

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 5/29/13

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open
Dec. 3, 2012	3.10	
Mar. 19, 2013	2.52	

Sheet No. 1 of 1

Log of Borehole SS1

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-23

Location: Area 47 Secondary Plan, Brampton, ON

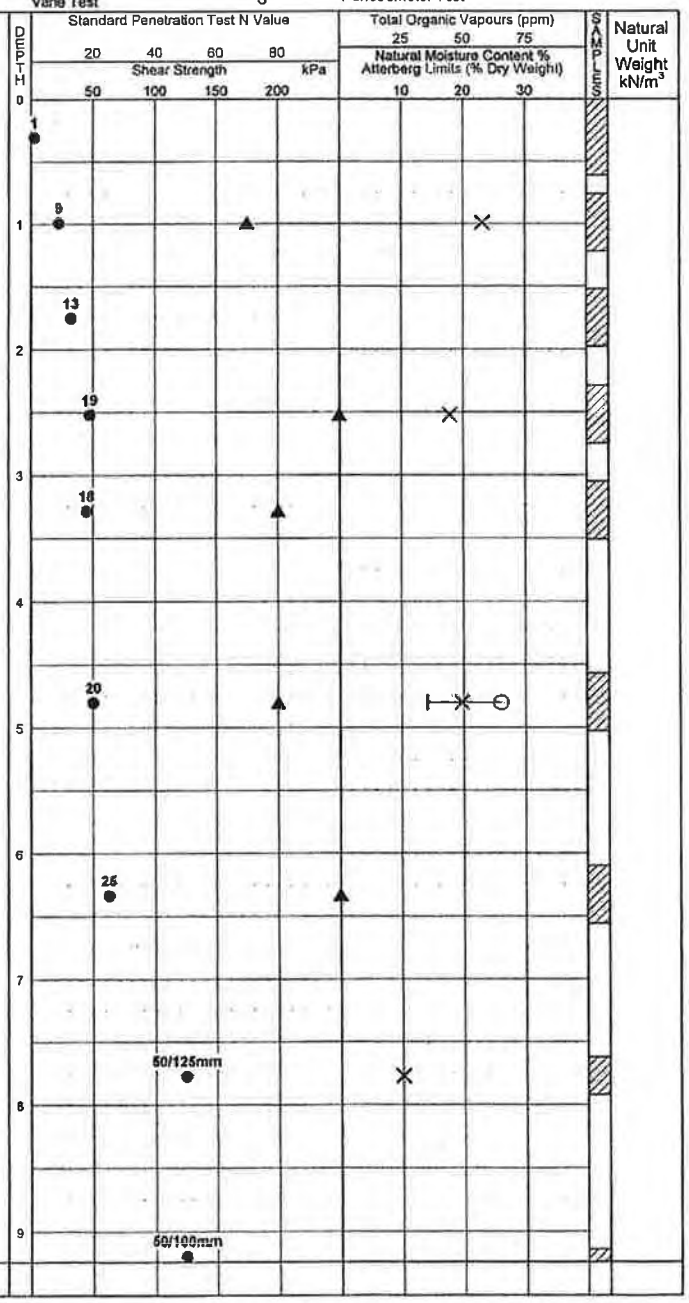
Date Drilled: 11/22/12

Drill Type:

Datum: Geodetic

Split Spoon Sample ▨
Auger Sample ⊠
SPT (N) Value ●
Dynamic Cone Test ——
Shelby Tube ■
Shear Strength by Vane Test ✚ S
Combustible Vapour Reading □
Natural Moisture Content ×
Atterberg Limits ⊢—⊖
Undrained Triaxial at % Strain at Failure ⊕
Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 400 mm in thickness)	214.34
		Native Soil: Greyish brown, wet, very soft, CLAYEY SILT.	213.94
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist to wet - Stiff	213.44
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist to very moist - Very stiff	212.24
		SANDY SILT TILL - Grey - Moist - Very dense	207.34
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Hard	205.84
		End of borehole at 9.24 m	205.10



Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/18/12

Log of Borehole SS2

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-24

Location: Area 47 Secondary Plan, Brampton, ON

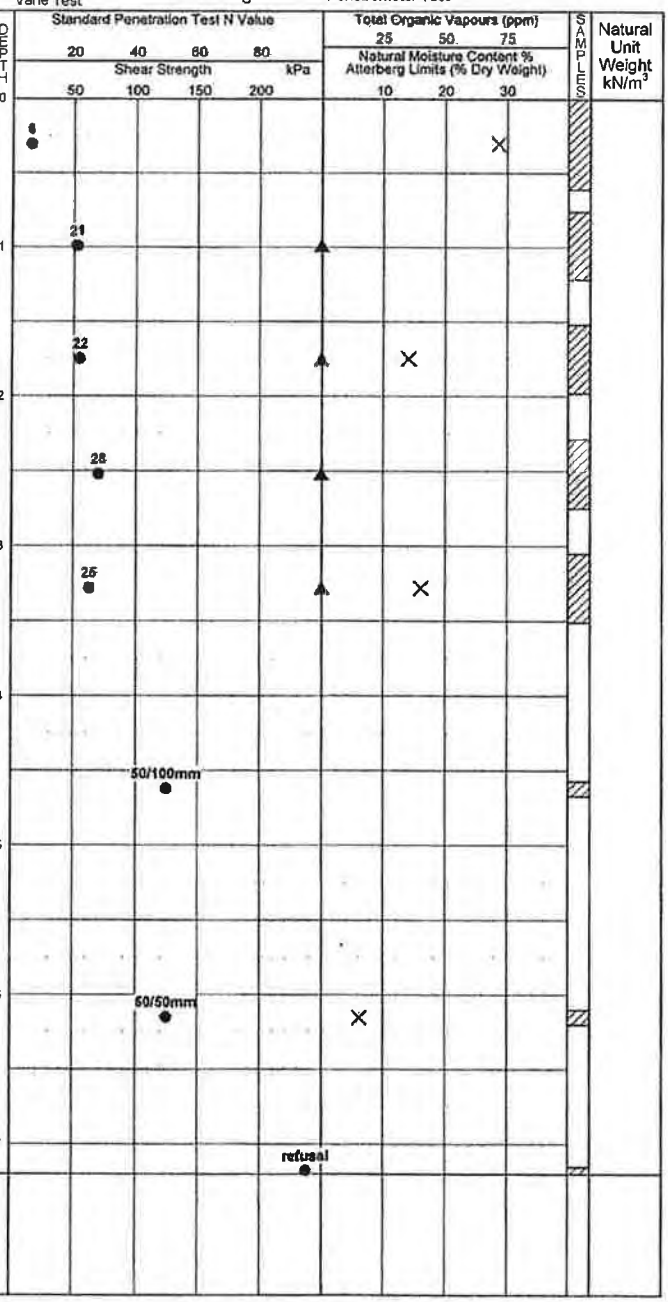
Date Drilled: 11/15/12

Drill Type:

Datum: Geodetic

Split Spoon Sample ▨ | Auger Sample ⊠ | SPT (N) Value ● | Dynamic Cone Test — | Shelby Tube ■ | Shear Strength by Vane Test ✚ S | Combustible Vapour Reading □ | Natural Moisture Content × | Atterberg Limits ⊢—⊖ | Undrained Triaxial at % Strain at Failure ⊕ | Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH
		Topsoil (approx. 250 mm in thickness)	207.69	0
		Native Soil: Brown, wet, firm, CLAYEY SILT.	207.44	
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff	207.14	
		..... brownish grey		1, 2, 3
		SANDY SILT TILL - Grey - Damp to moist - Very dense	203.69	4, 5, 6
		..... auger and split spoon refusal at 7.2 m depth	200.49	7
		End of borehole at 7.20 m		



LOG OF BOREHOLE OLD 40398.201- AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	Dry	Open

Sheet No. 1 of 1

Log of Borehole SS3

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-25

Location: Area 47 Secondary Plan, Brampton, ON

Date Drilled: 11/15/12

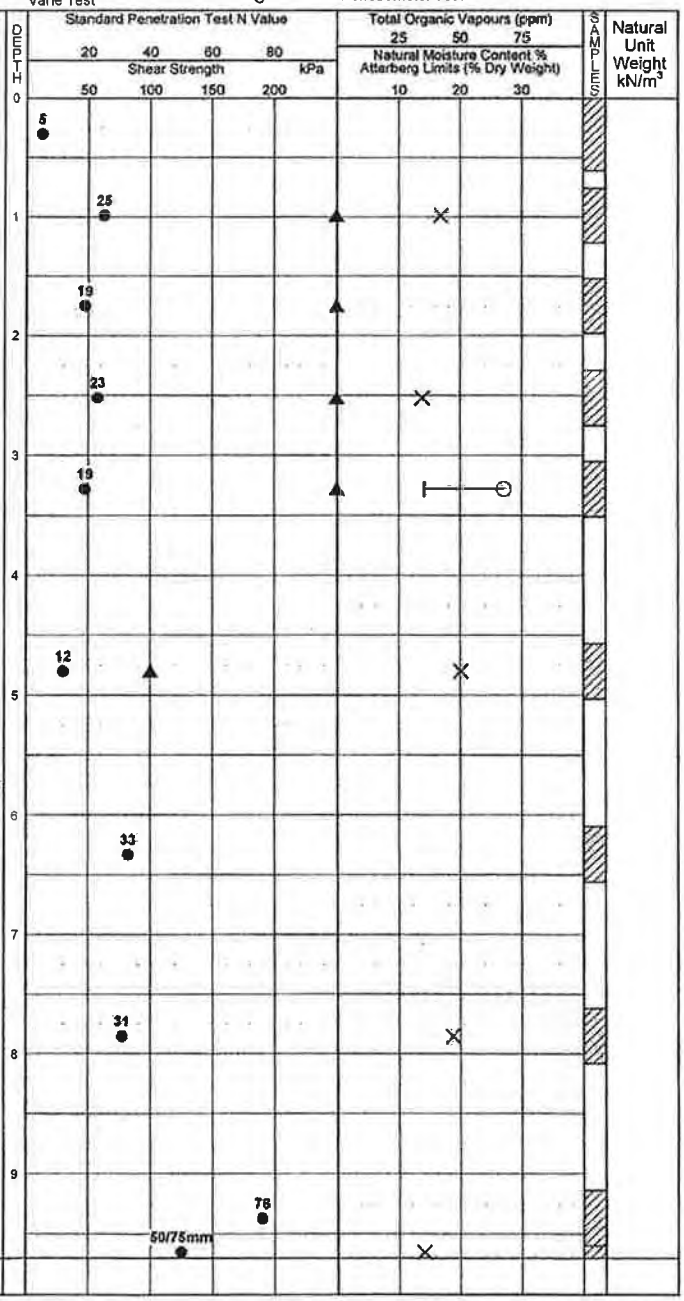
Drill Type:

Datum: Geodetic

Split Spoon Sample ▨ | Auger Sample ⊠ | SPT (N) Value ● | Dynamic Cone Test —— | Shelby Tube ■ | Shear Strength by Vane Test ✚ S

Combustible Vapour Reading □ | Natural Moisture Content × | Atterberg Limits ⊢—⊖ | Undrained Triaxial at % Strain at Failure ⊕ | Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 400 mm in thickness)	210.06
		Native Soil: brown, moist, firm, CLAYEY SILT.	209.66
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Very stiff	209.31
		.....brownish grey	
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist to wet - Stiff to very stiff	206.76
▼		SILTY SAND TILL - Grey - Wet - Dense	204.56 204.26
		GRAVELLY SAND - Grey - Wet - Dense	203.06
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Hard - With silt seam	201.56
		End of borehole at 9.70 m	200.36



Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	5.80	6.80

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201-AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/18/12

Log of Borehole SS4

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-26

Location: Area 47 Secondary Plan, Brampton, ON

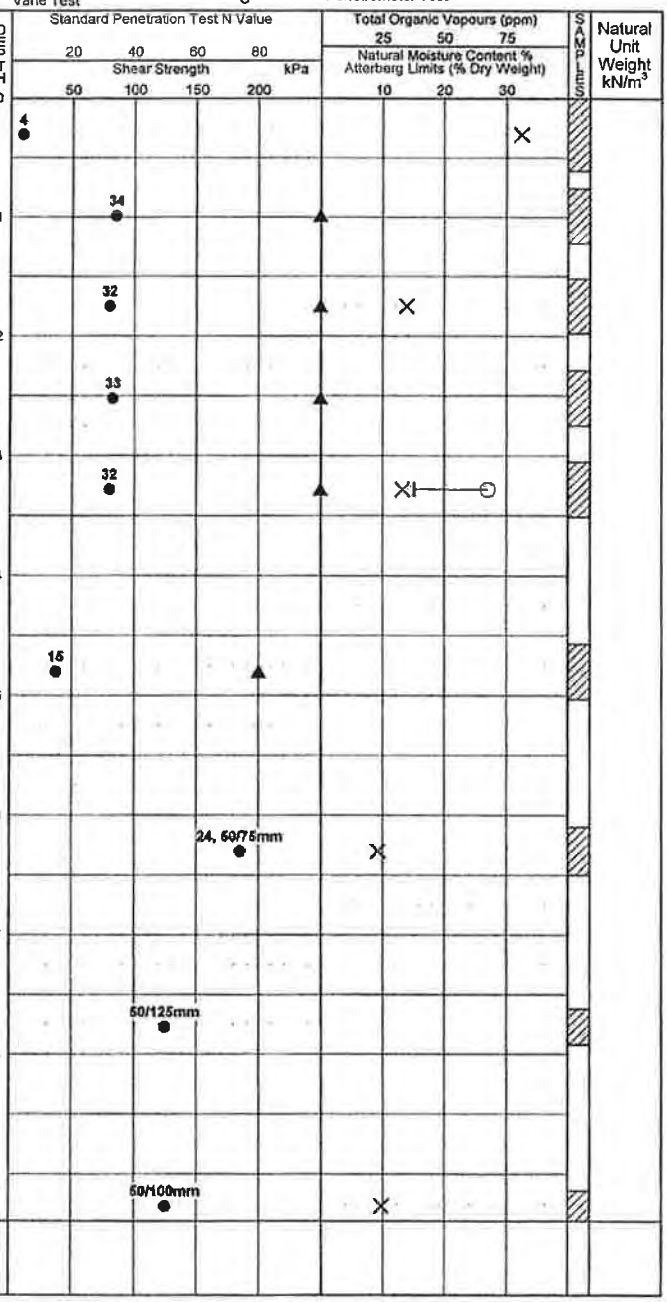
Date Drilled: 11/14/12

Drill Type:

Datum: Geodetic

Split Spoon Sample ▨ | Auger Sample ⊠ | SPT (N) Value ● | Dynamic Cone Test —— | Shelby Tube ■ | Shear Strength by Vane Test ✚ S | Combustible Vapour Reading □ | Natural Moisture Content × | Atterberg Limits ⊢—○ | Undrained Triaxial at % Strain at Failure ⊕ | Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m
		Topsoil (approx. 450 mm in thickness)	205.91
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Hard	205.46
		..... brownish grey	
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist - Stiff to hard	201.91
		SANDY SILT TILL - Grey - Moist - Very dense	199.61
▼			198.61
		End of borehole at 9.39 m	196.52



Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	7.30	7.90

Sheet No. 1 of 1

LOG OF BOREHOLE OLD 40398.201-AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/18/12

Log of Borehole SS5

AME Materials Engineering

Project No.: 40398.201

Project Name: Geotechnical Study for Proposed Residential Development

Figure No. 2-27

Location: Area 47 Secondary Plan, Brampton, ON

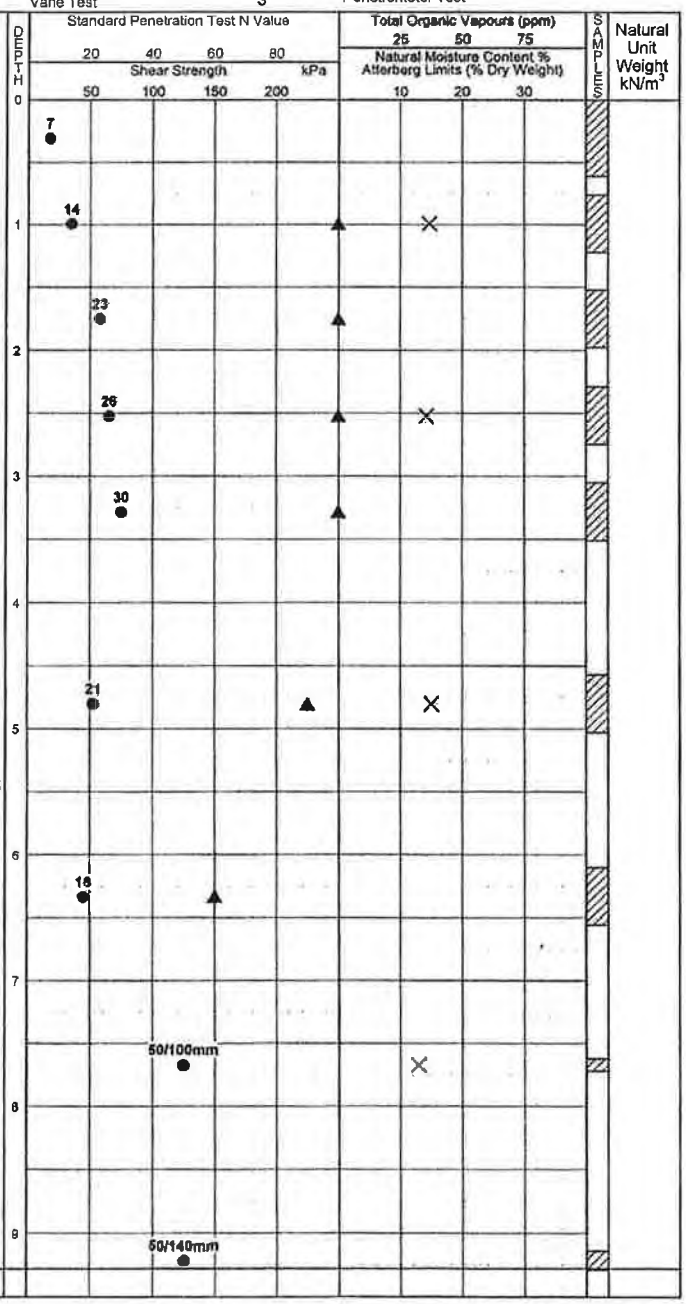
Date Drilled: 11/13/12

Drill Type:

Datum: Geodetic

Split Spoon Sample ▨ | Auger Sample ⊠ | SPT (N) Value ● | Dynamic Cone Test —— | Shelby Tube ■ | Shear Strength by Vane Test ✚ S | Combustible Vapour Reading □ | Natural Moisture Content × | Atterberg Limits ⊢—⊖ | Undrained Triaxial at % Strain at Failure ⊕ | Shear Strength by Penetrometer Test ▲

GWL	SYMBOL	SOIL DESCRIPTION	ELEV, m
		Topsoil (approx. 300 mm in thickness)	204.05
		Native Soil: Brown, moist, firm, CLAYEY SILT.	203.75
		CLAYEY SILT / SILTY CLAY TILL - Brown - Moist - Stiff to very stiff	203.35
		..... brownish grey	
		CLAYEY SILT / SILTY CLAY TILL - Grey - Moist to wet - Very stiff	199.25
▼			198.55
		SANDY SILT TILL - Grey - Wet - Very dense - With some gravel	197.05
		End of borehole at 9.28 m	194.77



SAMPLES

Natural Unit Weight kN/m³

Notes:

Date/Time	Water Level (m)	Depth to Cave (m)
Upon completion	5.50	Open

Sheet No. 1 of 1

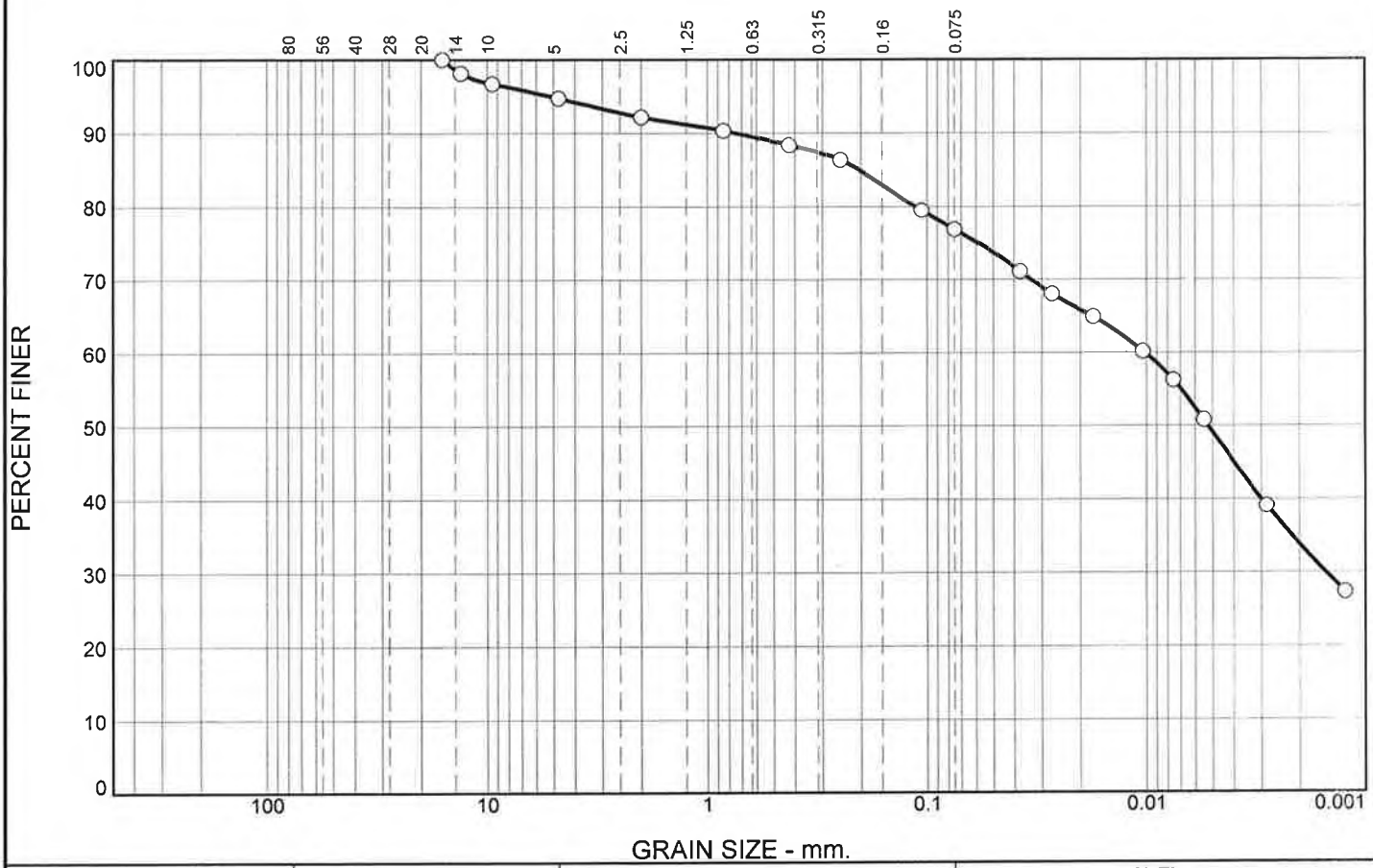
LOG OF BOREHOLE OLD 40398.201-AREA 47, BRAMPTON.GPJ AME_ON.GDT 12/12/12

APPENDIX 3

Particle Size Distribution Reports
Figures 3-1 and 3-26

Atterberg Limits Test Results
Figure 3-27

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	5.2	2.6	3.9	11.4	43.1	33.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
16 mm	100.0		
13.2 mm	98.1		
9.5 mm	96.7		
4.75 mm	94.8		
2.00 mm	92.2		
0.850 mm	90.4		
0.425 mm	88.3		
0.250 mm	86.3		
0.106 mm	79.5		
0.075 mm	76.9		
0.0376 mm.	71.1		
0.0271 mm.	68.0		
0.0175 mm.	64.8		
0.0104 mm.	60.2		
0.0075 mm.	56.3		
0.0055 mm.	50.8		
0.0028 mm.	39.1		
0.0012 mm.	27.3		

* (no specification provided)

Soil Description

Grey clayey silt trace of gravel with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.7431 D_{85}= 0.2043 D_{60}= 0.0102
D_{50}= 0.0053 D_{30}= 0.0015 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 14, 2012

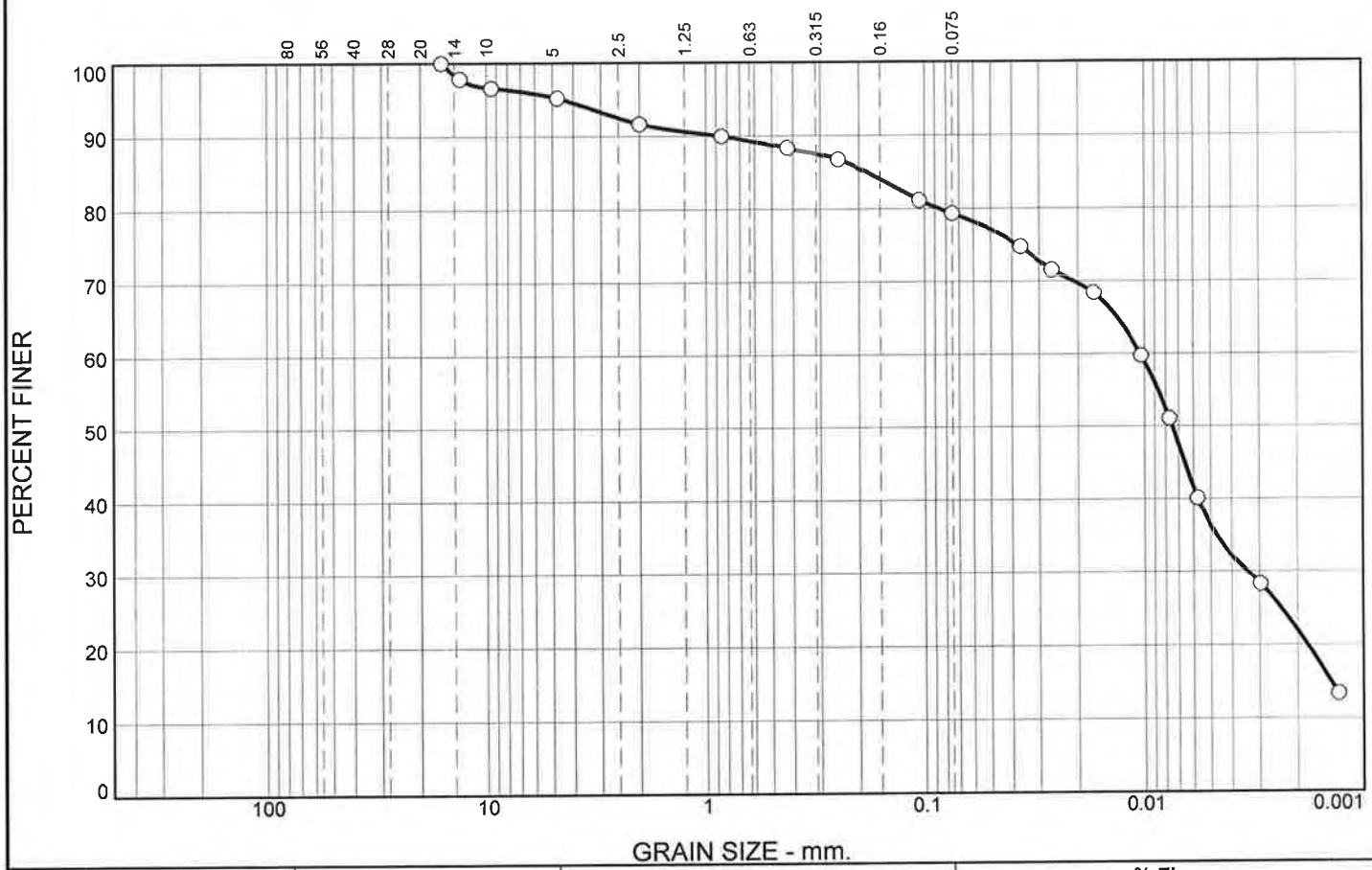
Location: PC1 S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 1

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.8	3.5	3.4	9.0	57.4	21.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
16 mm	100.0		
13.2 mm	97.8		
9.5 mm	96.6		
4.75 mm	95.2		
2.00 mm	91.7		
0.850 mm	90.0		
0.425 mm	88.3		
0.250 mm	86.7		
0.106 mm	81.1		
0.075 mm	79.3		
0.0365 mm.	74.7		
0.0264 mm.	71.5		
0.0171 mm.	68.4		
0.0104 mm.	59.7		
0.0077 mm.	51.1		
0.0057 mm.	40.1		
0.0030 mm.	28.3		
0.0013 mm.	13.4		

* (no specification provided)

Soil Description

Grey clayey silt trace of gravel with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.8562 D_{85}= 0.1868 D_{60}= 0.0105
D_{50}= 0.0075 D_{30}= 0.0034 D_{15}= 0.0014
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 21, 2012

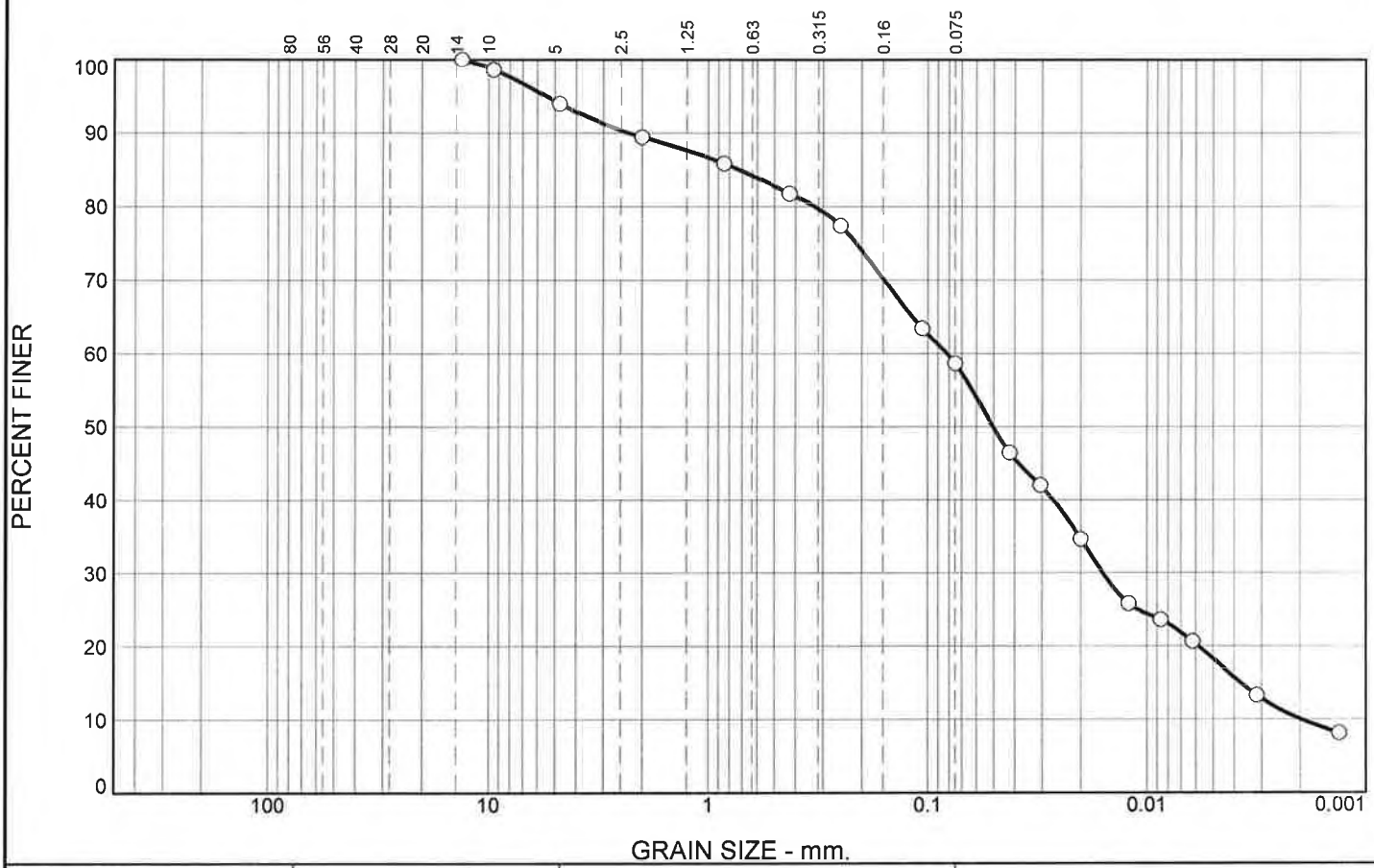
Location: PC2 S8
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 2

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.0	4.6	7.6	23.1	48.7	10.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
13.2 mm	100.0		
9.5 mm	98.6		
4.75 mm	94.0		
2.00 mm	89.4		
0.850 mm	85.9		
0.425 mm	81.8		
0.250 mm	77.4		
0.106 mm	63.3		
0.075 mm	58.7		
0.0422 mm.	46.4		
0.0306 mm.	42.0		
0.0201 mm.	34.6		
0.0121 mm.	25.8		
0.0086 mm.	23.6		
0.0062 mm.	20.6		
0.0032 mm.	13.3		
0.0013 mm.	8.1		

* (no specification provided)

Soil Description

Grey sandy silt trace of gravel with some clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 2.2943 D_{85}= 0.7235 D_{60}= 0.0817
D_{50}= 0.0504 D_{30}= 0.0159 D_{15}= 0.0038
D_{10}= 0.0020 C_u= 41.14 C_c= 1.56

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 20, 2012

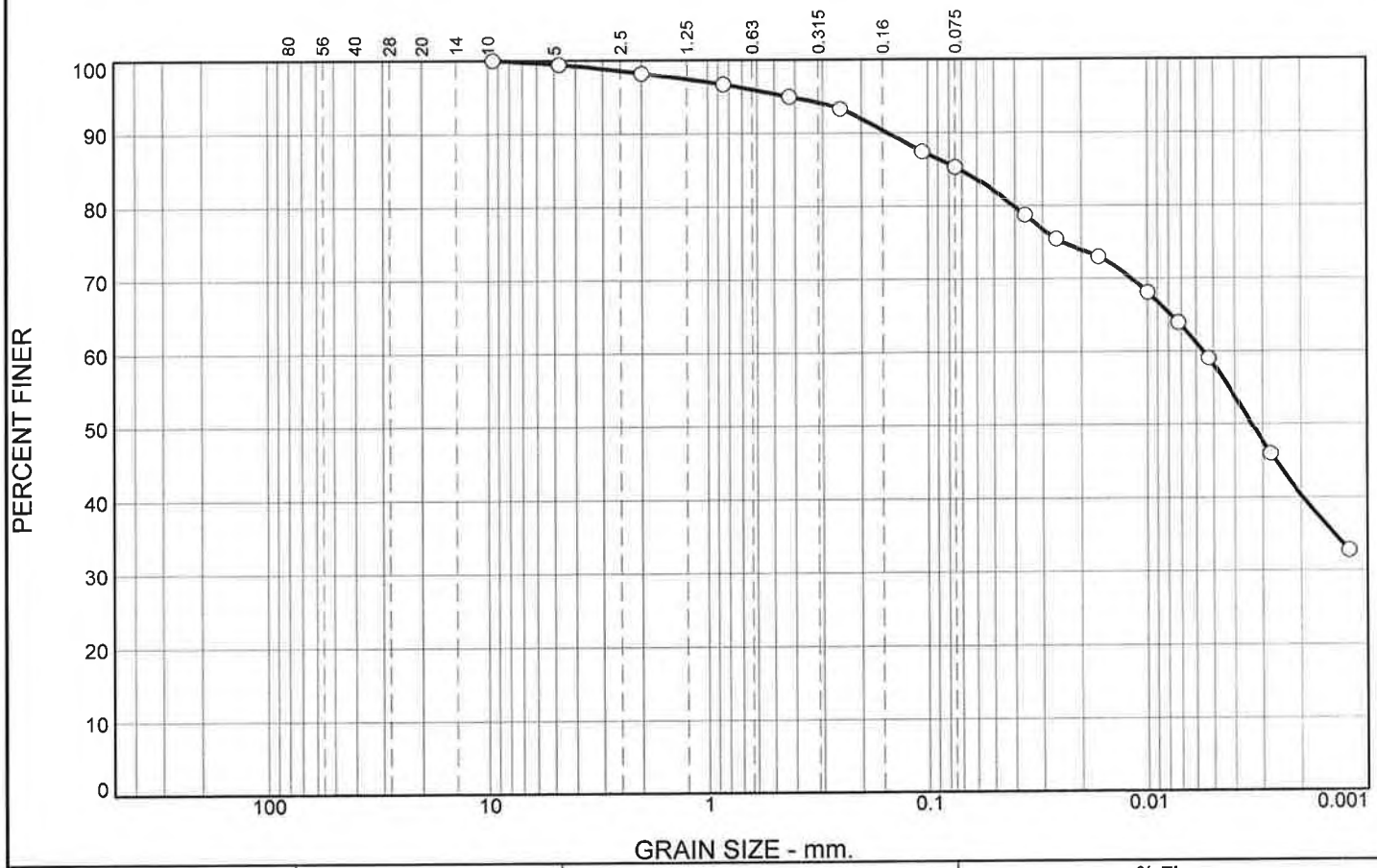
Location: PC3 S8
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 3

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.6	1.2	3.2	9.7	45.1	40.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
9.5 mm	100.0		
4.75 mm	99.4		
2.00 mm	98.2		
0.850 mm	96.7		
0.425 mm	95.0		
0.250 mm	93.3		
0.106 mm	87.4		
0.075 mm	85.3		
0.0361 mm.	78.7		
0.0261 mm.	75.4		
0.0168 mm.	73.0		
0.0100 mm.	68.1		
0.0072 mm.	64.0		
0.0053 mm.	59.0		
0.0028 mm.	45.9		
0.0012 mm.	32.8		

* (no specification provided)

Soil Description

Grey clayey silt with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.1522 D_{85}= 0.0718 D_{60}= 0.0056
D_{50}= 0.0034 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 20, 2012

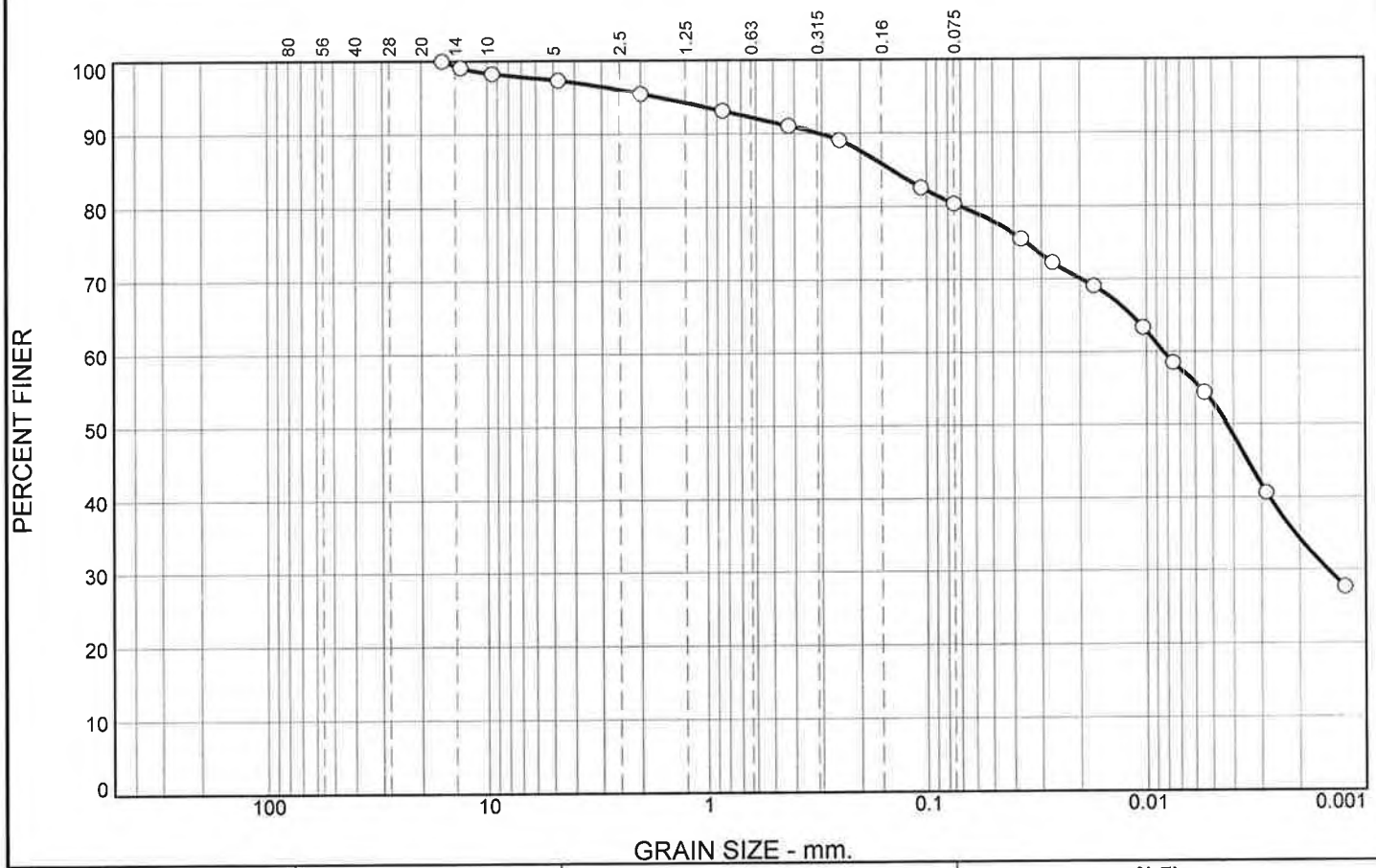
Location: PC4 S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 4

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.7	1.8	4.5	10.6	46.2	34.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
16 mm	100.0		
13.2 mm	99.1		
9.5 mm	98.2		
4.75 mm	97.3		
2.00 mm	95.5		
0.850 mm	93.1		
0.425 mm	91.0		
0.250 mm	89.0		
0.106 mm	82.6		
0.075 mm	80.4		
0.0373 mm.	75.5		
0.0269 mm.	72.3		
0.0174 mm.	69.0		
0.0104 mm.	63.4		
0.0075 mm.	58.5		
0.0054 mm.	54.4		
0.0028 mm.	40.6		
0.0012 mm.	27.6		

* (no specification provided)

Soil Description

Grey clayey silt trace of gravel with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.3075 D_{85}= 0.1440 D_{60}= 0.0084
D_{50}= 0.0043 D_{30}= 0.0015 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 16, 2012

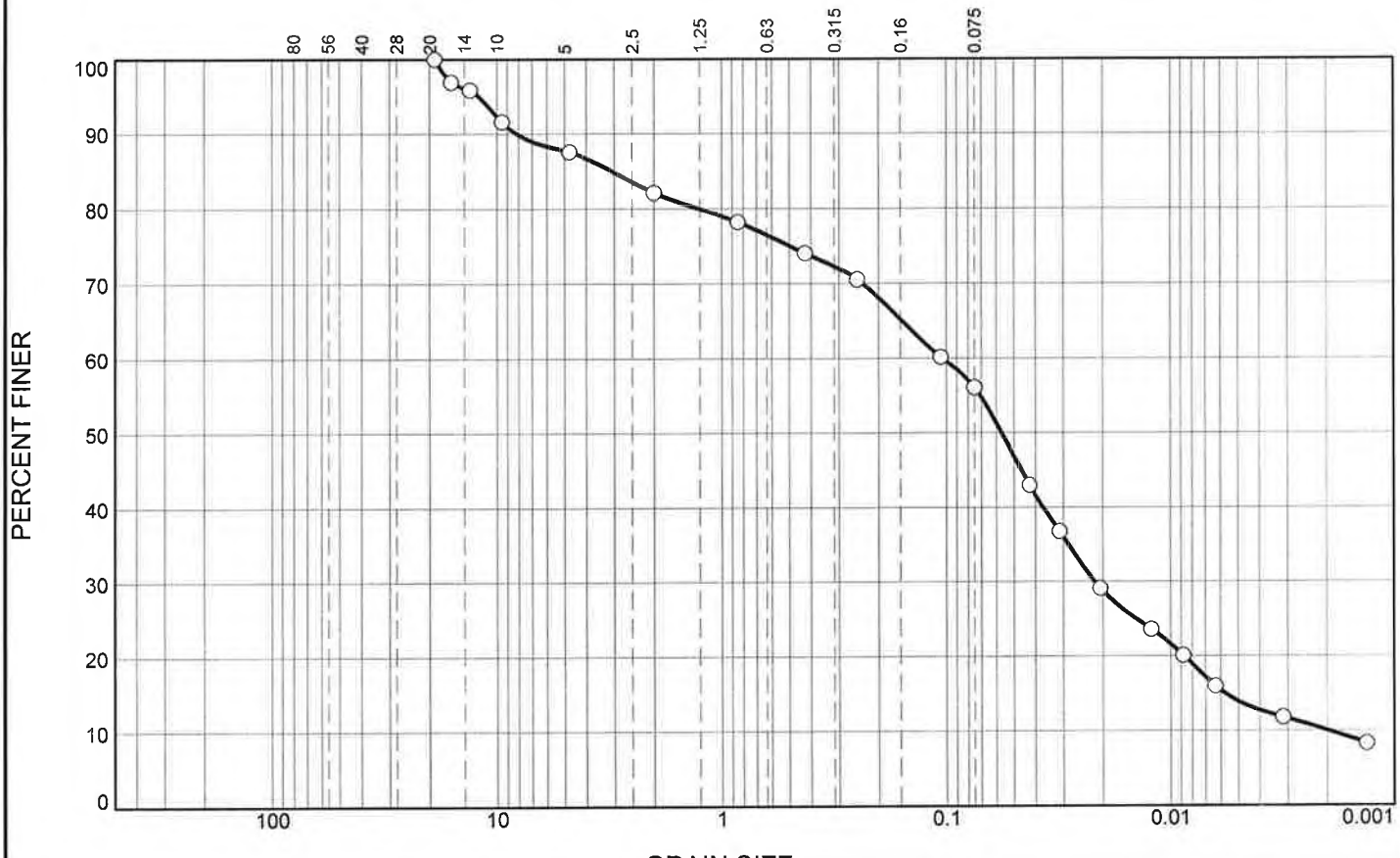
Location: PC5A S7
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 5

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	12.5	5.4	8.1	17.9	46.1	10.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
19 mm	100.0		
16 mm	96.9		
13.2 mm	95.8		
9.5 mm	91.6		
4.75 mm	87.5		
2.00 mm	82.1		
0.850 mm	78.2		
0.425 mm	74.0		
0.250 mm	70.5		
0.106 mm	60.1		
0.075 mm	56.1		
0.0427 mm.	42.9		
0.0313 mm.	36.7		
0.0206 mm.	29.1		
0.0122 mm.	23.5		
0.0088 mm.	20.1		
0.0063 mm.	15.9		
0.0031 mm.	11.8		
0.0013 mm.	8.3		

* (no specification provided)

Soil Description

Grey sandy silt some gravel and clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 8.1762 D_{85}= 3.0782 D_{60}= 0.1046
D_{50}= 0.0568 D_{30}= 0.0218 D_{15}= 0.0058
D_{10}= 0.0020 C_u= 52.47 C_c= 2.29

Classification

USCS= AASHTO=

Remarks

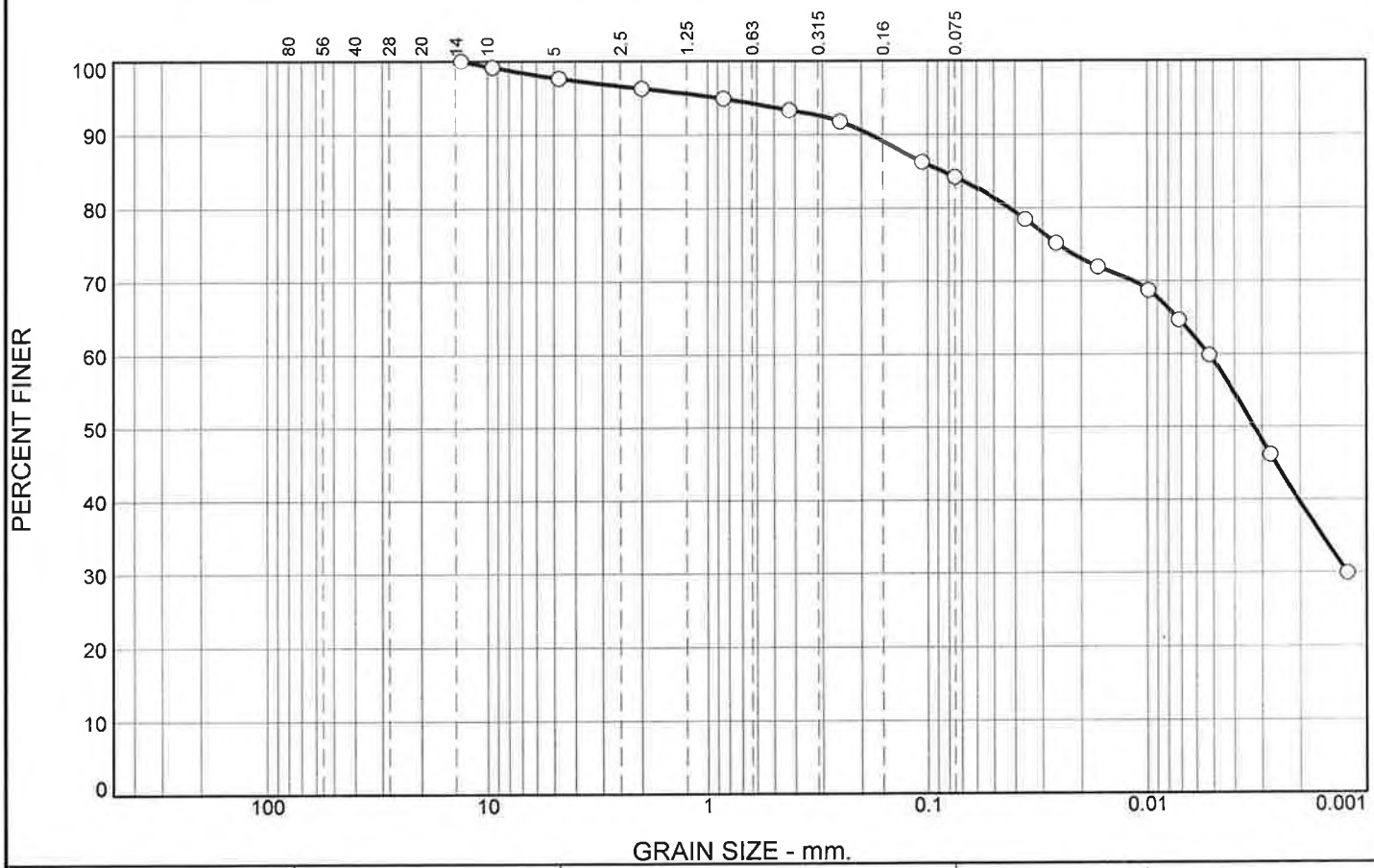
Location: PG1 S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 6

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.3	1.4	2.9	9.2	44.7	39.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
13.2 mm	100.0		
9.5 mm	99.2		
4.75 mm	97.7		
2.00 mm	96.3		
0.850 mm	94.9		
0.425 mm	93.4		
0.250 mm	91.8		
0.106 mm	86.3		
0.075 mm	84.2		
0.0359 mm.	78.4		
0.0260 mm.	75.2		
0.0168 mm.	72.0		
0.0099 mm.	68.7		
0.0072 mm.	64.7		
0.0052 mm.	59.8		
0.0027 mm.	46.1		
0.0012 mm.	29.9		

* (no specification provided)

Soil Description

Brown clayey silt with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.1822 D_{85}= 0.0855 D_{60}= 0.0053
D_{50}= 0.0033 D_{30}= 0.0012 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 13, 2012

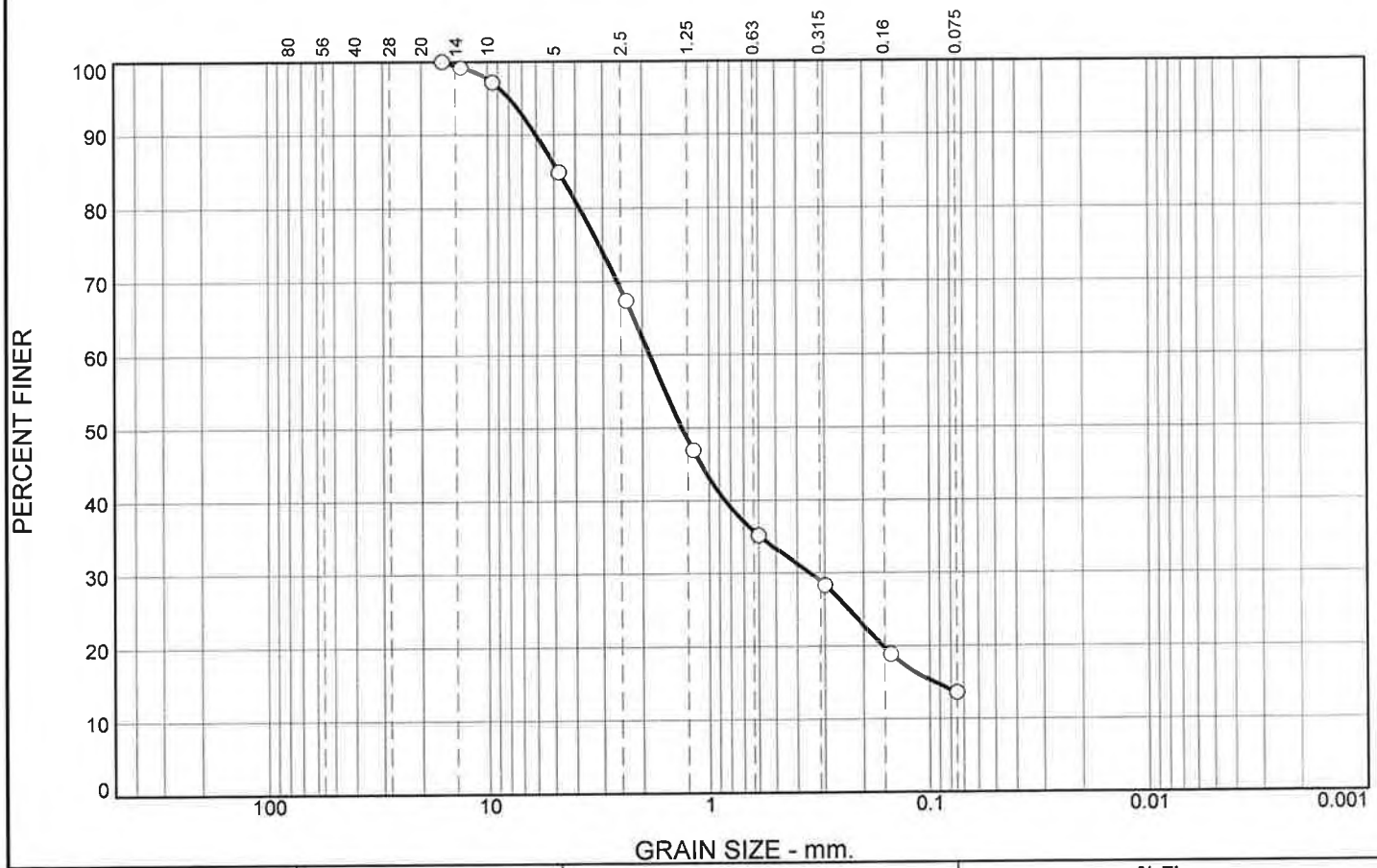
Location: PG2 S5
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 7

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	15.2	22.4	30.6	18.2	13.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
16 mm	100.0		
13.2 mm	99.1		
9.5 mm	97.2		
4.75 mm	84.8		
2.36 mm	67.3		
1.18 mm	46.8		
0.600 mm	35.2		
0.300 mm	28.3		
0.150 mm	18.9		
0.075 mm	13.6		

* (no specification provided)

Soil Description

Grey gravelly Sand with some silt and clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 6.0379 D_{85}= 4.7890 D_{60}= 1.8539
D_{50}= 1.3298 D_{30}= 0.3509 D_{15}= 0.0953
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 14, 2012

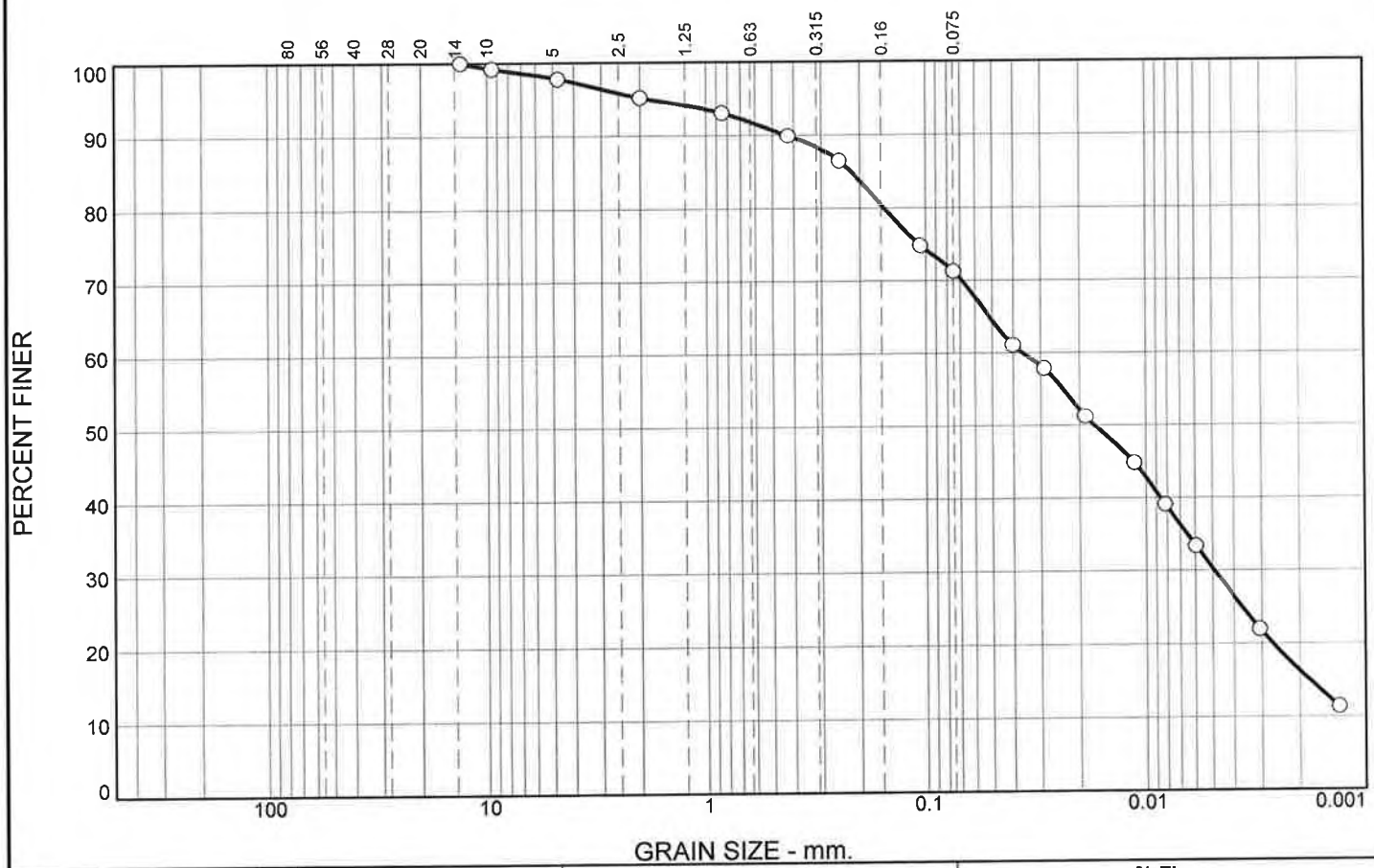
Location: PG2 S7
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 8

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.2	2.6	5.3	18.6	55.1	16.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
13.2 mm	100.0		
9.5 mm	99.2		
4.75 mm	97.8		
2.00 mm	95.2		
0.850 mm	93.1		
0.425 mm	89.9		
0.250 mm	86.4		
0.106 mm	74.8		
0.075 mm	71.3		
0.0403 mm.	61.1		
0.0290 mm.	57.8		
0.0190 mm.	51.3		
0.0113 mm.	44.8		
0.0082 mm.	39.1		
0.0059 mm.	33.4		
0.0031 mm.	22.0		
0.0013 mm.	11.4		

* (no specification provided)

Soil Description

Grey sandy silt trace of gravel with some clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.4343 D_{85}= 0.2206 D_{60}= 0.0364
D_{50}= 0.0172 D_{30}= 0.0049 D_{15}= 0.0018
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 15, 2012

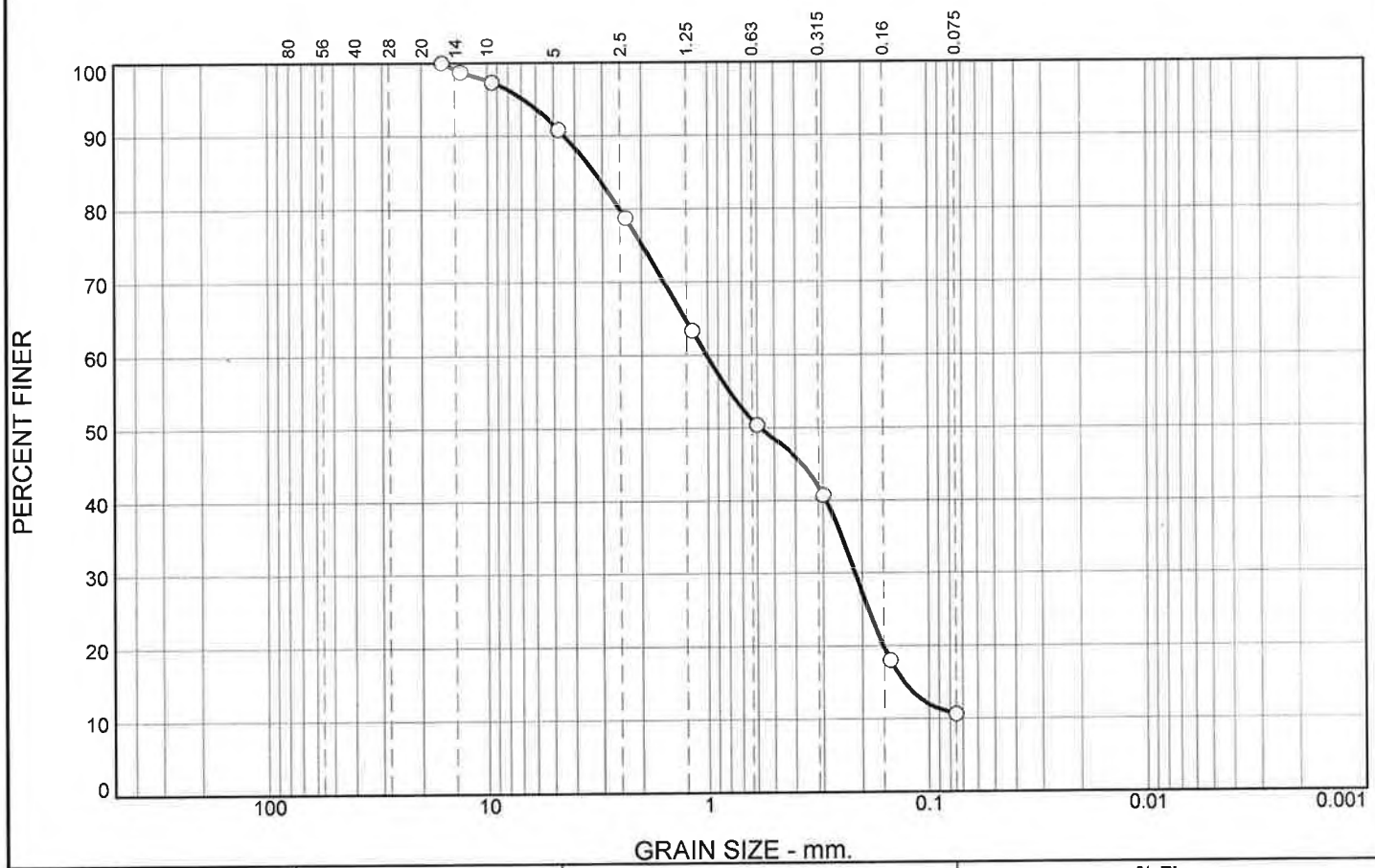
Location: PG4 S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 9

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	9.2	15.6	28.5	36.1	10.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
16 mm	100.0		
13.2 mm	98.7		
9.5 mm	97.3		
4.75 mm	90.8		
2.36 mm	78.7		
1.18 mm	63.3		
0.600 mm	50.4		
0.300 mm	40.7		
0.150 mm	18.0		
0.075 mm	10.6		

* (no specification provided)

Soil Description

Grey sand & gravel with some silt

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 4.4831 D_{85}= 3.2783 D_{60}= 1.0163
D_{50}= 0.5789 D_{30}= 0.2161 D_{15}= 0.1304
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 13, 2012

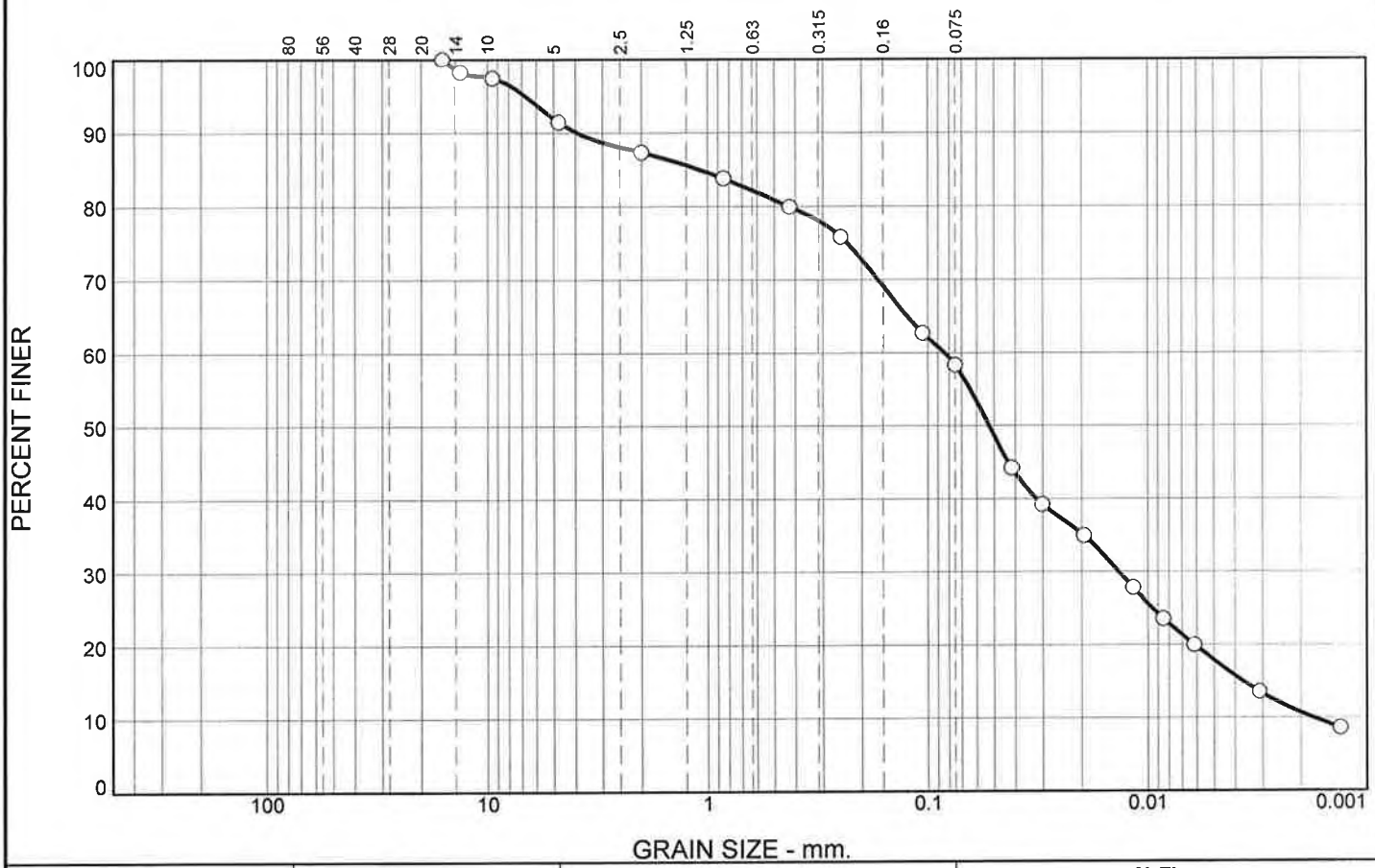
Location: PG5A S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 10

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	8.5	4.2	7.4	21.6	47.6	10.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
16 mm	100.0		
13.2 mm	98.2		
9.5 mm	97.5		
4.75 mm	91.5		
2.00 mm	87.3		
0.850 mm	83.8		
0.425 mm	79.9		
0.250 mm	75.9		
0.106 mm	62.8		
0.075 mm	58.3		
0.0417 mm.	44.2		
0.0303 mm.	39.2		
0.0196 mm.	35.0		
0.0118 mm.	27.8		
0.0085 mm.	23.5		
0.0061 mm.	20.0		
0.0031 mm.	13.6		
0.0013 mm.	8.6		

* (no specification provided)

Soil Description

Grey sandy silt trace of gravel with some clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 3.9026 D_{85}= 1.0885 D_{60}= 0.0838
D_{50}= 0.0527 D_{30}= 0.0136 D_{15}= 0.0037
D_{10}= 0.0018 C_u= 47.45 C_c= 1.25

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 16, 2012

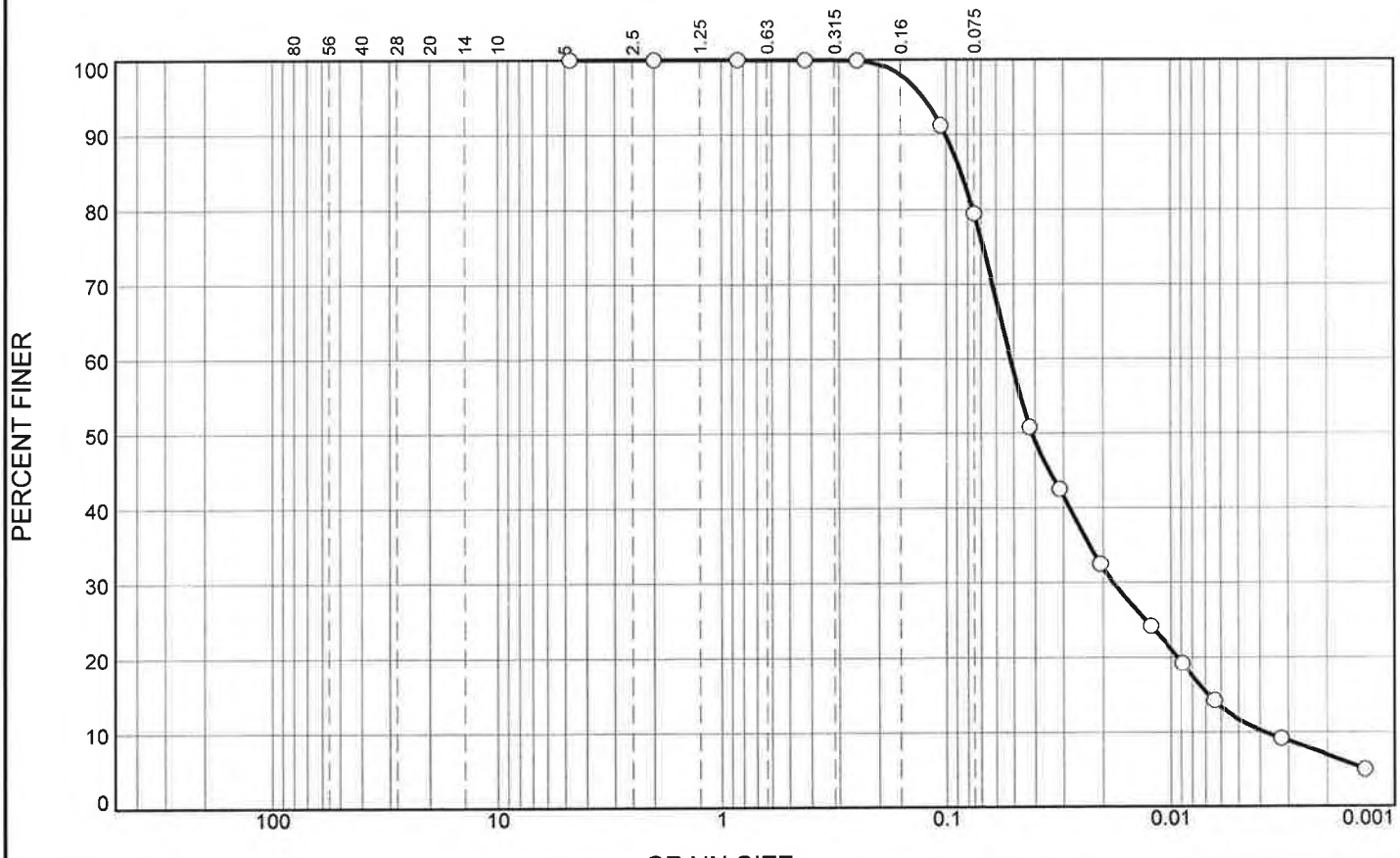
Location: PG6 S7
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 11

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.0	20.6	72.5	6.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
4.75 mm	100.0		
2.00 mm	100.0		
0.850 mm	100.0		
0.425 mm	100.0		
0.250 mm	99.9		
0.106 mm	91.2		
0.075 mm	79.4		
0.0425 mm.	50.9		
0.0313 mm.	42.5		
0.0206 mm.	32.5		
0.0123 mm.	24.2		
0.0089 mm.	19.2		
0.0064 mm.	14.2		
0.0032 mm.	9.2		
0.0014 mm.	5.0		

* (no specification provided)

Soil Description

Grey Fine sandy silt with trace clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.1009 D_{85}= 0.0860 D_{60}= 0.0519
D_{50}= 0.0415 D_{30}= 0.0181 D_{15}= 0.0068
D_{10}= 0.0038 C_u= 13.55 C_c= 1.65

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 14, 2012

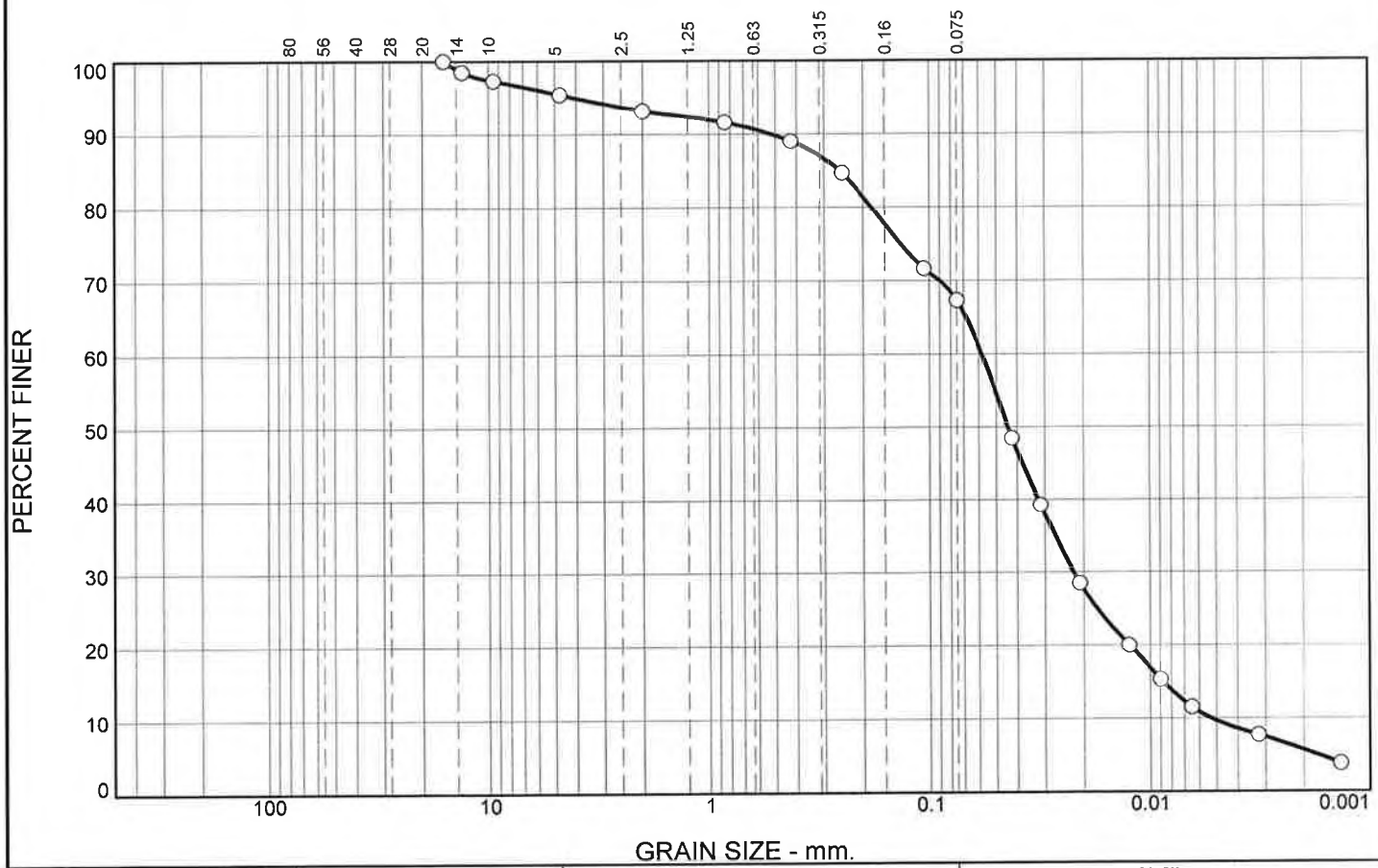
Location: PG7 S7
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 12

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.6	2.2	4.2	21.7	61.7	5.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
16 mm	100.0		
13.2 mm	98.5		
9.5 mm	97.3		
4.75 mm	95.4		
2.00 mm	93.2		
0.850 mm	91.6		
0.425 mm	89.0		
0.250 mm	84.6		
0.106 mm	71.6		
0.075 mm	67.3		
0.0424 mm.	48.4		
0.0314 mm.	39.2		
0.0209 mm.	28.5		
0.0125 mm.	20.0		
0.0090 mm.	15.4		
0.0065 mm.	11.5		
0.0032 mm.	7.7		
0.0014 mm.	3.8		

* (no specification provided)

Soil Description

Grey sandy silt trace of gravel with some clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.5220 D_{85}= 0.2575 D_{60}= 0.0582
D_{50}= 0.0443 D_{30}= 0.0223 D_{15}= 0.0088
D_{10}= 0.0053 C_u= 10.95 C_c= 1.61

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 16, 2012

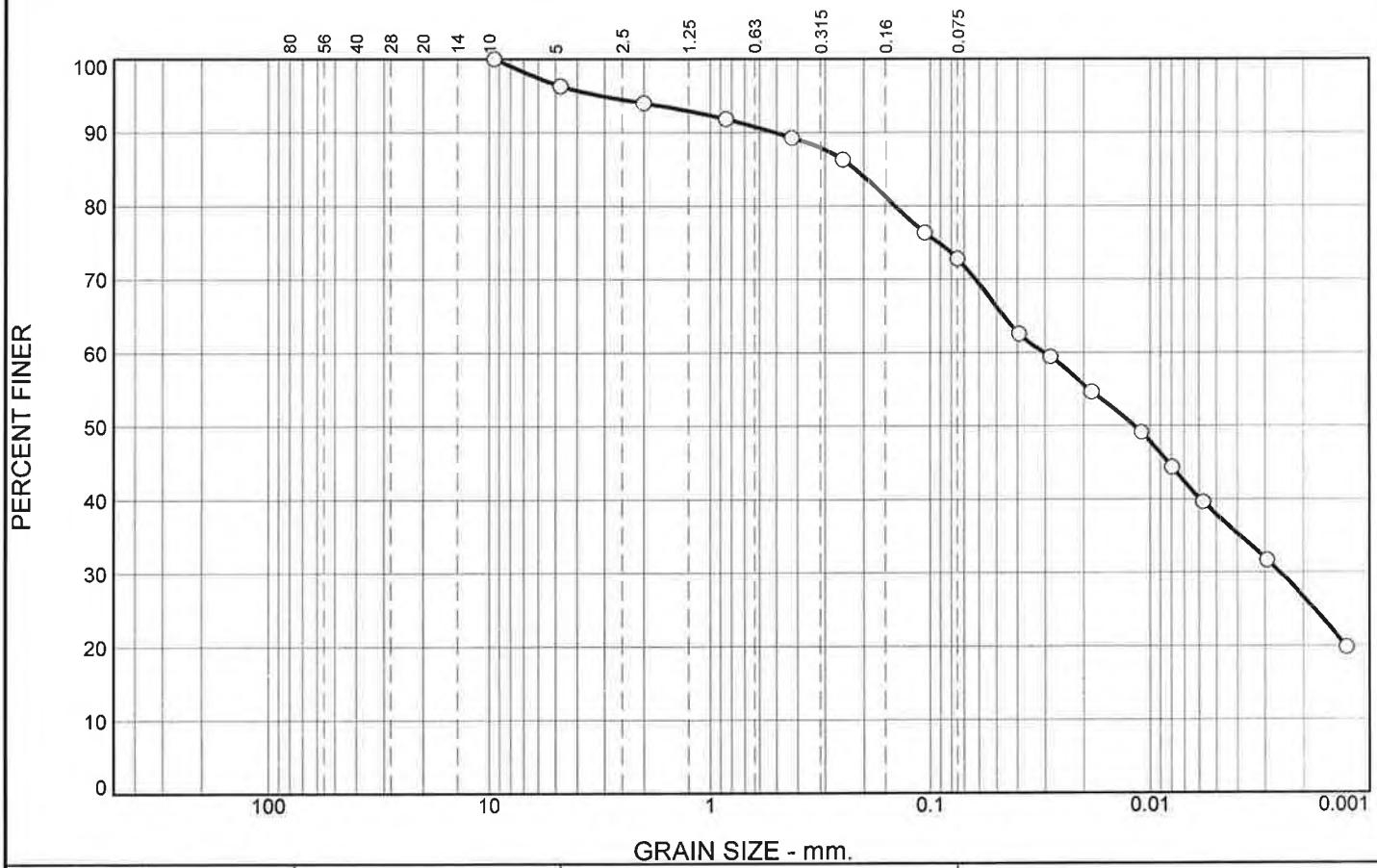
Location: PG8 S8
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 13

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.7	2.3	4.7	16.5	46.2	26.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
9.5 mm	100.0		
4.75 mm	96.3		
2.00 mm	94.0		
0.850 mm	91.8		
0.425 mm	89.3		
0.250 mm	86.3		
0.106 mm	76.3		
0.075 mm	72.8		
0.0394 mm.	62.6		
0.0284 mm.	59.4		
0.0185 mm.	54.6		
0.0110 mm.	49.1		
0.0080 mm.	44.3		
0.0058 mm.	39.6		
0.0029 mm.	31.7		
0.0013 mm.	19.8		

* (no specification provided)

Soil Description

Grey clayey silt trace of gravel with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.5094 D_{85}= 0.2186 D_{60}= 0.0304
D_{50}= 0.0118 D_{30}= 0.0026 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 20, 2012

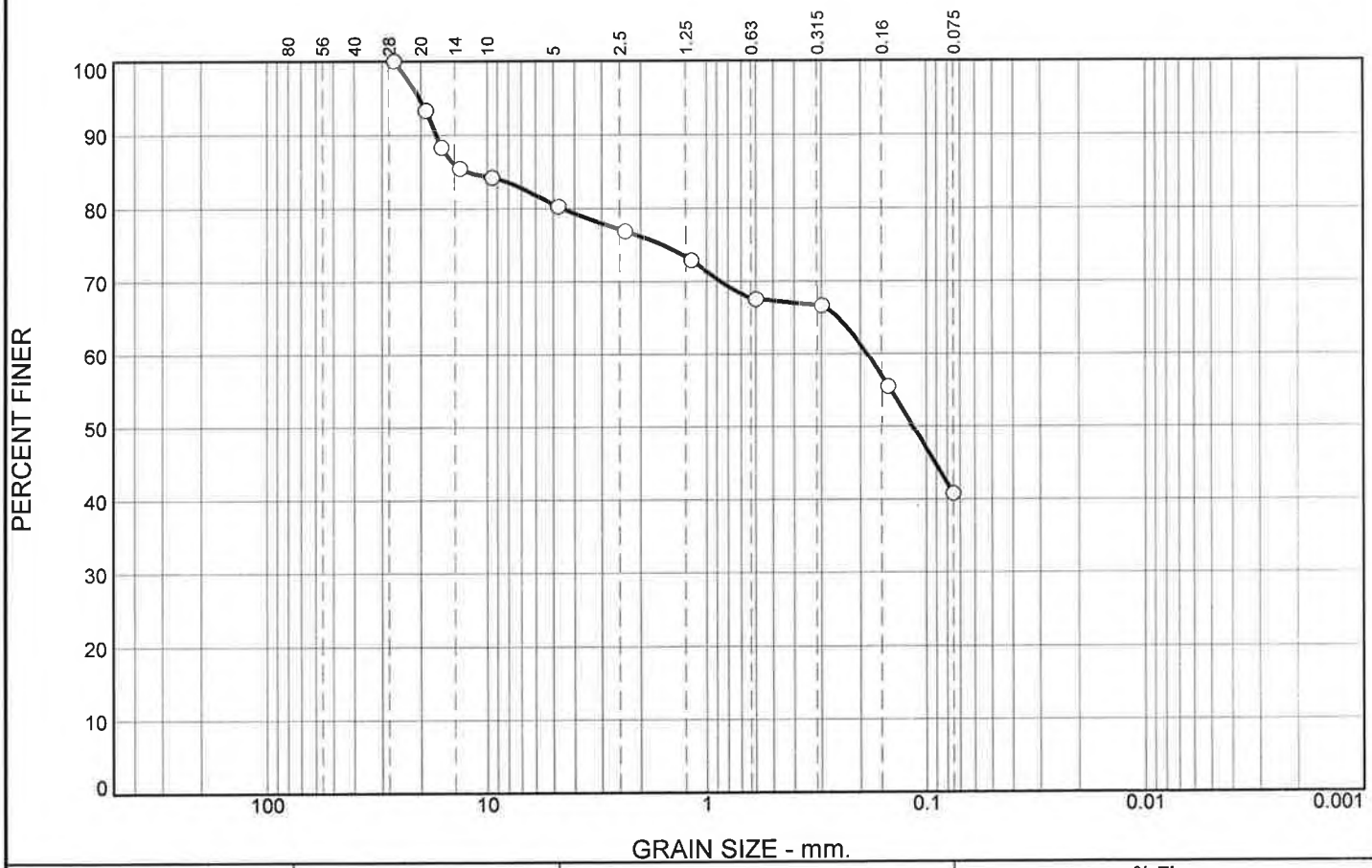
Location: PR1 S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 14

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	6.6	13.1	4.2	9.0	26.3	40.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
26.5 mm	100.0		
19 mm	93.3		
16 mm	88.3		
13.2 mm	85.5		
9.5 mm	84.3		
4.75 mm	80.3		
2.36 mm	76.9		
1.18 mm	72.8		
0.600 mm	67.5		
0.300 mm	66.7		
0.150 mm	55.5		
0.075 mm	40.8		

* (no specification provided)

Soil Description

Brown silty sand with some gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 17.0400 D_{85}= 12.2809 D_{60}= 0.1874
D_{50}= 0.1156 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 21, 2012

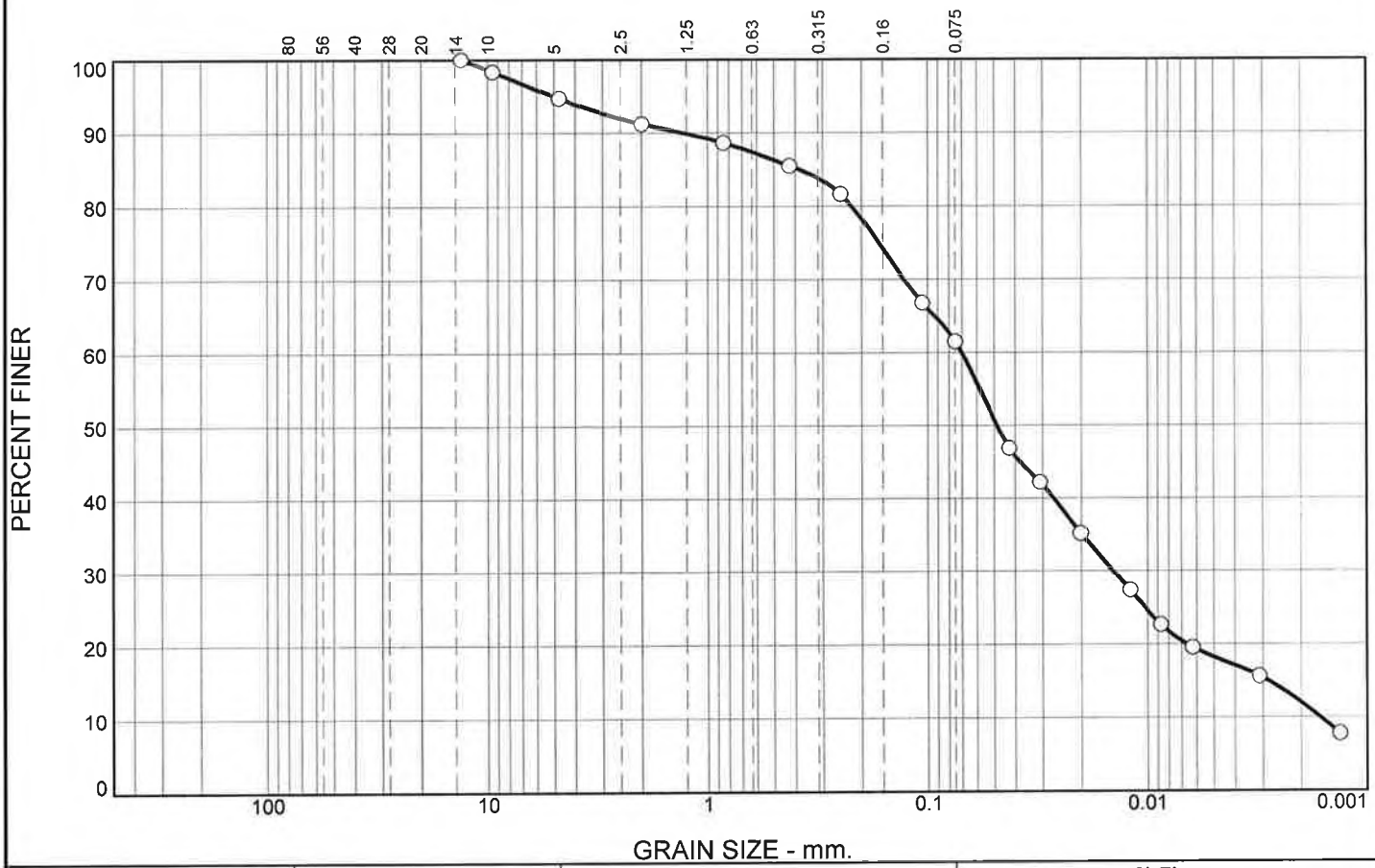
Location: PR2 S4
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 15

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	5.3	3.5	5.7	24.0	49.5	12.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
13.2 mm	100.0		
9.5 mm	98.3		
4.75 mm	94.7		
2.00 mm	91.2		
0.850 mm	88.7		
0.425 mm	85.5		
0.250 mm	81.6		
0.106 mm	66.8		
0.075 mm	61.5		
0.0427 mm.	46.9		
0.0309 mm.	42.2		
0.0202 mm.	35.1		
0.0121 mm.	27.3		
0.0087 mm.	22.6		
0.0062 mm.	19.5		
0.0031 mm.	15.6		
0.0013 mm.	7.8		

* (no specification provided)

Soil Description

Grey sandy silt trace of gravel with some clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 1.2945 D_{85}= 0.3838 D_{60}= 0.0701
D_{50}= 0.0488 D_{30}= 0.0145 D_{15}= 0.0028
D_{10}= 0.0016 C_u= 42.72 C_c= 1.82

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 21, 2012

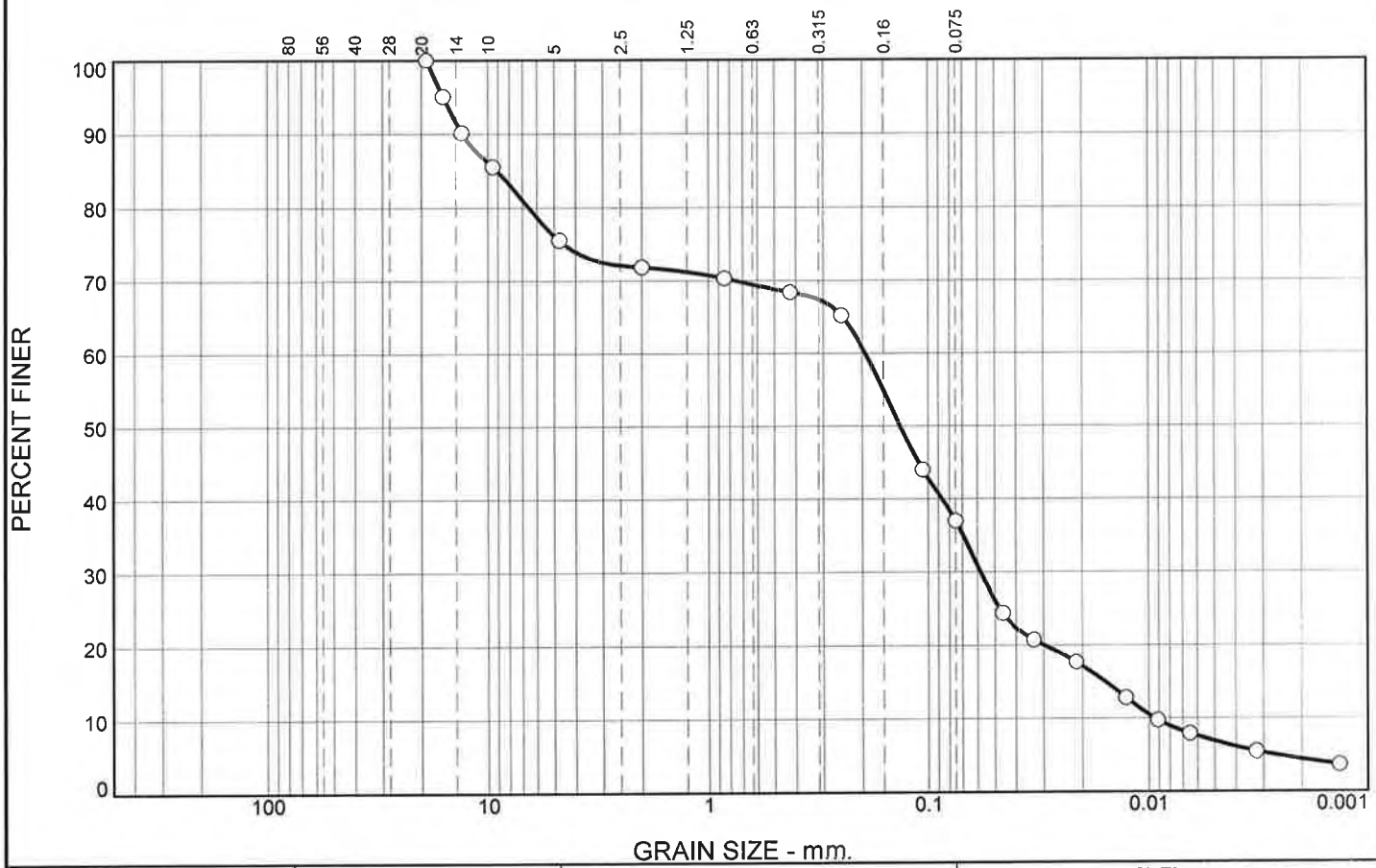
Location: PR2 S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 16

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	24.5	3.6	3.6	31.4	32.5	4.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
19 mm	100.0		
16 mm	95.0		
13.2 mm	90.2		
9.5 mm	85.6		
4.75 mm	75.5		
2.00 mm	71.9		
0.850 mm	70.3		
0.425 mm	68.3		
0.250 mm	65.1		
0.106 mm	44.0		
0.075 mm	36.9		
0.0462 mm.	24.4		
0.0333 mm.	20.7		
0.0214 mm.	17.7		
0.0127 mm.	12.8		
0.0091 mm.	9.8		
0.0065 mm.	7.9		
0.0032 mm.	5.5		
0.0013 mm.	3.7		

* (no specification provided)

Soil Description

Grey silty sand trace of clay with some gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 13.0961 D_{85}= 9.0844 D_{60}= 0.1943
D_{50}= 0.1348 D_{30}= 0.0581 D_{15}= 0.0158
D_{10}= 0.0094 C_u= 20.68 C_c= 1.85

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 19, 2012

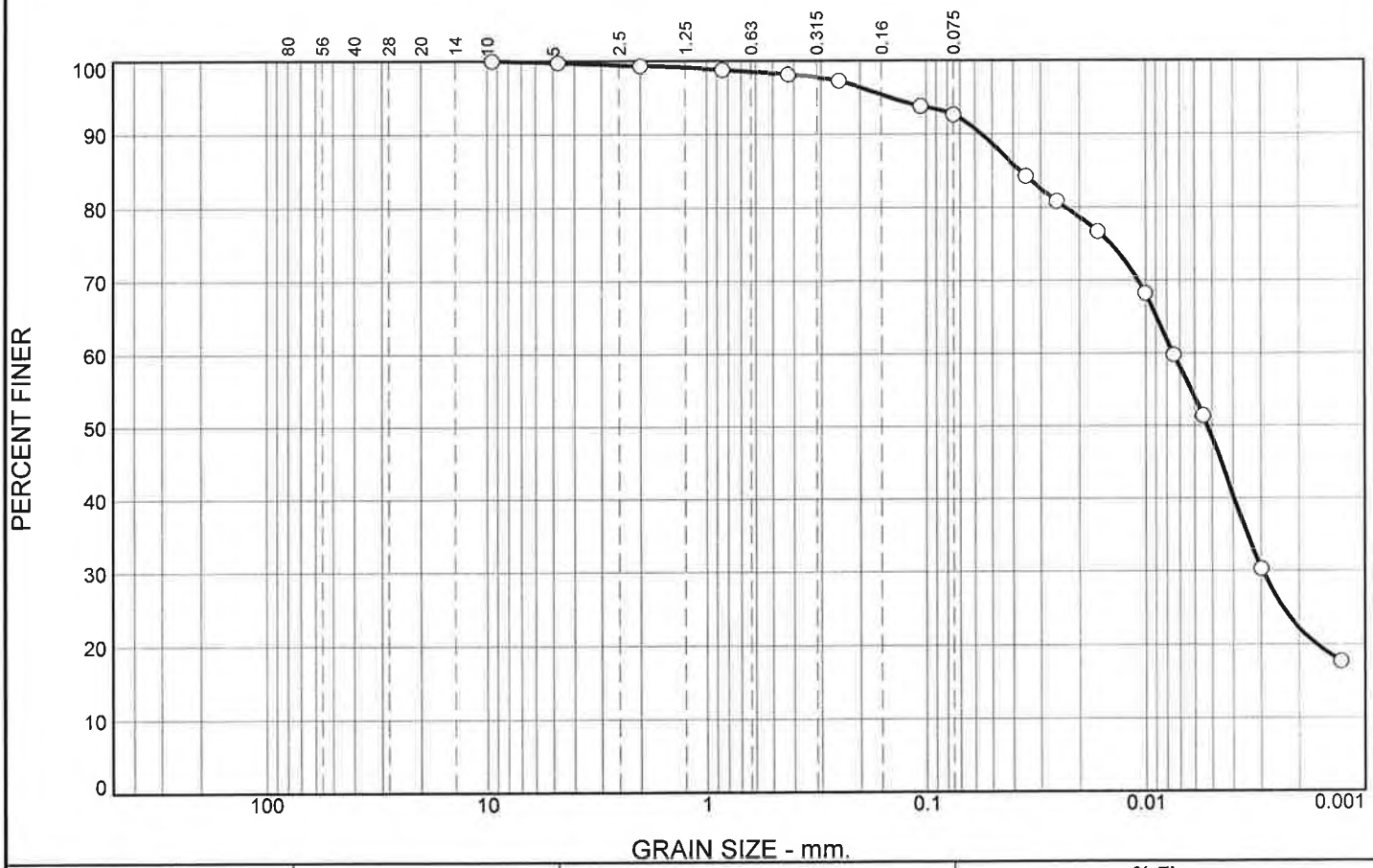
Location: PR3 S7
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 17

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.3	0.4	1.2	5.4	70.6	22.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
9.5 mm	100.0		
4.75 mm	99.7		
2.00 mm	99.3		
0.850 mm	98.8		
0.425 mm	98.1		
0.250 mm	97.2		
0.106 mm	93.8		
0.075 mm	92.7		
0.0352 mm.	84.2		
0.0255 mm.	80.8		
0.0166 mm.	76.6		
0.0101 mm.	68.2		
0.0075 mm.	59.8		
0.0055 mm.	51.4		
0.0030 mm.	30.3		
0.0013 mm.	17.7		

* (no specification provided)

Soil Description

Grey clayey silt with trace of sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.0559 D_{85}= 0.0376 D_{60}= 0.0075
D_{50}= 0.0053 D_{30}= 0.0029 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 20, 2012

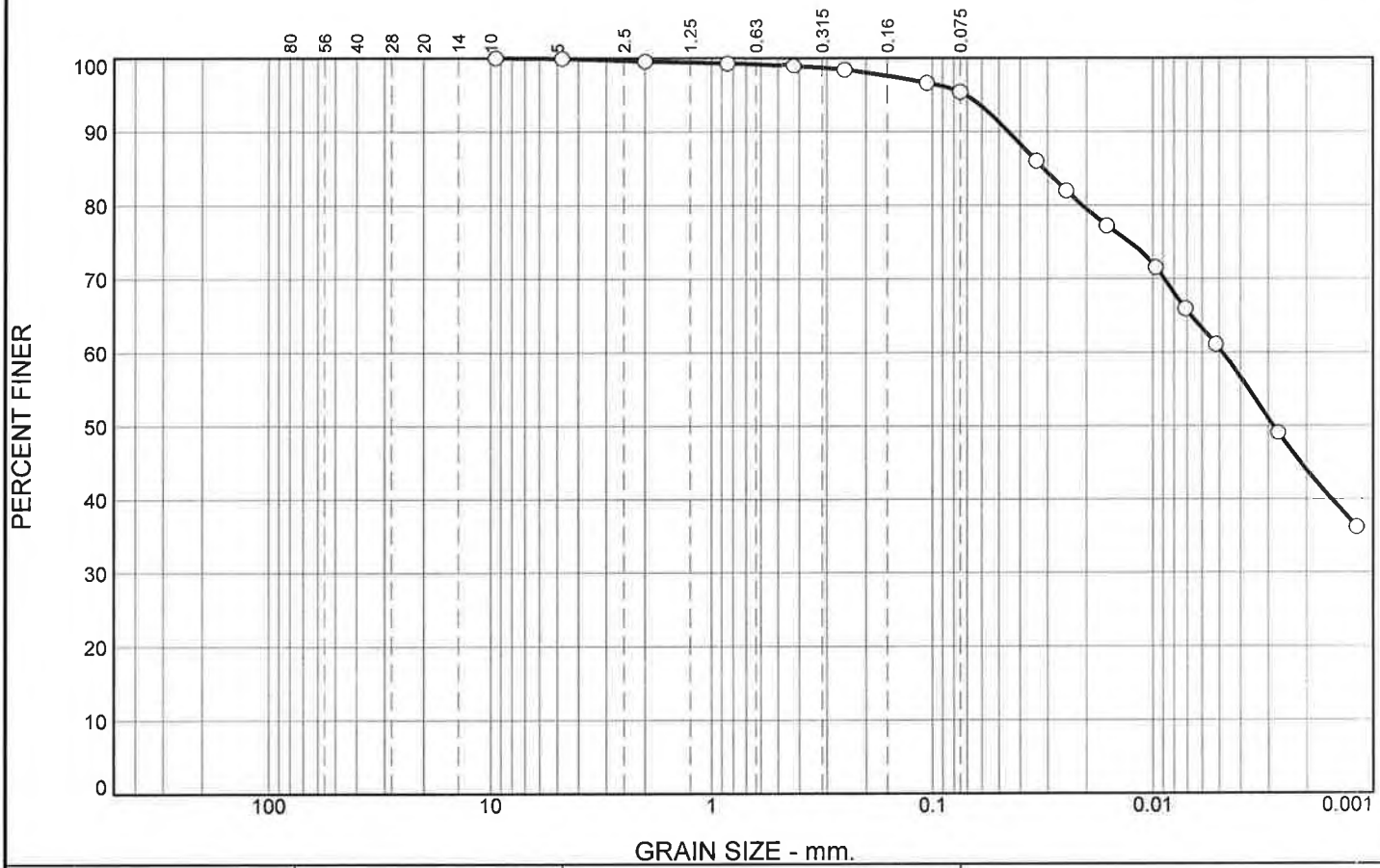
Location: PR5 S7
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 18

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.1	0.3	0.7	3.5	51.5	43.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
9.5 mm	100.0		
4.75 mm	99.9		
2.00 mm	99.6		
0.850 mm	99.3		
0.425 mm	98.9		
0.250 mm	98.4		
0.106 mm	96.6		
0.075 mm	95.4		
0.0339 mm.	86.0		
0.0247 mm.	82.0		
0.0162 mm.	77.2		
0.0097 mm.	71.6		
0.0071 mm.	65.9		
0.0052 mm.	61.1		
0.0027 mm.	49.0		
0.0012 mm.	36.2		

* (no specification provided)

Soil Description

Grey clayey silt with trace of sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.0453 D_{85}= 0.0314 D_{60}= 0.0048
D_{50}= 0.0028 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 16, 2012

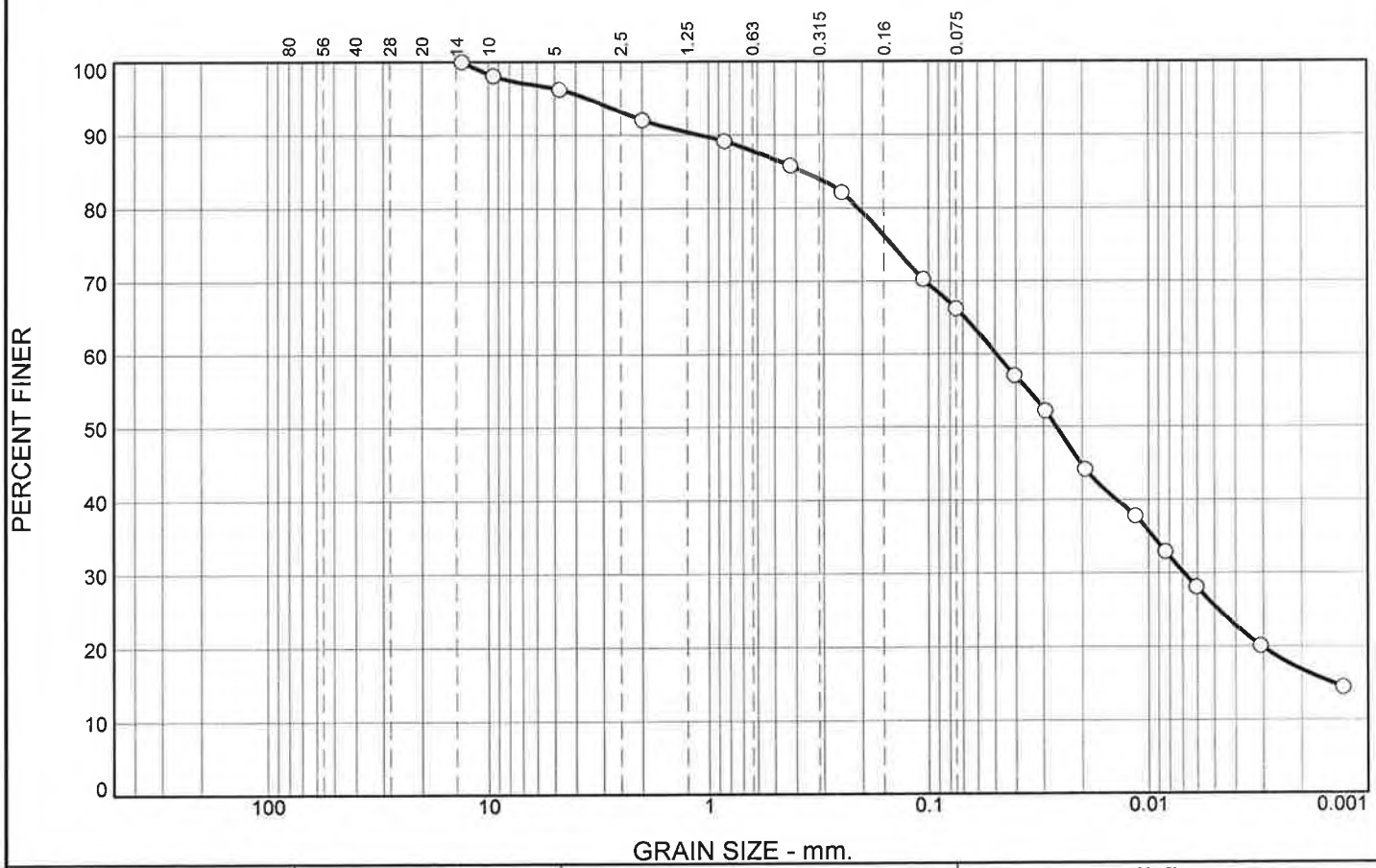
Location: PR6 S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 19

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.8	4.1	6.3	19.6	49.4	16.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
13.2 mm	100.0		
9.5 mm	98.1		
4.75 mm	96.2		
2.00 mm	92.1		
0.850 mm	89.1		
0.425 mm	85.8		
0.250 mm	82.1		
0.106 mm	70.3		
0.075 mm	66.2		
0.0407 mm.	57.0		
0.0295 mm.	52.2		
0.0194 mm.	44.1		
0.0116 mm.	37.7		
0.0084 mm.	32.9		
0.0060 mm.	28.1		
0.0031 mm.	20.1		
0.0013 mm.	14.4		

* (no specification provided)

Soil Description

Grey sandy silt trace of gravel with some clay

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 1.0917 D_{85}= 0.3682 D_{60}= 0.0494
D_{50}= 0.0263 D_{30}= 0.0069 D_{15}= 0.0014
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 22, 2012

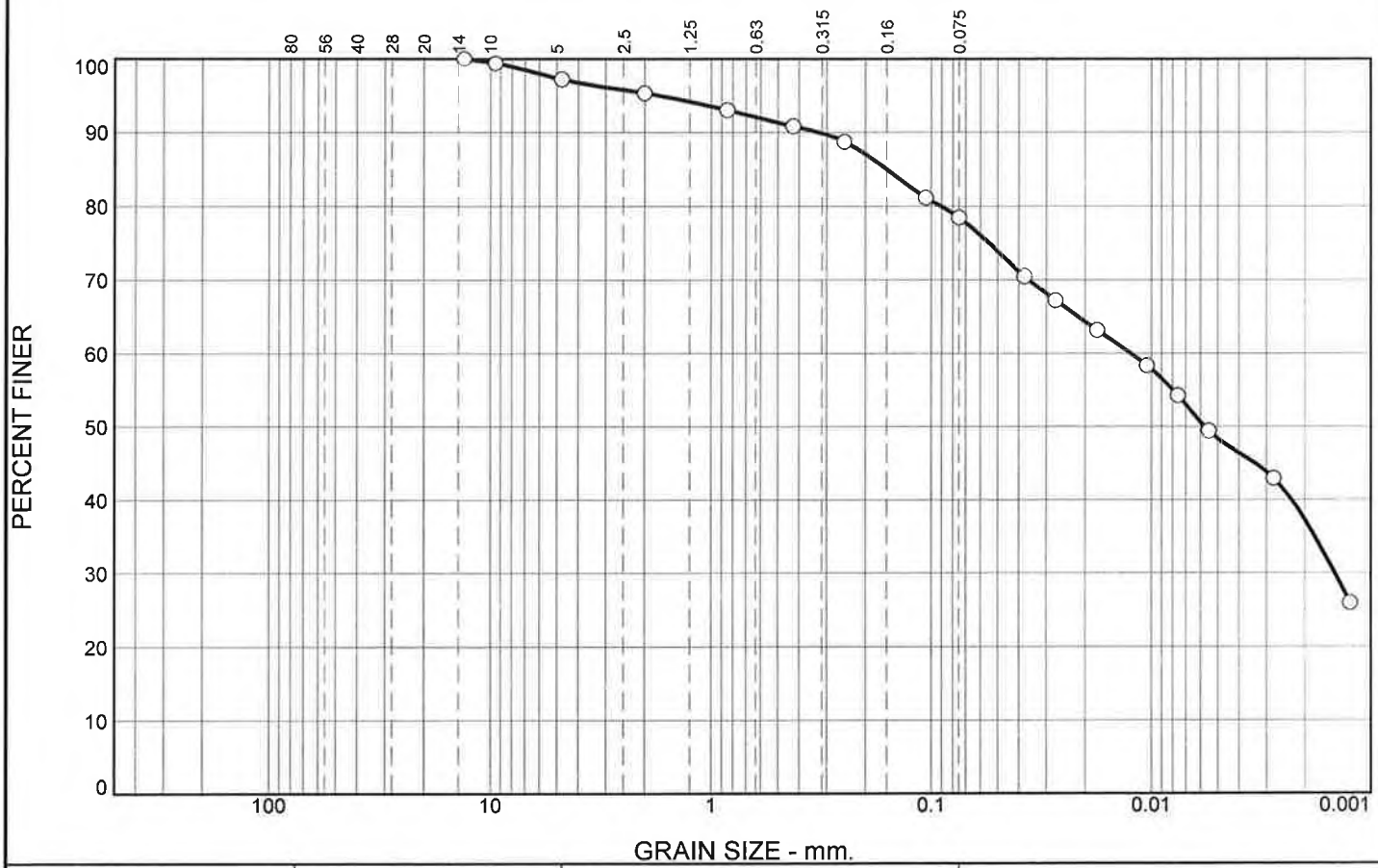
Location: PR7 S7
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 20

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.8	1.9	4.5	12.4	41.2	37.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
13.2 mm	100.0		
9.5 mm	99.4		
4.75 mm	97.2		
2.00 mm	95.3		
0.850 mm	93.0		
0.425 mm	90.8		
0.250 mm	88.7		
0.106 mm	81.2		
0.075 mm	78.4		
0.0378 mm.	70.5		
0.0273 mm.	67.2		
0.0177 mm.	63.2		
0.0105 mm.	58.3		
0.0076 mm.	54.3		
0.0055 mm.	49.4		
0.0028 mm.	42.9		
0.0012 mm.	25.9		

* (no specification provided)

Soil Description

Brown clayey silt trace of gravel with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.3257 D_{85}= 0.1603 D_{60}= 0.0124
D_{50}= 0.0057 D_{30}= 0.0015 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 19, 2012

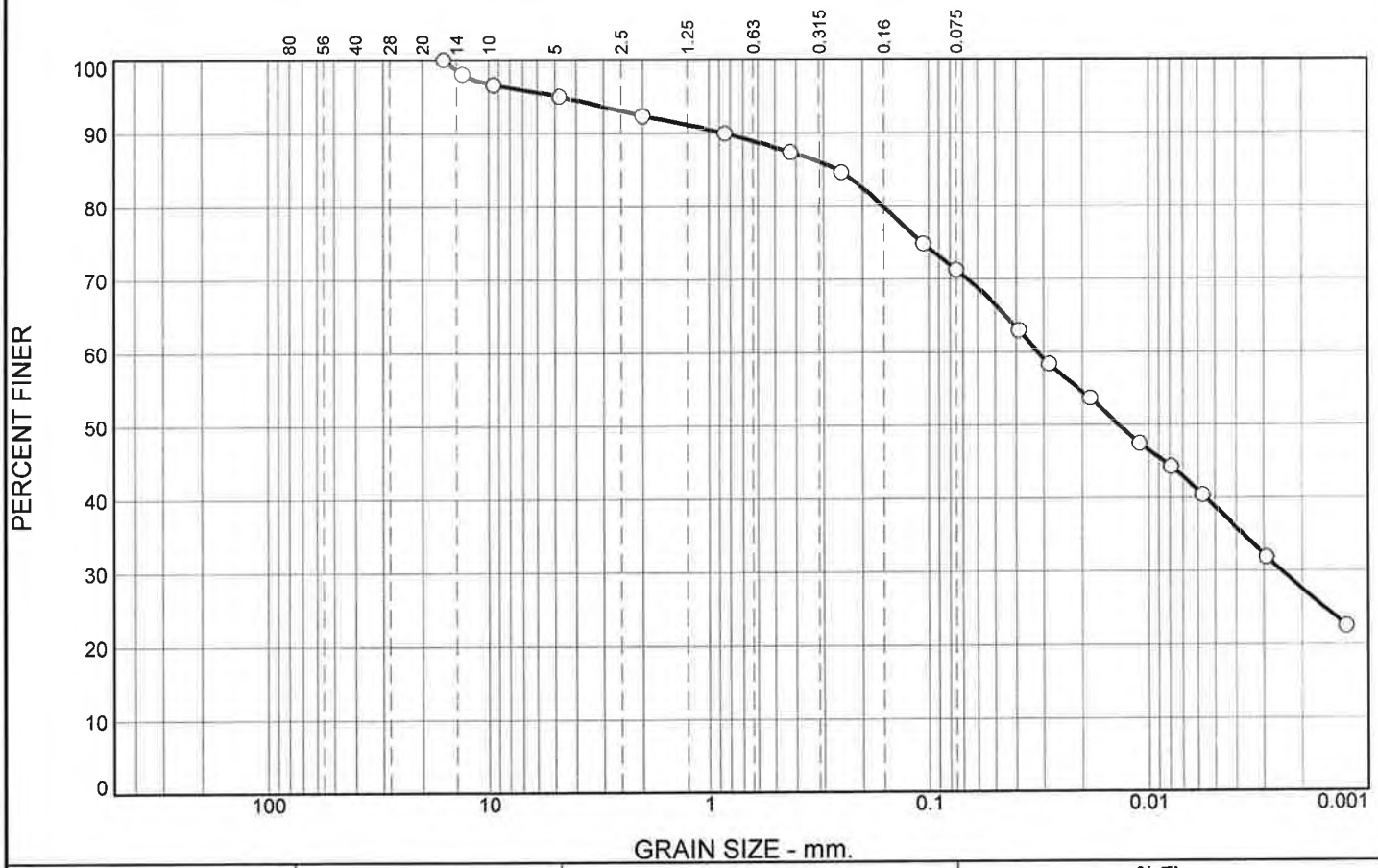
Location: PR8 S4
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 21

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	5.0	2.7	5.0	16.0	43.8	27.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
16 mm	100.0		
13.2 mm	98.0		
9.5 mm	96.6		
4.75 mm	95.0		
2.00 mm	92.3		
0.850 mm	90.0		
0.425 mm	87.3		
0.250 mm	84.6		
0.106 mm	74.8		
0.075 mm	71.3		
0.0391 mm.	62.9		
0.0284 mm.	58.3		
0.0185 mm.	53.6		
0.0110 mm.	47.4		
0.0079 mm.	44.3		
0.0057 mm.	40.4		
0.0029 mm.	31.9		
0.0013 mm.	22.5		

* (no specification provided)

Soil Description

Grey clayey silt trace of gravel with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.8580 D_{85}= 0.2632 D_{60}= 0.0322
D_{50}= 0.0138 D_{30}= 0.0025 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 19, 2012

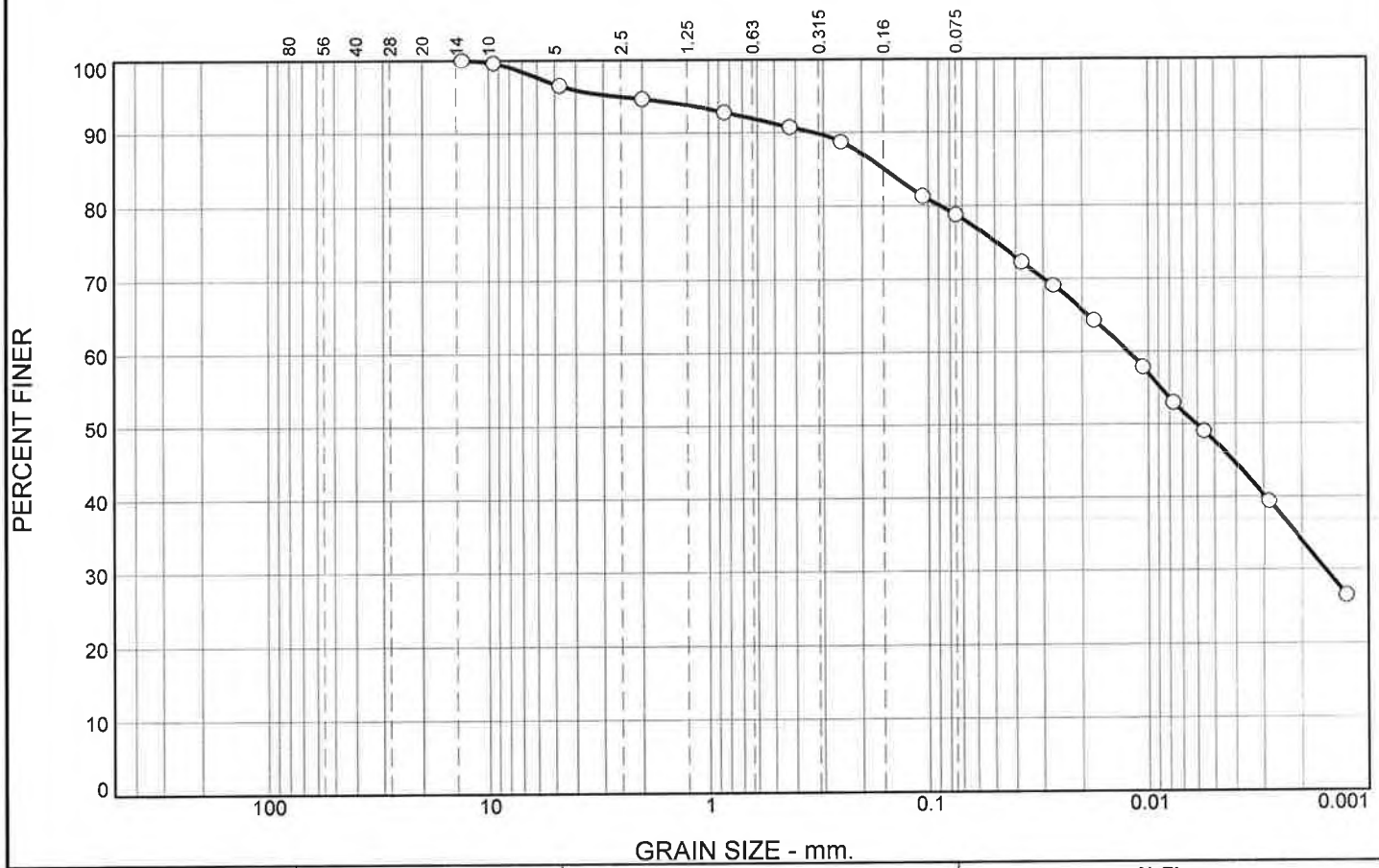
Location: PR9 S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 22

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.5	1.8	3.9	12.0	44.9	33.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
13.2 mm	100.0		
9.5 mm	99.6		
4.75 mm	96.5		
2.00 mm	94.7		
0.850 mm	92.8		
0.425 mm	90.8		
0.250 mm	88.7		
0.106 mm	81.3		
0.075 mm	78.8		
0.0377 mm.	72.3		
0.0272 mm.	69.1		
0.0177 mm.	64.3		
0.0106 mm.	57.8		
0.0077 mm.	53.0		
0.0056 mm.	49.0		
0.0028 mm.	39.4		
0.0013 mm.	26.5		

* (no specification provided)

Soil Description

Grey clayey silt trace of gravel with some sand

Atterberg Limits

PL= 14 LL= 26 PI= 12

Coefficients

D_{90}= 0.3304 D_{85}= 0.1597 D_{60}= 0.0124
D_{50}= 0.0061 D_{30}= 0.0016 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(7)

Remarks

Sampled by C.P. on Nov 22, 2012

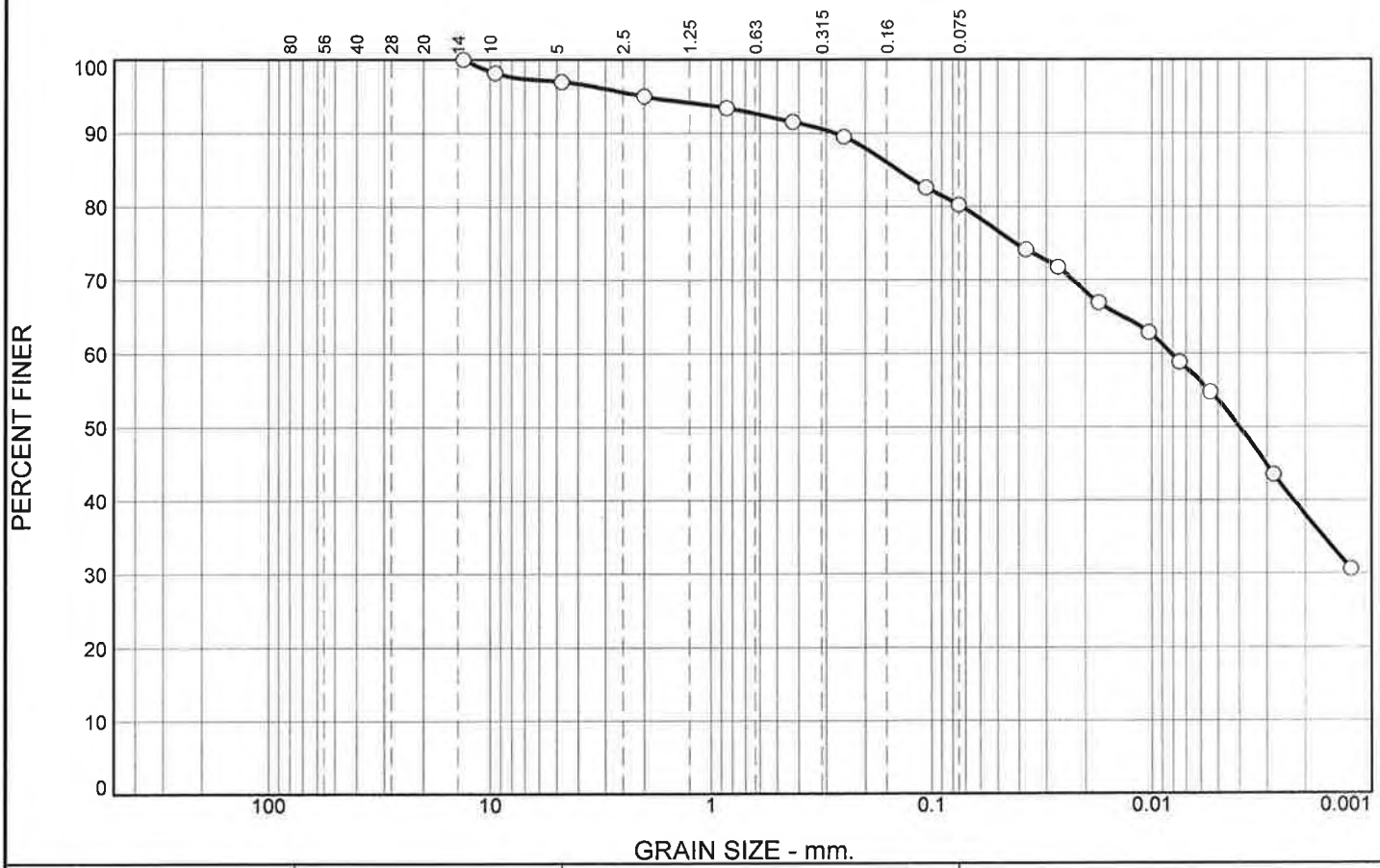
Location: SS1 S6
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 23

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.0	2.0	3.5	11.3	42.2	38.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
13.2 mm	100.0		
9.5 mm	98.2		
4.75 mm	97.0		
2.00 mm	95.0		
0.850 mm	93.4		
0.425 mm	91.5		
0.250 mm	89.5		
0.106 mm	82.6		
0.075 mm	80.2		
0.0373 mm.	74.1		
0.0268 mm.	71.7		
0.0175 mm.	66.9		
0.0103 mm.	62.9		
0.0075 mm.	58.8		
0.0054 mm.	54.8		
0.0028 mm.	43.5		
0.0012 mm.	30.6		

* (no specification provided)

Soil Description

Brown clayey silt trace of gravel with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.2730 D_{85}= 0.1421 D_{60}= 0.0082
D_{50}= 0.0040 D_{30}= D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 15, 2012

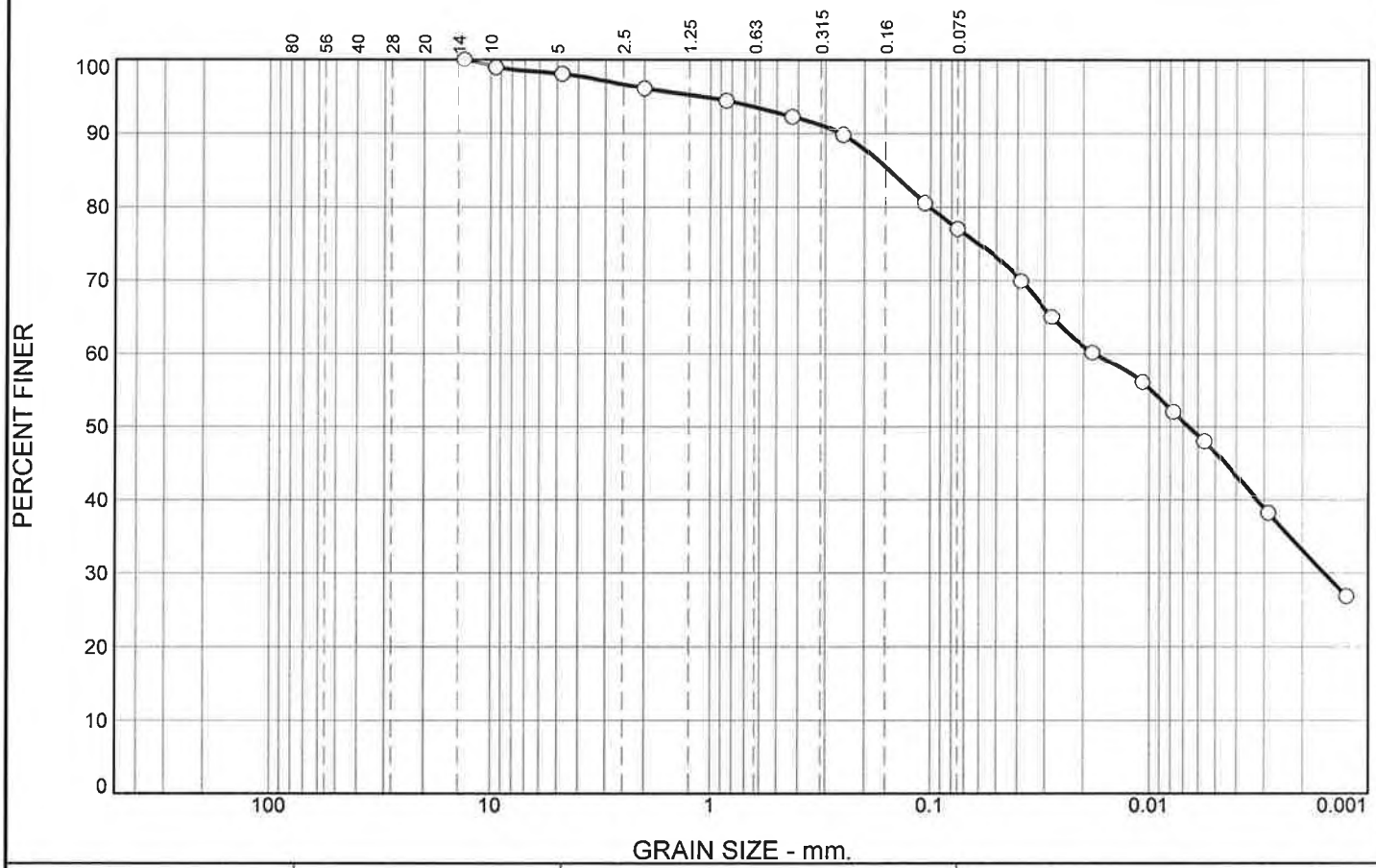
Location: SS2 S5
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 24

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	1.9	2.0	3.8	15.3	43.9	33.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
13.2 mm	100.0		
9.5 mm	99.0		
4.75 mm	98.1		
2.00 mm	96.1		
0.850 mm	94.5		
0.425 mm	92.3		
0.250 mm	89.8		
0.106 mm	80.5		
0.075 mm	77.0		
0.0385 mm.	69.9		
0.0280 mm.	65.0		
0.0182 mm.	60.2		
0.0108 mm.	56.1		
0.0078 mm.	52.0		
0.0056 mm.	48.0		
0.0029 mm.	38.2		
0.0013 mm.	26.8		

* (no specification provided)

Soil Description

Grey clayey silt trace of gravel with some sand

Atterberg Limits

PL= 14 LL= 27 PI= 13

Coefficients

D_{90}= 0.2570 D_{85}= 0.1551 D_{60}= 0.0179
D_{50}= 0.0066 D_{30}= 0.0016 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(8)

Remarks

Sampled by C.P. on Nov 15, 2012

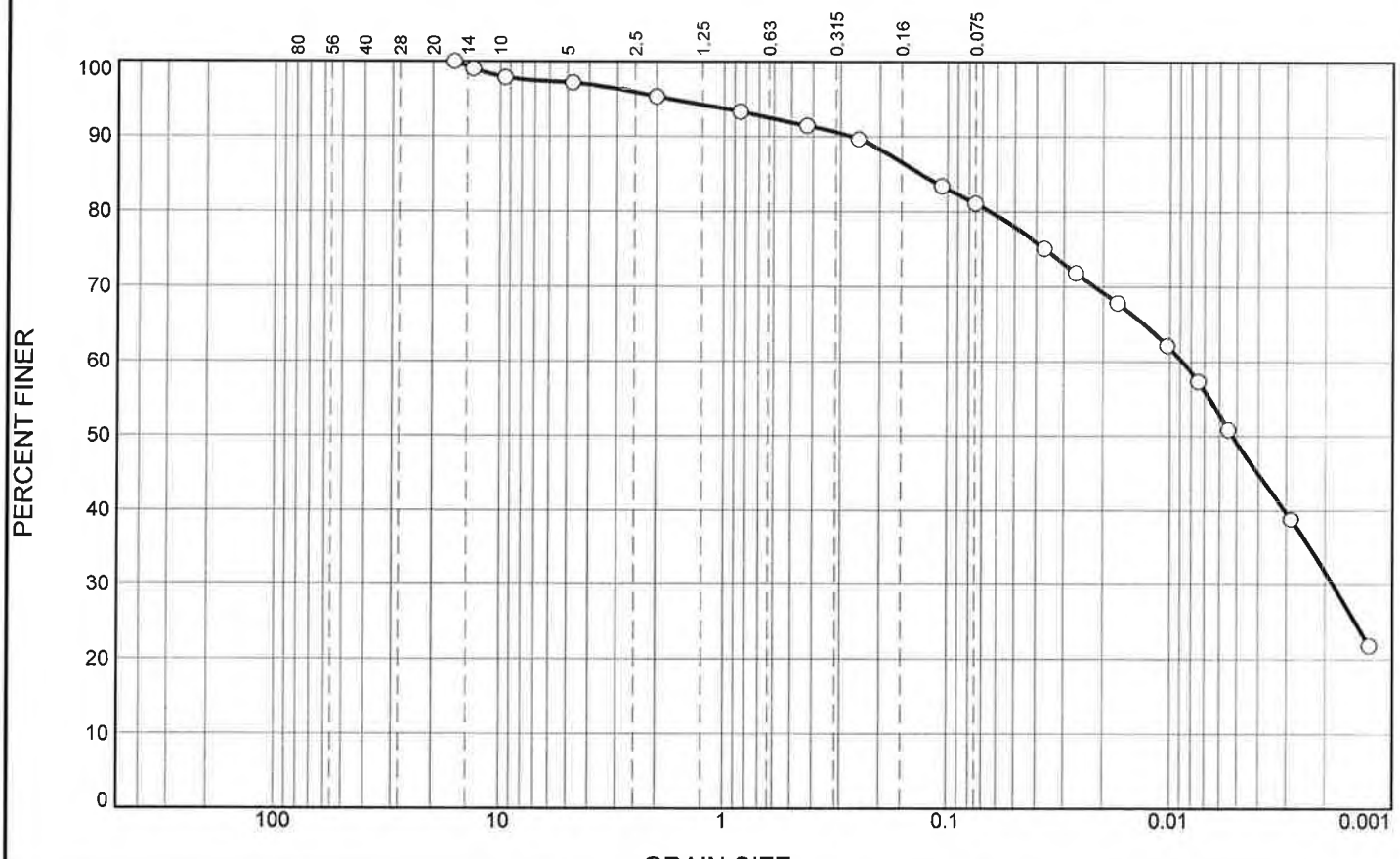
Location: SS3 S5
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 25

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.9	1.8	3.8	10.4	49.4	31.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
16 mm	100.0		
13.2 mm	99.0		
9.5 mm	97.8		
4.75 mm	97.1		
2.00 mm	95.3		
0.850 mm	93.3		
0.425 mm	91.5		
0.250 mm	89.7		
0.106 mm	83.4		
0.075 mm	81.1		
0.0368 mm.	75.1		
0.0266 mm.	71.8		
0.0173 mm.	67.8		
0.0103 mm.	62.2		
0.0075 mm.	57.3		
0.0055 mm.	50.9		
0.0029 mm.	38.7		
0.0013 mm.	21.8		

* (no specification provided)

Soil Description

Brown clayey silt trace of gravel with some sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 0.2686 D_{85}= 0.1313 D_{60}= 0.0088
D_{50}= 0.0052 D_{30}= 0.0018 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sampled by C.P. on Nov 13, 2012

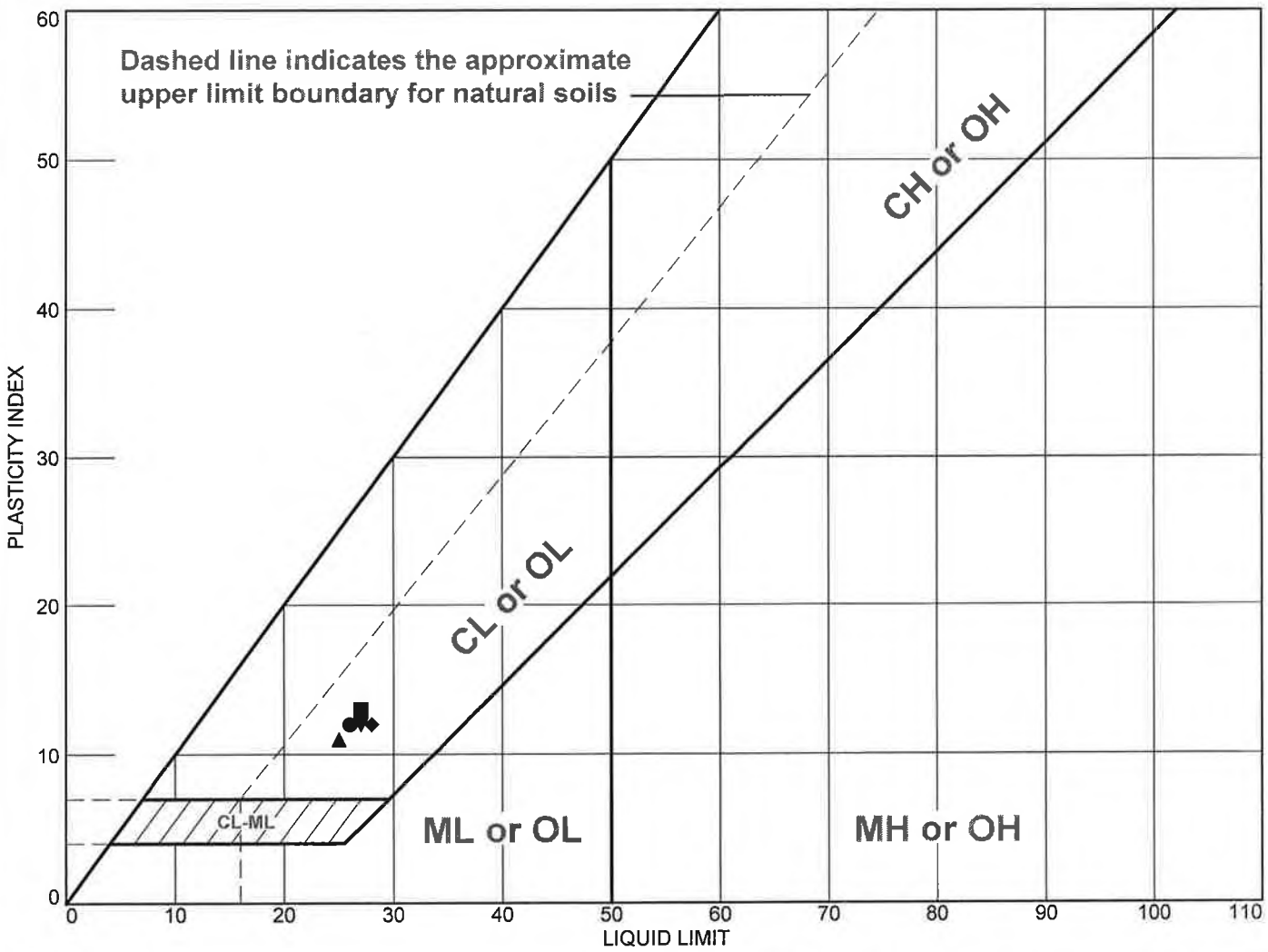
Location: SS5 S5
Sample Number: E8511

Date:

AME Materials Engineering

Client: Aquafor Beech Limited
Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.
Project No: 40398.201 **Figure** 3 - 26

LIQUID AND PLASTIC LIMITS TEST REPORT



	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Grey clayey silt trace of gravel with some sand SS1	26	14	12	90.8	78.8	CL
■	Grey clayey silt trace of gravel with some sand SS3	27	14	13	92.3	77.0	CL
▲	Brown clayey silt P4B	25	14	11			
◆	Grey clayey silt PC2	28	16	12			
▼	Brown clayey silt SS4	27	15	12			

Project No. 40398.201 **Client:** Aquafor Beech Limited

Project: Geotechnical Investigation for Area 47 Secondary Plan, City of Brampton.

● **Location:** SS1 S6 **Sample Number:** E8511
■ **Location:** SS3 S5 **Sample Number:** E8511
▲ **Location:** P4B S5 **Sample Number:** E8511
◆ **Location:** PC2 S6 **Sample Number:** E8511
▼ **Location:** SS4 S5 **Sample Number:** E8511

Remarks:
- ● Sampled by C.P. on Nov 22, 2012
- ■ Sampled by C.P. on Nov 15, 2012
- ▲ Sampled by C.P. on Nov 21, 2012
- ◆ Sampled by C.P. on Nov 21, 2012
- ▼ Sampled by C.P. on Nov 15, 2012

AMC
Materials Engineering

Figure 3 - 27

APPENDIX 4

Stability Study for Slope No. 1

Slope Stability Rating Chart and Slope Inspection Record prepared by AME.
Location and Profile of Slope Sections 1-1, 1-2, 1-3, 1-4 and 1-5.
Stability Analysis Result of Existing Slope.....Drawing No. 4-1
Stability Analysis Result for Stable Slope Line.....Drawing No. 4-2

TABLE 8.1 - SLOPE STABILITY RATING CHART

Site Location: SLOPE NO. 1, AREA 47 SECONDARY PLAN, BRAMPTON — File No. 40398.201
Property Owner: — Inspection Date: NOV. 6, 2012
Inspected By: MICHAEL LAM — Weather:

				Rating Value
1.	**SLOPE INCLINATION**	degrees	horiz. : vert.	
	a)	18 or less	3 : 1 or flatter	0
	b)	18 - 26	2 : 1 to more than 3 : 1	6
	c)	more than 26	steeper than 2 : 1 AT THE CRITICAL LOCATION IN THE VICINITY OF BOREHOLE SS1.	16
2.	**SOIL STRATIGRAPHY**			
	a)	Shale, Limestone, Granite (Bedrock)		0
	b)	Sand, Gravel		6
	c)	Glacial Till		9
	d)	Clay, Silt		12
	e)	Fill		16
	f)	Leda Clay		24
3.	**SEEPAGE FROM SLOPE FACE**			
	a)	None or Near bottom only		0
	b)	Near mid-slope only		6
	c)	Near crest only or, From several levels		12
4.	**SLOPE HEIGHT**			
	a)	2 m or less		0
	b)	2.1 to 5 m		2
	c)	5.1 to 10 m AT CRITICAL LOCATION		4
	d)	more than 10 m		8
5.	**VEGETATION COVER ON SLOPE FACE**			
	a)	Well vegetated; heavy shrubs or forested with mature trees		0
	b)	Light vegetation; Mostly grass, weeds, occasional trees, shrubs		4
	c)	No vegetation, bare AT THE CRITICAL LOCATION IN THE VICINITY OF BOREHOLE SS1		8
6.	**TABLE LAND DRAINAGE**			
	a)	Table land flat, no apparent drainage over slope		0
	b)	Minor drainage over slope, no active erosion		2
	c)	Drainage over slope, active erosion, gullies AT THE CRITICAL LOCATION		4
7.	**PROXIMITY OF WATERCOURSE TO SLOPE TOE**			
	a)	15 metres or more from slope toe		0
	b)	Less than 15 metres from slope toe		6
8.	**PREVIOUS LANDSLIDE ACTIVITY**			
	a)	No		0
	b)	Yes		6

SLOPE INSTABILITY RATING	RATING VALUES TOTAL	INVESTIGATION REQUIREMENTS	TOTAL
1. Low potential	< 24	Site inspection only, confirmation, report letter.	47
2. Slight potential	25-35	Site inspection and surveying, preliminary study, detailed report.	
3. Moderate potential	> 35	Boreholes, piezometers, lab tests, surveying, detailed report.	

NOTES:
a) Choose only one from each category; compare total rating value with above requirements.
b) If there is a water body (stream, creek, river, pond, bay, lake) at the slope toe; the potential for toe erosion and undercutting should be evaluated in detail and, protection provided if required.

TABLE 7.4 - Slope Inspection Record

1. FILE NAME / NO. 40398.201
INSPECTION DATE (DDMMYY): NOV. 6, 2012
WEATHER (circle): ∘ sunny ∘ partly cloudy ∘ cloudy
∘ calm ∘ breeze ∘ windy
∘ clear ∘ fog ∘ rain ∘ snow
∘ cold ∘ cool ∘ warm ∘ hot
estimated air temperature:
INSPECTED BY (name): MICHAEL LAM

2. SITE LOCATION (describe main roads, features) SLOPE NO. 1, AREA 47 SECONDARY PLAN, BRAMPTON.

SKETCH REFER TO DRAWING NO. 1-2 FOR LOCATION OF SLOPE.

3. WATERSHED HUMBER RIVER TRIBUTARIES

4. PROPERTY OWNERSHIP (name, address, phone):

LEGAL DESCRIPTION
Lot
Concession
Township
County

CURRENT LAND USE (circle and describe)
∘ vacant - field, bush, woods, forest, wilderness, tundra, FARM FIELD
∘ passive - recreational parks, golf courses, non-habitable structures, buried utilities, swimming pools,
∘ active - habitable structures, residential, commercial, industrial, warehousing and storage,
∘ infra-structure or public use - stadiums, hospitals, schools, bridges, high voltage power lines, waste management sites,

5. SLOPE DATA AT THE CRITICAL LOCATION IN THE VICINITY OF BOREHOLE SS1
HEIGHT ∘ 3 - 6 m ∘ 6 - 10 m ∘ 10 - 15 m ∘ 15 - 20 m
∘ 20 - 25 m ∘ 25 - 30 m ∘ > 30 m
estimated height (m):

INCLINATION AND SHAPE
∘ 4:1 or flatter 25 % 14° ∘ up to 3:1 33 % 18½° ∘ up to 2:1 50 % 26½°
∘ up to 1:1 100 % 45° ∘ up to ½:1 200 % 63½° ∘ steeper than ½:1 > 63½°

6. SLOPE DRAINAGE (describe)
TOP FLAT TABLE LAND DRAINS TOWARDS SLOPE.
FACE SLOPE FACE IS DRY, DRAINS TOWARDS STREAM COURSE.
BOTTOM STREAM IS LOCATED CLOSE TO THE SLOPE TOE AT THE CRITICAL SECTION (WHERE THE SLOPE FACE IS BARE & HEAVILY ERODED).

SLOPE NO. 1

7. SLOPE SOIL STRATIGRAPHY (describe, positions, thicknesses, types)

TOP NATIVE SOIL

FACE CLAYEY SILT/ SILTY CLAY TILL, VENEERED BY TOPSOIL

BOTTOM CLAYEY SILT/ SILTY CLAY TILL

8. WATER COURSE FEATURES (circle and describe)

SWALE, CHANNEL

GULLY

STREAM, CREEK, RIVER STREAM IS LOCATED CLOSE TO THE SLOPE TOE AT THE CRITICAL AREA.

POND, BAY, LAKE

SPRINGS

MARSHY GROUND

9. VEGETATION COVER (grasses, weeds, shrubs, saplings, trees)

TOP GRASSES

FACE GRASSES, BUT BARE AT THE CRITICAL AREA FOR STABILITY STUDY.

BOTTOM GRASSES

10. STRUCTURES (buildings, walls, fences, sewers, roads, stairs, decks, towers,)

TOP
FACE
BOTTOM
} NONE

11. EROSION FEATURES (scour, undercutting, bare areas, piping, rills, gully)

TOP - DEEPLY SEATED EROSION NEAR THE TOP OF SLOPE (AT THE CRITICAL AREA)

FACE - ACTIVE EROSION AT CRITICAL AREA (IN THE VICINITY OF BOREHOLE SS1)

BOTTOM - TOE EROSION ALONG SOME SECTIONS OF STREAM BANK.

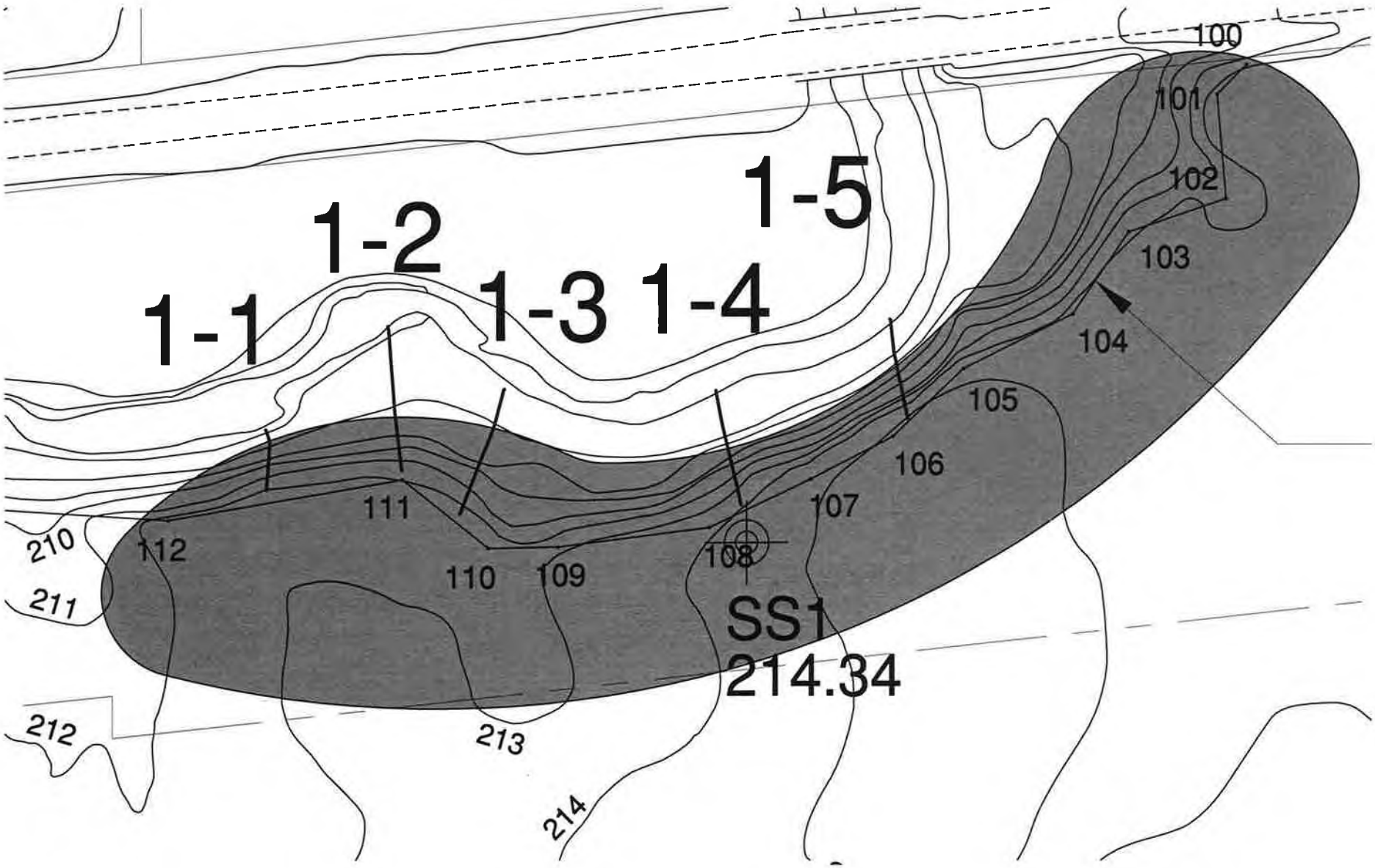
12. SLOPE SLIDE FEATURES (tension cracks, scarps, slumps, bulges, grabens, ridges, bent trees)

TOP
FACE
BOTTOM
} NONE

13. PLAN SKETCH OF SLOPE

14. PROFILE SKETCH OF SLOPE

REFER TO CROSS SECTION.


1-1
1-2
1-3
1-4
1-5
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101
102
103
104
105
106
107
108
109
110
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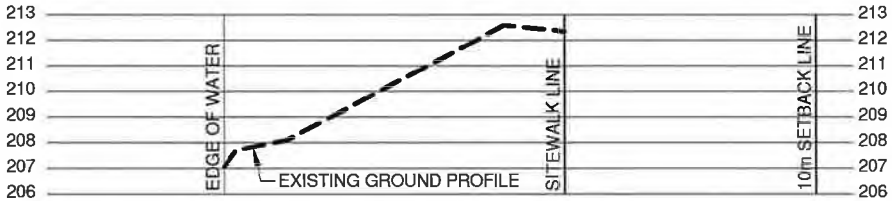
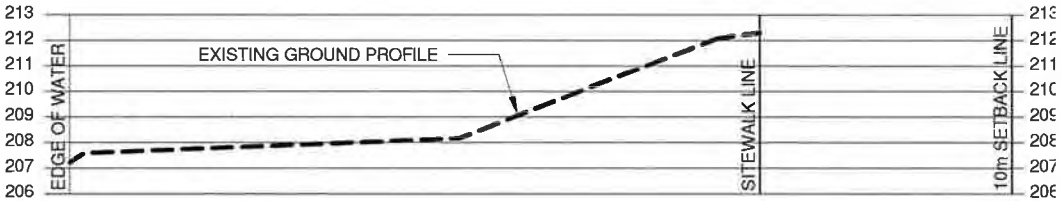
214
SS1
214.34



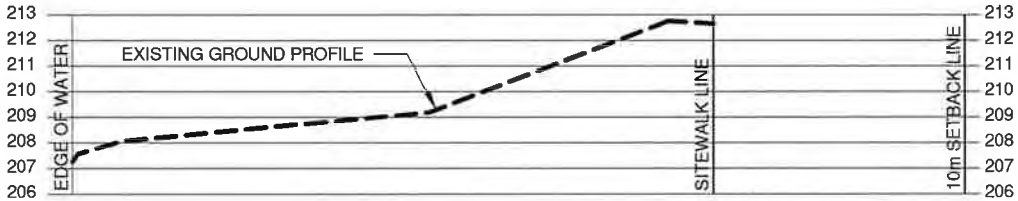
SECTION 1-1

1:250



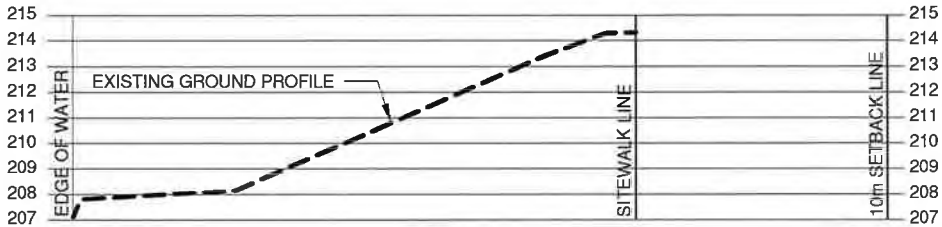
SECTION 1-2

1:250



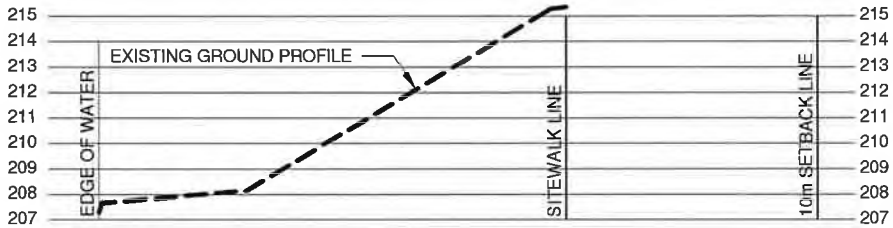
SECTION 1-3

1:250



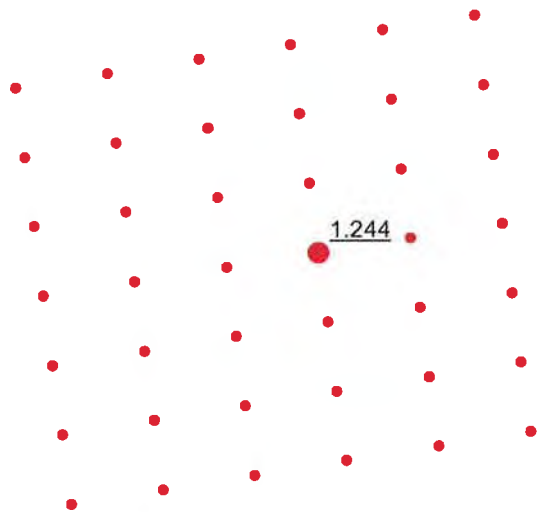
SECTION 1-4

1:250



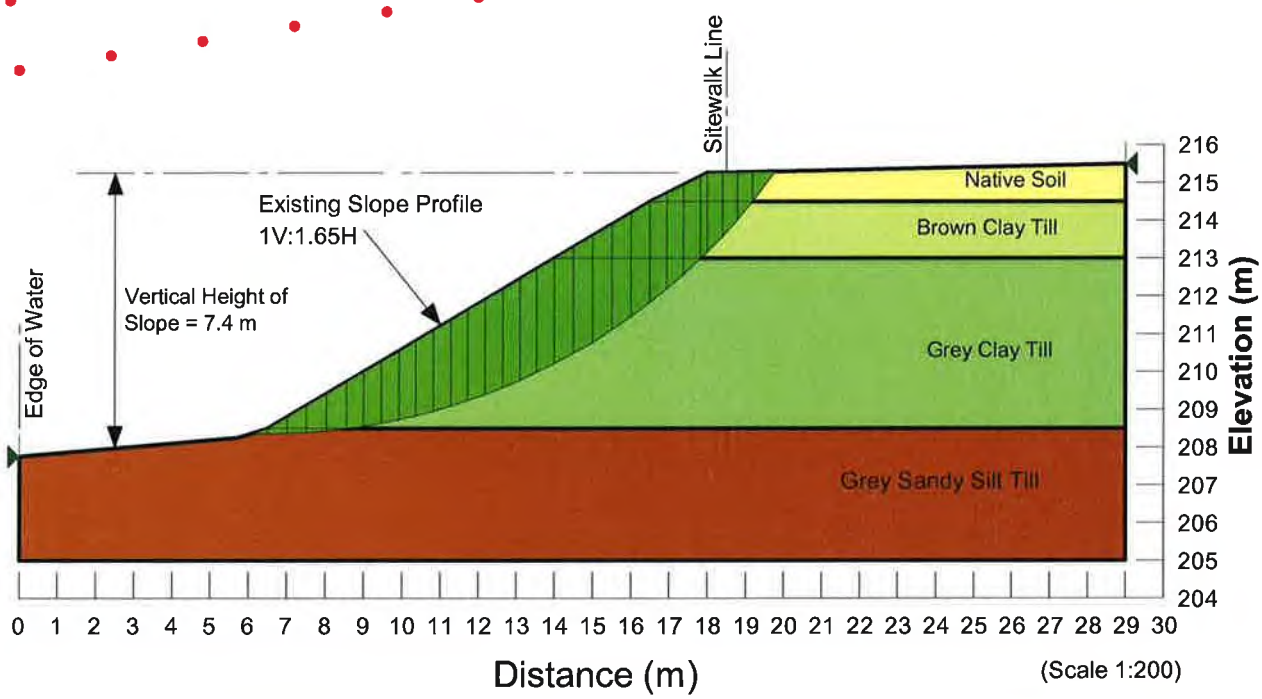
SECTION 1-5

1:250



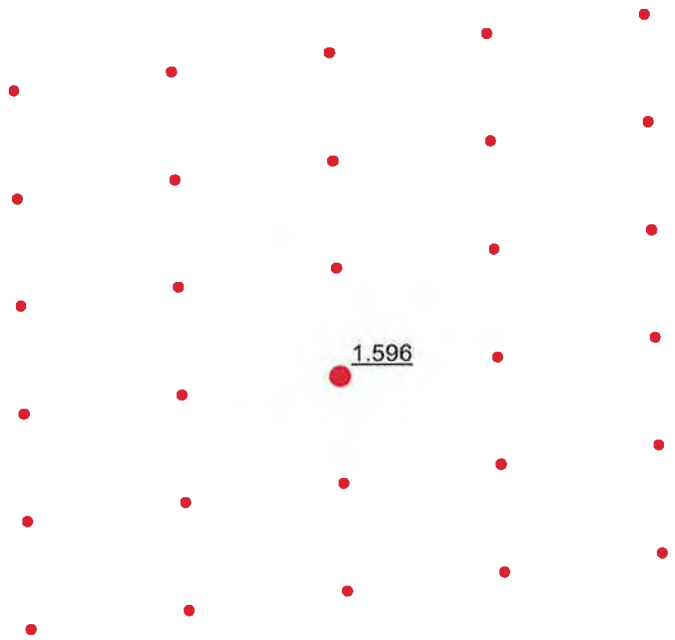
Material Properties:

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	7°
Brown Clay Till	20 kN/m3	8 kPa	15°
Grey Clay Till	21 kN/m3	10 kPa	18°
Grey Sandy Silt Till	21 kN/m3	0 kPa	35°



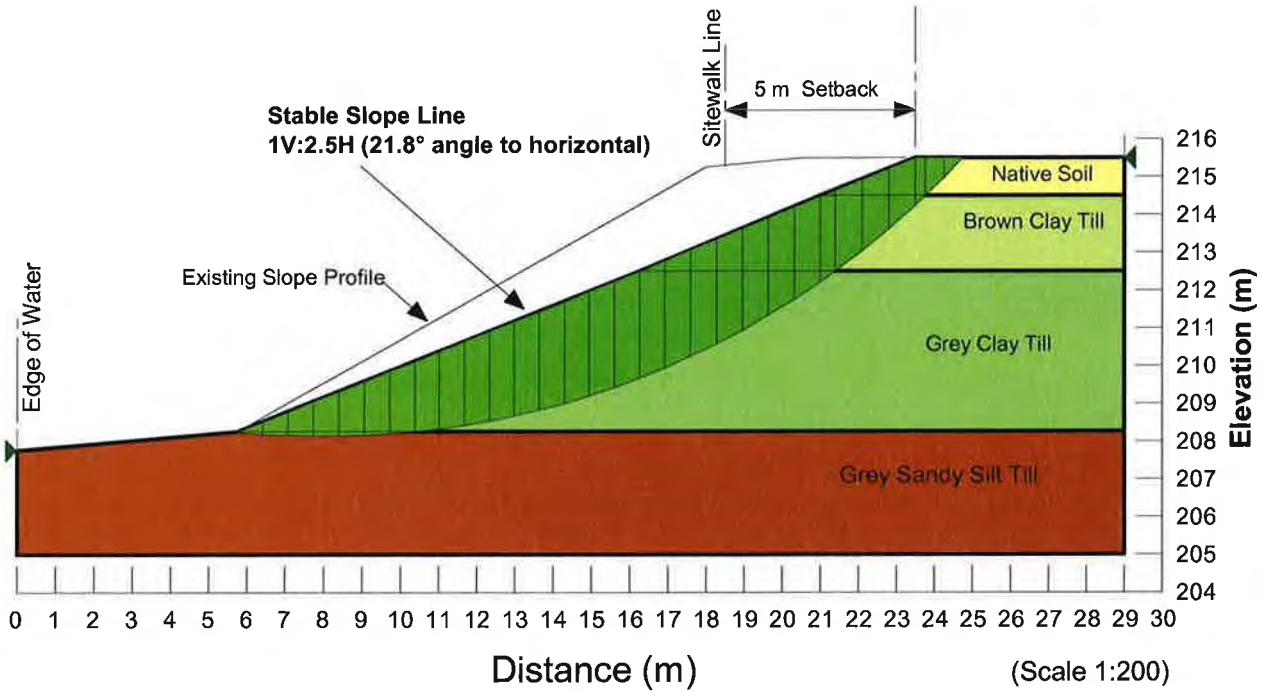
Slope No. 1: Section 1-5

Drawing No. 4-1: Stability Analysis Result of Existing Slope



Material Properties:

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	7°
Brown Clay Till	20 kN/m3	8 kPa	15°
Grey Clay Till	21 kN/m3	10 kPa	18°
Grey Sandy Silt Till	21 kN/m3	0 kPa	35°



Slope No. 1: Section 1-5

Drawing No. 4-2: Stability Analysis Result for Stable Slope Line

APPENDIX 5

Stability Study for Slope No. 2

Slope Stability Rating Chart and Slope Inspection Record prepared by AME.

Location and Profile of Slope Sections 2-1, 2-2, 2-3, and 2-4.

Stability Analysis Result of Existing Slope.....Drawing No. 5-1

Stability Analysis Result for Stable Slope Line.....Drawing No. 5-2

TABLE 8.1 - SLOPE STABILITY RATING CHART

Site Location: SLOPE NO. 2, AREA 47 SECONDARY PLAN, BRAMPTON File No. 40398.201
Property Owner: Inspection Date: NOV. 14, 2012
Inspected By: MICHAEL LAM Weather:

				Rating Value
1.	SLOPE INCLINATION	degrees	horiz. : vert.	
	a)	18 or less	3 : 1 or flatter	0
	b)	18 - 26	2 : 1 to more than 3 : 1	6
	c)	more than 26	steeper than 2 : 1 AT THE CRITICAL LOCATION ADJACENT BOREHOLE SS2.	16
2.	SOIL STRATIGRAPHY			
	a)	Shale, Limestone, Granite (Bedrock)		0
	b)	Sand, Gravel		6
	c)	Glacial Till		9
	d)	Clay, Silt		12
	e)	Fill		16
	f)	Leda Clay		24
3.	SEEPAGE FROM SLOPE FACE			
	a)	None or Near bottom only		0
	b)	Near mid-slope only		6
	c)	Near crest only or, From several levels		12
4.	SLOPE HEIGHT			
	a)	2 m or less		0
	b)	2.1 to 5 m		2
	c)	5.1 to 10 m		4
	d)	more than 10 m		8
5.	VEGETATION COVER ON SLOPE FACE			
	a)	Well vegetated; heavy shrubs or forested with mature trees		0
	b)	Light vegetation; Mostly grass, weeds, occasional trees, shrubs		4
	c)	No vegetation, bare AT THE CRITICAL LOCATION IN THE VICINITY OF BOREHOLE SS2.		8
6.	TABLE LAND DRAINAGE			
	a)	Table land flat, no apparent drainage over slope		0
	b)	Minor drainage over slope, no active erosion		2
	c)	Drainage over slope, active erosion, gullies AT THE CRITICAL LOCATION		4
7.	PROXIMITY OF WATERCOURSE TO SLOPE TOE			
	a)	15 metres or more from slope toe		0
	b)	Less than 15 metres from slope toe		6
8.	PREVIOUS LANDSLIDE ACTIVITY			
	a)	No		0
	b)	Yes		6

SLOPE INSTABILITY RATING	RATING VALUES TOTAL	INVESTIGATION REQUIREMENTS	TOTAL
1. Low potential	< 24	Site inspection only, confirmation, report letter.	45
2. Slight potential	25-35	Site inspection and surveying, preliminary study, detailed report.	
3. Moderate potential	> 35	Boreholes, piezometers, lab tests, surveying, detailed report.	

NOTES:
a) Choose only one from each category; compare total rating value with above requirements.
b) If there is a water body (stream, creek, river, pond, bay, lake) at the slope toe; the potential for toe erosion and undercutting should be evaluated in detail and, protection provided if required.

TABLE 7.4 - Slope Inspection Record

1. FILE NAME / NO. 40398.201
INSPECTION DATE (DDMMYY): NOV. 14, 2012
WEATHER (circle): ∘ sunny ∘ partly cloudy ∘ cloudy
∘ calm ∘ breeze ∘ windy
∘ clear ∘ fog ∘ rain ∘ snow
∘ cold ∘ cool ∘ warm ∘ hot
estimated air temperature:
INSPECTED BY (name): MICHAEL LAM

2. SITE LOCATION (describe main roads, features) SLOPE NO. 2, AREA 47 SECONDARY PLAN, BRAMPTON.

SKETCH REFER TO DRAWING NO. 1-2 FOR LOCATION OF SLOPE.

3. WATERSHED HUMBER RIVER TRIBUTARIES

4. PROPERTY OWNERSHIP (name, address, phone):

LEGAL DESCRIPTION
Lot
Concession
Township
County

CURRENT LAND USE (circle and describe)
∘ vacant - field, bush, woods, forest, wilderness, tundra, FARM FIELD ?
∘ passive - recreational parks, golf courses, non-habitable structures, buried utilities, swimming pools,
∘ active - habitable structures, residential, commercial, industrial, warehousing and storage,
∘ infra-structure or public use - stadiums, hospitals, schools, bridges, high voltage power lines, waste management sites,

5. SLOPE DATA AT THE CRITICAL LOCATION IN THE VICINITY OF BOREHOLE SS2
HEIGHT ∘ 3 - 6 m ∘ 6 - 10 m ∘ 10 - 15 m ∘ 15 - 20 m
∘ 20 - 25 m ∘ 25 - 30 m ∘ > 30 m
estimated height (m):

INCLINATION AND SHAPE
∘ 4:1 or flatter 25 % 14° ∘ up to 3:1 33 % 18½° ∘ up to 2:1 50 % 26½°
∘ up to 1:1 100 % 45° ∘ up to ½:1 200 % 63½° ∘ steeper than ½:1 > 63½°

6. SLOPE DRAINAGE (describe)
TOP FLAT TABLE LAND DRAINS TOWARDS SLOPE.
FACE SLOPE FACE IS DRY, DRAINS TOWARDS STREAM.
BOTTOM STREAM IS LOCATED IMMEDIATELY ADJACENT TO SLOPE TOE.

SLOPE NO. 2

7. SLOPE SOIL STRATIGRAPHY (describe, positions, thicknesses, types)

TOP NATIVE SOIL

FACE CLAYEY SILT/ SILTY CLAY TILL, VENEERED BY TOPSOIL

BOTTOM CLAYEY SILT/ SILTY CLAY TILL

8. WATER COURSE FEATURES (circle and describe)

SWALE, CHANNEL

GULLY

STREAM, CREEK, RIVER IMMEDIATELY ADJACENT TO SLOPE TOE.

POND, BAY, LAKE

SPRINGS

MARSHY GROUND

9. VEGETATION COVER (grasses, weeds, shrubs, saplings, trees)

TOP GRASSES, SHRUBS.

FACE BARE AT THE CRITICAL LOCATION (IN THE VICINITY OF BOREHOLE SS2)

BOTTOM BARE AT THE CRITICAL LOCATION (IN THE VICINITY OF BOREHOLE SS2)

10. STRUCTURES (buildings, walls, fences, sewers, roads, stairs, decks, towers,)

TOP
FACE
BOTTOM
} NONE

11. EROSION FEATURES (scour, undercutting, bare areas, piping, rills, gully)

TOP EROSION CLOSE TO THE TOP OF SLOPE

FACE ACTIVE EROSION

BOTTOM POSSIBLE EROSION CLOSE TO THE LEVEL OF WATER COURSE.

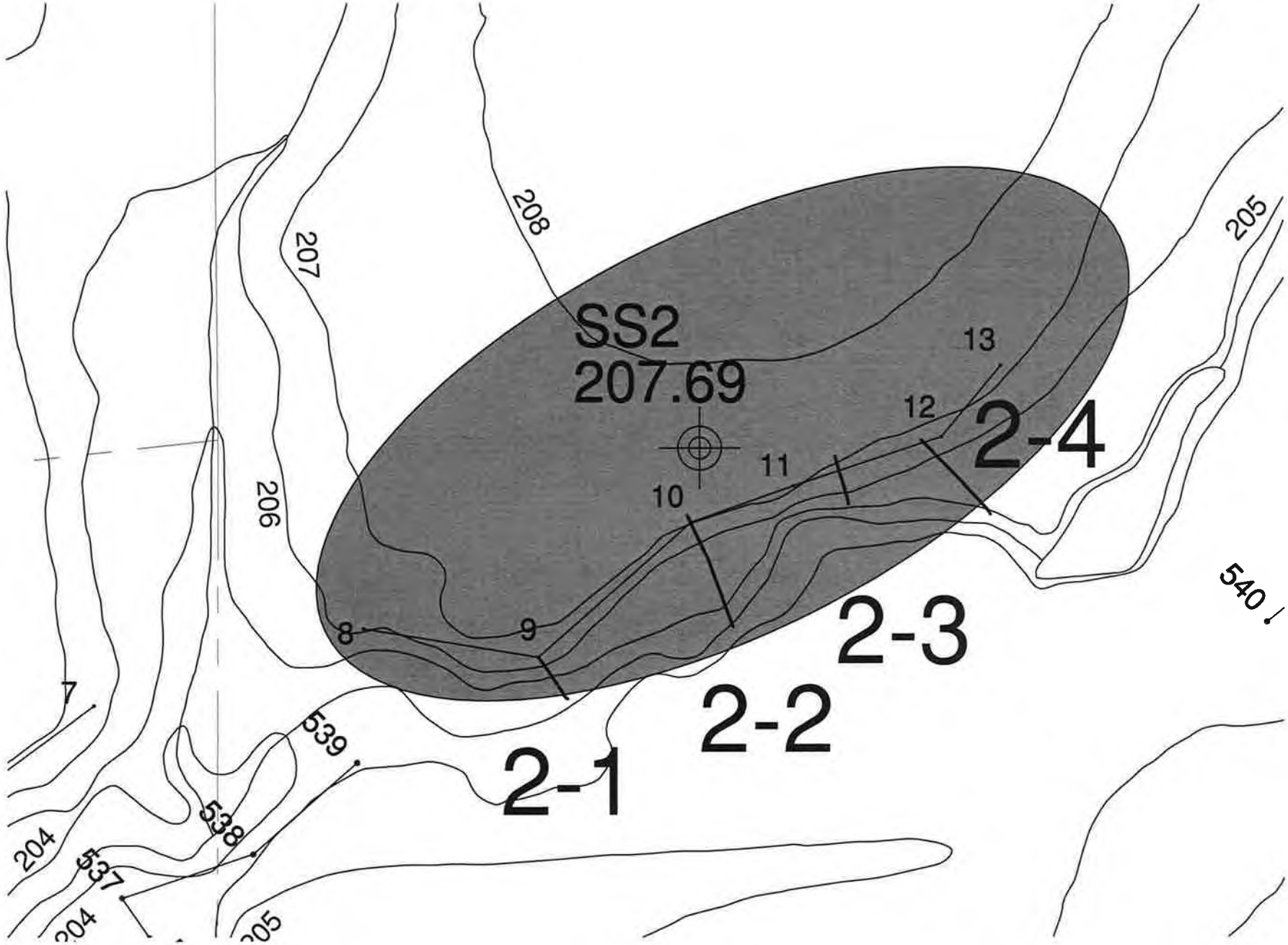
12. SLOPE SLIDE FEATURES (tension cracks, scarps, slumps, bulges, grabens, ridges, bent trees)

TOP
FACE
BOTTOM
} NONE

13. PLAN SKETCH OF SLOPE

14. PROFILE SKETCH OF SLOPE

REFER TO CROSS SECTION.


SS2
207.69
2-1
2-2
2-3
2-4
208
207
206
205
204
539
538
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540
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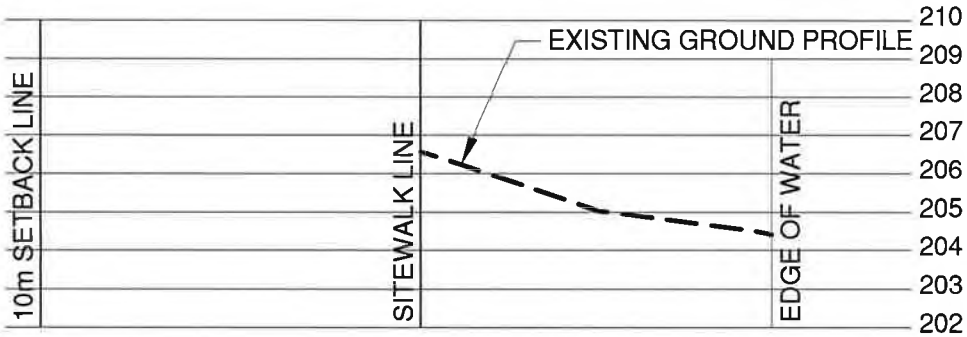
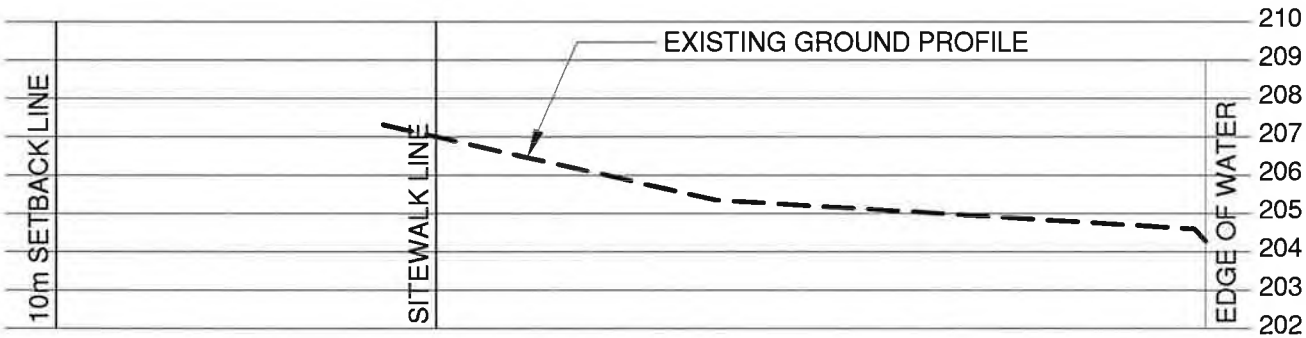
8
9
10
11
12
13



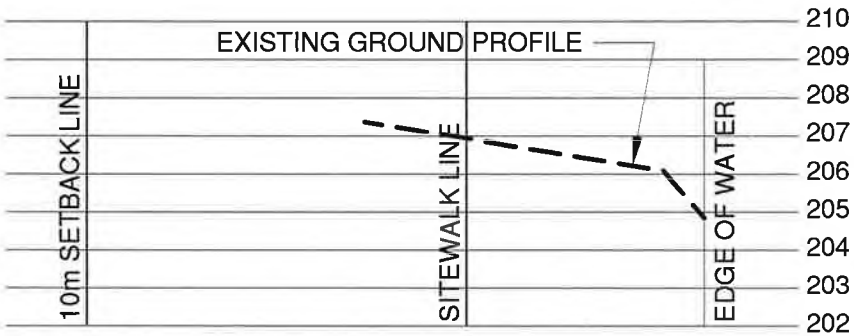
SECTION 2-1

1:250



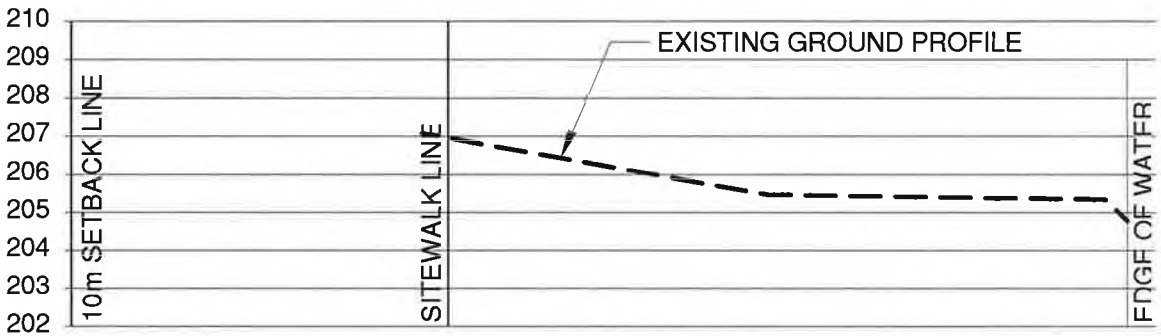
SECTION 2-2

1:250



SECTION 2-3

1:250

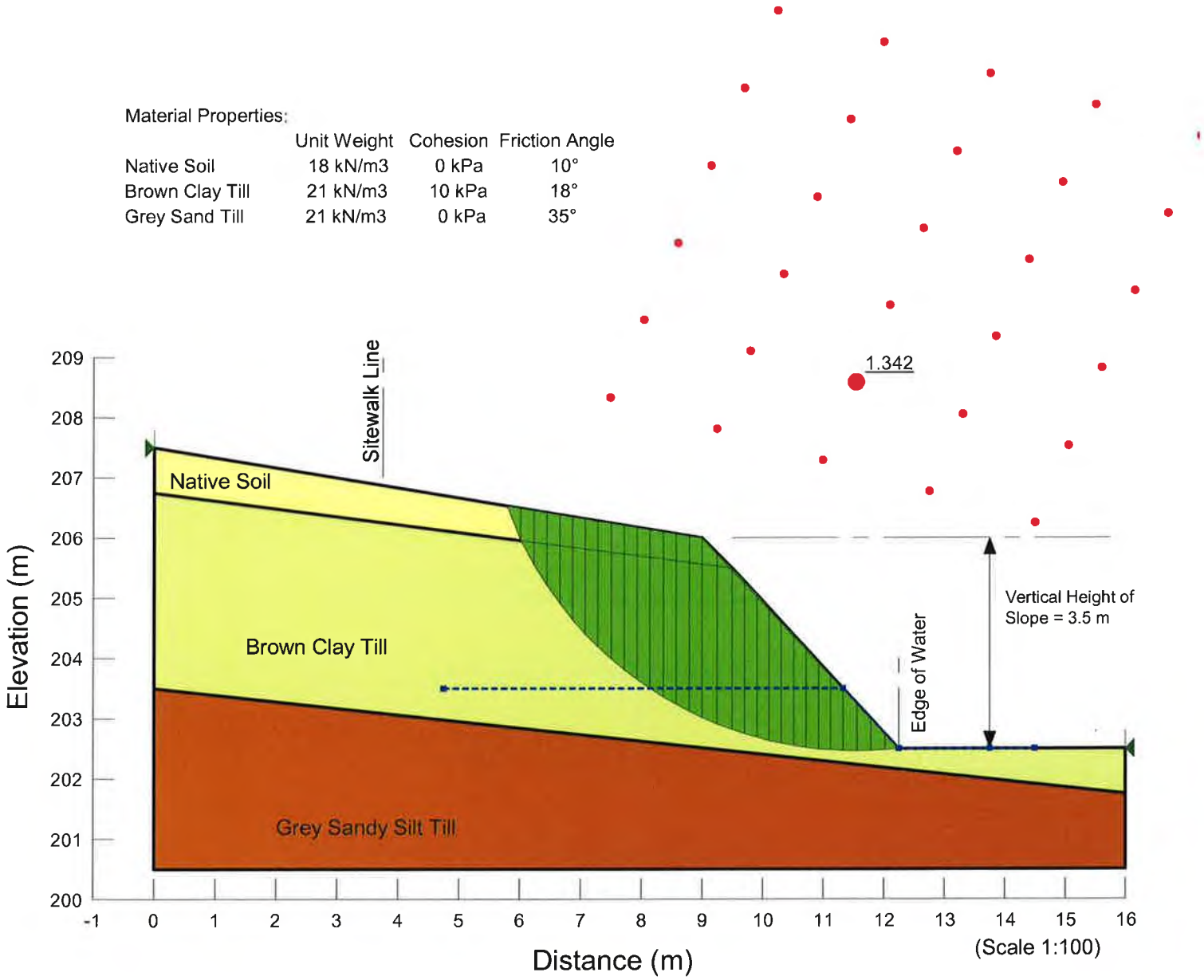


SECTION 2-4

1:250

Material Properties:

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	10°
Brown Clay Till	21 kN/m3	10 kPa	18°
Grey Sand Till	21 kN/m3	0 kPa	35°

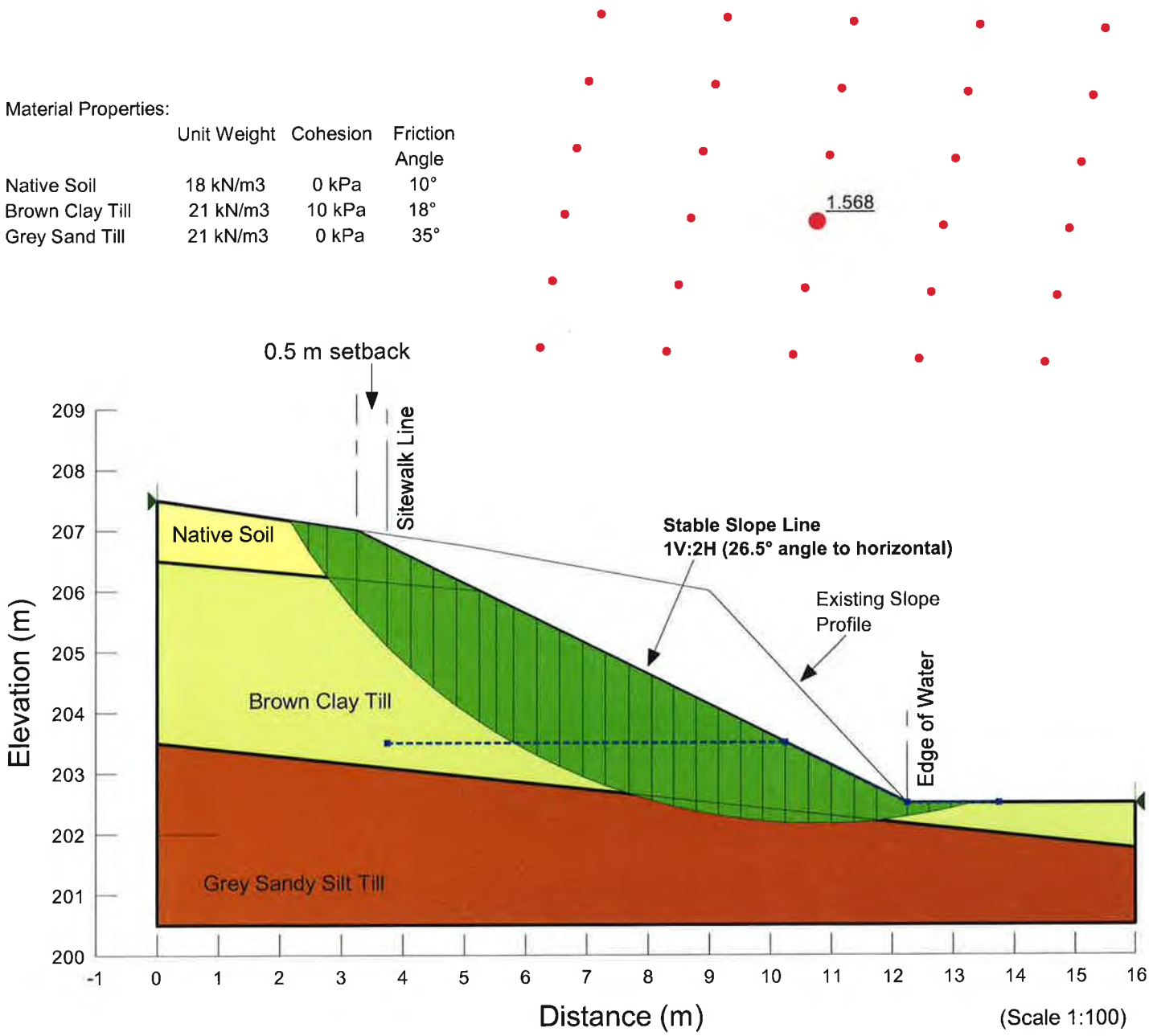


Slope No. 2: Section 2-3

Drawing No. 5-1: Stability Analysis Result of Existing Slope

Material Properties:

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	10°
Brown Clay Till	21 kN/m3	10 kPa	18°
Grey Sand Till	21 kN/m3	0 kPa	35°



Slope No. 2: Section 2-3

Drawing No. 5-2: Stability Analysis Result for Stable Slope Line

APPENDIX 6

Stability Study for Slope No. 3

Slope Stability Rating Chart and Slope Inspection Record prepared by AME.

Location and Profile of Slope Sections 3-1, 3-2, 3-3, 3-4 and 3-5.

Stability Analysis Result of Existing Slope.....Drawing No. 6-1

Stability Analysis Result for Stable Slope Line.....Drawing No. 6-2

TABLE 8.1 - SLOPE STABILITY RATING CHART

Site Location: SLOPE NO. 3 , AREA 47 SECONDARY PLAN, BRAMPTON File No. 40398.201
Property Owner: Inspection Date: NOV. 14, 2012
Inspected By: MICHAEL LAM Weather:

				Rating Value
1.	SLOPE INCLINATION	degrees	horiz. : vert.	
	a)	18 or less	3 : 1 or flatter	0
	b)	18 - 26	2 : 1 to more than 3 : 1	6
	c)	more than 26	steeper than 2 : 1 AT THE CRITICAL LOCATION IN THE VICINITY OF BOREHOLE SS3.	16
2.	SOIL STRATIGRAPHY			
	a)	Shale, Limestone, Granite (Bedrock)		0
	b)	Sand, Gravel		6
	c)	Glacial Till		9
	d)	Clay, Silt		12
	e)	Fill		16
	f)	Leda Clay		24
3.	SEEPAGE FROM SLOPE FACE			
	a)	None or Near bottom only		0
	b)	Near mid-slope only		6
	c)	Near crest only or, From several levels		12
4.	SLOPE HEIGHT			
	a)	2 m or less		0
	b)	2.1 to 5 m		2
	c)	5.1 to 10 m		4
	d)	more than 10 m		8
5.	VEGETATION COVER ON SLOPE FACE			
	a)	Well vegetated; heavy shrubs or forested with mature trees & YOUNG TREES.		0
	b)	Light vegetation; Mostly grass, weeds, occasional trees, shrubs		4
	c)	No vegetation, bare		8
6.	TABLE LAND DRAINAGE			
	a)	Table land flat, no apparent drainage over slope		0
	b)	Minor drainage over slope, no active erosion		2
	c)	Drainage over slope, active erosion, gullies		4
7.	PROXIMITY OF WATERCOURSE TO SLOPE TOE			
	a)	15 metres or more from slope toe		0
	b)	Less than 15 metres from slope toe AT THE CRITICAL LOCATION		6
8.	PREVIOUS LANDSLIDE ACTIVITY			
	a)	No		0
	b)	Yes		6
	SLOPE INSTABILITY RATING	RATING VALUES TOTAL	INVESTIGATION REQUIREMENTS	TOTAL 33

1.	Low potential	< 24	Site inspection only, confirmation, report letter.
2.	Slight potential	25-35	Site inspection and surveying, preliminary study, detailed report.
3.	Moderate potential	> 35	Boreholes, piezometers, lab tests, surveying, detailed report.

NOTES:
a) Choose only one from each category; compare total rating value with above requirements.
b) If there is a water body (stream, creek, river, pond, bay, lake) at the slope toe; the potential for toe erosion and undercutting should be evaluated in detail and, protection provided if required.

TABLE 7.4 - Slope Inspection Record

1. FILE NAME / NO. 40398.201
INSPECTION DATE (DDMMYY): NOV. 14, 2012
WEATHER (circle): ∘ sunny ∘ partly cloudy ∘ cloudy
∘ calm ∘ breeze ∘ windy
∘ clear ∘ fog ∘ rain ∘ snow
∘ cold ∘ cool ∘ warm ∘ hot
estimated air temperature:
INSPECTED BY (name): MICHAEL LAM

2. SITE LOCATION (describe main roads, features) SLOPE NO. 3, AREA 47 SECONDARY PLAN, BRAMPTON.

SKETCH REFER TO DRAWING NO. 1-2 FOR LOCATION OF SLOPE.

3. WATERSHED HUMBER RIVER TRIBUTARIES

4. PROPERTY OWNERSHIP (name, address, phone):

LEGAL DESCRIPTION
Lot
Concession
Township
County

CURRENT LAND USE (circle and describe)
∘ vacant - field, bush, woods, forest, wilderness, tundra, FARM FIELD
∘ passive - recreational parks, golf courses, non-habitable structures, buried utilities, swimming pools,
∘ active - habitable structures, residential, commercial, industrial, warehousing and storage,
∘ infra-structure or public use - stadiums, hospitals, schools, bridges, high voltage power lines, waste management sites,

5. SLOPE DATA
HEIGHT ∘ 3 - 6 m ∘ 6 - 10 m ∘ 10 - 15 m ∘ 15 - 20 m
∘ 20 - 25 m ∘ 25 - 30 m ∘ > 30 m
estimated height (m):

INCLINATION AND SHAPE
∘ 4:1 or flatter 25 % 14° ∘ up to 3:1 33 % 18½° ∘ up to 2:1 50 % 26½°
∘ up to 1:1 100 % 45° ∘ up to ½:1 200 % 63½° ∘ steeper than ½:1 > 63½°

6. SLOPE DRAINAGE (describe)
TOP FLAT TABLE LAND DRAINS TOWARDS SLOPE.
FACE SLOPE FACE IS DRY, DRAINS TOWARDS SLOPE TOE.
BOTTOM DRAINS AWAY FROM SLOPE TOE.

SLOPE NO. 3

7. SLOPE SOIL STRATIGRAPHY (describe, positions, thicknesses, types)

TOP NATIVE SOIL

FACE CLAYEY SILT/ SILTY CLAY TILL, VENEERED BY TOPSOIL

BOTTOM CLAYEY SILT/ SILTY CLAY TILL

8. WATER COURSE FEATURES (circle and describe)

SWALE, CHANNEL

GULLY

STREAM, CREEK, RIVER

POND, BAY, LAKE

SPRINGS

MARSHY GROUND

STREAM IS LOCATED AT DISTANCE FAR AWAY FROM THE SLOPE TOE.

9. VEGETATION COVER (grasses, weeds, shrubs, saplings, trees)

TOP GRASSES, SHRUBS

FACE } GRASSES, TREES (BOTH YOUNG & MATURE)

BOTTOM

10. STRUCTURES (buildings, walls, fences, sewers, roads, stairs, decks, towers,)

TOP

FACE } NONE

BOTTOM

11. EROSION FEATURES (scour, undercutting, bare areas, piping, rills, gully)

TOP

FACE } NONE

BOTTOM

12. SLOPE SLIDE FEATURES (tension cracks, scarps, slumps, bulges, grabens, ridges, bent trees)

TOP

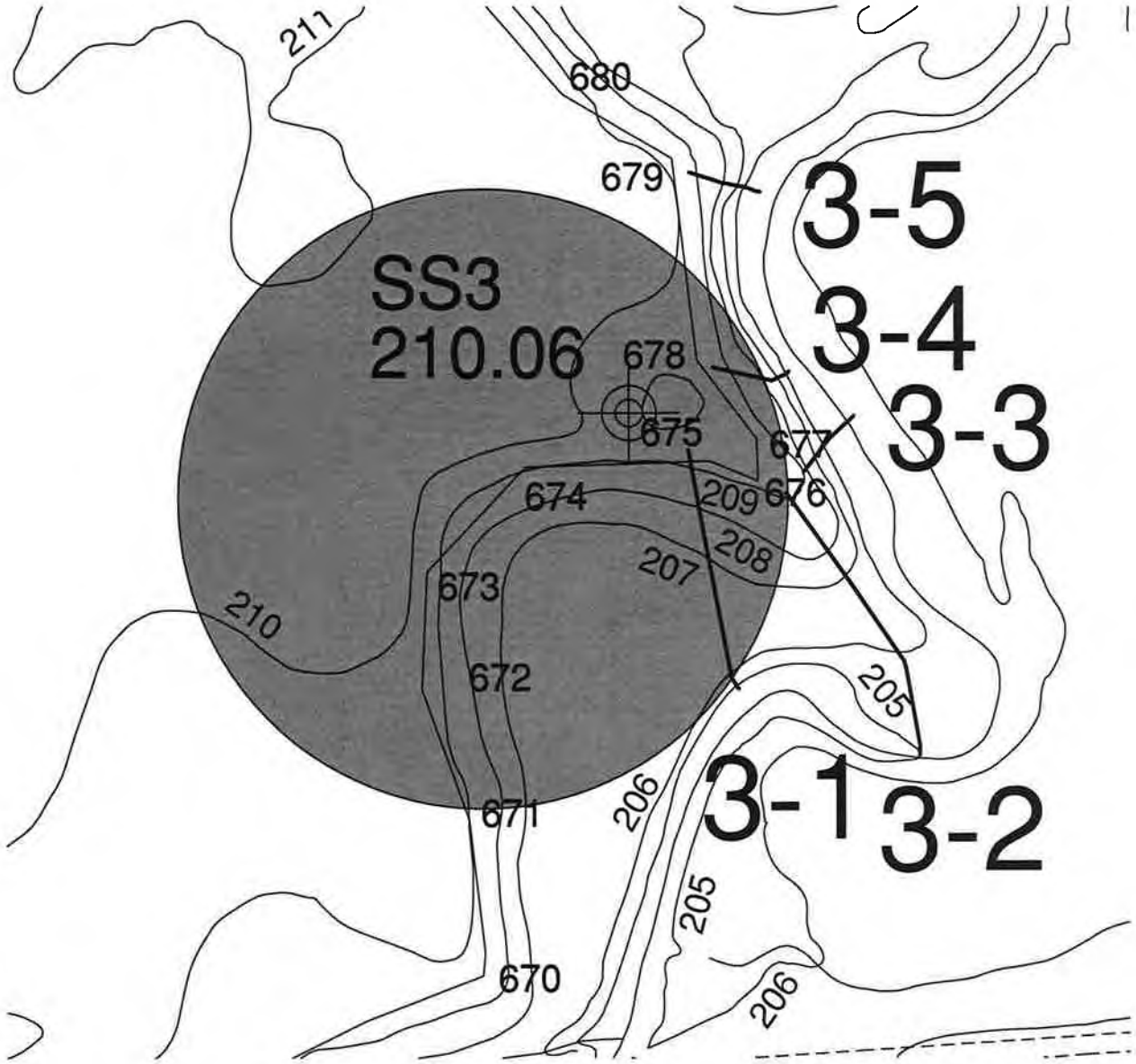
FACE } NONE

BOTTOM

13. PLAN SKETCH OF SLOPE

14. PROFILE SKETCH OF SLOPE

REFER TO CROSS SECTION


211
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3-5
SS3
210.06
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3-4
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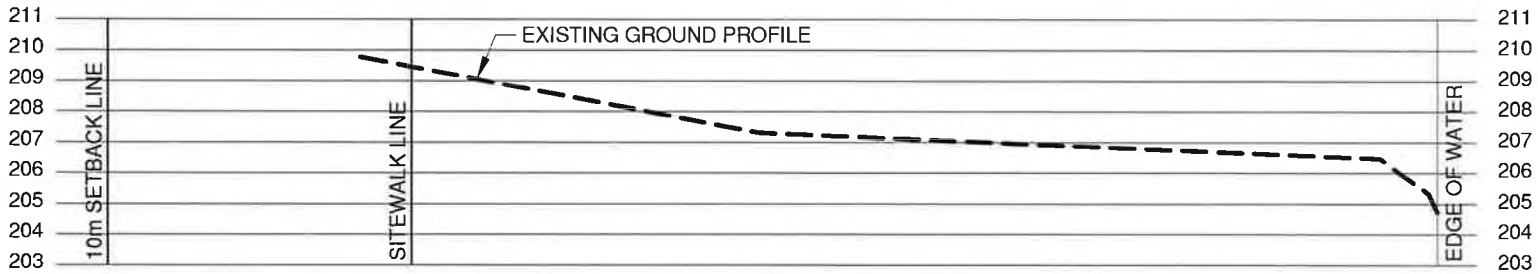
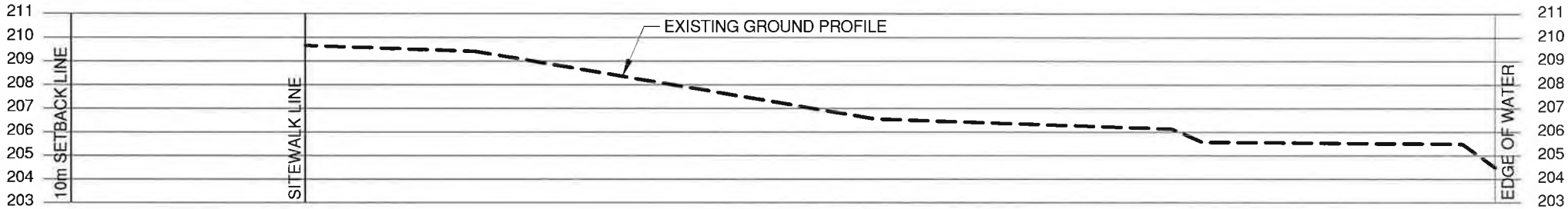
670
206



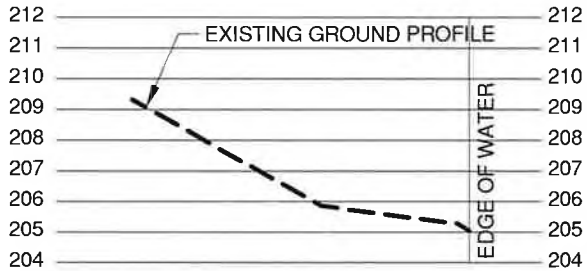
SECTION 3-1

1:250



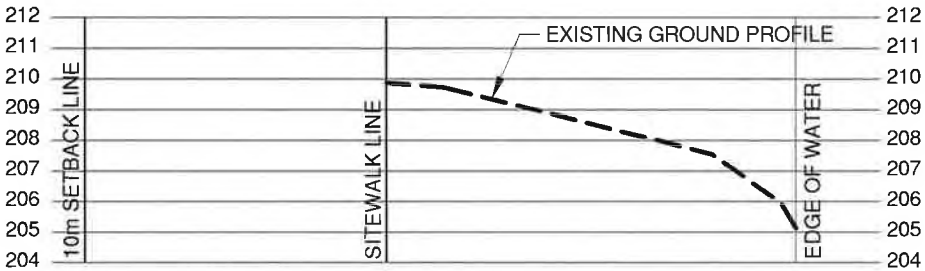
SECTION 3-2

1:250



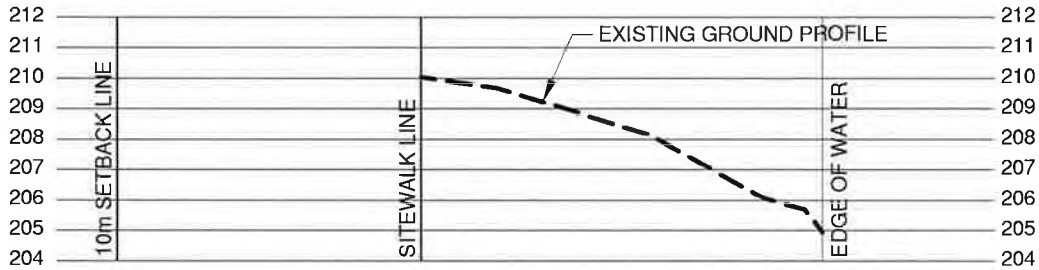
SECTION 3-3

1:250



SECTION 3-4

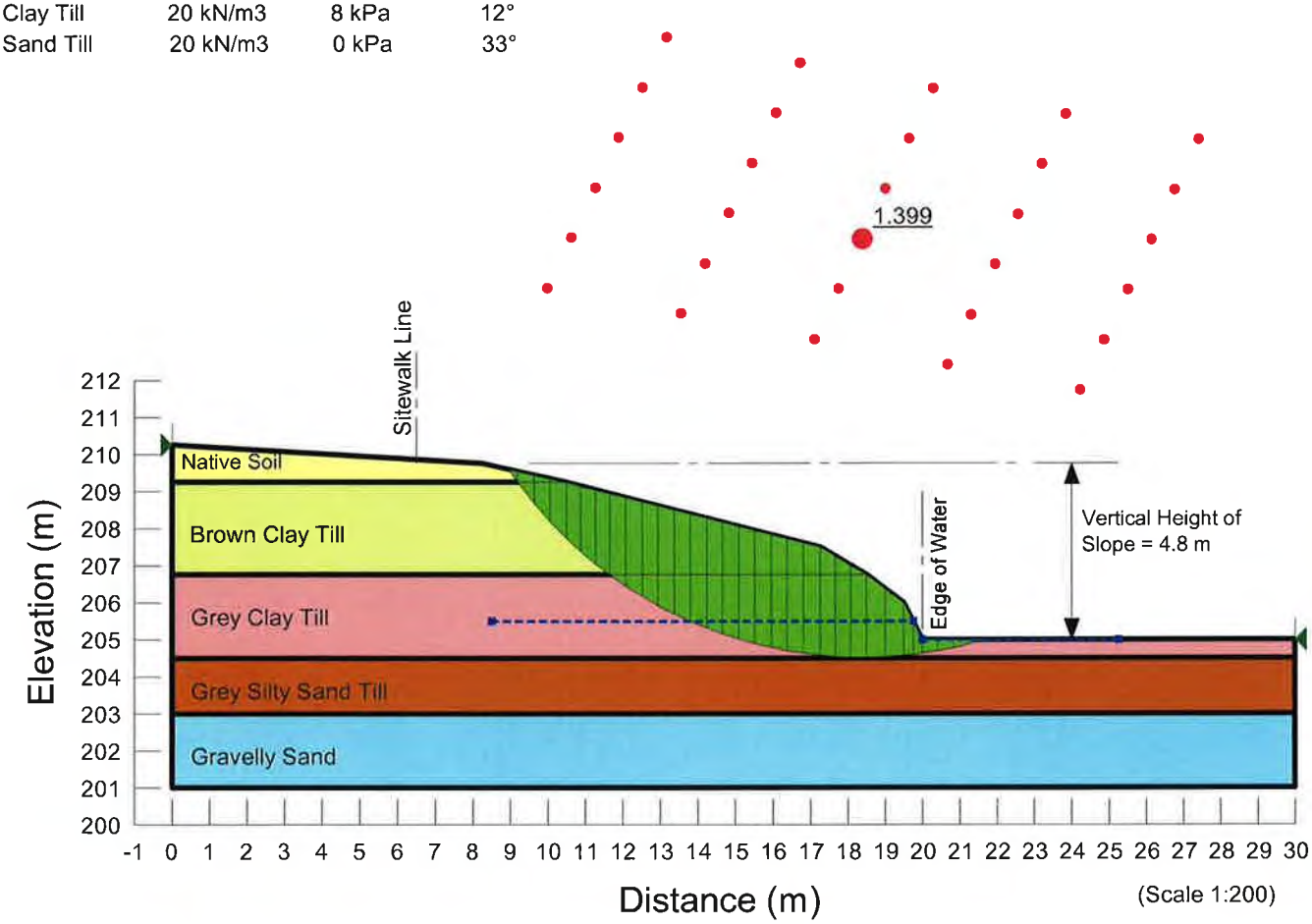
1:250



SECTION 3-5

1:250

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	10°
Brown Clay Till	21 kN/m3	10 kPa	18°
Grey Clay Till	20 kN/m3	8 kPa	12°
Grey Sand Till	20 kN/m3	0 kPa	33°

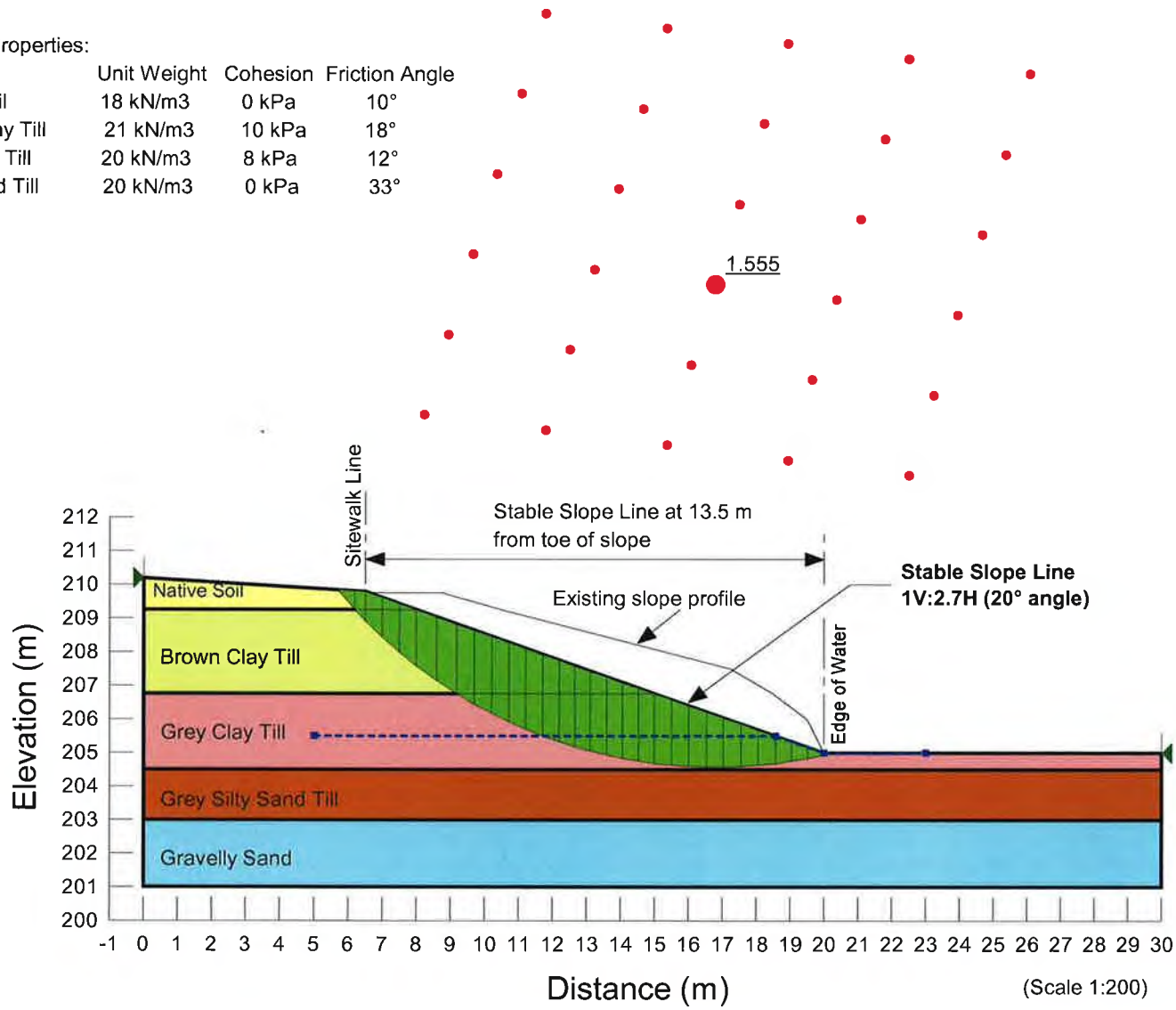


Slope No. 3: Section 3-4

Drawing No. 6-1: Stability Analysis Result of Existing Slope

Material Properties:

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	10°
Brown Clay Till	21 kN/m3	10 kPa	18°
Grey Clay Till	20 kN/m3	8 kPa	12°
Grey Sand Till	20 kN/m3	0 kPa	33°



Slope No. 3: Section 3-4

Drawing No. 6-2: Stability Analysis Result for Stable Slope Line

APPENDIX 7

Stability Study for Slope No. 4

Slope Stability Rating Chart and Slope Inspection Record prepared by AME.

Location and Profile of Slope Sections 4-1, 4-2 and 4-3.

Stability Analysis Result of Existing Slope.....Drawing No. 7-1

Aerial Plan showing the location of slope section 4-2 of Study Slope No. 4

TABLE 8.1 - SLOPE STABILITY RATING CHART

Site Location: SLOPE NO. 4, AREA 47 SECONDARY PLAN, BRAMPTON File No. 40398.201
Property Owner: Inspection Date: NOV. 14, 2012
Inspected By: MICHAEL LAM Weather:

				Rating Value
1.	**SLOPE INCLINATION**	degrees	horiz. : vert.	
	a)	18 or less	3 : 1 or flatter	0
	b)	18 - 26	2 : 1 to more than 3 : 1	6
	c)	more than 26	steeper than 2 : 1	16
2.	**SOIL STRATIGRAPHY**			
	a)	Shale, Limestone, Granite (Bedrock)		0
	b)	Sand, Gravel		6
	c)	Glacial Till		9
	d)	Clay, Silt		12
	e)	Fill		16
	f)	Leda Clay		24
3.	**SEEPAGE FROM SLOPE FACE**			
	a)	None or Near bottom only		0
	b)	Near mid-slope only		6
	c)	Near crest only or, From several levels		12
4.	**SLOPE HEIGHT**			
	a)	2 m or less		0
	b)	2.1 to 5 m		2
	c)	5.1 to 10 m		4
	d)	more than 10 m		8
5.	**VEGETATION COVER ON SLOPE FACE**			
	a)	Well vegetated; heavy shrubs or forested with mature trees & YOUNG TREES		0
	b)	Light vegetation; Mostly grass, weeds, occasional trees, shrubs		4
	c)	No vegetation, bare		8
6.	**TABLE LAND DRAINAGE**			
	a)	Table land flat, no apparent drainage over slope		0
	b)	Minor drainage over slope, no active erosion		2
	c)	Drainage over slope, active erosion, gullies		4
7.	**PROXIMITY OF WATERCOURSE TO SLOPE TOE**			
	a)	15 metres or more from slope toe (A SMALL SLOPE SECTION AT THE NORTH-CENTRAL PART		0
	b)	Less than 15 metres from slope toe IS CLOSE TO 15m FROM THE STREAM COURSE)		6
8.	**PREVIOUS LANDSLIDE ACTIVITY**			
	a)	No		0
	b)	Yes		6
	SLOPE INSTABILITY RATING	**RATING VALUES TOTAL**	**INVESTIGATION REQUIREMENTS**	**TOTAL** 27
1.	Low potential	< 24	Site inspection only, confirmation, report letter.	
2.	Slight potential	25-35	Site inspection and surveying, preliminary study, detailed report.	
3.	Moderate potential	> 35	Boreholes, piezometers, lab tests, surveying, detailed report.	

NOTES:
a) Choose only one from each category; compare total rating value with above requirements.
b) If there is a water body (stream, creek, river, pond, bay, lake) at the slope toe; the potential for toe erosion and undercutting should be evaluated in detail and, protection provided if required.

TABLE 7.4 - Slope Inspection Record

1. FILE NAME / NO. 40398.201
INSPECTION DATE (DDMMYY): NOV. 14, 2012
WEATHER (circle): ∘ sunny ∘ partly cloudy ∘ cloudy
∘ calm ∘ breeze ∘ windy
∘ clear ∘ fog ∘ rain ∘ snow
∘ cold ∘ cool ∘ warm ∘ hot
estimated air temperature:
INSPECTED BY (name): MICHAEL LAM

2. SITE LOCATION (describe main roads, features) SLOPE NO. 4, AREA 47 SECONDARY PLAN, BRAMPTON.

SKETCH REFER TO DRAWING NO. 1-2 FOR LOCATION OF SLOPE.

3. WATERSHED HUMBER RIVER TRIBUTARIES

4. PROPERTY OWNERSHIP (name, address, phone):

LEGAL DESCRIPTION
Lot
Concession
Township
County

CURRENT LAND USE (circle and describe)
∘ vacant - field, bush, woods, forest, wilderness, tundra, ADJACENT TO FARM FIELD.
∘ passive - recreational parks, golf courses, non-habitable structures, buried utilities, swimming pools,
∘ active - habitable structures, residential, commercial, industrial, warehousing and storage,
∘ infra-structure or public use - stadiums, hospitals, schools, bridges, high voltage power lines, waste management sites,

5. SLOPE DATA
HEIGHT ∘ 3 - 6 m ∘ 6 - 10 m ∘ 10 - 15 m ∘ 15 - 20 m
∘ 20 - 25 m ∘ 25 - 30 m ∘ > 30 m
estimated height (m):

INCLINATION AND SHAPE
∘ 4:1 or flatter 25 % 14° ∘ up to 3:1 33 % 18½° ∘ up to 2:1 50 % 26½°
∘ up to 1:1 100 % 45° ∘ up to ½:1 200 % 63½° ∘ steeper than ½:1 > 63½°

6. SLOPE DRAINAGE (describe)
TOP FLAT TABLE LAND DRAINS TOWARDS SLOPE.
FACE SLOPE FACE IS DRY, DRAINS TOWARDS SLOPE TOE.
BOTTOM DRAINS AWAY FROM SLOPE TOE.

SLOPE NO. 4

7. SLOPE SOIL STRATIGRAPHY (describe, positions, thicknesses, types)

TOP NATIVE SOIL

FACE CLAYEY SILT / SILTY CLAY TILL, VENEERED BY TOPSOIL

BOTTOM CLAYEY SILT / SILTY CLAY TILL

8. WATER COURSE FEATURES (circle and describe)

SWALE, CHANNEL

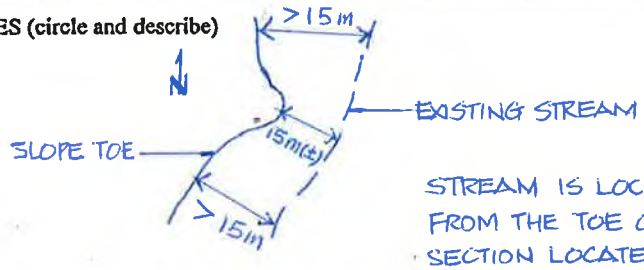
GULLY

STREAM, CREEK, RIVER

POND, BAY, LAKE

SPRINGS

MARSHY GROUND



STREAM IS LOCATED AT DISTANCE > 15 M FROM THE TOE OF SLOPE, EXCEPT A SMALL SECTION LOCATED IN THE NORTH-CENTRAL PART (SEE SKETCH) WHEREIN THE DISTANCE FROM THE STREAM TO THE SLOPE TOE IS 15m ±.

9. VEGETATION COVER (grasses, weeds, shrubs, saplings, trees)

TOP
FACE
BOTTOM

GRASSES, SHRUBS, YOUNG & MATURE TREES

10. STRUCTURES (buildings, walls, fences, sewers, roads, stairs, decks, towers,)

TOP
FACE
BOTTOM

NONE

11. EROSION FEATURES (scour, undercutting, bare areas, piping, rills, gully)

TOP
FACE
BOTTOM

NONE

12. SLOPE SLIDE FEATURES (tension cracks, scarps, slumps, bulges, grabens, ridges, bent trees)

TOP
FACE
BOTTOM

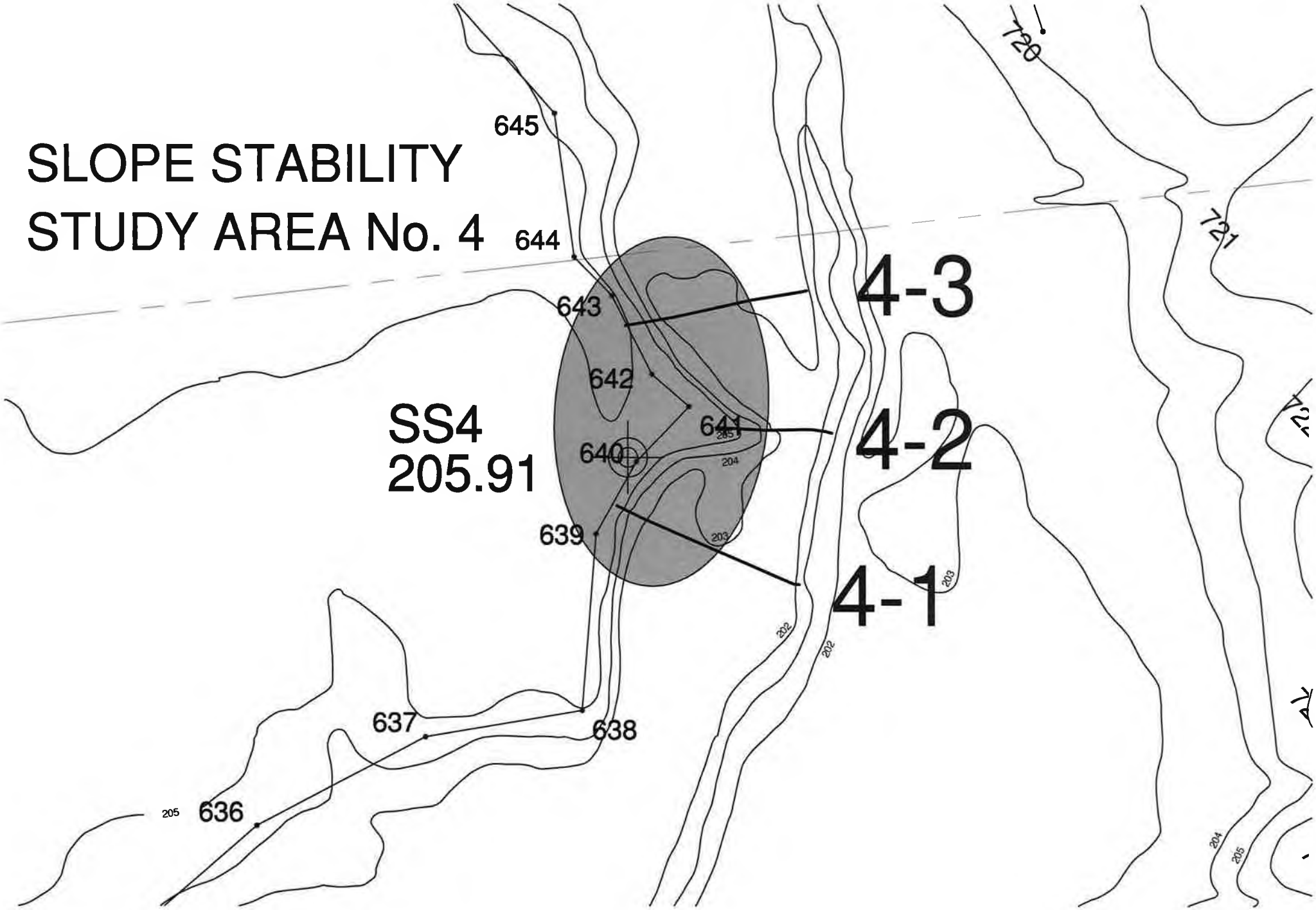
NONE

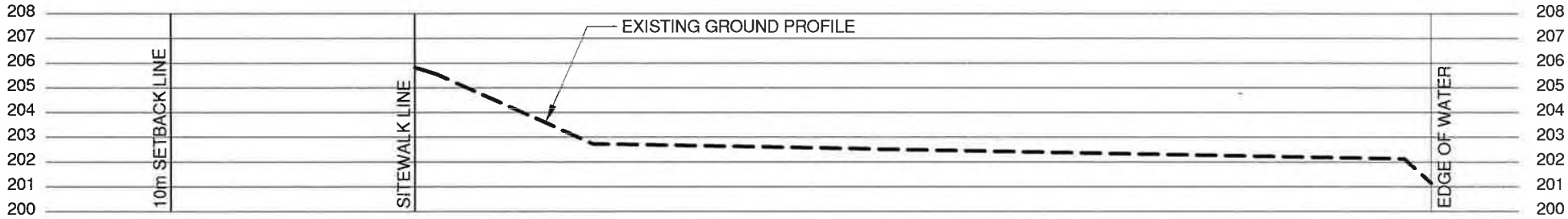
13. PLAN SKETCH OF SLOPE

14. PROFILE SKETCH OF SLOPE

REFER TO CROSS SECTION

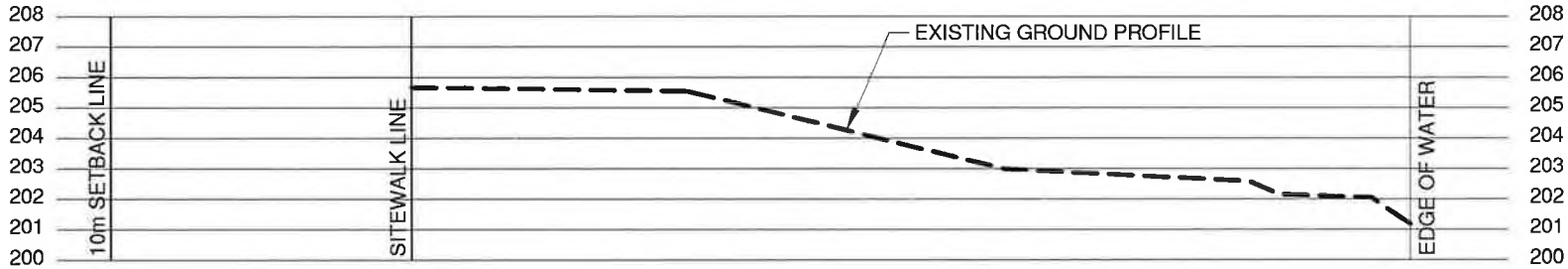
SLOPE STABILITY STUDY AREA No. 4





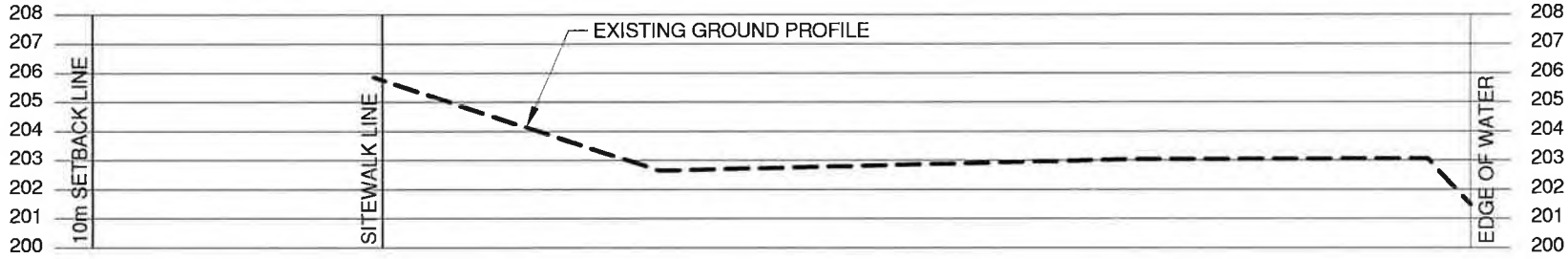
SECTION 4-1

1:250



SECTION 4-2

1:250

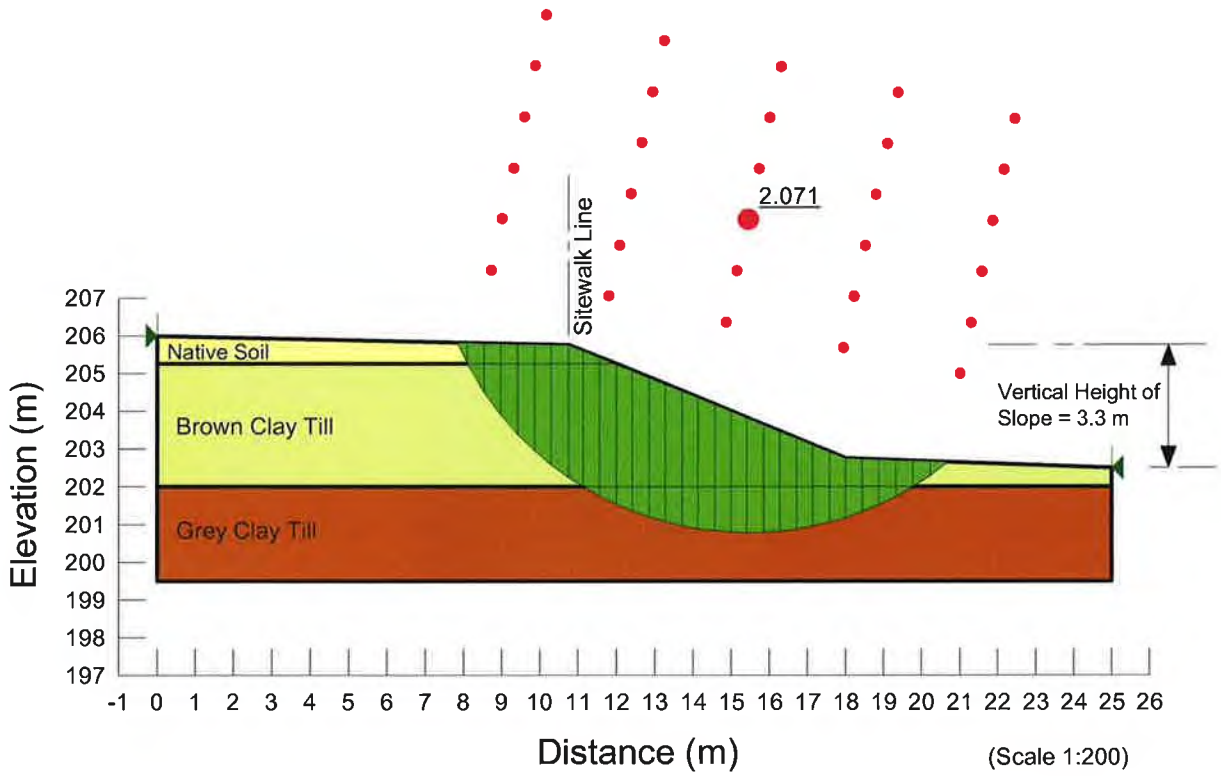


SECTION 4-3

1:250

Material Properties:

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	7°
Brown Clay Till	21 kN/m3	12 kPa	20°
Grey Clay Till	20 kN/m3	8 kPa	12°



Slope No. 4: Section 4-1

Drawing No. 7-1: Stability Analysis Result of Existing Slope

Approximate
Location of Slope
Section 4-2
Image © 2013 DigitalGlobe
© 2013 Google
Google earth
Imagery Date: 8/31/2009 43°48'17.65" N 79°41'22.10" W elev 659 ft eye alt 1274 ft

APPENDIX 8

Stability Study for Slope No. 5

Slope Stability Rating Chart and Slope Inspection Record prepared by AME.

Location and Profile of Slope Sections 5-1, 5-2, 5-3, 5-4 and 5-5.

Stability Analysis Result of Existing Slope.....Drawing No. 8-1

TABLE 8.1 - SLOPE STABILITY RATING CHART

Site Location: SLOPE NO. 5 , AREA 47 SECONDARY PLAN, BRAMPTON File No. 40398.201
Property Owner: Inspection Date: NOV. 14, 2012
Inspected By: MICHAEL LAM Weather:

				Rating Value
1.	SLOPE INCLINATION	degrees	horiz. : vert.	
	a)	18 or less	3 : 1 or flatter	0
	b)	18 - 26	2 : 1 to more than 3 : 1	6
	c)	more than 26	steeper than 2 : 1	16
2.	SOIL STRATIGRAPHY			
	a)	Shale, Limestone, Granite (Bedrock)		0
	b)	Sand, Gravel		6
	c)	Glacial Till		9
	d)	Clay, Silt		12
	e)	Fill		16
	f)	Leda Clay		24
3.	SEEPAGE FROM SLOPE FACE			
	a)	None or Near bottom only		0
	b)	Near mid-slope only		6
	c)	Near crest only or, From several levels		12
4.	SLOPE HEIGHT			
	a)	2 m or less		0
	b)	2.1 to 5 m		2
	c)	5.1 to 10 m		4
	d)	more than 10 m		8
5.	VEGETATION COVER ON SLOPE FACE			
	a)	Well vegetated; heavy shrubs or forested with mature trees & YOUNG TREES		0
	b)	Light vegetation; Mostly grass, weeds, occasional trees, shrubs		4
	c)	No vegetation, bare		8
6.	TABLE LAND DRAINAGE			
	a)	Table land flat, no apparent drainage over slope		0
	b)	Minor drainage over slope, no active erosion		2
	c)	Drainage over slope, active erosion, gullies		4
7.	PROXIMITY OF WATERCOURSE TO SLOPE TOE			
	a)	15 metres or more from slope toe		0
	b)	Less than 15 metres from slope toe		6
8.	PREVIOUS LANDSLIDE ACTIVITY			
	a)	No		0
	b)	Yes		6

SLOPE INSTABILITY RATING	RATING VALUES TOTAL	INVESTIGATION REQUIREMENTS	TOTAL
1. Low potential	< 24	Site inspection only, confirmation, report letter.	27
2. Slight potential	25-35	Site inspection and surveying, preliminary study, detailed report.	
3. Moderate potential	> 35	Boreholes, piezometers, lab tests, surveying, detailed report.	

NOTES:
a) Choose only one from each category; compare total rating value with above requirements.
b) If there is a water body (stream, creek, river, pond, bay, lake) at the slope toe; the potential for toe erosion and undercutting should be evaluated in detail and, protection provided if required.

TABLE 7.4 - Slope Inspection Record

1. FILE NAME / NO. 40398.201
INSPECTION DATE (DDMMYY): NOV. 14, 2012
WEATHER (circle): ∘ sunny ∘ partly cloudy ∘ cloudy
∘ calm ∘ breeze ∘ windy
∘ clear ∘ fog ∘ rain ∘ snow
∘ cold ∘ cool ∘ warm ∘ hot
estimated air temperature:
INSPECTED BY (name): MICHAEL LAM

2. SITE LOCATION (describe main roads, features) SLOPE NO. 5, AREA 47 SECONDARY PLAN, BRAMPTON.

SKETCH REFER TO DRAWING NO. 1-2 FOR LOCATION OF SLOPE.

3. WATERSHED HUMBER RIVER TRIBUTARIES

4. PROPERTY OWNERSHIP (name, address, phone):

LEGAL DESCRIPTION
Lot
Concession
Township
County

CURRENT LAND USE (circle and describe)
∘ vacant - field, bush, woods, forest, wilderness, tundra, FARM FIELD
∘ passive - recreational parks, golf courses, non-habitable structures, buried utilities, swimming pools,
∘ active - habitable structures, residential, commercial, industrial, warehousing and storage,
∘ infra-structure or public use - stadiums, hospitals, schools, bridges, high voltage power lines, waste management sites,

5. SLOPE DATA
HEIGHT ∘ 3 - 6 m ∘ 6 - 10 m ∘ 10 - 15 m ∘ 15 - 20 m
∘ 20 - 25 m ∘ 25 - 30 m ∘ > 30 m
estimated height (m):

INCLINATION AND SHAPE
∘ 4:1 or flatter 25 % 14° ∘ up to 3:1 33 % 18½° ∘ up to 2:1 50 % 26½°
∘ up to 1:1 100 % 45° ∘ up to ½:1 200 % 63½° ∘ steeper than ½:1 > 63½°

6. SLOPE DRAINAGE (describe)
TOP FLAT TABLE LAND DRAINS TOWARDS SLOPE.
FACE SLOPE FACE IS DRY, DRAINS TOWARDS SLOPE TOE.
BOTTOM DRAINS AWAY FROM SLOPE TOE.

SLOPE NO. 5

7. SLOPE SOIL STRATIGRAPHY (describe, positions, thicknesses, types)

TOP NATIVE SOIL

FACE CLAYEY SILT/ SILTY CLAY TILL, VENEERED BY TOPSOIL

BOTTOM CLAYEY SILT/ SILTY CLAY TILL

8. WATER COURSE FEATURES (circle and describe)

SWALE, CHANNEL

GULLY

STREAM, CREEK, RIVER

STREAM IS LOCATED AT DISTANCE > 15m FROM TOE OF SLOPE.

POND, BAY, LAKE

SPRINGS

MARSHY GROUND

9. VEGETATION COVER (grasses, weeds, shrubs, saplings, trees)

TOP
FACE
BOTTOM

GRASSES, SHRUBS, TREES.

10. STRUCTURES (buildings, walls, fences, sewers, roads, stairs, decks, towers,)

TOP
FACE
BOTTOM

NONE

11. EROSION FEATURES (scour, undercutting, bare areas, piping, rills, gully)

TOP
FACE
BOTTOM

NONE

12. SLOPE SLIDE FEATURES (tension cracks, scarps, slumps, bulges, grabens, ridges, bent trees)

TOP
FACE
BOTTOM

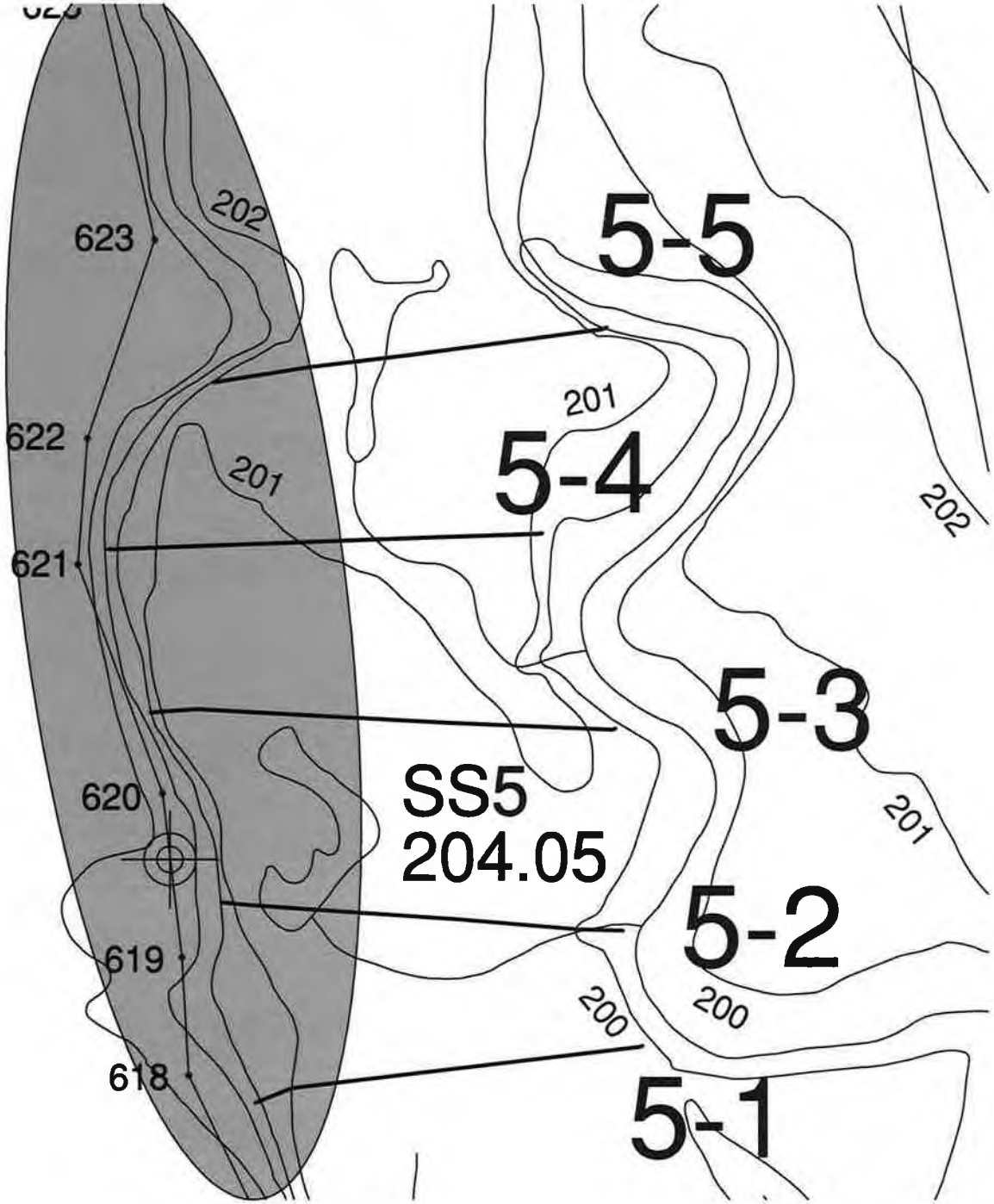
NONE

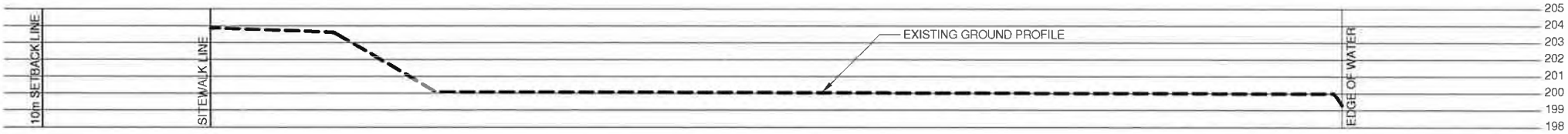
13. PLAN SKETCH OF SLOPE

14. PROFILE SKETCH OF SLOPE

REFER TO CROSS SECTION.

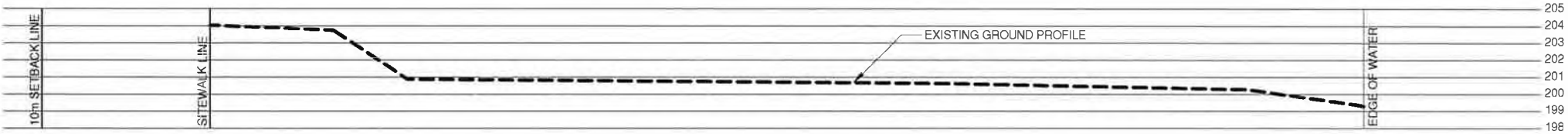
SLOPE STABILITY STUDY AREA No. 5





SECTION 5-1

1:250



SECTION 5-2

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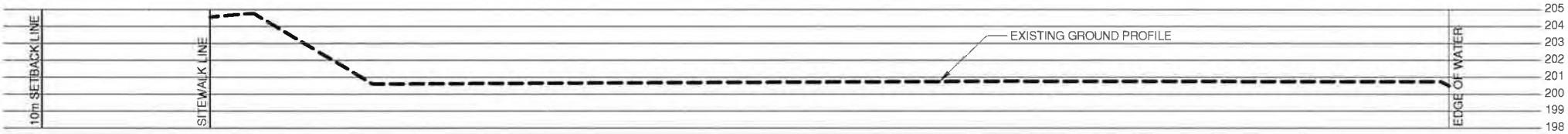
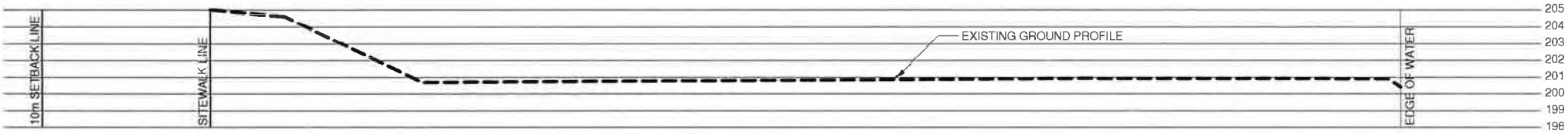


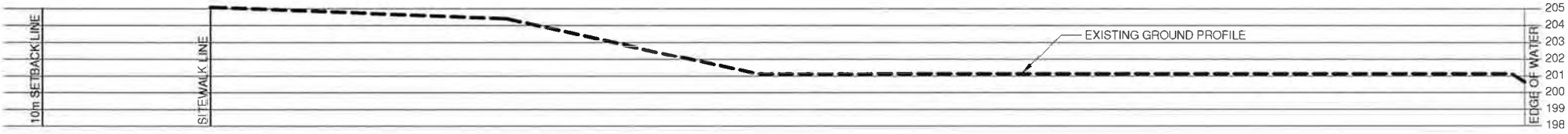
SECTION 5-3

1:250



SECTION 5-4

1:250

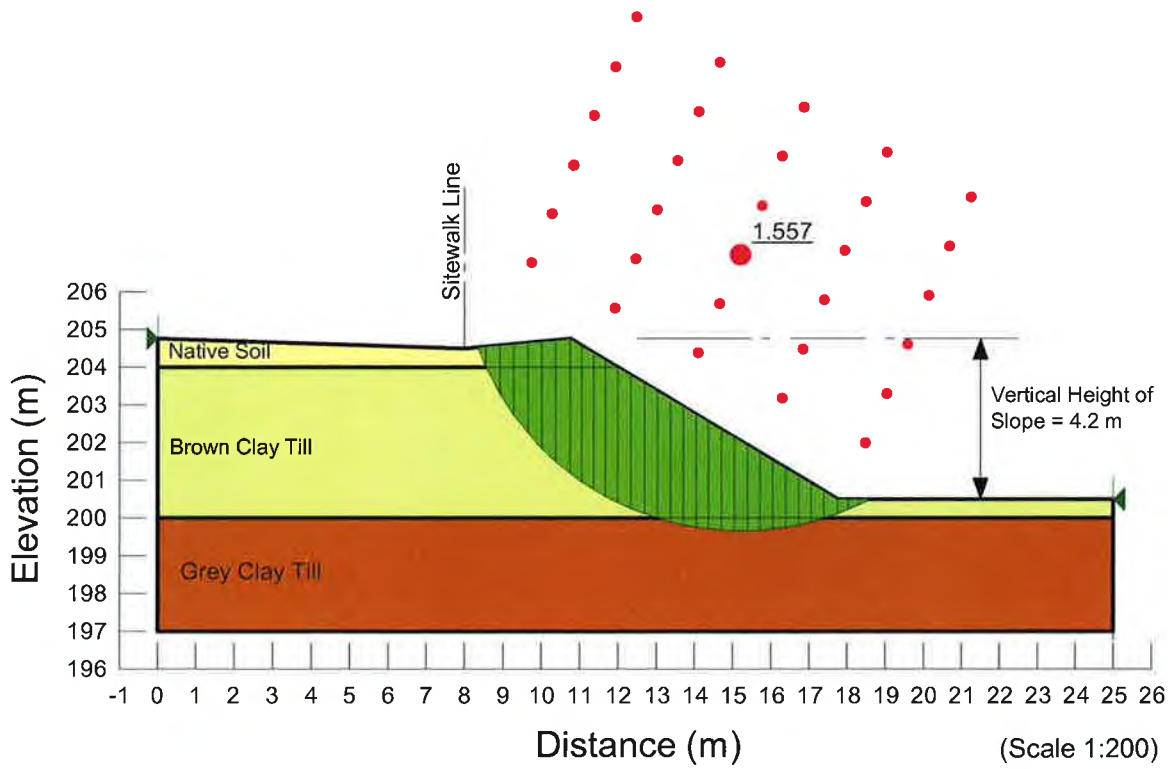


SECTION 5-5

1:250

Material Properties:

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	10°
Brown Clay Till	21 kN/m3	10 kPa	18°
Grey Clay Till	21 kN/m3	10 kPa	12°



Slope No. 5: Section 5-3

Drawing No. 8-1: Stability Analysis Result of Existing Slope

APPENDIX 9

Stability Study for Slope No. 6

Slope Stability Rating Chart and Slope Inspection Record prepared by AME.

Location and Profile of Slope Sections 6-1 and 6-2.

Stability Analysis Result of Existing Slope.....Drawing No. 9-1

Stability Analysis Result for Stable Slope Line.....Drawing No. 9-2

TABLE 8.1 - SLOPE STABILITY RATING CHART

Site Location: SLOPE NO. 6, AREA 47 SECONDARY PLAN, BRAMPTON File No. 40398.201
Property Owner: Inspection Date: NOV. 20, 2012
Inspected By: MICHAEL LAM Weather:

				Rating Value
1.	SLOPE INCLINATION	degrees	horiz. : vert.	
	a)	18 or less	3 : 1 or flatter	0
	b)	18 - 26	2 : 1 to more than 3 : 1	6
	c)	more than 26	steeper than 2 : 1	16
2.	SOIL STRATIGRAPHY			
	a)	Shale, Limestone, Granite (Bedrock)		0
	b)	Sand, Gravel		6
	c)	Glacial Till		9
	d)	Clay, Silt		12
	e)	Fill		16
	f)	Leda Clay		24
3.	SEEPAGE FROM SLOPE FACE			
	a)	None or Near bottom only		0
	b)	Near mid-slope only		6
	c)	Near crest only or, From several levels		12
4.	SLOPE HEIGHT			
	a)	2 m or less		0
	b)	2.1 to 5 m		2
	c)	5.1 to 10 m		4
	d)	more than 10 m		8
5.	VEGETATION COVER ON SLOPE FACE			
	a)	Well vegetated; heavy shrubs or forested with mature trees		0
	b)	Light vegetation; Mostly grass, weeds, occasional trees, shrubs		4
	c)	No vegetation, bare		8
6.	TABLE LAND DRAINAGE			
	a)	Table land flat, no apparent drainage over slope		0
	b)	Minor drainage over slope, no active erosion		2
	c)	Drainage over slope, active erosion, gullies		4
7.	PROXIMITY OF WATERCOURSE TO SLOPE TOE			
	a)	15 metres or more from slope toe		0
	b)	Less than 15 metres from slope toe		6
8.	PREVIOUS LANDSLIDE ACTIVITY			
	a)	No		0
	b)	Yes		6
	SLOPE INSTABILITY RATING	RATING VALUES TOTAL	INVESTIGATION REQUIREMENTS	TOTAL 45

1.	Low potential	< 24	Site inspection only, confirmation, report letter.
2.	Slight potential	25-35	Site inspection and surveying, preliminary study, detailed report.
3.	Moderate potential	> 35	Boreholes, piezometers, lab tests, surveying, detailed report.

NOTES: a) Choose only one from each category; compare total rating value with above requirements.
b) If there is a water body (stream, creek, river, pond, bay, lake) at the slope toe; the potential for toe erosion and undercutting should be evaluated in detail and, protection provided if required.

TABLE 7.4 - Slope Inspection Record

1. FILE NAME / NO. 40398.201
INSPECTION DATE (DDMMYY): NOV. 20, 2012
WEATHER (circle): ∘ sunny ∘ partly cloudy ∘ cloudy
∘ calm ∘ breeze ∘ windy
∘ clear ∘ fog ∘ rain ∘ snow
∘ cold ∘ cool ∘ warm ∘ hot
estimated air temperature:
INSPECTED BY (name): MICHAEL LAM

2. SITE LOCATION (describe main roads, features) SLOPE NO. 6, AREA 47 SECONDARY PLAN, BRAMPTON.

SKETCH REFER TO DRAWING NO. 1-2 FOR LOCATION OF SLOPE.

3. WATERSHED HUMBER RIVER TRIBUTARIES

4. PROPERTY OWNERSHIP (name, address, phone):

LEGAL DESCRIPTION
Lot
Concession
Township
County

CURRENT LAND USE (circle and describe)
∘ vacant - field, bush, woods, forest, wilderness, tundra,
∘ passive - recreational parks, golf courses, non-habitable structures, buried utilities, swimming pools,
∘ active - habitable structures, residential, commercial, industrial, warehousing and storage,
∘ infra-structure or public use - stadiums, hospitals, schools, bridges, high voltage power lines, waste management sites,

5. SLOPE DATA
HEIGHT ∘ 3 - 6 m ∘ 6 - 10 m ∘ 10 - 15 m ∘ 15 - 20 m
∘ 20 - 25 m ∘ 25 - 30 m ∘ > 30 m
estimated height (m):

INCLINATION AND SHAPE
∘ 4:1 or flatter 25 % 14° ∘ up to 3:1 33 % 18½° ∘ up to 2:1 50 % 26½°
∘ up to 1:1 100 % 45° ∘ up to ½:1 200 % 63½° ∘ steeper than ½:1 > 63½°

6. SLOPE DRAINAGE (describe)
TOP FLAT TABLE LAND DRAINS TOWARDS SLOPE.
FACE SLOPE FACE DRAINS TOWARDS STREAM COURSE.
BOTTOM STREAM IS LOCATED IMMEDIATELY ADJACENT TO THE SLOPE TOE.

SLOPE NO. 6

7. SLOPE SOIL STRATIGRAPHY (describe, positions, thicknesses, types)

TOP NATIVE SOIL

FACE CLAYEY SILT/ SILTY CLAY TILL, VENEERED BY TOPSOIL

BOTTOM CLAYEY SILT/ SILTY CLAY TILL

8. WATER COURSE FEATURES (circle and describe)

SWALE, CHANNEL

GULLY

[STREAM] CREEK, RIVER — LOCATED IMMEDIATELY ADJACENT TO THE SLOPE TOE.

POND, BAY, LAKE

SPRINGS

MARSHY GROUND

9. VEGETATION COVER (grasses, weeds, shrubs, saplings, trees)

TOP SHRUBS, GRASSES, YOUNG TREES (NOT ESTABLISHED)

FACE NONE (BARE)

BOTTOM MAINLY BARE, SOME SHRUBS (LOCALLY)

10. STRUCTURES (buildings, walls, fences, sewers, roads, stairs, decks, towers,)

TOP
FACE } NONE
BOTTOM

11. EROSION FEATURES (scour, undercutting, bare areas, piping, rills, gully)

TOP SCOUR, DEEPLY SEATED EROSION NEAR TOP OF SLOPE

FACE } ACTIVE EROSION
BOTTOM } SLOPE TOE CLOSE TO THE LEVEL OF STREAM COURSE IS LIKELY ERODED.

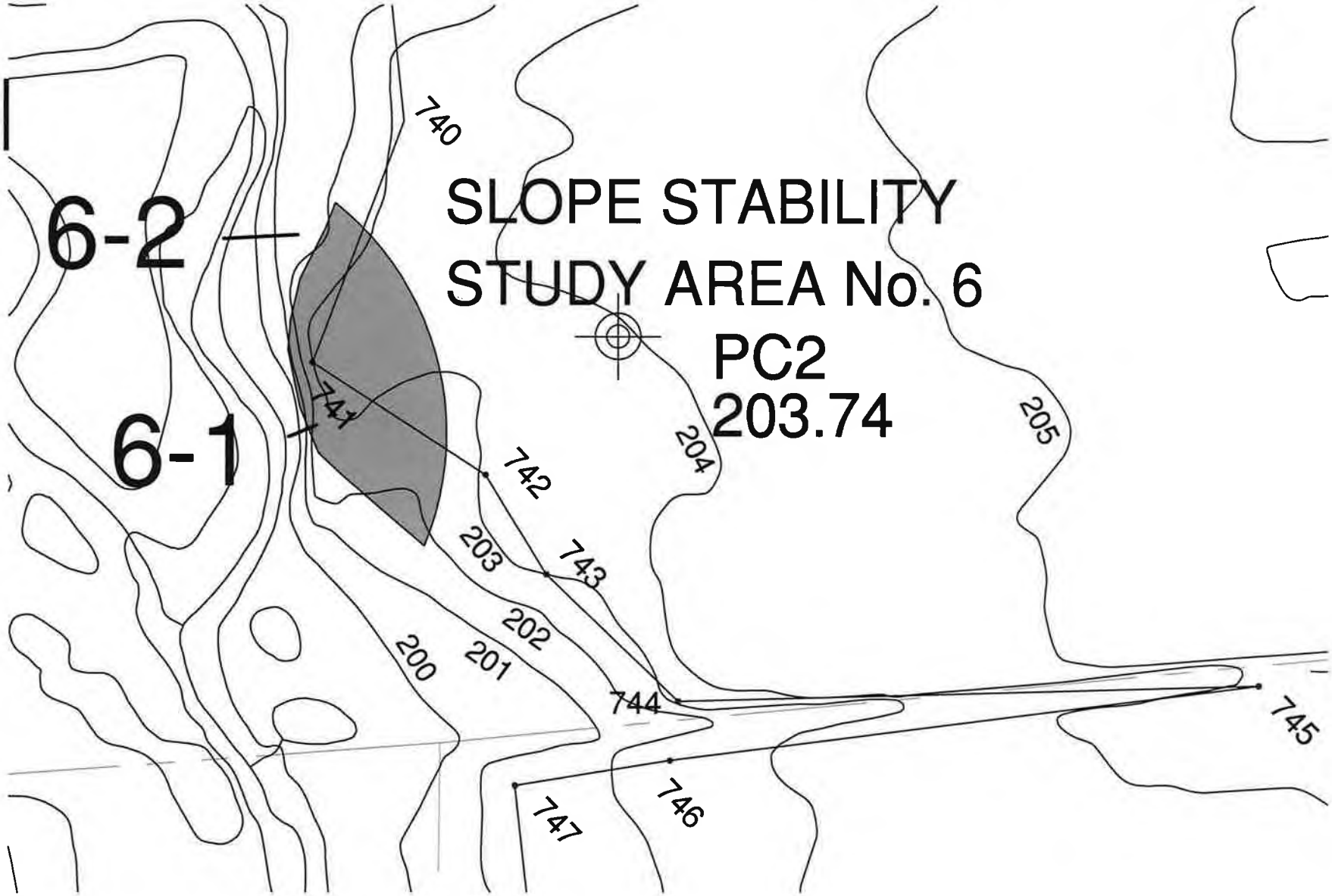
12. SLOPE SLIDE FEATURES (tension cracks, scarps, slumps, bulges, grabens, ridges, bent trees)

TOP
FACE } NONE
BOTTOM

13. PLAN SKETCH OF SLOPE

14. PROFILE SKETCH OF SLOPE

REFER TO CROSS SECTION


SLOPE STABILITY
STUDY AREA No. 6
PC2
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6-2
6-1
740
741
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743
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202
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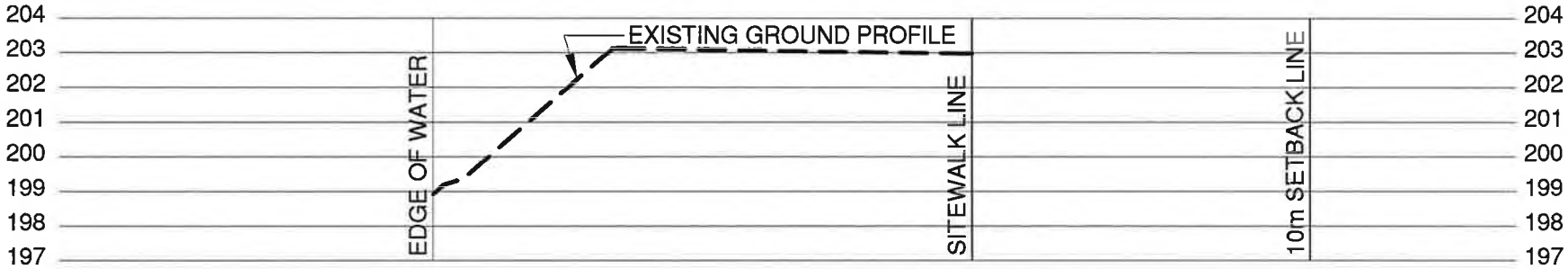
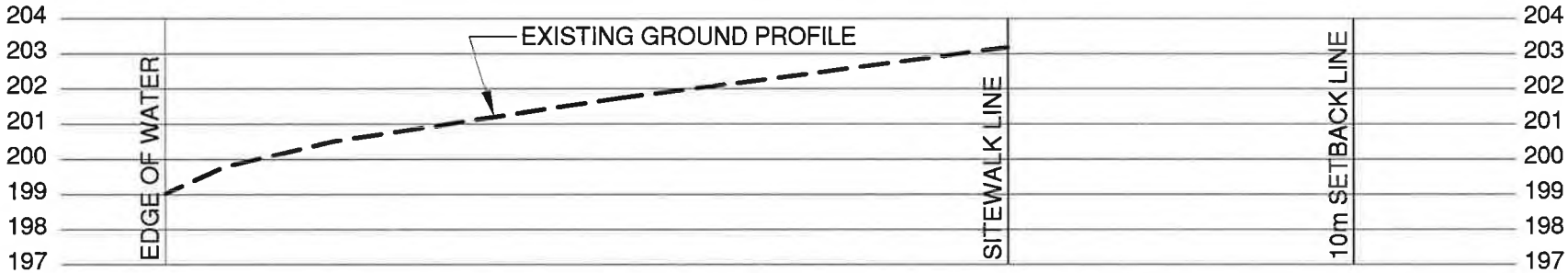


SECTION 6-1

1:250

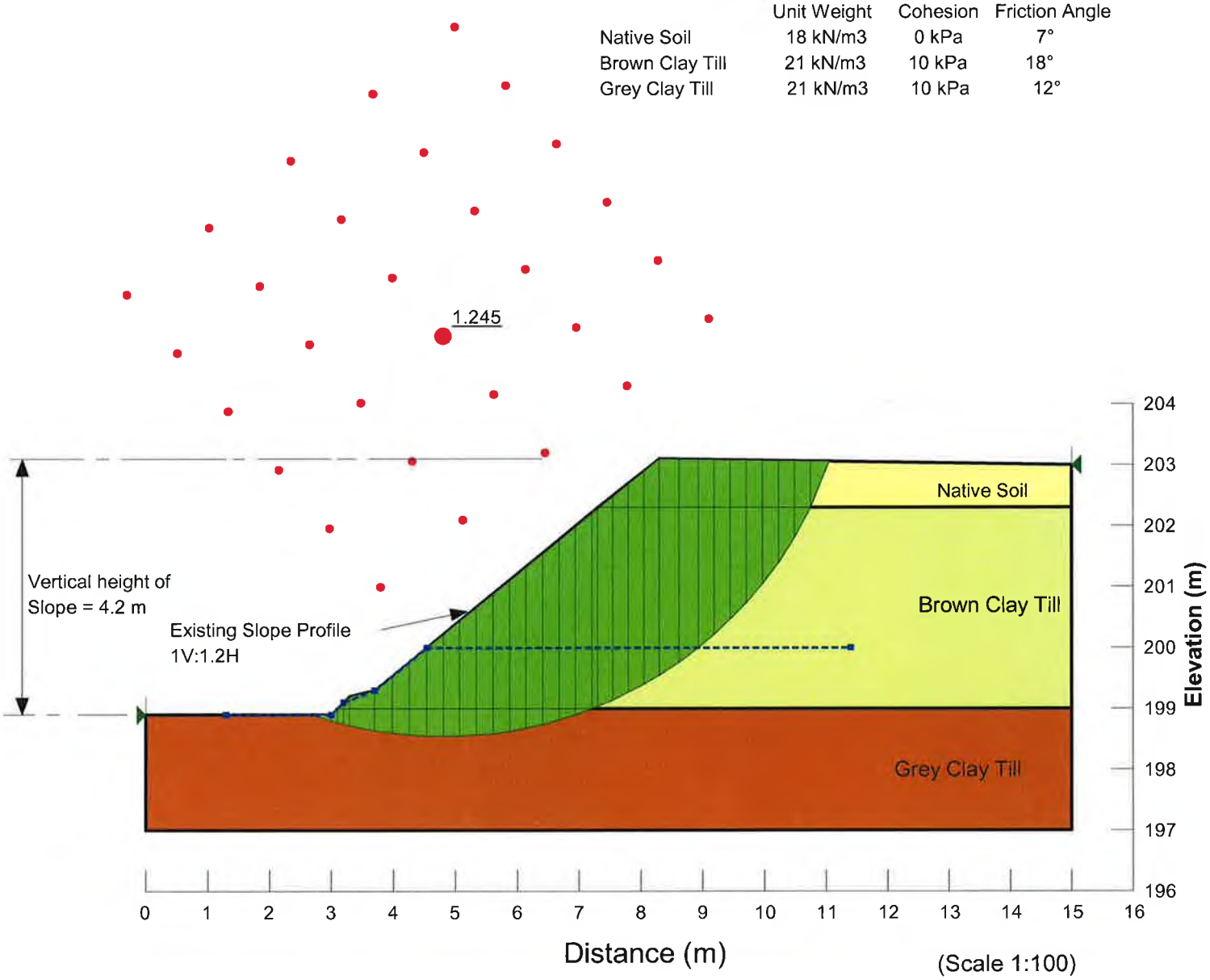


SECTION 6-2

1:250

Material Properties:

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	7°
Brown Clay Till	21 kN/m3	10 kPa	18°
Grey Clay Till	21 kN/m3	10 kPa	12°

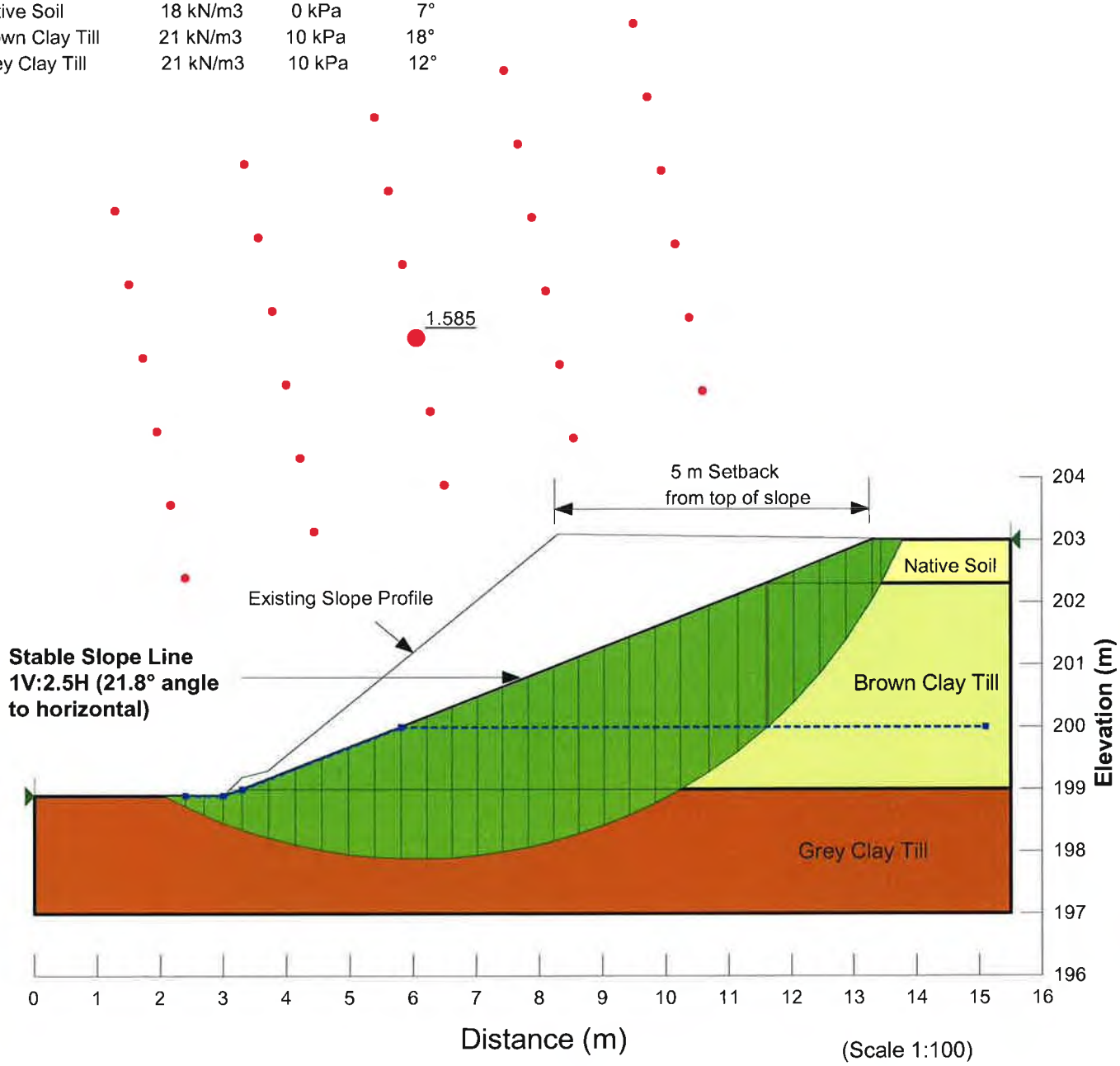


Slope No. 6: Section 6-1

Drawing No. 9-1: Stability Analysis Result of Existing Slope

Material Properties:

	Unit Weight	Cohesion	Friction Angle
Native Soil	18 kN/m3	0 kPa	7°
Brown Clay Till	21 kN/m3	10 kPa	18°
Grey Clay Till	21 kN/m3	10 kPa	12°



Slope No. 6: Section 6-1

Drawing No. 9-2: Stability Analysis Result for Stable Slope Line

APPENDIX B:

GROUNDWATER MONITORING

Figure A-1: Log of Borehole P4 (monitor well MW-4)

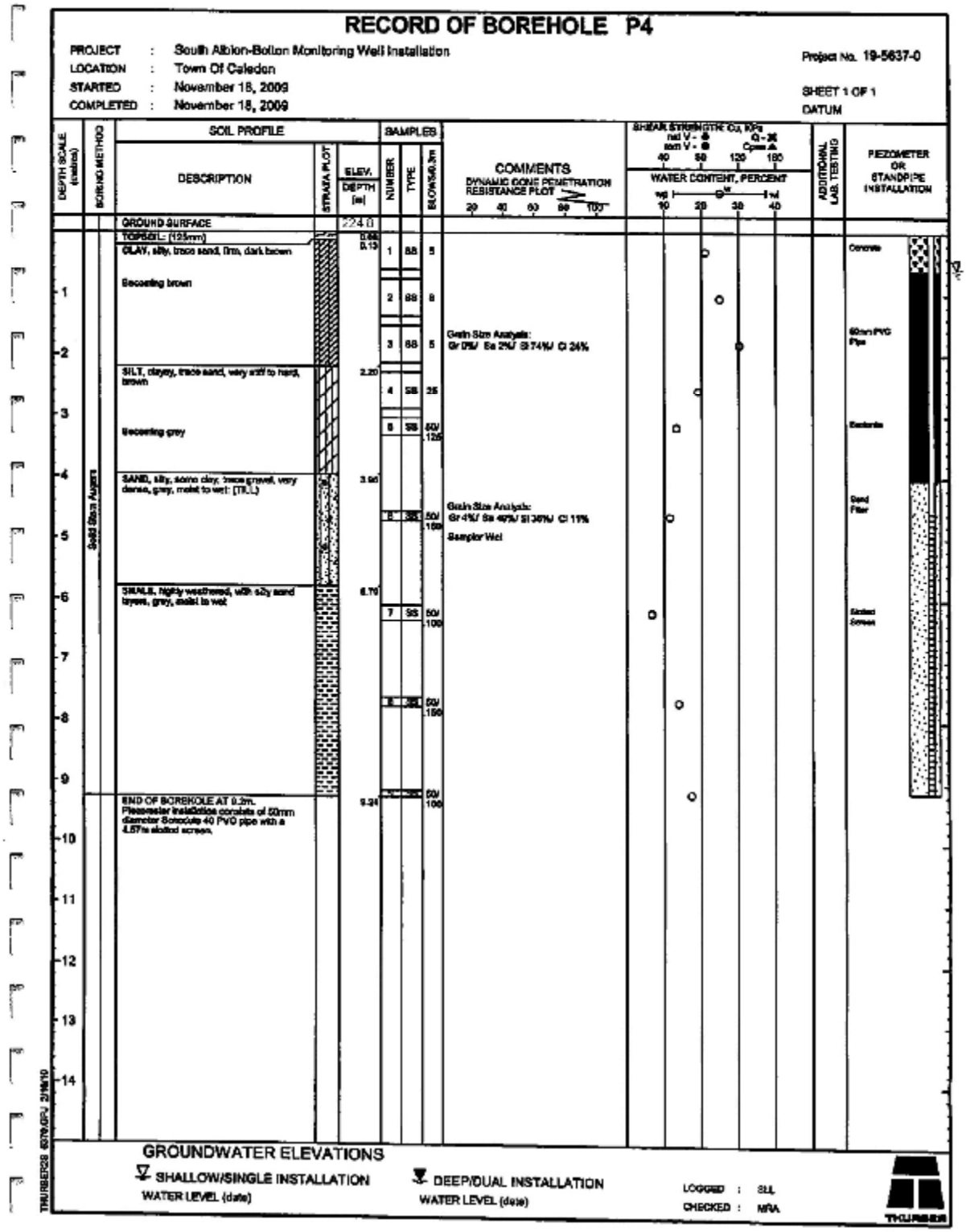


Table A-1: Piezometer Water Levels

Piezometer	Location	May 22, 2007	July 4, 2007	Sept. 28, 2007
1A - streambed	Gore Tributary at 10260 Gore Road	Losing stream (40 cm below surface water)	Losing stream (30 cm below surface water)	Stream & piezometer dry
1B - streambank		Dry	Dry	Dry
2A - streambed	Clarkway Tributary, north of Castlemore Road	Losing stream (80 cm below surface water)	Losing stream (54 cm below surface water	Stream & piezometer dry
2B- streambank		Losing stream (30 cm below surface water)	Dry	Dry
3A - streambed	Rainbow Creek, south of Mayfield Road	Stream & piezometer dry	Stream & piezometer dry	Stream & piezometer dry
3B - streambank		Losing stream (65 cm below creek bed)	Dry	Dry

Table A-2: Hydraulic Conductivity of Shale Bedrock in MW-4 (Mayfield Road)

Monitor Well Number	Area	Screen + sand (metres bgs)	Formation	Hydraulic Conductivity (m/sec)
MW-4	North of Mayfield Road	4.0-9.2	Interface of Halton Till and into shale bedrock	1.5 x 10-8

Table A-3: Metals in Groundwater

Parameter	Units	10260 The Gore Rd. 30 August, 2010	10260 The Gore Rd. 12 December, 2010	10260 The Gore Rd. 3 May, 2011	10260 The Gore Rd. 27 July, 2011	10260 The Gore Rd. Duplicate 27 July, 2011	RDL	O. Reg 169/03
Aluminum (Al)	ug/L	ND	ND	ND	ND	ND	5	-
Antimony Sb)	ug/L	ND	ND	ND	ND	ND	0.5	6
Arsenic (As)	ug/L	ND	ND	2	2	2	1	25
Barium (Ba)	ug/L	61	76	56	56	54	5	1000
Beryllium Be)	ug/L	ND	ND	ND	ND	ND	0.5	-
Boron (B)	ug/L	950	120	2200	2200	2300	10	5000
Cadmium Cd)	ug/L	ND	ND	ND	ND	ND	0.1	5
Calcium (Ca)	ug/L	210000	150000	210000	210000	200000	200	-
Chromium (Cr)	ug/L	ND	ND	ND	ND	ND	5	50
Cobalt (Co)	ug/L	3.4	ND	ND	ND	ND	0.5	-
Copper (Cu)	ug/L	1	8	ND	ND	ND	1	-
Iron (Fe)	ug/L	ND	ND	ND	ND	ND	100	-
Lead (Pb)	ug/L	ND	ND	1.0	1.0	1.1	0.5	10
Magnesium (Mg)	ug/L	78000	55000	90000	90000	87000	50	-
Manganese (Mn)	ug/L	2200	3	190	190	180	2	-
Molybdenum (Mo)	ug/L	ND	ND	ND	ND	ND	1	-
Nickel (Ni)	ug/L	9	ND	ND	ND	ND	1	-
Phosphorus (P)	ug/L	ND	ND	ND	ND	ND	100	-
Potassium (K)	ug/L	30000	13000	44000	44000	42000	200	-
Selenium (Se)	ug/L	ND	ND	ND	ND	ND	2	10
Silicon (Si)	ug/L	9900	7400	2000	2000	2000	50	-
Silver (Ag)	ug/L	ND	ND	ND	ND	ND	0.1	1.5
Sodium (Na)	ug/L	420000	73000	1100000	1100000	1100000	100	-
Strontium (Sr)	ug/L	6900	690	16000	16000	16000	1	-
Thallium (Tl)	ug/L	ND	ND	ND	ND	ND	0.05	-
Titanium (Ti)	ug/L	ND	ND	ND	ND	ND	5	-
Uranium (U)	ug/L	0.7	2.2	ND	ND	ND	0.1	20
Vanadium (V)	ug/L	ND	ND	ND	ND	ND	1	-
Zinc (Zn)	ug/L	14	ND	ND	11	11	5	-

Table A-3: Metals in Groundwater

Parameter	Units	10150 The Gore Rd. 30 August, 2010	10150 The Gore Rd. Duplicate 30 August, 2010	10150 The Gore Rd. 12 December, 2010	10150 The Gore Rd. 3 May, 2011	10150 The Gore Rd. 27 July, 2011	RDL	O. Reg 169/03
Aluminum (Al)	ug/L	ND	ND	ND	ND	ND	5	-
Antimony Sb)	ug/L	ND	0.5	ND	ND	ND	0.5	6
Arsenic (As)	ug/L	4	4	4	2	3	1	25
Barium (Ba)	ug/L	93	91	93	52	68	5	1000
Beryllium Be)	ug/L	ND	ND	ND	ND	ND	0.5	-
Boron (B)	ug/L	540	540	540	260	390	10	5000
Cadmium Cd)	ug/L	ND	ND	ND	ND	ND	0.1	5
Calcium (Ca)	ug/L	130000	130000	130000	100000	100000	200	-
Chromium (Cr)	ug/L	ND	ND	ND	ND	ND	5	50
Cobalt (Co)	ug/L	ND	ND	ND	ND	ND	0.5	-
Copper (Cu)	ug/L	10	9	10	6	8	1	-
Iron (Fe)	ug/L	ND	ND	ND	ND	ND	100	-
Lead (Pb)	ug/L	ND	ND	ND	ND	ND	0.5	10
Magnesium (Mg)	ug/L	95000	94000	95000	63000	71000	50	-
Manganese (Mn)	ug/L	68	68	68	ND	38	2	-
Molybdenum (Mo)	ug/L	2	3	2	3	2.2	1	-
Nickel (Ni)	ug/L	2	2	2	ND	ND	1	-
Phosphorus (P)	ug/L	480	470	480	710	440	100	-
Potassium (K)	ug/L	76000	74000	76000	55000	58000	200	-
Selenium (Se)	ug/L	3	2	3	3	ND	2	10
Silicon (Si)	ug/L	11000	10000	11000	8700	9600	50	-
Silver (Ag)	ug/L	ND	ND	ND	ND	ND	0.1	1.5
Sodium (Na)	ug/L	32000	31000	32000	20000	27000	100	-
Strontium (Sr)	ug/L	780	770	780	400	560	1	-
Thallium (Tl)	ug/L	ND	ND	ND	ND	ND	0.05	-
Titanium (Ti)	ug/L	ND	ND	ND	ND	ND	5	-
Uranium (U)	ug/L	7.1	7.3	7.1	5.3	5.6	0.1	20
Vanadium (V)	ug/L	3	2	3	2	1.8	1	-
Zinc (Zn)	ug/L	40	40	40	23	29	5	-

Table A-3: Metals in Groundwater

Parameter	Units	11207 Reg. Rd. 50 30 August, 2010	11207 Reg. Rd. 50 12 December, 2010	11207 Reg. Rd. 50 3 May, 2011	11207 Reg. Rd. 50 27 July, 2011	Mayfield Rd. MW-4 27 July, 2011	RDL	O. Reg 169/03
Aluminum (Al)	ug/L	ND	7	ND	ND	ND	5	-
Antimony Sb)	ug/L	ND	ND	ND	ND	0.6	0.5	6
Arsenic (As)	ug/L	1	ND	1	ND	1	1	25
Barium (Ba)	ug/L	64	72	66	71	44	5	1000
Beryllium Be)	ug/L	ND	ND	ND	ND	ND	0.5	-
Boron (B)	ug/L	27	21	20	22	510	10	5000
Cadmium Cd)	ug/L	ND	0.4	0.3	0.2	ND	0.1	5
Calcium (Ca)	ug/L	75000	78000	78000	79000	54000	200	-
Chromium (Cr)	ug/L	ND	ND	ND	ND	ND	5	50
Cobalt (Co)	ug/L	ND	ND	ND	ND	ND	0.5	-
Copper (Cu)	ug/L	ND	5	5	1	1	1	-
Iron (Fe)	ug/L	ND	ND	ND	ND	ND	100	-
Lead (Pb)	ug/L	ND	ND	ND	ND	ND	0.5	10
Magnesium (Mg)	ug/L	7200	7900	7800	7400	45000	50	-
Manganese (Mn)	ug/L	160	ND	7	130	36	2	-
Molybdenum (Mo)	ug/L	ND	ND	ND	ND	8.4	1	-
Nickel (Ni)	ug/L	ND	ND	ND	ND	ND	1	-
Phosphorus (P)	ug/L	ND	ND	120	ND	ND	100	-
Potassium (K)	ug/L	7000	6700	5600	5600	13000	200	-
Selenium (Se)	ug/L	ND	ND	ND	ND	ND	2	10
Silicon (Si)	ug/L	3500	3900	3300	3600	7700	50	-
Silver (Ag)	ug/L	ND	ND	ND	ND	ND	0.1	1.5
Sodium (Na)	ug/L	15000	15000	13000	12000	43000	100	-
Strontium (Sr)	ug/L	170	190	170	180	1800	1	-
Thallium (Tl)	ug/L	ND	ND	ND	ND	ND	0.05	-
Titanium (Ti)	ug/L	ND	ND	ND	ND	ND	5	-
Uranium (U)	ug/L	0.3	0.3	0.3	0.3	2.3	0.1	20
Vanadium (V)	ug/L	ND	2	3	0.7	0.6	1	-
Zinc (Zn)	ug/L	11	180	170	160	ND	5	-

Table A-4: Calculated Parameters in Groundwater

Parameter	Units	10260 The Gore Rd. 30 August, 2010	10260 The Gore Rd. 12 December, 2010	10260 The Gore Rd. 3 May, 2011	10260 The Gore Rd. 27 July, 2011	10260 The Gore Rd. Duplicate 27 July, 2011	RDL	O. Reg 169/03
Calculated Parameters								
Anion Sum	me/L	35.1	14.7	9.19	64.8	63.9	N/A	-
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	354	408	362	62	62	1	-
Calculated TDS	mg/L	2040	801	501	3830	3760	1	-
Carb. Alkalinity (calc. as CaCO3)	mg/L	2	2	3	ND	ND	1	-
Cation Sum	me/L	36.1	15.5	10.2	67.0	64.9	N/A	-
Hardness (CaCO3)	mg/L	860	600	460	900	850	1	-
Ion Balance (% Difference)	%	1.52	2.53	5.25	1.69	0.730	N/A	-
Langelier Index (@ 20C)	N/A	1.09	1.00	1.17	0.228	0.210	N/A	-
Langelier Index (@ 4C)	N/A	0.842	0.757	0.924	-0.0130	-0.0320	N/A	-
Saturation pH (@ 20C)	N/A	6.77	6.74	6.77	7.63	7.65	N/A	-
Saturation pH (@ 4C)	N/A	7.01	6.98	7.02	7.87	7.89	N/A	-
Inorganics								
Total Ammonia-N	mg/L	2.6	ND	ND	8.1	7.9	0.05	-
Conductivity	umho/cm	3640	1330	866	6870	6860	1	-
Fluoride (F-)	mg/L	0.1	0.2	0.2	0.1	0.1	0.1	1.5
Dissolved Organic Carbon	mg/L	2.6	3.9	4.0	0.8	0.8	0.2	-
Orthophosphate (P)	mg/L	0.01	0.01	0.02	ND	ND	0.01	-
pH	pH	7.9	7.74	7.94	7.86	7.86	N/A	-
Total Phosphorus	mg/L	<0.002	0.025	0.044	0.012	0.031	0.01	-
Dissolved Sulphate (SO4)	mg/L	260	56	39	350	350	1	-
Alkalinity (Total as CaCO3)	mg/L	356	410	365	62	63	1	-
Dissolved Chloride (Cl)	mg/L	800	190	38	2000	2000	1	-
Nitrite (N)	mg/L	0.04	ND	ND	ND	ND	0.01	1
Nitrate (N)	mg/L	<0.1	0.9	ND	ND	ND	1	10
Microbiological								
Background	CFU/100mL	60	330	70	320	200	10	-
Total Coliforms	CFU/100mL	30	70	10	<10	<10	10	No detection
Escherichia coli	CFU/100mL	<10	<10	<10	<10	<10	10	

Table A-4: Calculated Parameters in Groundwater

Parameter	Units	10150 The Gore Rd. 30 August, 2010	10150 The Gore Rd. Duplicate 30 August, 2010	10150 The Gore Rd. 12 December, 2010	10150 The Gore Rd. 3 May, 2011	10150 The Gore Rd. 27 July, 2011	RDL	O. Reg 169/03
Calculated Parameters								
Anion Sum	me/L	17.1	17.1	18.2	12.1	15.0	N/A	-
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	535	532	518	387	456	1	-
Calculated TDS	mg/L	987	984	1060	704	834	1	-
Carb. Alkalinity (calc. as CaCO3)	mg/L	6	6	4	4	4	1	-
Cation Sum	me/L	17.6	17.4	18.7	12.6	13.6	N/A	-
Hardness (CaCO3)	mg/L	710	710	770	520	550	1	-
Ion Balance (% Difference)	%	1.63	0.870	1.35	2.39	4.71	N/A	-
Langelier Index (@ 20C)	N/A	1.38	1.37	1.22	1.13	1.07	N/A	-
Langelier Index (@ 4C)	N/A	1.14	1.12	0.974	0.885	0.825	N/A	-
Saturation pH (@ 20C)	N/A	6.70	6.71	6.69	6.89	6.85	N/A	-
Saturation pH (@ 4C)	N/A	6.95	6.96	6.93	7.14	7.10	N/A	-
Inorganics								
Total Ammonia-N	mg/L	0.25	0.12	ND	ND	0.06	0.05	-
Conductivity	umho/cm	1520	1520	1640	1140	1350	1	-
Fluoride (F-)	mg/L	0.6	0.6	0.6	0.7	0.6	0.1	1.5
Dissolved Organic Carbon	mg/L	12.5	12.4	13.8	11.1	11.3	0.2	-
Orthophosphate (P)	mg/L	0.46	0.46	0.47	0.60	0.40	0.01	-
pH	pH	8.1	8.1	7.91	8.03	7.93	N/A	-
Total Phosphorus	mg/L	0.47	0.49	0.50	0.65	0.41	0.01	-
Dissolved Sulphate (SO4)	mg/L	170	180	230	100	160	1	-
Alkalinity (Total as CaCO3)	mg/L	542	538	522	391	460	1	-
Dissolved Chloride (Cl)	mg/L	38	39	48	32	41	1	-
Nitrite (N)	mg/L	0.27	0.27	ND	ND	0.16	0.01	1
Nitrate (N)	mg/L	20	21	23	17	17	1	10
Microbiological								
Background	CFU/100mL	6100	8700	27000	10000	>200000	10	-
Total Coliforms	CFU/100mL	680	700	290	200	780 (1)	10	No detection
Escherichia coli	CFU/100mL	10	<10	<10	10	10	10	

Table A-4: Calculated Parameters in Groundwater

Parameter	Units	11207 Reg. Rd. 50 30 August, 2010	11207 Reg. Rd. 50 12 December, 2010	11207 Reg. Rd. 50 3 May, 2011	11207 Reg. Rd. 50 27 July, 2011	Mayfield Rd. MW-4 27 July, 2011	RDL	O. Reg 169/03
Calculated Parameters								
Anion Sum	me/L	5.10	5.14	5.17	5.72	9.15	N/A	-
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	219	218	220	249	349	1	-
Calculated TDS	mg/L	271	278	274	289	475	1	-
Carb. Alkalinity (calc. as CaCO3)	mg/L	2	2	2	2	2	1	-
Cation Sum	me/L	5.22	5.41	5.28	5.23	8.58	N/A	-
Hardness (CaCO3)	mg/L	220	230	230	230	320	1	-
Ion Balance (% Difference)	%	1.12	2.53	1.00	4.42	3.18	N/A	-
Langelier Index (@ 20C)	N/A	0.784	0.743	0.711	0.702	0.668	N/A	-
Langelier Index (@ 4C)	N/A	0.534	0.494	0.461	0.453	0.420	N/A	-
Saturation pH (@ 20C)	N/A	7.19	7.18	7.17	7.12	7.19	N/A	-
Saturation pH (@ 4C)	N/A	7.44	7.43	7.42	7.37	7.43	N/A	-
Inorganics								
Total Ammonia-N	mg/L	0.48	ND	ND	0.24	0.26	0.05	-
Conductivity	umho/cm	486	471	498	543	849	1	-
Fluoride (F-)	mg/L	ND	ND	ND	0.1	0.2	0.1	1.5
Dissolved Organic Carbon	mg/L	2.1	2.1	1.9	2.0	2.7	0.2	-
Orthophosphate (P)	mg/L	0.20	0.05	0.07	0.07	ND	0.01	-
pH	pH	8.0	7.92	7.88	7.82	7.85	N/A	-
Total Phosphorus	mg/L	0.27	0.068	0.10	0.093	0.041	0.01	-
Dissolved Sulphate (SO4)	mg/L	3	6	6	6	66	1	-
Alkalinity (Total as CaCO3)	mg/L	221	220	221	250	352	1	-
Dissolved Chloride (Cl)	mg/L	21	21	21	21	25	1	-
Nitrite (N)	mg/L	0.02	ND	0.02	ND	0.02	0.01	1
Nitrate (N)	mg/L	ND	0.5	0.3	ND	0.3	1	10
Microbiological								
Background	CFU/100 mL	>20000	5100	160	1700	1100	10	-
Total Coliforms	CFU/100 mL	1000 (1)	**10**	**250**	**320**	<10	10	No detection
Escherichia coli	CFU/100 mL	<10	<10	<10	**20**	<10	10	

Figure A-2: Water Level in Monitor Well MW-4 on Mayfield Road

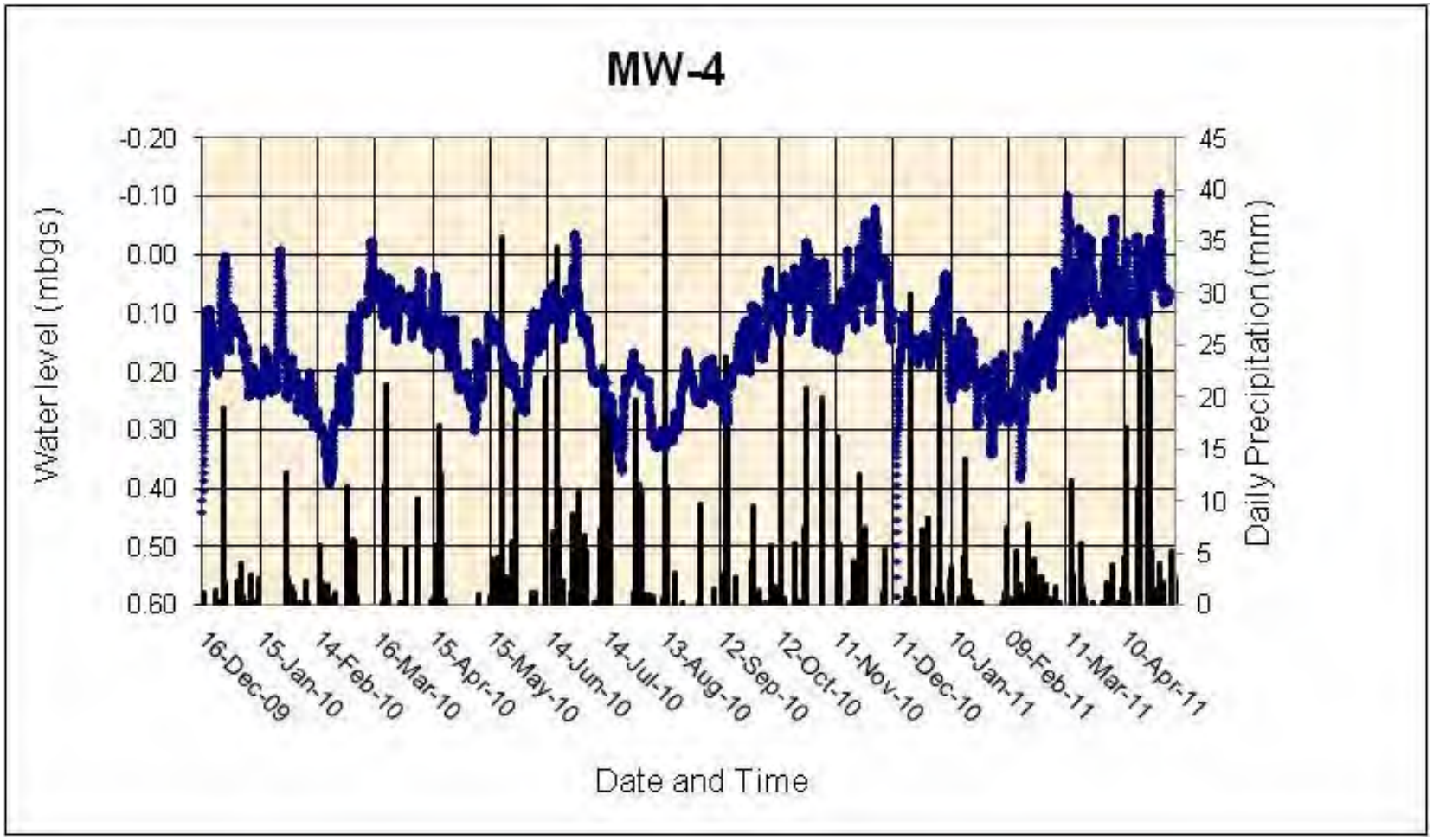


Figure A-3: MW-4 Response to Rainall January 23-29, 2010

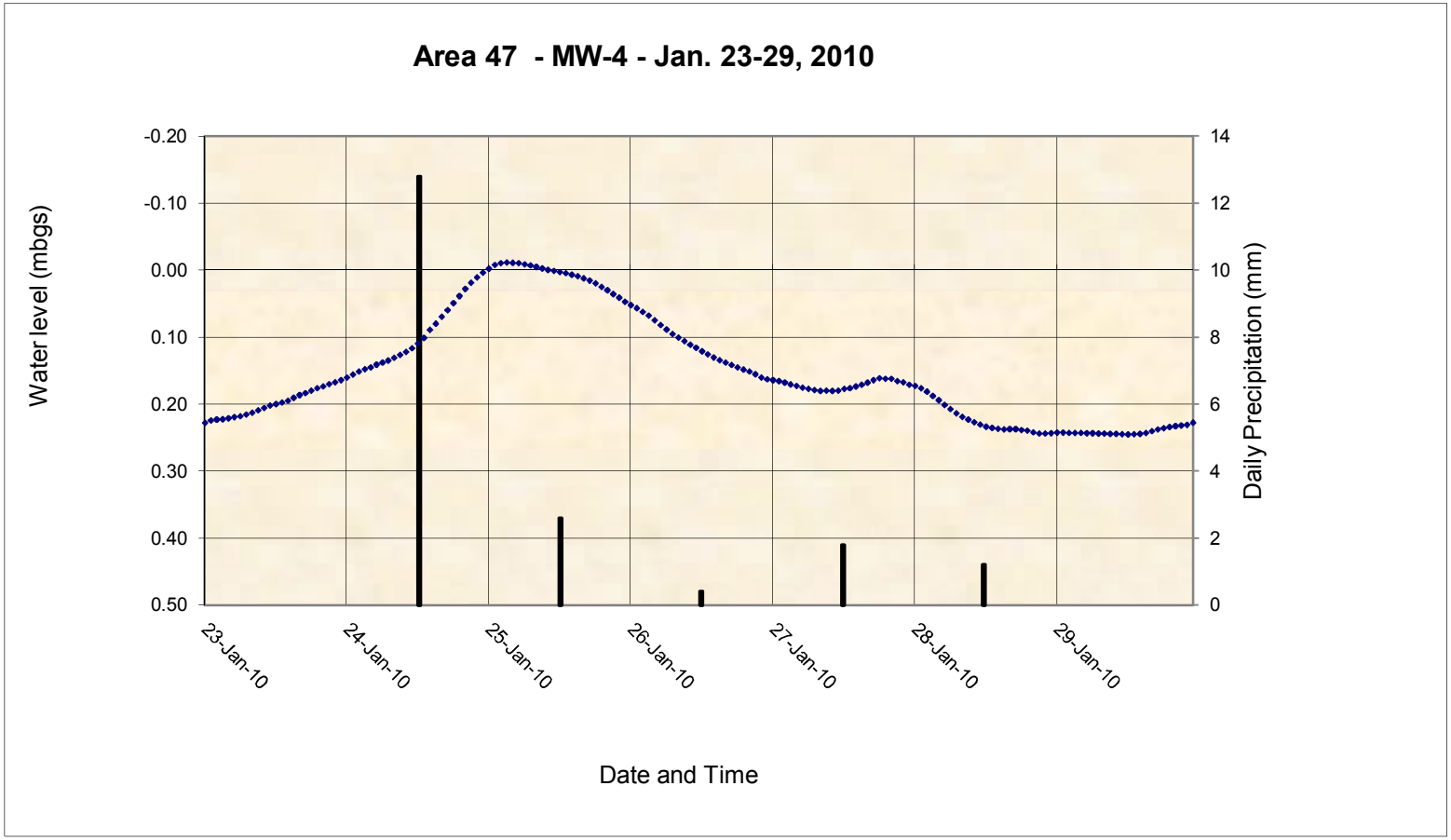


Figure A-4: MW-4 Response to Rainall March 12-18, 2010

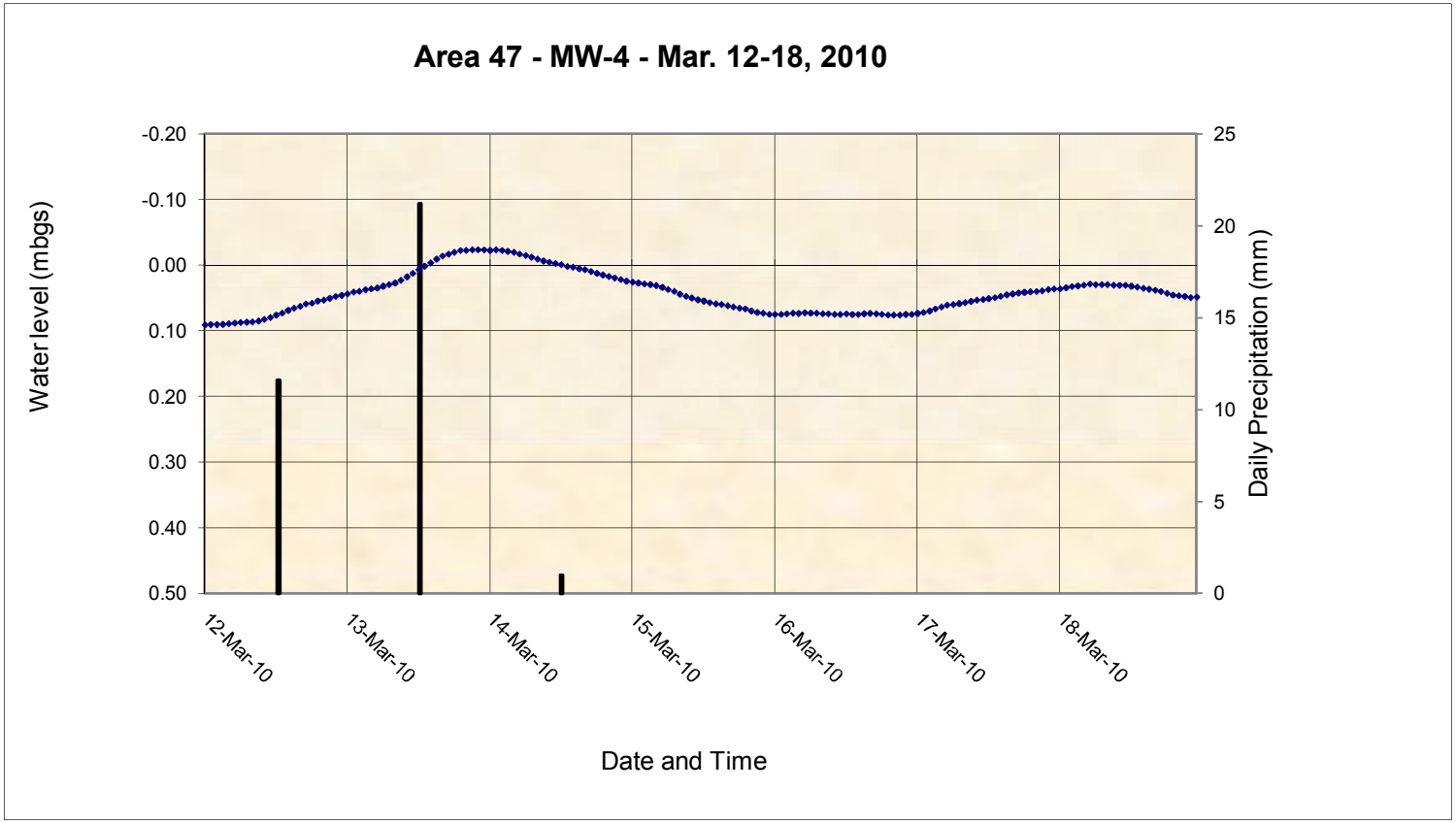


Figure A-5: MW-4 Response to Rainall May 6 - 12, 2010

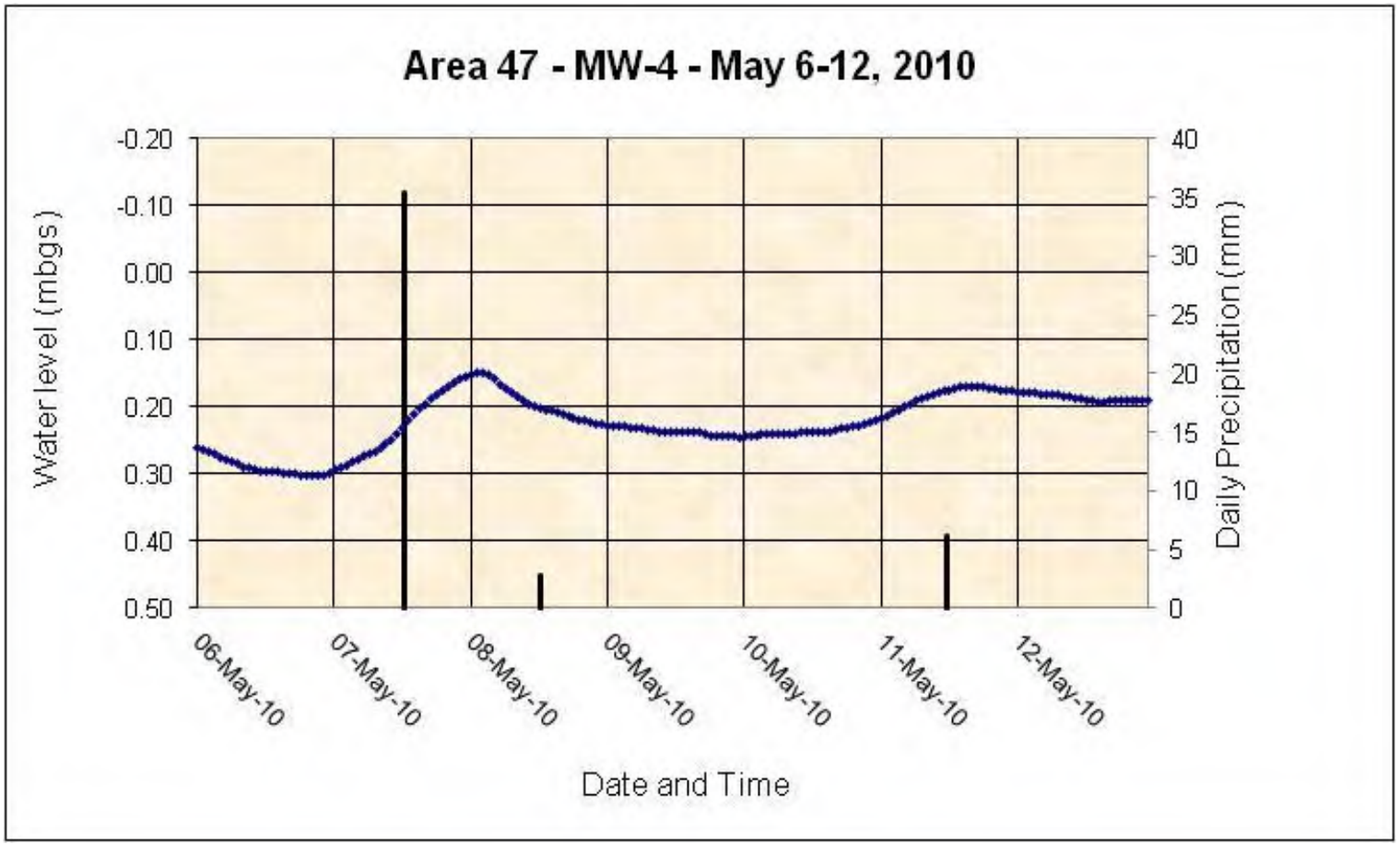


Figure A-6: MW-4 Response to Rainall June 25 – July 1, 2010

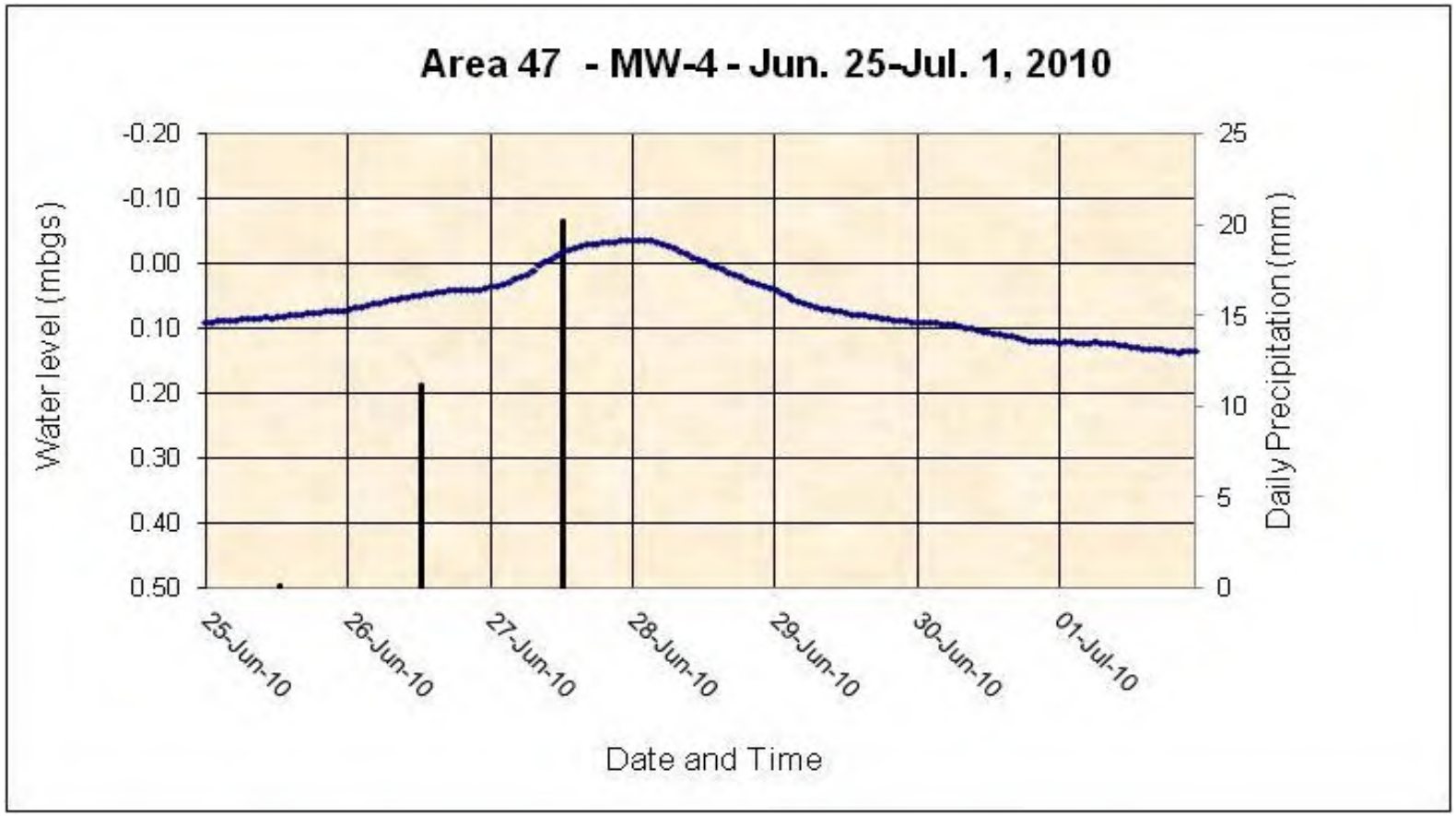


Figure A-7: MW-4 Response to Rainall November 15 - 21, 2010

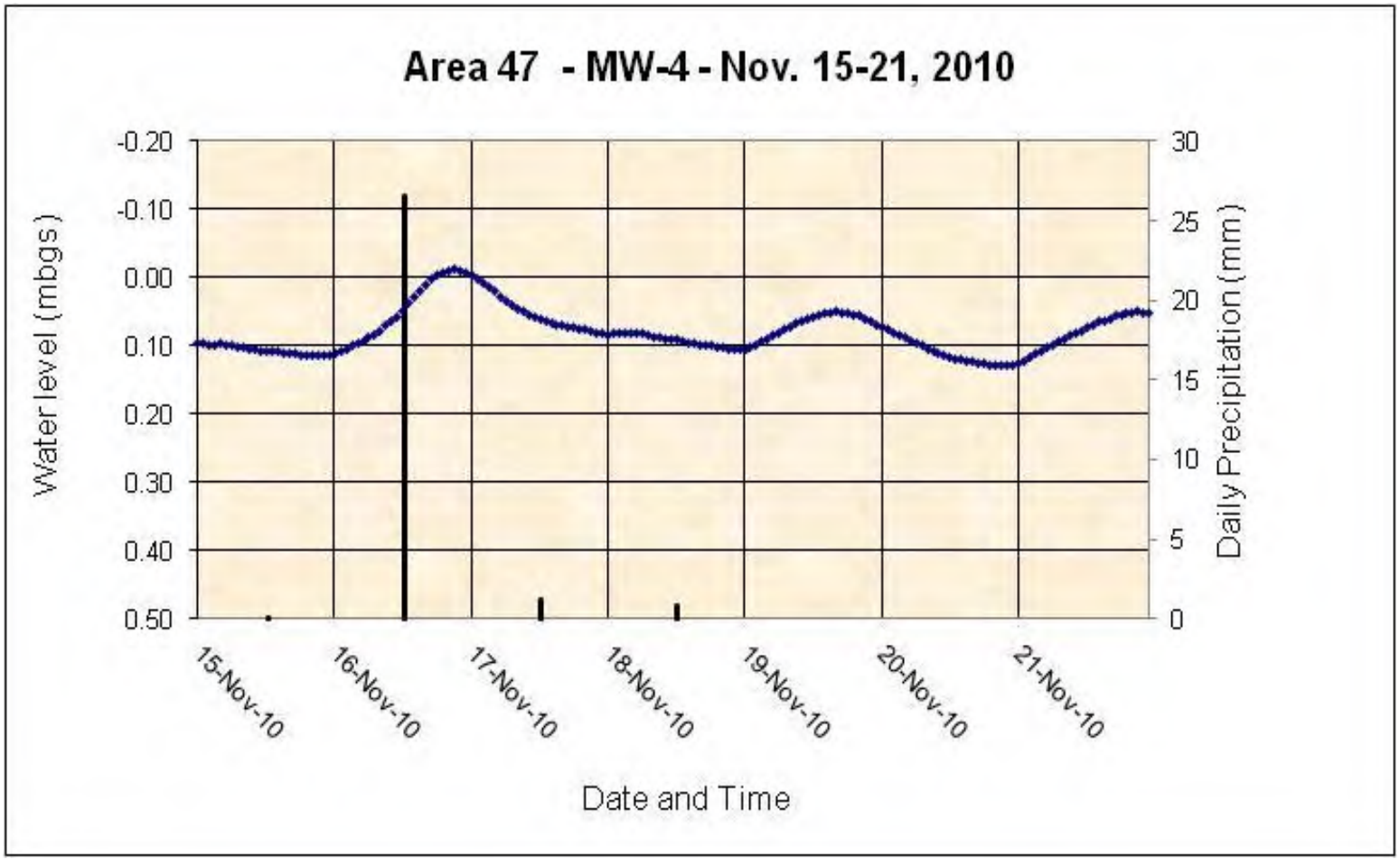


Figure A-8: MW-4 Response to Rainall November 29 – December 5, 2010

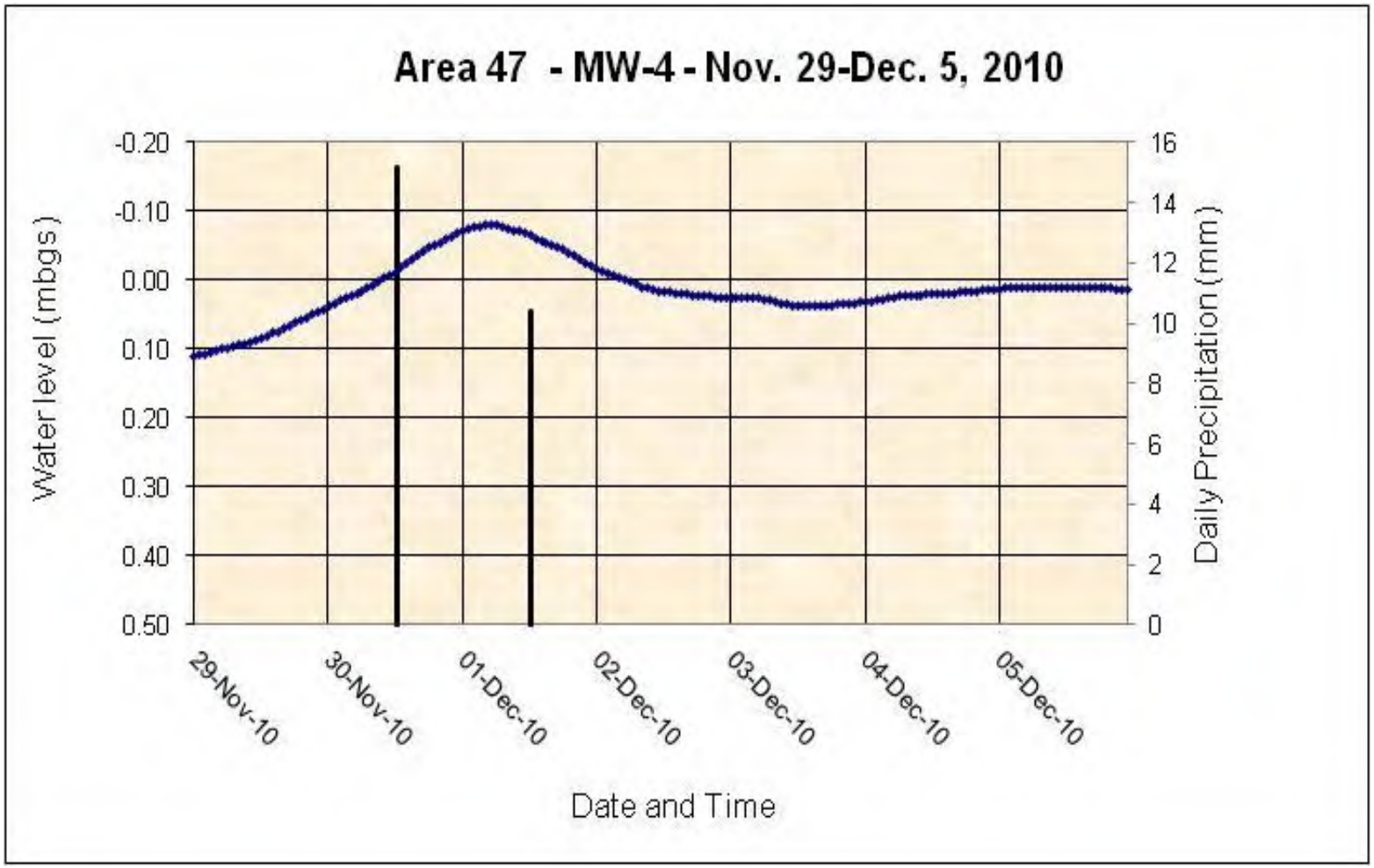


Figure A-9: 3-foot dug well Water Level August 2010 to July 2011

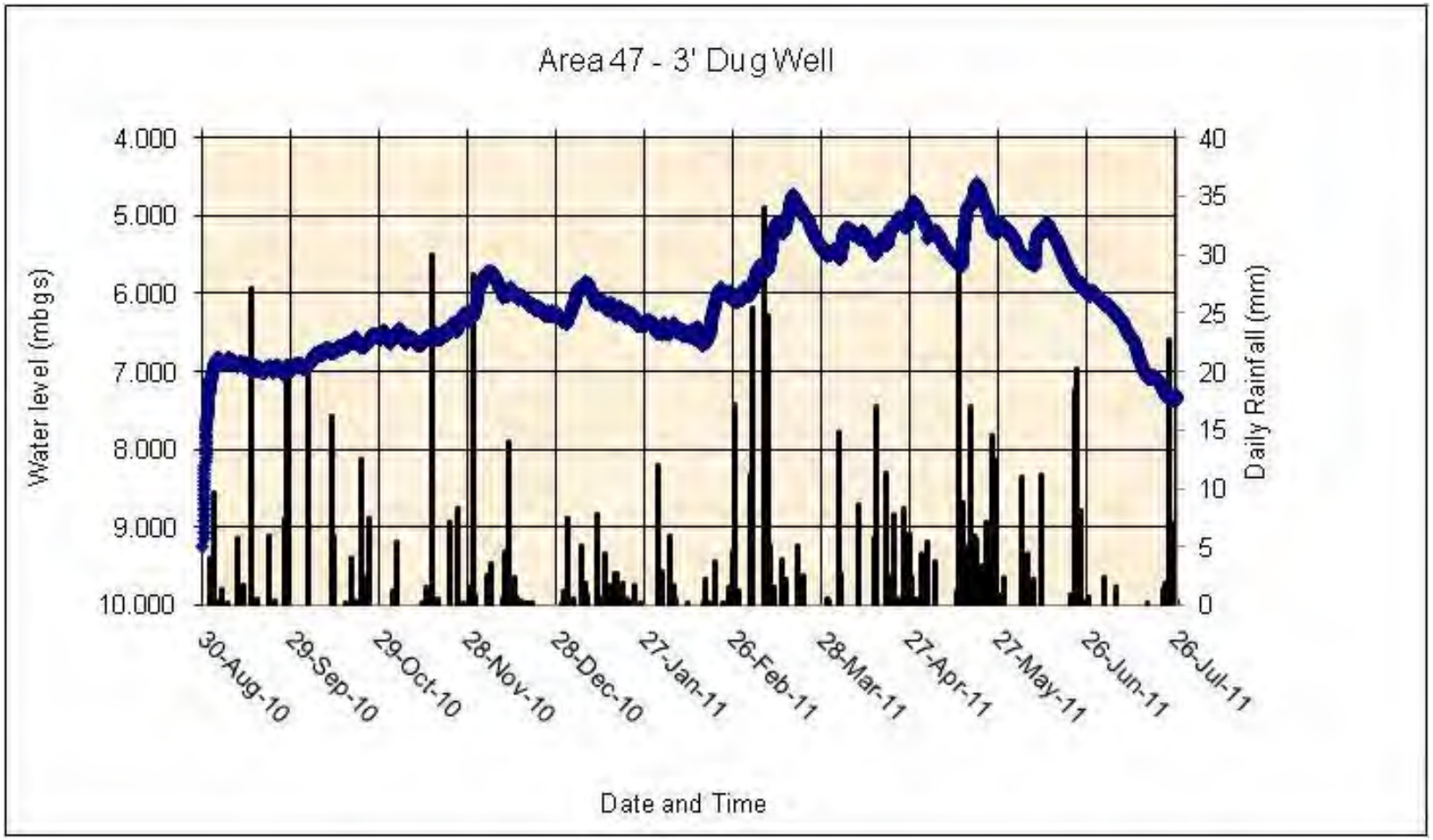


Figure A-10: 3-foot Dug Well Water Level Response to Rainfall May 13 – 19, 2011

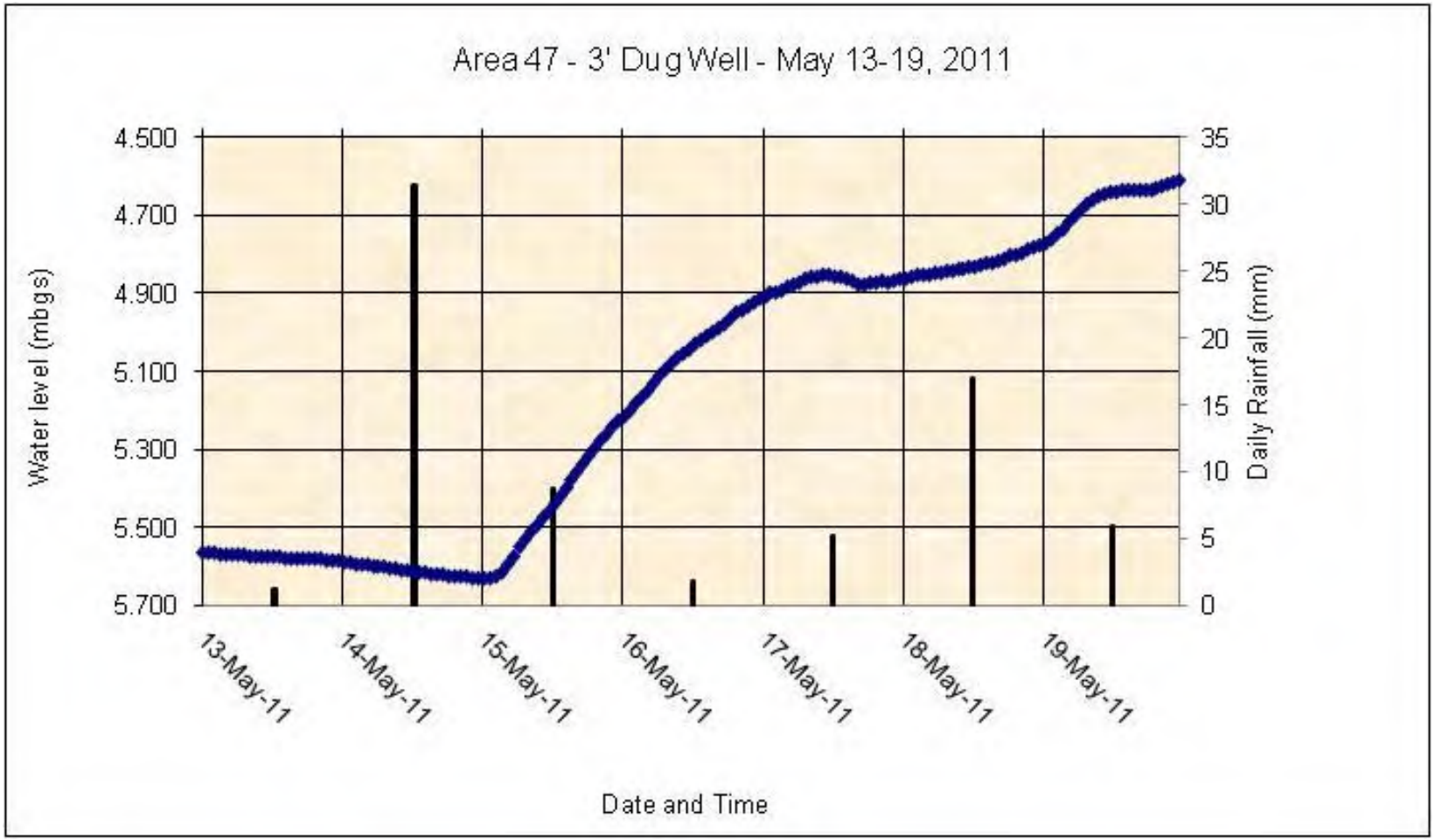


Figure A-11: 3-foot Dug Well Water Level Response to Rainfall March 9 - 15, 2011

Figure A-12: 3-foot Dug Well Water Level Response to Rainfall September 27 – October 2, 2010

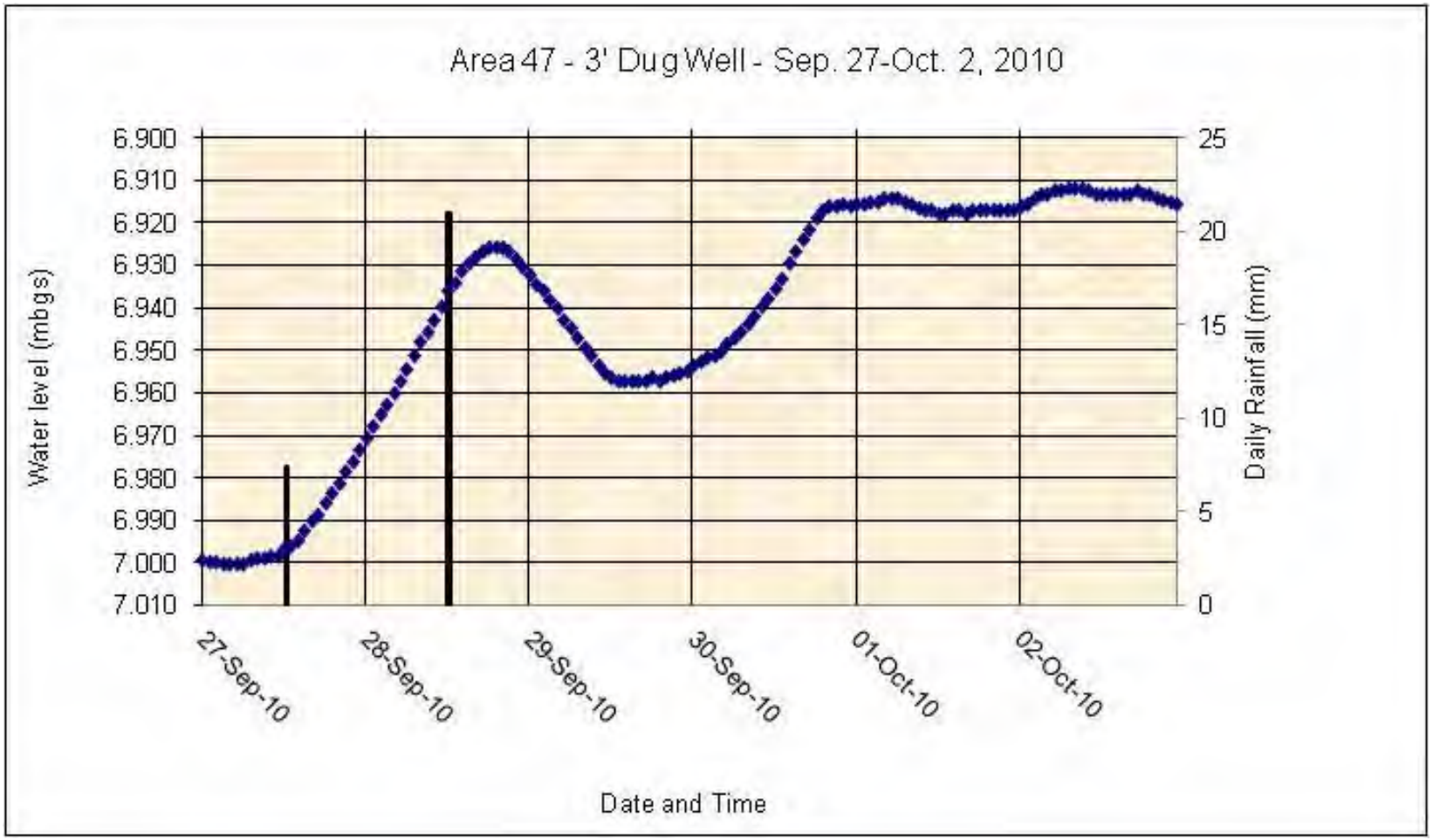


Figure A-13: 3-foot Dug Well Water Level Response to Rainfall November 15 - 21, 2010

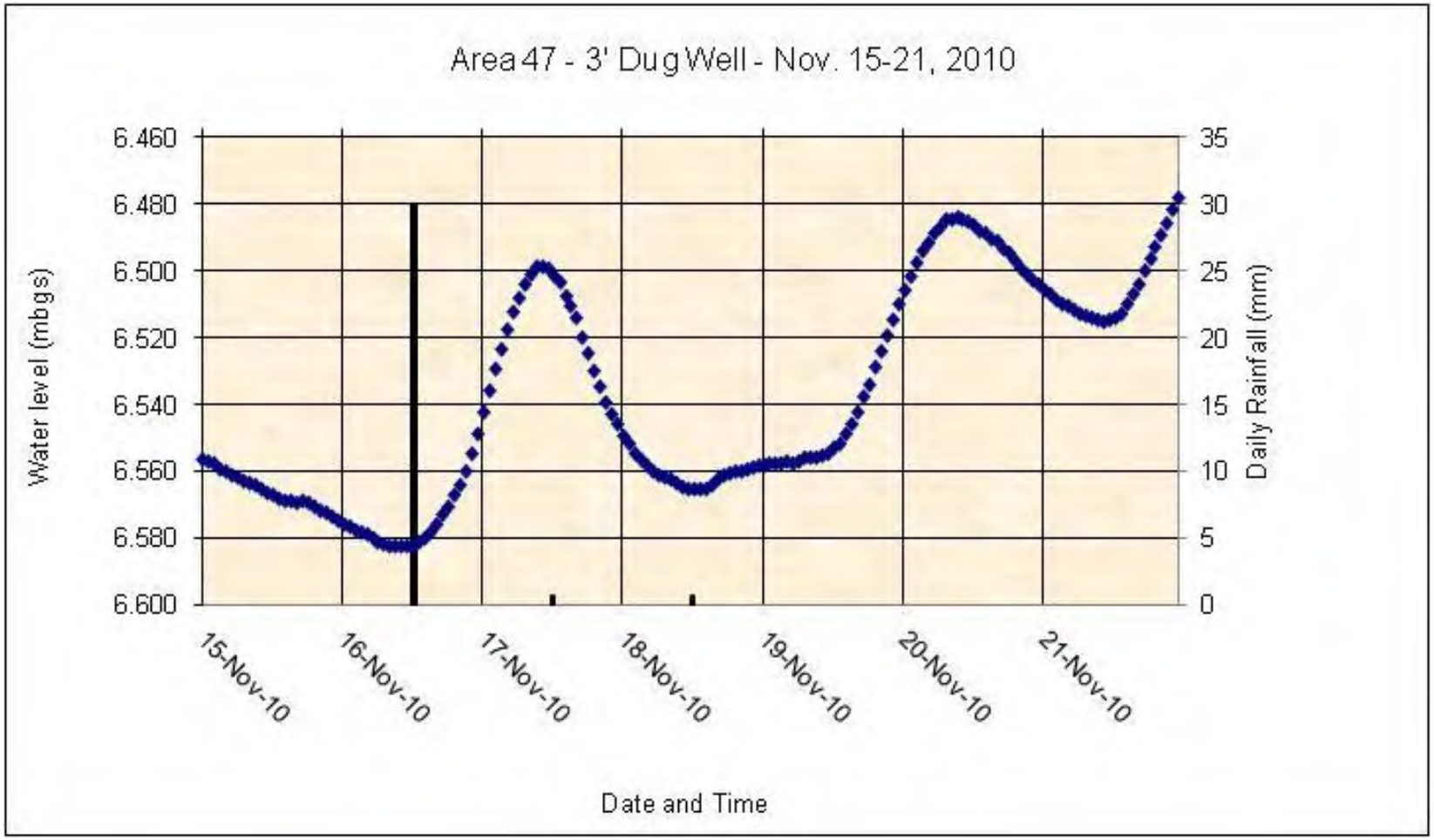


Figure A-14: 3-foot Dug Well Water Level Response to Rainfall November 29 – December 5, 2010

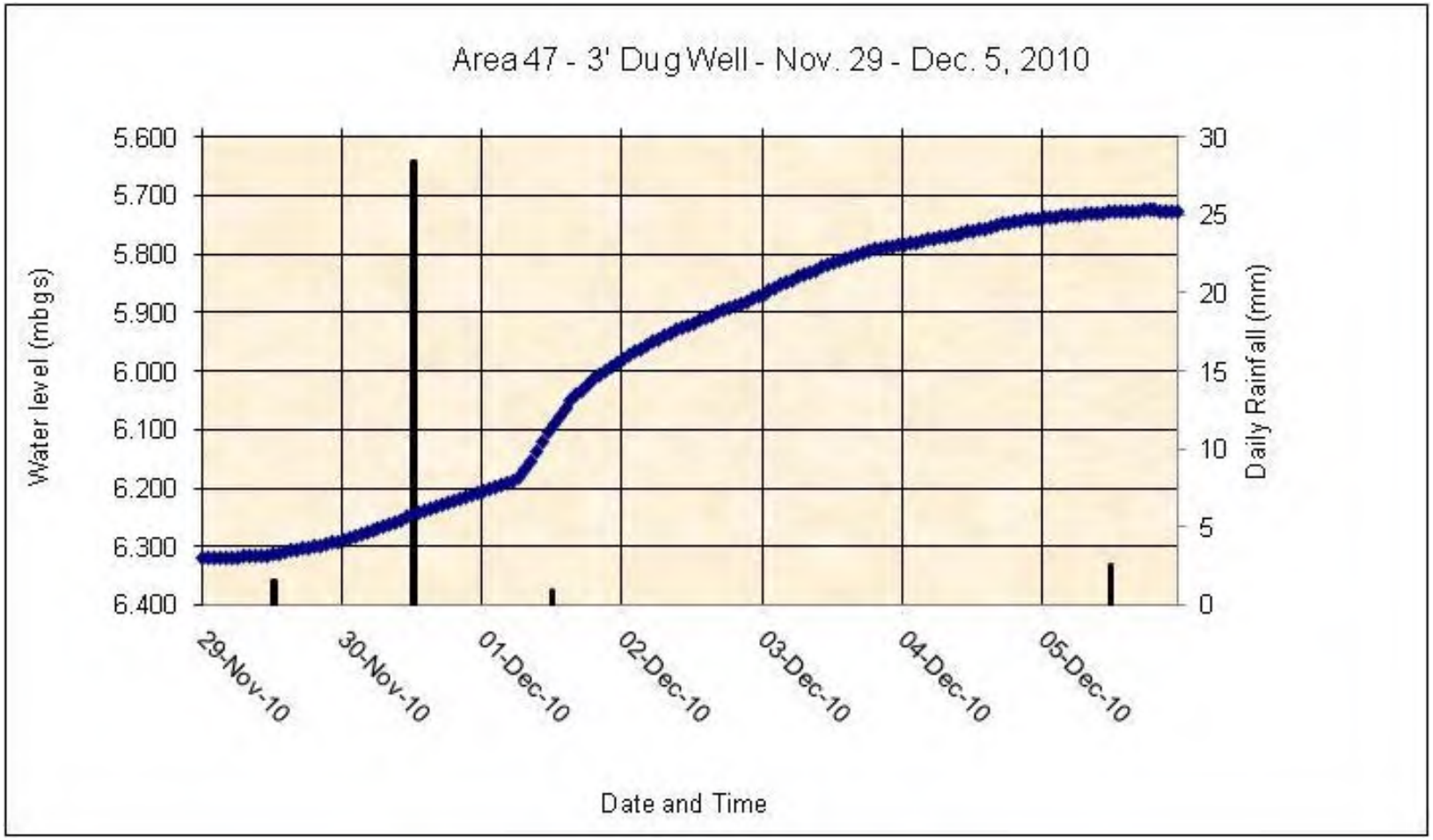


Table A-5: Data from Geotechnical Investigation (AME, 2012)

Borehole and Depth	Description	Saturated Hydraulic Conductivity (K in mm/hour)	K (metre/second)*	Percolation Rate**(minutes/cm)
PC1 – 4.6m	Grey clayey silt	2.29	6.4E-7	262
PC2 – 7.6m	Grey dense clayey silt	0.20	5.5E-8	3000
PC3 – 7.6m	Grey dense sandy silt	3.14	8.7E-7	191
PC4 – 4.6m	Brown clayey silt	1.73	4.8E-7	347
PC5A – 6.1m	Grey clayey silt	1.02	2.8E-7	588
PG1 – 4.6m	Grey sandy silt	11.3	3.1E-6	53
PG2 – 3.1m	Brown clayey silt	2.21	6.1E-7	271
PG4 – 4.6m	Grey sandy silt	3.91	1.1E-6	153
PG5A – 4.6m	Grey gravelly sand	34.2	9.5E-6	17.5
PG6 – 6.1m	Grey sandy silt	7.24	2.0E-6	82.9
PG7 – 6.1m	Grey silt	6.33	1.8E-6	94.8
PG8 – 7.6	Dense sandy silt	2.68	7.4E-7	224
PR1 – 4.6m	Grey clayey silt	2.20	6.1E-7	273
PR2 – 2.3m	Grey silty sand	20.9	5.8E-6	28.7
PR2 – 4.6	Grey sandy silt	2.88	8.0E-7	208
PR3 – 6.1m	Grey silty sand	7.91	2.2E-6	75.8
PR5 – 6.1m	Grey clayey silt	0.16	4.4E-8	3750
PR6 – 4.6m	Grey clayey silt	0.13	3.6E-8	4620
PR7 – 6.1m	Grey sandy silt	1.31	3.6E-7	458
PR8 – 2.3m	Brown clayey silt	1.90	5.3E-7	316
PR9 – 4.6m	Grey clayey silt	1.67	4.6E-7	359
SS1 – 4.6m	Grey clayey silt	2.31	6.4E-7	260
SS2 – 3.1m	Brown clayey silt	1.91	5.3E-7	314
SS3 – 3.1m	Grey clayey silt	2.51	7.0E-7	239
SS5 – 3.1m	Brown clayey silt	2.54	7.1E-7	236

*After Saxton and Rawls (2006)

APPENDIX C:

HEADWATER DRAINAGE FEATURES

PHOTO INVENTORY

CLK1-1

CLK1-2

CLK1-3

CLK1-4

CLK2-1

CLK2-2

CLK2-3

CLK3-1

CLK3-2

CLK3-3

CLK3-4

CLK4-1

CLK4-2

CLK4-3

CLK43-4

CLK5-1

CLK5-2

CLK5-3

CLK5-4

CLK6-1

CLK6-2

CLK6-3

CLK7-1

CLK7-2

CLK7-3

CLK7-4

CLK8-1

CLK8-2

CLK8-3

CLK9-1

CLK9-2

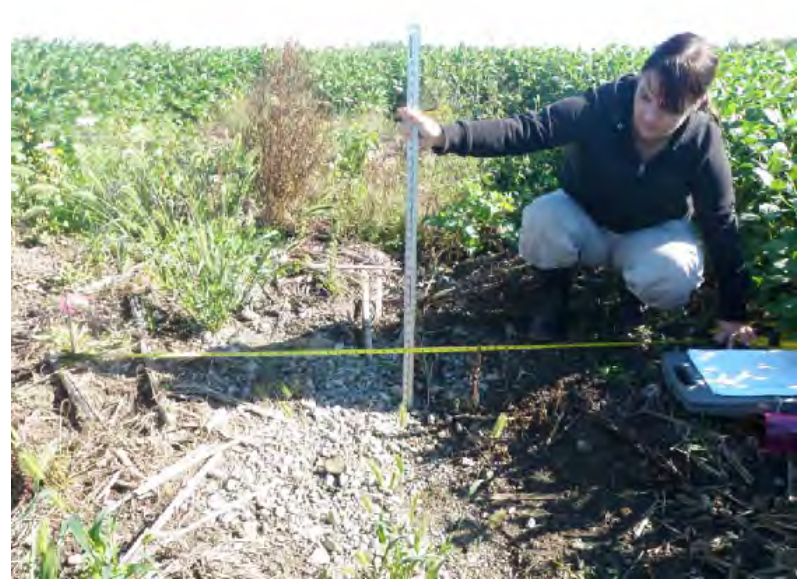
CLK9-3

CLK9-4

CLK10-1

CLK10-2

CLK10-3



CLK10-4

CLK11-1

CLK11-2

CLK11-3

CLK12-1

CLK12-2

CLK12-3

CLK12-4

CLK13-1

CLK13-2

CLK13-3

CLK14-1

CLK14-2

CLK14-3

CLK14-4

CLK15 – R1-1

CLK15 – R1-2

CLK15 – R2-1

CLK15 – R2-2

CLK15 – R3-1

CLK15 - R3-2

CLK15 – R3 - 3

CLK15 - R3 - 4

CLK16-1

CLK16-2

CLK16-3

CLK16-4

Gore0-1

Gore0-2

Gore1-1

Gore1-2

Gore1-3

Gore1-4

Gore2 – R1 - 1

Gore2 – R1 - 2

Gore2 – R1 - 1

Gore2 – R1 - 2

Gore2 – R2 - 1

Gore2 – R2 - 2

Gore2 – R3 - 1

Gore2 – R3 - 2

Gore3-1

Gore3-2

Gore3-3

Gore3-4

Gore4-1

Gore4-2

Gore4-3

Gore4-4

Gore5-1

Gore5-2

Gore5-3

Gore5-4

Gore6-1

Gore6-2

Gore6-3

Gore6-4

Gore7-1

Gore7-2

Gore7-3

Gore7-4

Gore8-1

Gore8-2

Gore8-3

Gore9-1

Gore9-2

Gore9-3

Gore10-1

Gore10-2

Gore10-3

Gore11-1

Gore11-2

Gore11-3

Gore12-1

Gore12-2

Gore12-3

Gore13-1

Gore13-2

Gore13-3

Gore13-4

Gore 14-1

Gore 14-2

Gore15-1

Gore15-2

Gore15-3

Gore16 -1

Gore16 -2

Gore16 -3

Gore16 - 4

Gore Main Tributary Reach 4-1

Gore Main Tributary Reach 3-2

Gore Main Tributary Reach 3-3

Gore Main Tributary Reach 2-4

Gore Main Tributary Reach 2-5

RBW1-1

RBW1-2

RBW1-3

RBW2-1

RBW2-2

RBW2-3

RBW3-1

RBW3-2

RBW3-3

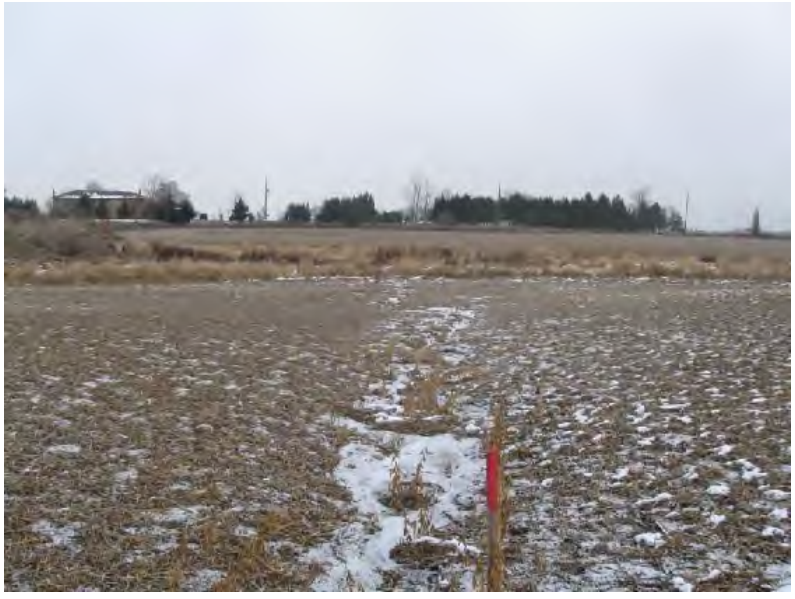
RBW4-1

RBW4-2

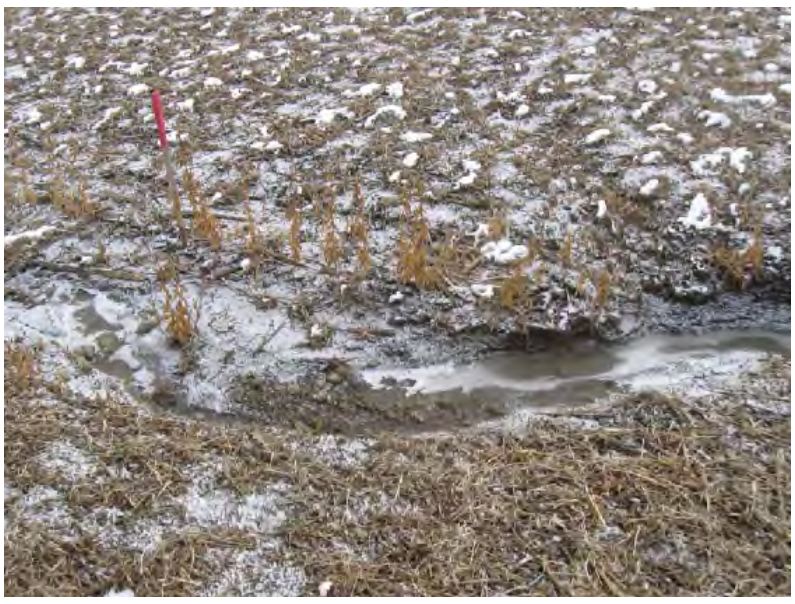
RBW4-3

RBW4-4

RBW5-1



RBW5-2



RBW5-3

RBW5-4

RBW6-1

RBW6-2

RBW6-3

RBW6-4

RBW7-1

RBW7-2

RBW8-1

RBW8-2

RBW8-3

RBW9 - 1

RBW9 - 2

ROBINSON1 -1

ROBINSON1 - 2

ROBINSON2 - 1

ROBINSON2 - 2

APPENDIX D:

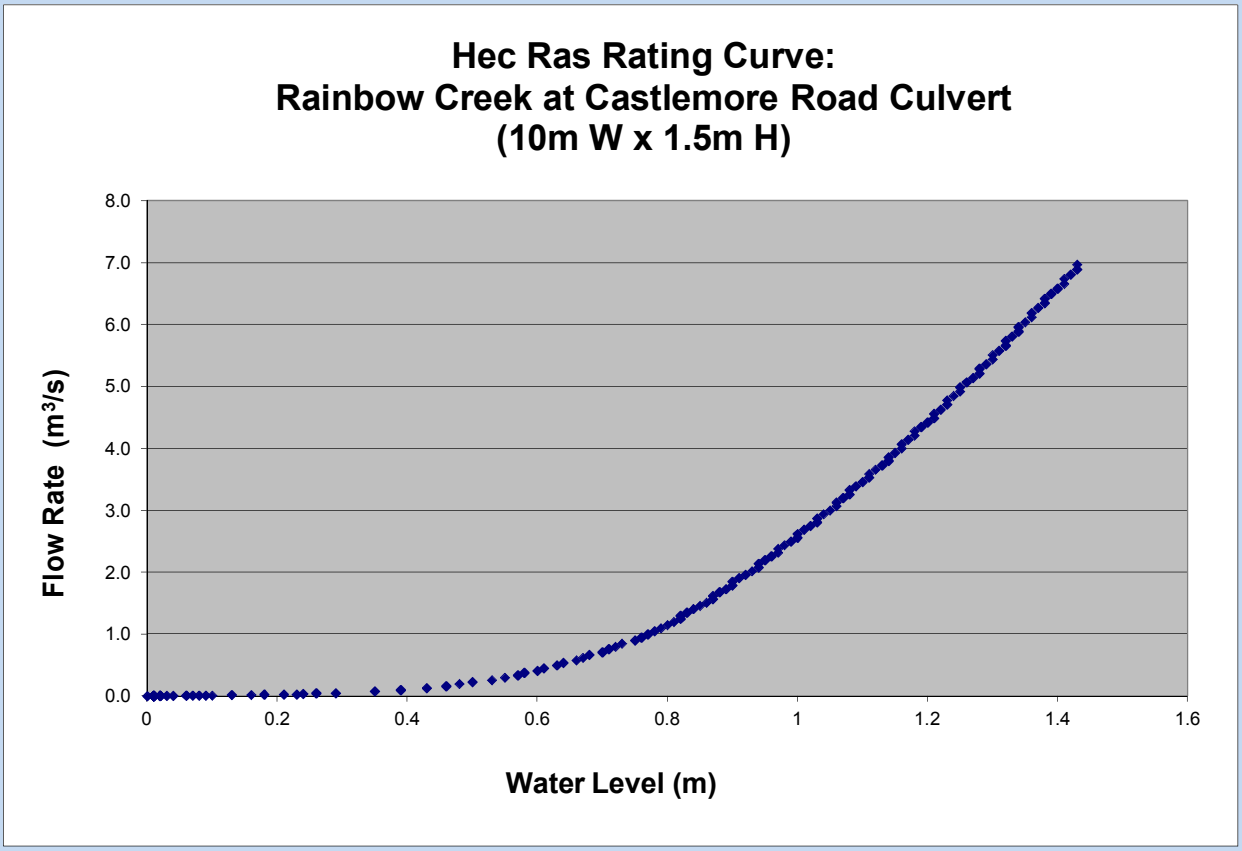
HYDRAULICS

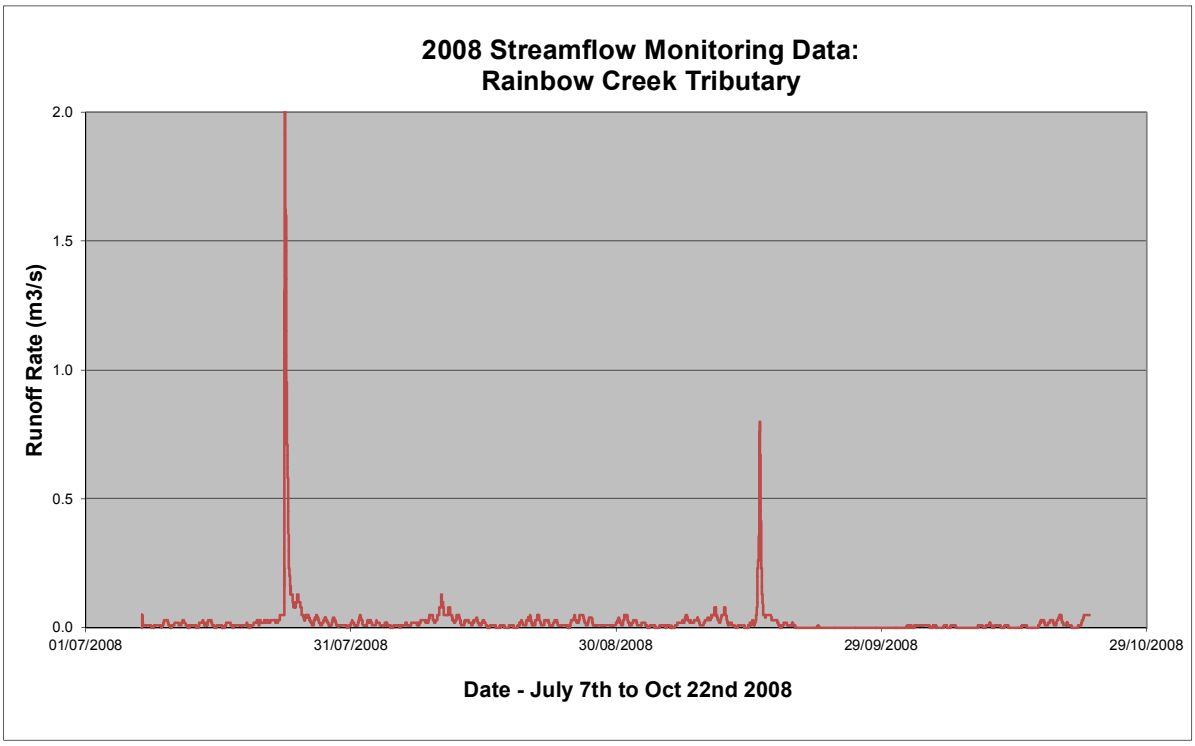
- Rainbow Creek Monitoring

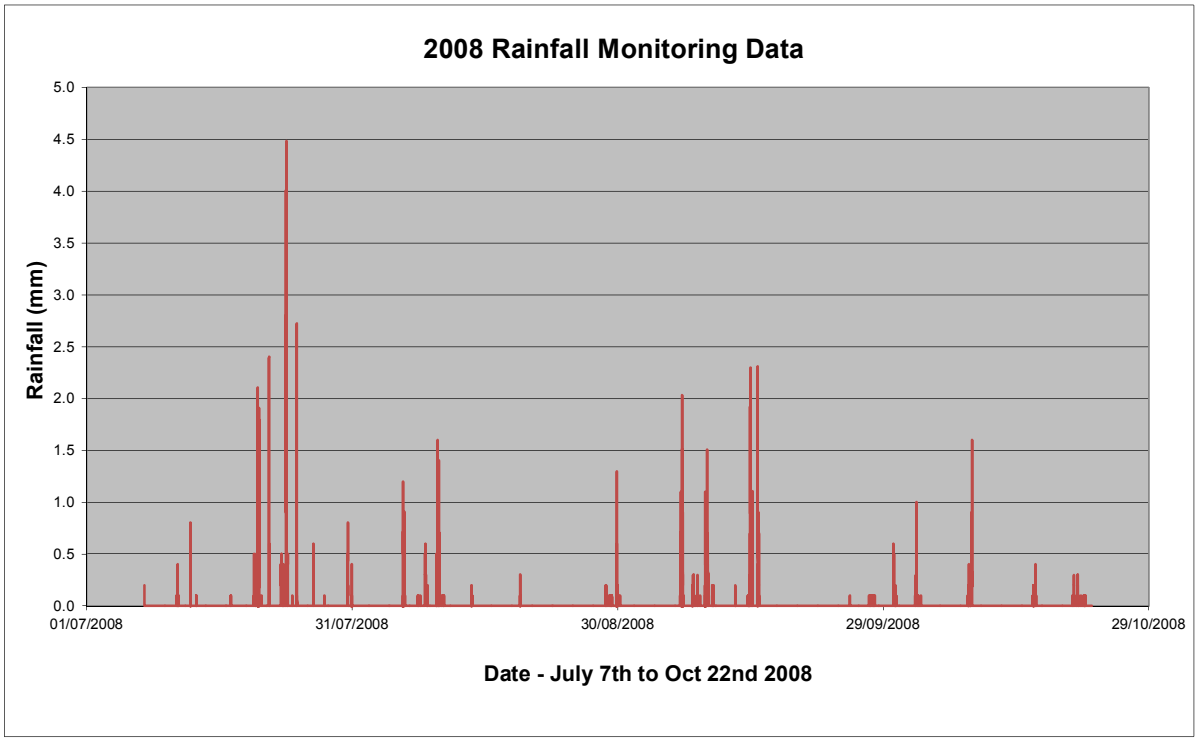
- HEC-RAS Hydraulic Model Extensions

2008 Streamflow Monitoring:

Rainbow Creek


Hec Ras Rating Curve:
Rainbow Creek at Castlemore Road Culvert
(10m W x 1.5m H)
Flow Rate (m³/s)
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
Water Level (m)


2008 Streamflow Monitoring Data:
Rainbow Creek Tributary
Runoff Rate (m3/s)
2.0
1.5
1.0
0.5
0.0
01/07/2008
31/07/2008
30/08/2008
29/09/2008
29/10/2008
Date - July 7th to Oct 22nd 2008


2008 Rainfall Monitoring Data
Rainfall (mm)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
01/07/2008
31/07/2008
30/08/2008
29/09/2008
29/10/2008
Date - July 7th to Oct 22nd 2008

Hydraulic Structure Inventory

CITY OF BRAMPTON
MASTER ENVIRONMENTAL SERVICING PLAN:
AREA 47 – GORE ROAD TRIBUTARY

CULVERT INVENTORY FORM

Structure Name:		Mayfield Road
Aquafor Survey Date:		October 5, 2009
Culvert Type / Dimensions:		7.0mW x 1.5mH Concrete Box Culvert
Invert Elevation:	u/s:	219.708
	d/s:	219.698
Obvert Elevation:	u/s:	221.172
	d/s:	221.687
Overflow/weir Elevation:		222.475
Length:		20.93m
Slope:		0.05%
Notes:		

Downstream Culvert Face

Upstream Culvert Face

CITY OF BRAMPTON
MASTER ENVIRONMENTAL SERVICING PLAN:
AREA 47 – GORE ROAD TRIBUTARY

CULVERT INVENTORY FORM

Structure Name:		Countryside Drive
Aquafor Survey Date:		October, 2009
Culvert Type / Dimensions:		5.5mW x 1.3mH Concrete Box
Invert Elevation:	u/s:	212.10
	d/s:	212.36
Obvert Elevation:	u/s:	213.40
	d/s:	213.66
Overflow/weir Elevation:		214.32
Length:		6.0m
Slope:		4.3%
Notes:		

Downstream Culvert Face

Upstream Culvert Face

CITY OF BRAMPTON
MASTER ENVIRONMENTAL SERVICING PLAN:
AREA 47 – GORE ROAD TRIBUTARY

CULVERT INVENTORY FORM

Structure Name:		The Gore Road
Source:		Updated by SJH March 2006 based on UMA design drawings dated Feb 9, 2006
Culvert Type / Dimensions:		9.3mW x1.3mH Concrete Bridge
Invert Elevation:	u/s:	196.72
	d/s:	196.68
Obvert Elevation:	u/s:	198.02
	d/s:	197.98
Overflow/weir Elevation:		199.49
Length:		11.0
Slope:		0.36%
Notes:		

Downstream Culvert Face

Upstream Culvert Face

CITY OF BRAMPTON
MASTER ENVIRONMENTAL SERVICING PLAN:
AREA 47 – GORE ROAD TRIBUTARY

CULVERT INVENTORY FORM

Structure Name:		Castlemore Road
Source:		Updated by SJH March 2006 based on UMA design drawings dated Feb 9, 2006
Culvert Type / Dimensions:		12.2mW x1.2mH Concrete Bridge
Invert Elevation:	u/s:	195.99
	d/s:	195.95
Obvert Elevation:	u/s:	197.19
	d/s:	197.15
Overflow/weir Elevation:		199.30
Length:		47.54
Slope:		0.08%

Notes:

CITY OF BRAMPTON
MASTER ENVIRONMENTAL SERVICING PLAN:
AREA 47 – CLARKWAY TRIBUTARY

CULVERT INVENTORY FORM

Structure Name:		Mayfield Road
Aquafor Survey Date:		October 5, 2009
Culvert Type / Dimensions:		5.0mW x1.6mH Concrete Box Culvert
Invert Elevation:	u/s:	220.343
	d/s:	220.472
Obvert Elevation:	u/s:	221.972
	d/s:	221.988
Overflow/weir Elevation:		223.15
Length:		21.62m
Slope:		-0.6%
Notes:		

Downstream Culvert Face

Upstream Culvert Face

CITY OF BRAMPTON
MASTER ENVIRONMENTAL SERVICING PLAN:
AREA 47 – CLARKWAY TRIBUTARY

CULVERT INVENTORY FORM

Structure Name:		Countryside Drive
Aquafor Survey Date:		October 2009
Culvert Type / Dimensions:		5.5mW x1.3mH Concrete Box Culvert
Invert Elevation:	u/s:	211.60
	d/s:	211.89
Obvert Elevation:	u/s:	212.90
	d/s:	213.19
Overflow/weir Elevation:		214.59
Length:		6.0m
Slope:		-4.8%
Notes:		

Downstream Culvert Face

Upstream Culvert Face

CITY OF BRAMPTON
MASTER ENVIRONMENTAL SERVICING PLAN:
AREA 47 – CLARKWAY TRIBUTARY

CULVERT INVENTORY FORM

Structure Name:		Clarkway Drive
Aquafor Survey Date:		October 5, 2009
Culvert Type / Dimensions:		6.5mW x1.9mH Concrete Box Culvert
Invert Elevation:	u/s:	211.28
	d/s:	211.35
Obvert Elevation:	u/s:	213.18
	d/s:	213.25
Overflow/weir Elevation:		213.29
Length:		12m
Slope:		0.58%
Notes:		

Downstream Culvert Face

Upstream Culvert Face

CITY OF BRAMPTON
MASTER ENVIRONMENTAL SERVICING PLAN:
AREA 47 – CLARKWAY TRIBUTARY

CULVERT INVENTORY FORM

Structure Name:		Private Road
Source:		Original HEC 2 file provide by TRCA, Oct 2002
Culvert Type / Dimensions:		6.1mW x2.8mH Concrete Box Culvert
Invert Elevation:	u/s:	204.50
	d/s:	204.50
Obvert Elevation:	u/s:	207.30
	d/s:	207.30
Overflow/weir Elevation:		207.40
Length:		5.0m
Slope:		0%
Notes:		

CITY OF BRAMPTON
MASTER ENVIRONMENTAL SERVICING PLAN:
AREA 47 – CLARKWAY TRIBUTARY

CULVERT INVENTORY FORM

Structure Name:		Castlemore Road
Source:		Original HEC 2 file provide by TRCA, Oct 2002
Culvert Type / Dimensions:		6.6mW x2.2mH Concrete Box Culvert
Invert Elevation:	u/s:	196.70
	d/s:	196.70
Obvert Elevation:	u/s:	198.90
	d/s:	198.90
Overflow/weir Elevation:		201.0
Length:		19.0m
Slope:		0%
Notes:		

Downstream Culvert Face

Upstream Culvert Face

HEC-RAS Hydraulic Model Extensions:

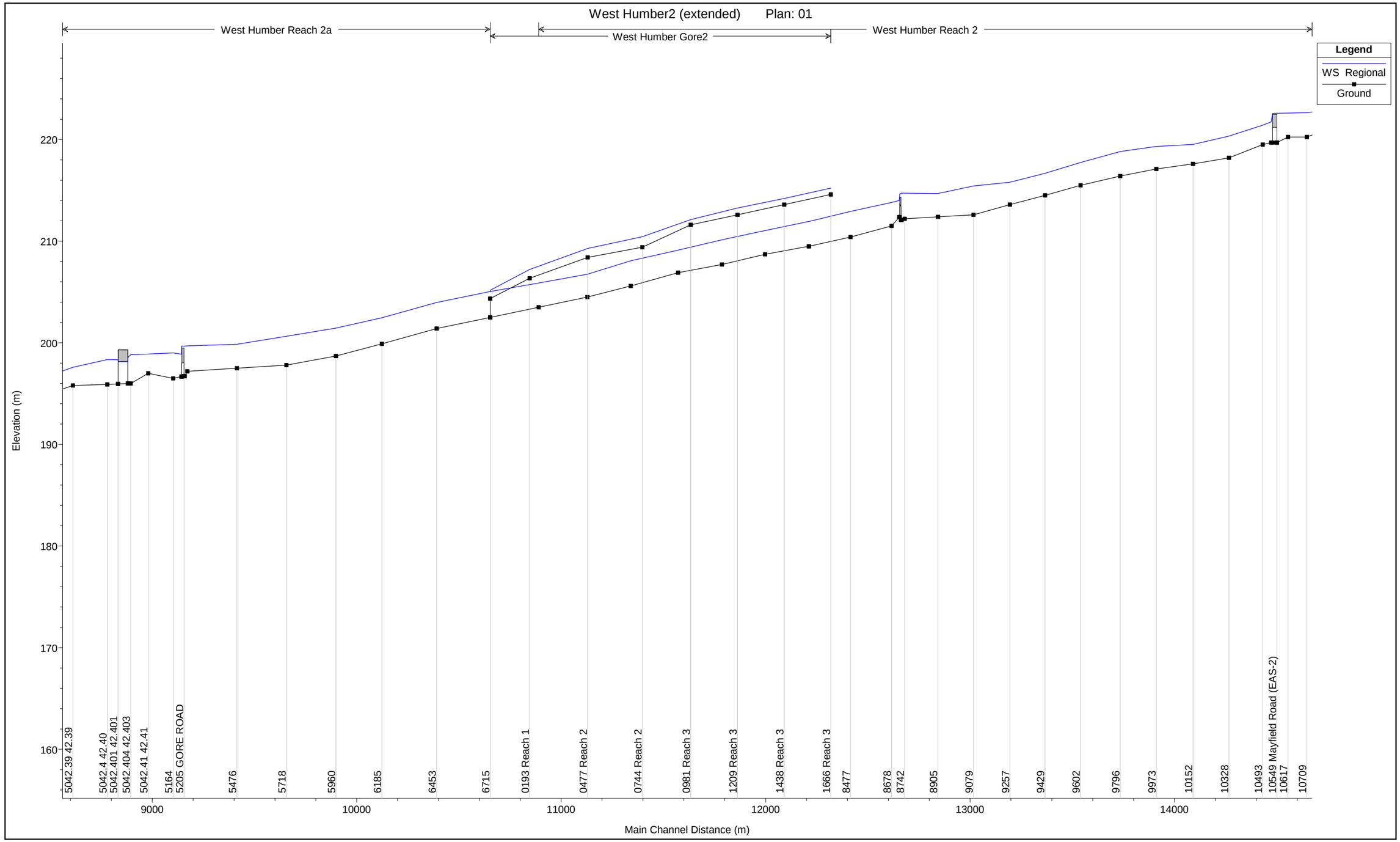
Model Output

Gore Road Tributary

Hec-RAS Model

HEC-RAS Plan: 01 Profile: Regional

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 2	10535	Regional	37.70	219.70	221.73	221.33	221.77	0.001156	1.26	81.68	125.51	0.28
Reach 2	10493	Regional	37.70	219.50	221.42	221.42	221.63	0.007714	2.67	37.42	81.99	0.62
Reach 2	10328	Regional	37.70	218.20	220.33		220.40	0.002520	1.70	53.93	66.26	0.37
Reach 2	10152	Regional	37.70	217.60	219.52	219.44	219.78	0.004960	2.46	30.16	71.03	0.57
Reach 2	9973	Regional	37.70	217.10	219.32		219.35	0.001127	1.24	93.89	160.04	0.27
Reach 2	9796	Regional	37.70	216.40	218.82		218.99	0.004655	2.37	38.92	68.16	0.49
Reach 2	9602	Regional	37.70	215.50	217.75	217.70	217.99	0.006414	2.70	33.25	63.10	0.58
Reach 2	9429	Regional	37.70	214.50	216.67		216.92	0.006782	2.72	30.45	47.52	0.59
Reach 2	9257	Regional	37.70	213.60	215.80		215.95	0.004526	2.28	41.56	68.02	0.49
Reach 2	9079	Regional	37.70	212.60	215.43		215.49	0.001570	1.57	56.12	54.50	0.30
Reach 2	8905	Regional	37.70	212.40	214.69	214.65	214.98	0.007189	2.84	28.83	51.16	0.60
Reach 2	8742	Regional	37.70	212.20	214.72		214.74	0.000377	0.90	103.69	87.48	0.18
Reach 2	8727	Regional	37.70	212.10	214.72	213.78	214.73	0.000353	0.84	124.56	117.83	0.17
Reach 2	8719		Culvert									
Reach 2	8716	Regional	47.61	212.36	214.00	214.00	214.19	0.005952	2.67	47.80	83.05	0.66
Reach 2	8678	Regional	47.61	211.50	213.80		213.95	0.004835	2.39	54.07	88.91	0.50
Reach 2	8477	Regional	47.61	210.40	212.93		213.07	0.003966	2.26	53.23	74.18	0.45
Reach 2	8274	Regional	47.61	209.50	211.95		212.15	0.005065	2.60	47.00	79.36	0.53
Reach 2	8273	Regional	47.61	209.50	211.94	211.84	212.15	0.005274	2.65	45.97	78.36	0.54
Reach 2	8059	Regional	47.61	208.70	211.05		211.17	0.003887	2.25	58.99	91.59	0.47
Reach 2	7848	Regional	47.61	207.70	210.13		210.29	0.004593	2.41	50.02	71.84	0.49
Reach 2	7634	Regional	47.61	206.90	209.12		209.28	0.004893	2.54	48.84	69.56	0.54
Reach 2	7402	Regional	47.61	205.60	208.07	207.87	208.23	0.004485	2.45	50.41	75.00	0.50
Reach 2	7190	Regional	47.61	204.50	206.74	206.74	207.06	0.007017	2.99	36.08	66.69	0.64
Reach 2	6952	Regional	47.61	203.50	205.88		205.94	0.002240	1.66	77.06	99.78	0.34
Gore2	1666	Regional	5.90	214.60	215.22		215.22	0.002480	0.78	25.80	127.08	0.36
Gore2	1438	Regional	5.90	213.60	214.21		214.24	0.010912	1.62	13.14	81.50	0.75
Gore2	1209	Regional	5.90	212.60	213.26		213.27	0.002217	0.79	25.48	114.45	0.34
Gore2	0981	Regional	5.90	211.60	212.13	212.13	212.17	0.018913	1.89	13.29	127.29	0.96
Gore2	0744	Regional	5.90	209.40	210.43		210.45	0.002770	1.08	15.38	43.70	0.38
Gore2	0477	Regional	5.90	208.40	209.28	209.21	209.31	0.007316	1.52	11.61	45.97	0.59
Gore2	0193	Regional	5.90	206.35	207.21	207.21	207.30	0.009951	1.90	8.84	40.36	0.73
Gore2	0001	Regional	5.90	204.35	205.17	205.17	205.24	0.008807	1.72	11.06	59.17	0.68
Reach 2a	6715	Regional	47.61	202.50	205.05	204.92	205.21	0.004353	2.42	55.46	101.10	0.48
Reach 2a	6453	Regional	47.61	201.40	203.98		204.12	0.004182	2.35	54.45	87.16	0.47
Reach 2a	6185	Regional	47.61	199.90	202.47	202.47	202.82	0.006258	3.16	36.28	61.55	0.63
Reach 2a	5960	Regional	47.61	198.70	201.45		201.58	0.002931	2.17	52.10	56.51	0.42
Reach 2a	5718	Regional	47.61	197.80	200.65	199.76	200.89	0.002729	2.38	41.61	72.51	0.45
Reach 2a	5476	Regional	47.61	197.50	199.85		200.00	0.004871	2.43	54.93	96.65	0.51
Reach 2a	5234	Regional	47.61	197.20	199.70		199.73	0.000415	0.97	140.08	174.73	0.20
Reach 2a	5221	Regional	47.61	196.72	199.67	198.11	199.71	0.000481	1.10	118.26	173.06	0.20
Reach 2a	5205		Culvert									
Reach 2a	5204	Regional	47.61	196.68	198.88	198.07	199.16	0.003216	2.32	20.49	18.47	0.50
Reach 2a	5164	Regional	47.61	196.50	199.00		199.01	0.000149	0.55	220.32	152.01	0.11
Reach 2a	5042.41	Regional	47.61	197.00	198.90		198.95	0.003703	1.90	68.31	95.10	0.44
Reach 2a	5042.404	Regional	47.61	196.00	198.84		198.85	0.000486	0.90	131.96	100.15	0.17
Reach 2a	5042.403	Regional	47.61	195.99	198.57	197.72	198.78	0.002433	2.22	28.81	91.57	0.44
Reach 2a	5042.402		Bridge									


West Humber2 (extended) Plan: 01
West Humber Reach 2a
West Humber Gore2
West Humber Reach 2
Legend
WS Regional
Ground
Elevation (m)
220
210
200
190
180
170
160
5042.39 42.39
5042.4 42.40
5042.401 42.401
5042.404 42.403
5042.41 42.41
5164
5205 GORE ROAD
5476
5718
5960
6185
6453
6715
0193 Reach 1
0477 Reach 2
0744 Reach 2
0981 Reach 3
1209 Reach 3
1438 Reach 3
1666 Reach 3
8477
8678
8742
8905
9079
9257
9429
9602
9796
9973
10152
10328
10493
10549 Mayfield Road (EAS-2)
10617
10709
9000
10000
11000
12000
13000
14000
Main Channel Distance (m)

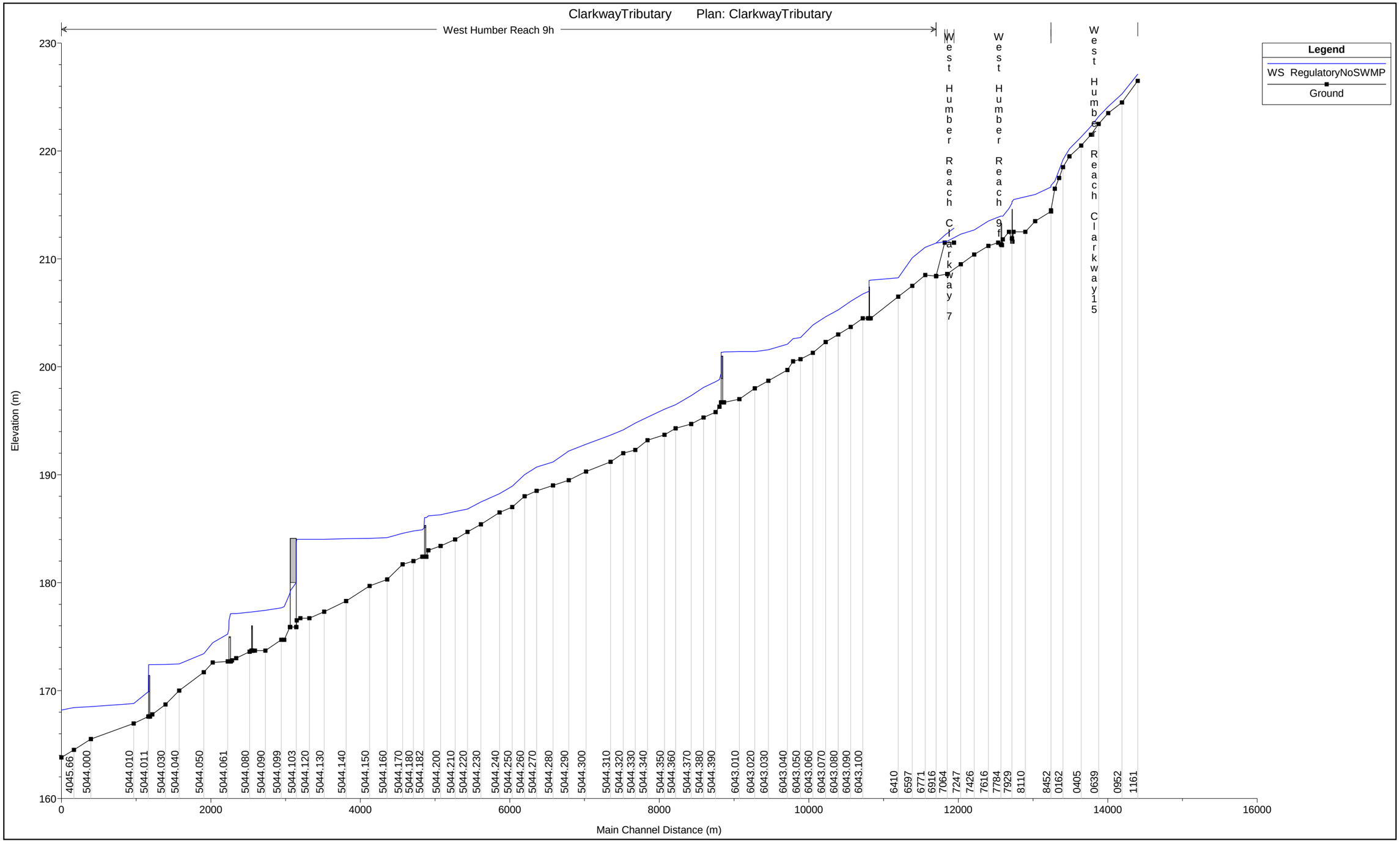
The Clarkway Tributary

Hec-RAS model

(2012 Flows)

HEC-RAS Plan: Regulatory Profile: RegulatoryNoSWMP

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 9	9697		Culvert									
Reach 9	9684	RegulatoryNoSWMP	92.20	220.47	222.86	222.61	222.94	0.003420	2.17	129.24	177.78	0.45
Reach 9	9654	RegulatoryNoSWMP	92.20	220.50	222.82		222.85	0.001470	1.63	161.57	144.01	0.34
Reach 9	9525	RegulatoryNoSWMP	92.20	220.50	222.41		222.48	0.003238	2.15	99.79	78.83	0.50
Reach 9	9352	RegulatoryNoSWMP	92.20	219.50	221.57		221.76	0.006296	3.18	72.51	64.87	0.70
Reach 9	9181	RegulatoryNoSWMP	92.20	218.50	220.71		220.86	0.004713	2.87	85.10	78.78	0.62
Reach 9	8997	RegulatoryNoSWMP	92.20	217.50	219.37		219.65	0.010488	3.82	60.29	61.76	0.89
Reach 9	8805	RegulatoryNoSWMP	92.20	215.60	218.11		218.35	0.005242	3.38	74.18	70.09	0.68
Reach 9	8627	RegulatoryNoSWMP	92.20	214.50	217.37		217.57	0.004003	3.10	77.26	61.32	0.58
Reach Clarkway15	1161	RegulatoryNoSWMP	5.60	226.50	227.12	227.07	227.13	0.008564	0.69	15.75	142.58	0.60
Reach Clarkway15	0952	RegulatoryNoSWMP	5.60	224.50	225.27	225.22	225.34	0.008530	1.20	6.64	32.16	0.69
Reach Clarkway15	0766	RegulatoryNoSWMP	5.60	223.50	224.13	224.07	224.14	0.005036	0.53	11.44	95.42	0.46
Reach Clarkway15	0639	RegulatoryNoSWMP	5.60	222.50	223.19		223.24	0.010873	1.04	6.98	46.15	0.73
Reach Clarkway15	0534	RegulatoryNoSWMP	5.60	221.50	222.28	222.20	222.34	0.007079	1.10	6.38	27.06	0.62
Reach Clarkway15	0405	RegulatoryNoSWMP	5.60	220.50	221.30	221.23	221.37	0.007971	1.23	5.82	23.28	0.67
Reach Clarkway15	0248	RegulatoryNoSWMP	5.60	219.50	220.20	220.13	220.23	0.006506	0.81	7.40	38.86	0.56
Reach Clarkway15	0162	RegulatoryNoSWMP	5.60	218.50	219.19	219.19	219.31	0.020837	1.51	3.95	19.27	1.01
Reach Clarkway15	0111	RegulatoryNoSWMP	5.60	217.50	218.24	218.22	218.35	0.016573	1.54	3.95	16.32	0.94
Reach Clarkway15	0053	RegulatoryNoSWMP	5.60	216.50	217.20	217.20	217.31	0.019769	1.50	4.03	19.65	0.99
Reach Clarkway15	0001	RegulatoryNoSWMP	5.60	214.50	216.80		216.80	0.000048	0.29	38.65	41.66	0.07
Reach 9f	8452	RegulatoryNoSWMP	92.20	214.40	216.65		216.79	0.004726	2.83	87.71	84.25	0.60
Reach 9f	8242	RegulatoryNoSWMP	92.20	213.50	215.97		216.07	0.002755	2.39	102.66	86.53	0.48
Reach 9f	8110	RegulatoryNoSWMP	92.20	212.50	215.75		215.83	0.001362	2.03	123.71	83.87	0.36
Reach 9f	7952	RegulatoryNoSWMP	92.20	212.50	215.50		215.62	0.001449	2.08	112.28	94.40	0.38
Reach 9f	7938	RegulatoryNoSWMP	92.20	211.60	215.34	214.79	215.56	0.002066	2.55	92.28	105.17	0.43
Reach 9f	7931		Culvert									
Reach 9f	7929	RegulatoryNoSWMP	92.20	211.89	215.15	214.45	215.28	0.001714	2.21	113.49	127.75	0.40
Reach 9f	7890	RegulatoryNoSWMP	92.20	212.50	214.67	214.67	215.06	0.010407	4.21	58.43	65.17	0.91
Reach 9f	7808	RegulatoryNoSWMP	92.20	211.80	213.95		214.11	0.003809	2.81	102.09	123.18	0.61
Reach 9f	7797	RegulatoryNoSWMP	92.20	211.28	213.97	213.64	214.03	0.001388	1.80	182.16	248.05	0.35
Reach 9f	7786		Culvert									
Reach 9f	7784	RegulatoryNoSWMP	92.20	211.35	213.96	213.44	213.99	0.000784	1.34	240.76	283.24	0.27
Reach 9f	7746	RegulatoryNoSWMP	92.20	211.50	213.86		213.94	0.001494	1.82	149.67	170.11	0.38
Reach 9f	7616	RegulatoryNoSWMP	92.20	211.20	213.51		213.63	0.004249	2.60	92.57	86.73	0.55
Reach 9f	7426	RegulatoryNoSWMP	92.20	210.40	212.68		212.82	0.004560	2.81	89.15	86.38	0.59
Reach 9f	7247	RegulatoryNoSWMP	92.20	209.50	212.29	211.39	212.36	0.001662	1.99	123.05	86.95	0.38
Reach 9f	7064	RegulatoryNoSWMP	92.20	208.60	211.63		211.89	0.003862	3.30	82.38	80.17	0.60
Reach 9h	6916	RegulatoryNoSWMP	92.20	208.40	211.47		211.52	0.001285	1.82	131.37	86.39	0.33
Reach 9h	6771	RegulatoryNoSWMP	92.20	208.50	211.08		211.23	0.003633	2.79	95.45	93.98	0.55
Reach 9h	6597	RegulatoryNoSWMP	92.20	207.50	210.10	210.10	210.40	0.006198	3.67	81.34	108.27	0.73
Reach 9h	6410	RegulatoryNoSWMP	92.20	206.50	208.25		208.47	0.010210	3.61	71.21	89.52	0.87
Reach 9h	6043.114	RegulatoryNoSWMP	92.20	204.50	208.03		208.05	0.000511	1.29	204.82	122.04	0.22
Reach 9h	6043.113	RegulatoryNoSWMP	92.20	204.50	208.01	207.12	208.04	0.000520	1.36	208.27	150.89	0.23
Reach 9h	6043.112		Bridge									
Reach 9h	6043.111	RegulatoryNoSWMP	92.20	204.50	207.00	207.00	207.07	0.001629	1.92	153.22	175.21	0.39
Reach 9h	6043.110	RegulatoryNoSWMP	92.20	204.50	206.96		207.04	0.001822	2.01	146.30	170.80	0.41
Reach 9h	6043.100	RegulatoryNoSWMP	92.20	204.50	206.75		206.87	0.003003	2.42	94.21	78.20	0.52
Reach 9h	6043.090	RegulatoryNoSWMP	92.20	203.70	206.07		206.21	0.006317	3.39	90.49	104.41	0.70
Reach 9h	6043.080	RegulatoryNoSWMP	92.20	203.00	205.27		205.40	0.003851	2.53	100.95	116.79	0.54
Reach 9h	6043.070	RegulatoryNoSWMP	92.20	202.30	204.63		204.74	0.003776	2.53	95.37	85.29	0.53
Reach 9h	6043.060	RegulatoryNoSWMP	92.20	201.30	203.86	203.56	203.96	0.005692	2.83	95.06	105.34	0.57
Reach 9h	6043.050	RegulatoryNoSWMP	92.20	200.70	202.71		202.91	0.006806	3.42	84.59	106.50	0.77
Reach 9h	6043.045	RegulatoryNoSWMP	92.20	200.50	202.60		202.62	0.000858	1.18	196.51	147.91	0.26
Reach 9h	6043.040	RegulatoryNoSWMP	92.20	199.70	202.10	202.10	202.41	0.010504	3.76	66.36	87.91	0.77
Reach 9h	6043.030	RegulatoryNoSWMP	92.20	198.70	201.58		201.60	0.000627	1.32	194.05	122.73	0.25
Reach 9h	6043.020	RegulatoryNoSWMP	92.20	198.00	201.41		201.46	0.001151	1.68	145.16	100.40	0.29
Reach 9h	6043.010	RegulatoryNoSWMP	92.20	197.00	201.40		201.41	0.000092	0.59	410.51	180.15	0.09
Reach 9h	5044.395	RegulatoryNoSWMP	92.20	196.70	201.37		201.39	0.000176	0.85	260.24	109.98	0.12
Reach 9h	5044.394	RegulatoryNoSWMP	92.20	196.70	201.35	199.37	201.38	0.000282	1.07	221.49	112.45	0.16
Reach 9h	5044.393		Bridge									


ClarkwayTributary Plan: ClarkwayTributary
West Humber Reach 9h
West Humber Reach Clarkway 7
West Humber Reach 9f
West Humber Reach Clarkway 15
Legend
WS RegulatoryNoSWMP
Ground
Elevation (m)
Main Channel Distance (m)
230
220
210
200
190
180
170
160
0
2000
4000
6000
8000
10000
12000
14000
16000
4045.66
5044.000
5044.010
5044.011
5044.030
5044.040
5044.050
5044.061
5044.080
5044.090
5044.099
5044.103
5044.120
5044.130
5044.140
5044.150
5044.160
5044.170
5044.180
5044.182
5044.200
5044.210
5044.220
5044.230
5044.240
5044.250
5044.260
5044.270
5044.280
5044.290
5044.300
5044.310
5044.320
5044.330
5044.340
5044.350
5044.360
5044.370
5044.380
5044.390
6043.010
6043.020
6043.030
6043.040
6043.050
6043.060
6043.070
6043.080
6043.090
6043.100
6410
6597
6771
6916
7064
7247
7426
7616
7784
7929
8110
8452
0162
0405
0639
0952
1161

The Clarkway Tributary

Hec-RAS model

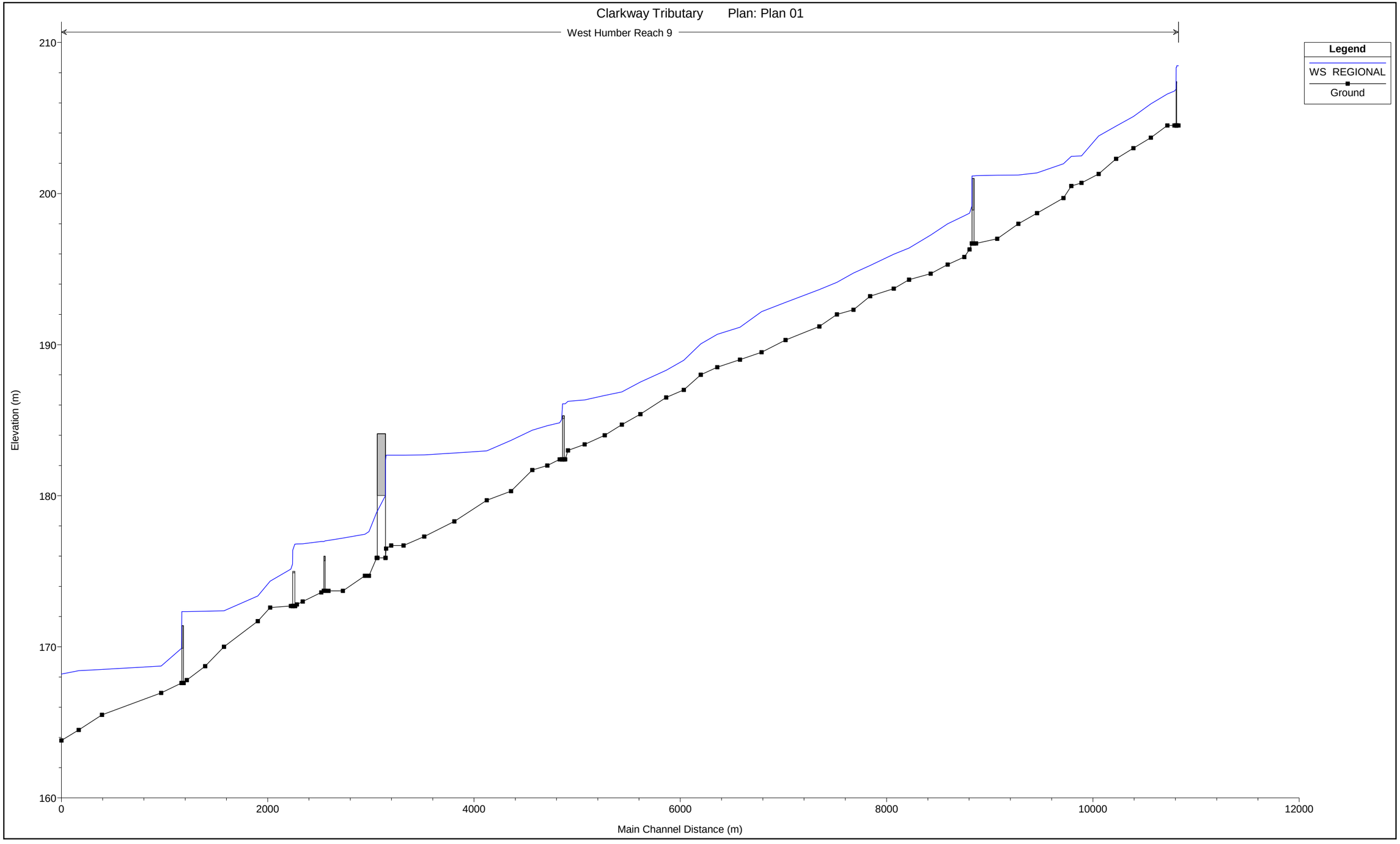
(2002 Flows)

HEC-RAS Plan: Plan 01 River: West Humber Reach: Reach 9 Profile: REGIONAL

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 9	6043.114	REGIONAL	73.19	204.50	208.46		208.47	0.000168	0.80	259.77	132.30	0.13
Reach 9	6043.113	REGIONAL	73.19	204.50	208.46	206.77	208.47	0.000156	0.81	281.11	173.59	0.13
Reach 9	6043.112		Bridge									
Reach 9	6043.111	REGIONAL	73.19	204.50	206.90	206.90	208.08	0.011012	4.86	15.61	163.84	1.00
Reach 9	6043.110	REGIONAL	73.19	204.50	206.78		206.86	0.001869	1.93	117.11	149.44	0.41
Reach 9	6043.100	REGIONAL	73.19	204.50	206.59		206.70	0.002733	2.20	82.11	75.28	0.49
Reach 9	6043.090	REGIONAL	73.19	203.70	205.93		206.07	0.006292	3.25	76.29	99.07	0.69
Reach 9	6043.080	REGIONAL	73.19	203.00	205.10		205.24	0.004039	2.46	82.04	109.76	0.54
Reach 9	6043.070	REGIONAL	73.19	202.30	204.46		204.56	0.003740	2.39	81.04	82.33	0.52
Reach 9	6043.060	REGIONAL	73.19	201.30	203.81	203.48	203.88	0.004258	2.42	89.26	103.25	0.49
Reach 9	6043.050	REGIONAL	73.19	200.70	202.49		202.80	0.010255	3.88	61.43	104.54	0.93
Reach 9	6043.045	REGIONAL	73.19	200.50	202.46		202.47	0.000785	1.08	174.61	146.71	0.25
Reach 9	6043.040	REGIONAL	73.19	199.70	201.97	201.97	202.28	0.010021	3.54	55.42	82.69	0.75
Reach 9	6043.030	REGIONAL	73.19	198.70	201.37		201.39	0.000600	1.23	169.03	119.92	0.24
Reach 9	6043.020	REGIONAL	73.19	198.00	201.22		201.26	0.001050	1.54	126.16	94.73	0.27
Reach 9	6043.010	REGIONAL	73.19	197.00	201.21		201.22	0.000072	0.50	377.07	171.38	0.08
Reach 9	5044.395	REGIONAL	80.51	196.70	201.19		201.20	0.000165	0.80	240.02	106.21	0.12
Reach 9	5044.394	REGIONAL	80.51	196.70	201.17	199.15	201.19	0.000272	1.02	200.91	107.86	0.15
Reach 9	5044.393		Bridge									
Reach 9	5044.392	REGIONAL	80.51	196.70	199.17	199.17	200.38	0.013626	4.89	16.79	62.84	0.99
Reach 9	5044.391	REGIONAL	80.51	196.30	198.70		198.83	0.002507	2.25	86.28	78.36	0.46
Reach 9	5044.390	REGIONAL	80.51	195.80	198.52		198.70	0.002432	2.31	73.13	63.22	0.45
Reach 9	5044.380	REGIONAL	80.51	195.30	198.00		198.18	0.004167	2.92	81.35	92.34	0.57
Reach 9	5044.370	REGIONAL	80.51	194.70	197.25		197.42	0.005678	2.88	77.30	96.01	0.58
Reach 9	5044.360	REGIONAL	80.51	194.30	196.39		196.53	0.004485	2.66	82.12	92.87	0.59
Reach 9	5044.350	REGIONAL	80.51	193.70	195.99		196.03	0.002394	2.04	112.75	102.33	0.43
Reach 9	5044.340	REGIONAL	80.51	193.20	195.24		195.37	0.007427	2.98	80.42	111.51	0.67
Reach 9	5044.330	REGIONAL	80.51	192.30	194.74		194.78	0.002056	1.82	130.19	132.27	0.37
Reach 9	5044.320	REGIONAL	88.56	192.00	194.13		194.27	0.005092	2.70	84.31	91.83	0.59
Reach 9	5044.310	REGIONAL	88.56	191.20	193.64		193.69	0.002447	1.93	117.68	99.60	0.39
Reach 9	5044.300	REGIONAL	88.56	190.30	192.79		192.96	0.006007	3.16	86.46	113.33	0.64
Reach 9	5044.290	REGIONAL	88.56	189.50	192.18		192.25	0.002584	2.31	124.87	130.76	0.45
Reach 9	5044.280	REGIONAL	88.56	189.00	191.15		191.34	0.015391	3.72	64.64	90.64	0.81
Reach 9	5044.270	REGIONAL	88.56	188.50	190.68		190.70	0.001349	1.35	169.66	146.72	0.29
Reach 9	5044.260	REGIONAL	88.56	188.00	190.04		190.29	0.004737	2.73	61.80	56.75	0.67
Reach 9	5044.250	REGIONAL	97.42	187.00	188.97		189.38	0.006367	3.11	52.35	70.46	0.78
Reach 9	5044.240	REGIONAL	97.42	186.50	188.30		188.48	0.004217	2.56	90.98	107.21	0.64
Reach 9	5044.230	REGIONAL	97.42	185.40	187.52		187.72	0.002797	2.32	78.36	69.74	0.54
Reach 9	5044.220	REGIONAL	97.42	184.70	186.87		187.02	0.005971	3.27	92.01	99.64	0.71
Reach 9	5044.210	REGIONAL	97.42	184.00	186.64		186.67	0.001276	1.49	172.18	137.70	0.29
Reach 9	5044.200	REGIONAL	97.42	183.40	186.34		186.37	0.001464	1.46	153.01	111.64	0.27
Reach 9	5044.190	REGIONAL	97.42	183.00	186.24		186.26	0.000407	0.96	237.21	129.66	0.17
Reach 9	5044.184	REGIONAL	97.42	182.40	186.08	185.23	186.21	0.001668	2.06	98.67	153.75	0.34
Reach 9	5044.183		Bridge									
Reach 9	5044.182	REGIONAL	97.42	182.40	185.04	185.00	185.14	0.002434	2.07	118.02	111.42	0.41
Reach 9	5044.181	REGIONAL	97.42	182.40	184.82		185.03	0.005345	2.88	83.92	95.07	0.59
Reach 9	5044.180	REGIONAL	97.42	182.00	184.63		184.66	0.001436	1.47	166.92	136.57	0.29
Reach 9	5044.170	REGIONAL	104.40	181.70	184.33		184.40	0.002152	1.99	138.84	125.00	0.39
Reach 9	5044.160	REGIONAL	104.40	180.30	183.66		183.89	0.004268	2.96	79.12	60.89	0.52
Reach 9	5044.150	REGIONAL	104.40	179.70	182.96		183.02	0.004648	1.93	120.48	126.75	0.34
Reach 9	5044.140	REGIONAL	104.40	178.30	182.82		182.84	0.000782	1.10	181.64	93.51	0.17
Reach 9	5044.130	REGIONAL	104.40	177.30	182.70		182.72	0.000235	0.95	237.19	82.20	0.13
Reach 9	5044.120	REGIONAL	104.40	176.70	182.68		182.69	0.000090	0.70	339.62	99.24	0.09
Reach 9	5044.115	REGIONAL	104.40	176.70	182.68		182.69	0.000025	0.44	626.03	163.95	0.06
Reach 9	5044.110	REGIONAL	104.40	176.50	182.68	178.64	182.68	0.000039	0.38	512.46	120.71	0.05
Reach 9	5044.104	REGIONAL	104.40	175.89	182.30	178.98	182.59	0.000815	2.42	43.06	117.70	0.31
Reach 9	5044.103		Bridge									
Reach 9	5044.102	REGIONAL	104.40	175.89	178.97	178.97	180.39	0.010835	5.27	19.82	65.29	1.00
Reach 9	5044.101	REGIONAL	104.40	175.89	178.90	178.90	179.83	0.018147	5.55	30.22	61.81	1.02
Reach 9	5044.100	REGIONAL	115.83	174.70	177.62		177.89	0.004759	3.17	83.62	66.74	0.59
Reach 9	5044.099	REGIONAL	115.83	174.70	177.45		177.74	0.005596	3.30	84.65	77.76	0.64
Reach 9	5044.090	REGIONAL	115.83	173.70	177.19		177.29	0.001119	1.86	139.87	84.89	0.32
Reach 9	5044.084	REGIONAL	115.83	173.70	177.04		177.13	0.001126	1.81	145.80	90.39	0.32
Reach 9	5044.083	REGIONAL	115.83	173.70	177.01	176.39	177.09	0.001127	1.80	165.58	127.87	0.32
Reach 9	5044.082		Bridge									
Reach 9	5044.081	REGIONAL	115.83	173.70	176.97	175.81	177.03	0.000655	1.54	200.18	138.14	0.27
Reach 9	5044.080	REGIONAL	115.83	173.60	176.96		177.00	0.000711	1.55	189.39	93.21	0.27
Reach 9	5044.070	REGIONAL	115.83	173.00	176.82		176.89	0.000605	1.54	167.24	91.64	0.25
Reach 9	5044.065	REGIONAL	115.83	172.80	176.81		176.84	0.000610	1.42	221.34	134.66	0.23
Reach 9	5044.064	REGIONAL	115.83	172.70	176.79	175.44	176.83	0.000490	1.34	232.46	144.00	0.21
Reach 9	5044.063		Culvert									
Reach 9	5044.062	REGIONAL	115.83	172.70	175.47	175.47	176.82	0.012240	5.17	22.89	101.39	0.99
Reach 9	5044.061	REGIONAL	115.83	172.70	175.14		175.42	0.005292	3.12	88.60	94.37	0.64
Reach 9	5044.060	REGIONAL	115.83	172.60	174.34		174.42	0.004420	2.44	121.22	111.01	0.59
Reach 9	5044.050	REGIONAL	115.83	171.70	173.36	173.36	173.73	0.016375	4.67	66.02	74.24	1.16
Reach 9	5044.040	REGIONAL	115.83	170.00	172.39		172.48	0.001376	1.67	139.66	116.54	0.38
Reach 9	5044.030	REGIONAL	115.83	168.71	172.35		172.38	0.000222	1.00	223.18	96.97	0.17
Reach 9	5044.020	REGIONAL	115.83	167.80	172.33		172.34	0.000131	0.79	327.50	113.89	0.12
Reach 9	5044.013	REGIONAL	115.83	167.60	172.33	170.34	172.34	0.000189	0.89	341.14	130.13	0.13

HEC-RAS Plan: Plan 01 River: West Humber Reach: Reach 9 Profile: REGIONAL (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach 9	5044.012		Bridge									
Reach 9	5044.011	REGIONAL	115.83	167.60	169.90	169.90	169.94	0.002509	1.99	152.50	121.69	0.42
Reach 9	5044.010	REGIONAL	115.83	166.95	168.72		168.94	0.005972	3.21	85.35	71.97	0.77
Reach 9	5044.000	REGIONAL	115.83	165.50	168.50		168.52	0.000439	1.10	266.26	140.37	0.20
Reach 9	4045.66	REGIONAL	184.75	164.50	168.42		168.44	0.000257	1.08	385.18	132.48	0.17
Reach 9	4045.65	REGIONAL	664.88	163.80	168.19	166.31	168.33	0.000818	2.11	605.29	199.76	0.32


Clarkway Tributary Plan: Plan 01
West Humber Reach 9
Legend
WS REGIONAL
Ground
Elevation (m)
210
200
190
180
170
160
0
2000
4000
6000
8000
10000
12000
Main Channel Distance (m)

Hec-RAS Cross-sections		Flood Elevation	
		Regional Storm (2002)	Regional Storm (2012)
Reach	River Sta	W.S. Elev	W.S. Elev
		(m)	(m)
Reach 9	6043.114	208.46	208.03
Reach 9	6043.113	208.46	208.01
Reach 9	6043.112	Bridge	
Reach 9	6043.111	206.9	207
Reach 9	6043.11	206.78	206.96
Reach 9	6043.1	206.59	206.75
Reach 9	6043.09	205.93	206.07
Reach 9	6043.08	205.1	205.27
Reach 9	6043.07	204.46	204.63
Reach 9	6043.06	203.81	203.86
Reach 9	6043.05	202.49	202.71
Reach 9	6043.045	202.46	202.6
Reach 9	6043.04	201.97	202.1
Reach 9	6043.03	201.37	201.58
Reach 9	6043.02	201.22	201.41
Reach 9	6043.01	201.21	201.4
Reach 9	5044.395	201.19	201.37
Reach 9	5044.394	201.17	201.35
Reach 9	5044.393	Bridge	
Reach 9	5044.392	199.17	199.41
Reach 9	5044.391	198.7	198.82
Reach 9	5044.39	198.52	198.63
Reach 9	5044.38	198	198.09
Reach 9	5044.37	197.25	197.34
Reach 9	5044.36	196.39	196.49
Reach 9	5044.35	195.99	196.07
Reach 9	5044.34	195.24	195.33
Reach 9	5044.33	194.74	194.79
Reach 9	5044.32	194.13	194.16
Reach 9	5044.31	193.64	193.67
Reach 9	5044.3	192.79	192.82
Reach 9	5044.29	192.18	192.2
Reach 9	5044.28	191.15	191.18
Reach 9	5044.27	190.68	190.71
Reach 9	5044.26	190.04	190.01
Reach 9	5044.25	188.97	188.94
Reach 9	5044.24	188.3	188.25
Reach 9	5044.23	187.52	187.48
Reach 9	5044.22	186.87	186.82
Reach 9	5044.21	186.64	186.58
Reach 9	5044.2	186.34	186.29

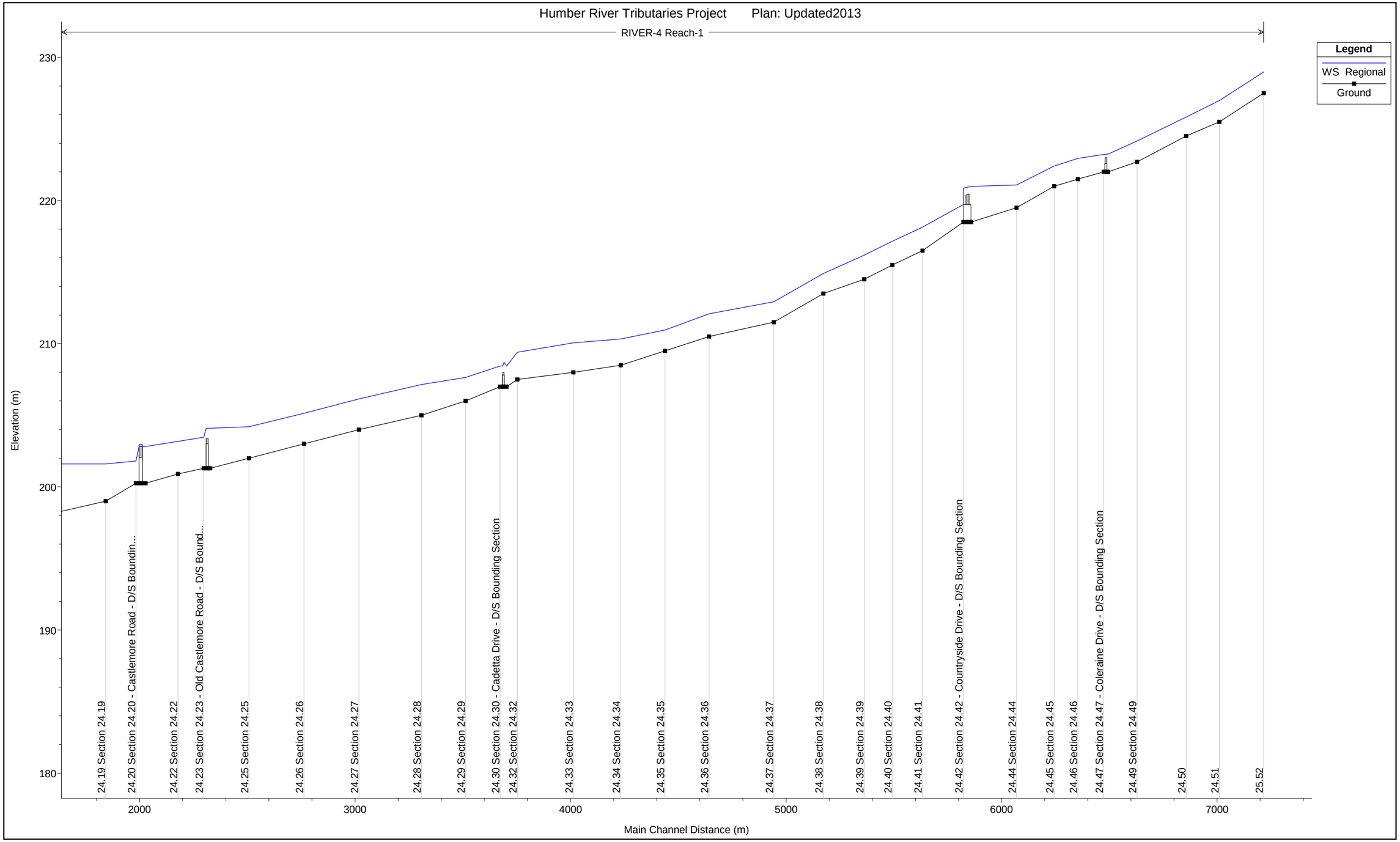
Hec-RAS Cross-sections		Flood Elevation	
		Regional Storm (2002)	Regional Storm (2012)
Reach	River Sta	W.S. Elev	W.S. Elev
Reach 9	5044.19	186.24	186.19
Reach 9	5044.184	186.08	186.04
Reach 9	5044.183	Bridge	
Reach 9	5044.182	185.04	185.05
Reach 9	5044.181	184.82	184.9
Reach 9	5044.18	184.63	184.79
Reach 9	5044.17	184.33	184.57
Reach 9	5044.16	183.66	184.17
Reach 9	5044.15	182.96	184.1
Reach 9	5044.14	182.82	184.07
Reach 9	5044.13	182.7	184.02
Reach 9	5044.12	182.68	184.01
Reach 9	5044.115	182.68	184.01
Reach 9	5044.11	182.68	184.01
Reach 9	5044.104	182.3	183.67
Reach 9	5044.103	Bridge	
Reach 9	5044.102	178.97	179.24
Reach 9	5044.101	178.9	179
Reach 9	5044.1	177.62	177.78
Reach 9	5044.099	177.45	177.67
Reach 9	5044.09	177.19	177.44
Reach 9	5044.084	177.04	177.31
Reach 9	5044.083	177.01	177.29
Reach 9	5044.082	Bridge	
Reach 9	5044.081	176.97	177.28
Reach 9	5044.08	176.96	177.27
Reach 9	5044.07	176.82	177.13
Reach 9	5044.065	176.81	177.13
Reach 9	5044.064	176.79	177.12
Reach 9	5044.063	Culvert	
Reach 9	5044.062	175.47	175.69
Reach 9	5044.061	175.14	175.23
Reach 9	5044.06	174.34	174.43
Reach 9	5044.05	173.36	173.42
Reach 9	5044.04	172.39	172.47
Reach 9	5044.03	172.35	172.42
Reach 9	5044.02	172.33	172.4
Reach 9	5044.013	172.33	172.4
Reach 9	5044.012	Bridge	
Reach 9	5044.011	169.9	169.9
Reach 9	5044.01	168.72	168.79
Reach 9	5044	168.5	168.52
Reach 9	4045.66	168.42	168.43
Reach 9	4045.65	168.19	168.19

Rainbow Creek Tributary

Hec-RAS Model

HEC-RAS Plan: 2 River: RIVER-4 Reach: Reach-1 Profile: Regional

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-1	25.52	Regional	46.80	227.50	228.99	228.99	229.31	0.011982	3.70	34.05	54.91	1.01
Reach-1	24.51	Regional	46.80	225.50	226.99		227.07	0.004312	2.22	66.66	110.76	0.61
Reach-1	24.50	Regional	46.80	224.50	225.83	225.79	226.04	0.011324	3.31	40.50	72.24	0.96
Reach-1	24.49	Regional	46.80	222.70	224.16	224.03	224.27	0.005539	2.49	60.75	113.44	0.69
Reach-1	24.48	Regional	46.80	222.00	223.24	223.24	223.33	0.007491	2.31	81.01	296.00	0.74
Reach-1	24.475		Culvert									
Reach-1	24.47	Regional	46.80	222.00	223.22	223.00	223.25	0.003458	1.54	103.89	288.14	0.50
Reach-1	24.46	Regional	46.80	221.50	222.94		222.98	0.002781	1.74	89.33	155.04	0.48
Reach-1	24.45	Regional	46.80	221.00	222.41		222.55	0.007252	2.77	59.60	134.20	0.78
Reach-1	24.44	Regional	46.80	219.50	221.08		221.27	0.007237	3.01	44.14	66.84	0.80
Reach-1	24.43	Regional	46.80	218.50	220.98	220.70	221.00	0.000395	0.97	193.58	303.08	0.20
Reach-1	24.425		Culvert									
Reach-1	24.42	Regional	46.80	218.50	219.72	219.72	220.05	0.009791	2.93	29.22	51.85	0.91
Reach-1	24.41	Regional	46.80	216.50	218.14		218.32	0.007059	2.99	48.97	86.70	0.79
Reach-1	24.40	Regional	46.80	215.50	217.16		217.33	0.007641	3.11	45.77	71.20	0.81
Reach-1	24.39	Regional	46.80	214.50	216.19		216.37	0.007117	2.88	44.30	65.78	0.75
Reach-1	24.38	Regional	46.80	213.50	214.91		215.00	0.006743	2.58	57.98	102.91	0.74
Reach-1	24.37	Regional	46.80	211.50	212.93	212.93	213.17	0.009540	3.21	46.23	105.00	0.91
Reach-1	24.36	Regional	46.80	210.50	212.09		212.12	0.001630	1.43	91.56	108.77	0.38
Reach-1	24.35	Regional	46.80	209.50	210.95	210.95	211.26	0.019027	4.58	37.55	81.79	1.27
Reach-1	24.34	Regional	46.80	208.50	210.32		210.36	0.001318	1.45	108.67	157.40	0.35
Reach-1	24.33	Regional	46.80	208.00	210.06		210.09	0.001170	1.46	106.57	134.15	0.34
Reach-1	24.32	Regional	48.30	207.50	209.40	209.40	209.56	0.003981	2.56	70.25	184.15	0.62
Reach-1	24.31	Regional	48.30	207.00	208.44	208.03	208.70	0.003966	2.29	21.10	158.03	0.61
Reach-1	24.305		Culvert									
Reach-1	24.30	Regional	48.30	207.00	208.44	208.03	208.49	0.001478	1.31	108.09	287.91	0.35
Reach-1	24.29	Regional	48.30	206.00	207.65	207.65	207.79	0.008115	2.83	61.95	157.97	0.77
Reach-1	24.28	Regional	48.30	205.00	207.15		207.17	0.001345	1.42	143.51	294.99	0.33
Reach-1	24.27	Regional	48.30	204.00	206.14	206.14	206.43	0.007071	3.24	44.11	82.55	0.75
Reach-1	24.26	Regional	48.30	203.00	205.14		205.19	0.002256	1.83	88.83	141.11	0.42
Reach-1	24.25	Regional	52.30	202.00	204.20		204.37	0.004832	2.74	58.78	91.70	0.63
Reach-1	24.24	Regional	52.30	201.30	204.09	203.40	204.13	0.000489	1.18	139.01	150.69	0.23
Reach-1	24.235		Culvert									
Reach-1	24.23	Regional	52.30	201.30	203.47	203.29	203.61	0.002892	2.33	64.68	90.87	0.52
Reach-1	24.22	Regional	52.30	200.90	203.17		203.27	0.002427	2.18	76.39	99.83	0.47
Reach-1	24.21	Regional	52.30	200.25	202.82	201.59	203.00	0.001285	1.92	28.69	130.55	0.38
Reach-1	24.205		Bridge									
Reach-1	24.20	Regional	52.30	200.25	201.81	201.60	202.31	0.006840	3.18	17.34	70.87	0.81
Reach-1	24.19	Regional	52.30	199.00	201.60		201.67	0.001819	1.90	78.04	79.16	0.40
Reach-1	24.18	Regional	52.30	198.00	201.60		201.60	0.000060	0.42	439.64	352.07	0.07
Reach-1	24.17	Regional	52.30	197.00	201.60		201.60	0.000010	0.21	919.45	556.37	0.03
Reach-1	24.16	Regional	52.30	196.65	201.59	199.02	201.60	0.000013	0.28	672.37	458.08	0.04
Reach-1	24.155		Culvert									
Reach-1	24.15	Regional	52.30	196.25	198.28	198.20	198.42	0.002191	1.95	49.73	47.26	0.46
Reach-1	24.14	Regional	56.20	195.00	198.19		198.30	0.001023	1.63	58.16	47.64	0.31
Reach-1	24.13	Regional	56.20	194.50	198.26		198.26	0.000010	0.21	292.14	113.30	0.03
Reach-1	24.12	Regional	56.20	194.00	198.26		198.26	0.000015	0.28	225.01	86.63	0.04
Reach-1	24.11	Regional	56.20	196.00	198.25	197.50	198.26	0.000116	0.53	136.49	95.57	0.11
Reach-1	24.105		Culvert									
Reach-1	24.10	Regional	56.20	192.50	195.73	195.73	196.78	0.013126	5.46	16.14	51.56	0.97
Reach-1	24.09	Regional	56.20	192.40	194.89	194.89	195.28	0.012121	4.23	36.30	44.23	0.85
Reach-1	24.08	Regional	56.20	192.00	194.56		194.70	0.002342	2.13	56.74	51.65	0.43
Reach-1	24.07	Regional	56.20	191.00	194.64		194.64	0.000029	0.35	188.80	74.77	0.06
Reach-1	24.06	Regional	56.20	192.60	194.58	194.25	194.63	0.005921	2.50	68.49	91.54	0.58
Reach-1	24.055		Culvert									
Reach-1	24.05	Regional	56.20	189.30	191.49	191.00	191.52	0.002785	1.84	88.35	97.16	0.41
Reach-1	24.04	Regional	56.20	189.00	190.80	190.80	191.08	0.009559	3.51	45.85	73.62	0.88
Reach-1	24.03	Regional	56.20	188.00	190.56		190.59	0.000916	1.47	104.50	80.23	0.29
Reach-1	24.02	Regional	56.20	187.20	190.54	189.61	190.55	0.000153	0.73	189.18	99.89	0.13
Reach-1	24.015		Culvert									
Reach-1	24.01	Regional	56.20	187.20	188.67	188.67	188.99	0.010008	3.17	36.13	53.81	0.92
Reach-1	24.00	Regional	56.20	186.20	188.28		188.41	0.002491	2.13	65.87	76.04	0.48

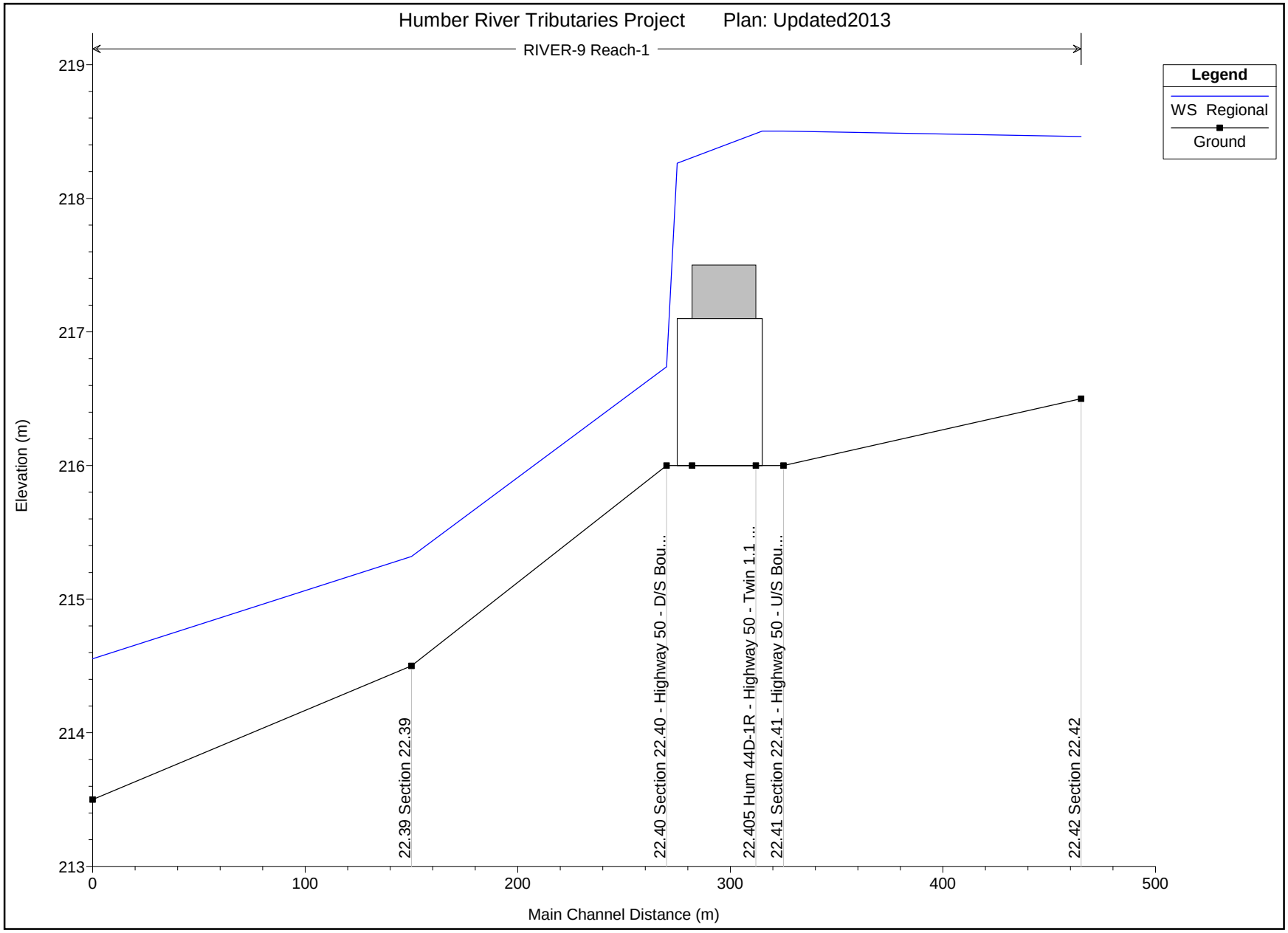

Humber River Tributaries Project Plan: Updated2013
RIVER-4 Reach-1
Legend
WS Regional
Ground
Elevation (m)
230
220
210
200
190
180
24.19 Section 24.19
24.20 Section 24.20 - Castlemore Road - D/S Boundin...
24.22 Section 24.22
24.23 Section 24.23 - Old Castlemore Road - D/S Bound...
24.25 Section 24.25
24.26 Section 24.26
24.27 Section 24.27
24.28 Section 24.28
24.29 Section 24.29
24.30 Section 24.30 - Cadetta Drive - D/S Bounding Section
24.32 Section 24.32
24.33 Section 24.33
24.34 Section 24.34
24.35 Section 24.35
24.36 Section 24.36
24.37 Section 24.37
24.38 Section 24.38
24.39 Section 24.39
24.40 Section 24.40
24.41 Section 24.41
24.42 Section 24.42 - Countryside Drive - D/S Bounding Section
24.44 Section 24.44
24.45 Section 24.45
24.46 Section 24.46
24.47 Section 24.47 - Coleraine Drive - D/S Bounding Section
24.49 Section 24.49
24.50
24.51
25.52
2000
3000
4000
5000
6000
7000
Main Channel Distance (m)

Robinson Creek

Hec-RAS model

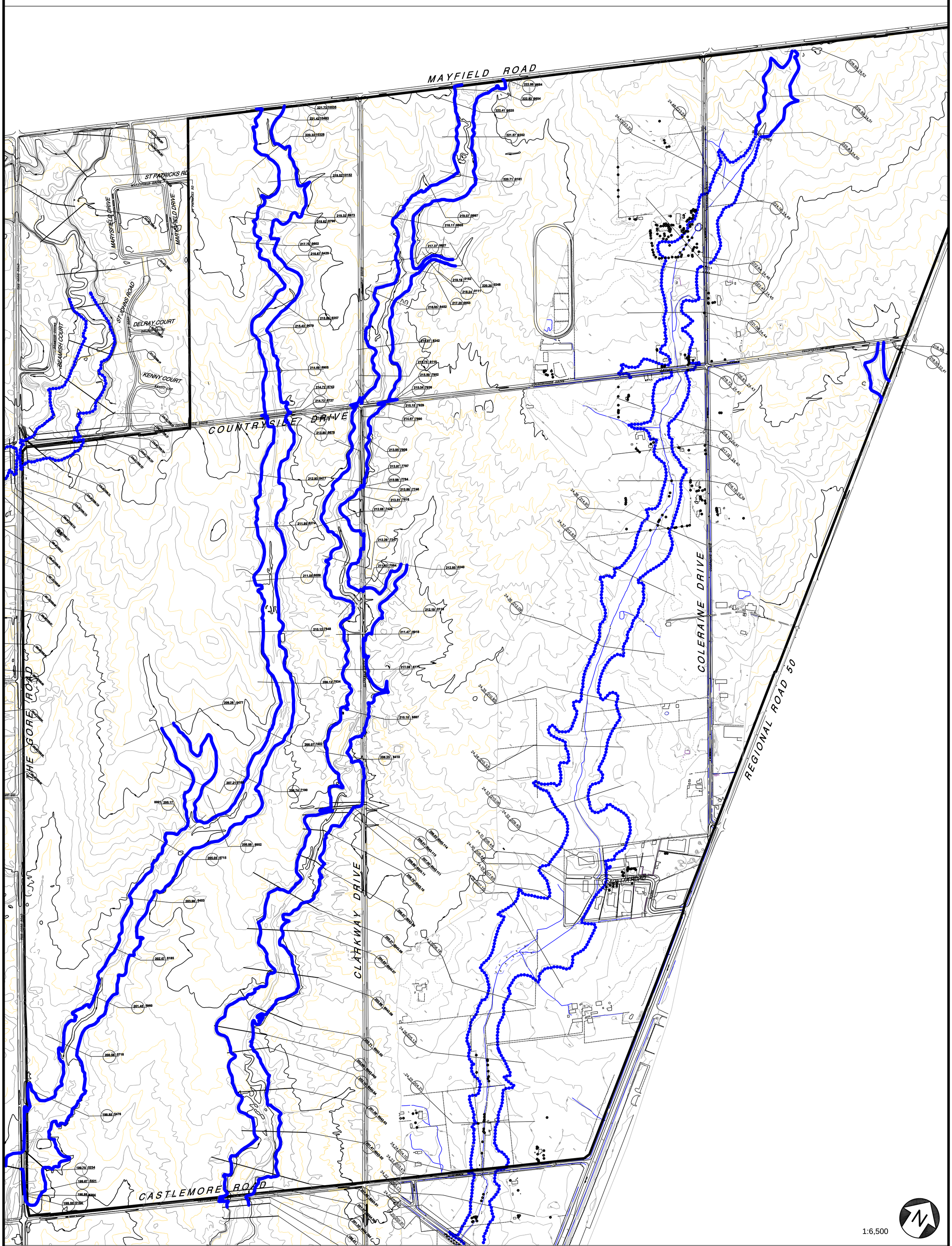
HEC-RAS Plan: 2 River: RIVER-9 Reach: Reach-1 Profile: Regional

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-1	22.42	Regional	7.92	216.50	218.46		218.53	0.001452	1.28	12.94	31.26	0.32
Reach-1	22.41	Regional	7.92	216.00	218.50	216.74	218.50	0.000012	0.17	172.32	247.24	0.03
Reach-1	22.405		Culvert									
Reach-1	22.40	Regional	7.92	216.00	216.74	216.74	217.10	0.013162	2.68	2.96	5.48	0.99
Reach-1	22.39	Regional	7.92	214.50	215.32	215.32	215.49	0.009506	2.10	7.53	26.03	0.81
Reach-1	22.38	Regional	7.92	213.50	214.55		214.58	0.001445	1.00	21.62	55.50	0.33


Humber River Tributaries Project Plan: Updated2013
RIVER-9 Reach-1
Legend
WS Regional
Ground
Elevation (m)
219
218
217
216
215
214
213
0
100
200
300
400
500
Main Channel Distance (m)
22.39 Section 22.39
22.40 Section 22.40 - Highway 50 - D/S Bou...
22.405 Hum 44D-1R - Highway 50 - Twin 1.1 ...
22.41 Section 22.41 - Highway 50 - U/S Bou...
22.42 Section 22.42

MASTER ENVIRONMENTAL SERVICING PLAN
BRAM EAST AREA 47

(CASTLEMORE ROAD - MAYFIELD ROAD / THE GORE ROAD - REGIONAL ROAD 50)



LEGEND:

- REGULATORY FLOOD ELEVATION
- 200.00 1000 HYDRAULIC MODEL CROSS-SECTION
- REQULATORY FLOODLINE (SOURCE: TRCA MODEL AND BASEMAPPING)
- REGULATORY FLOODLINE (SOURCE: AQUAFOR BEECH LTD, AREA 47 MODEL EXTENSION, CITY OF BRAMPTON BASEMAPPING)

FIGURE D.1
AREA 47 FLOOD LINE MAPPING

AquaforBeech Limited
8177 TORBRAM ROAD,
BRAMPTON, ONTARIO, L6T 5C5
PHONE: (905) 790-3885, FAX: (905) 790-4090
WEB: www.aquaforbeech.com

APPENDIX E:

COMPREHENSIVE LIST OF ALL VASCULAR FLORA OBSERVED IN THE STUDY AREA

Family	Scientific Name	Common Name	CC	CW	G-Rank	S-Rank	TRCA L-Rank
ACERACEAE	Acer ginnala*	Amur Maple	0	5	G?	SE1	L+
ACERACEAE	Acer negundo	Manitoba Maple	0	-2	G5	S5	L+?
ACERACEAE	Acer platanoides	Norway Maple	0	5	G?	SE5	L+
ACERACEAE	Acer saccharinum	Silver Maple	5	-3	G5	S5	L4
ACERACEAE	Acer saccharum ssp. nigrum	Black Maple	7	3	G5Q	S4?	L4
ACERACEAE	Acer saccharum ssp. saccharum	Sugar Maple	4	3	G5	S5	L5
ACERACEAE	Acer X freemanii	Freeman's Maple	n/a	n/a	G?	S5	L3
ALISMATACEAE	Alisma plantago-aquatica	Common Water-plantain	3	-5	G5	S5	L5
ALISMATACEAE	Sagittaria latifolia	Common Arrowhead	4	-5	G5	S5	L4
AMARANTHACEAE	Amaranthus retroflexus	Redroot Pigweed	0	2	G?	SE5	L+
ANACARDIACEAE	Rhus radicans ssp. rydbergii	Western Poison-ivy	0	0	G5	S5	L5
ANACARDIACEAE	Rhus typhina	Staghorn Sumac	1	5	G5	S5	L5
APIACEAE	Daucus carota	Wild Carrot	0	5	G?	SE5	L+
APIACEAE	Pastinaca sativa	Wild Parsnip	0	5	G?	SE5	L+
APOCYNACEAE	Apocynum cannabinum	Indian Hemp	3	0	G5	S5	L5
APOCYNACEAE	Vinca minor	Periwinkle	0	5	G?	SE5	L+
ARALIACEAE	Aralia nudicaulis	Wild Sarsaparilla	4	3	G5	S5	L5
ASCLEPIADACEAE	Asclepias syriaca	Common Milkweed	0	5	G5	S5	L5
ASCLEPIADACEAE	Cynanchum rossicum	White Swallow-wort	0	5	G?	SE5	L+
ASPARAGACEAE	Hyacinthus orientalis	Common Hyacinth	n/a	n/a	n/a	n/a	L+
ASTERACEAE	Achillea millefolium ssp. millefolium	Common Yarrow	0	3	G5	SE	L+
ASTERACEAE	Ambrosia artemisiifolia	Common Ragweed	0	3	G5	S5	L5
ASTERACEAE	Arctium lappa	Great Burdock	0	5	G?	SE5	L+
ASTERACEAE	Arctium minus ssp. minus	Common Burdock	0	5	G?	SE5	L+
ASTERACEAE	Artemisia biennis	Biennial Wormwood	0	-2	G5	SE5	L+
ASTERACEAE	Aster ericoides var. ericoides	Heath Aster	4	4	G5	S5	L5
ASTERACEAE	Aster lanceolatus ssp. lanceolatus	Panicled Aster	3	-3	G5	S5	L5
ASTERACEAE	Aster lateriflorus var. lateriflorus	One-sided Aster	3	-2	G5	S5	L5
ASTERACEAE	Aster novae-angliae	New England Aster	2	-3	G5	S5	L5
ASTERACEAE	Aster puniceus var. puniceus	Purple-stem Aster	6	-5	G5	S5	L5
ASTERACEAE	Aster X amethystinus	Amethyst Aster	0	0	G?	S3?	L4
ASTERACEAE	Bidens cernua	Nodding Beggar-ticks	2	-5	G5	S5	L5
ASTERACEAE	Bidens frondosa	Devil's Beggar-ticks	3	-3	G5	S5	L5
ASTERACEAE	Bidens tripartita	Three-lobed Beggar-ticks	4	-3	G5	S5	L4
ASTERACEAE	Bidens vulgata	Tall Beggar-ticks	5	-3	G5	S5	L4
ASTERACEAE	Carduus nutans ssp. leiophyllus	Nodding Thistle	0	5	G?	SE5	L+
ASTERACEAE	Centaurea maculosa	Spotted Knapweed	0	5	G?	SE5	L+
ASTERACEAE	Cichorium intybus	Chicory	0	5	G?	SE5	L+
ASTERACEAE	Cirsium arvense	Canada Thistle	0	3	G?	SE5	L+
ASTERACEAE	Cirsium vulgare	Bull Thistle	0	4	G5	SE5	L+
ASTERACEAE	Conyza canadensis	Horseweed	0	1	G5	S5	L5
ASTERACEAE	Echinops sphaerocephalus	Common Globe-thistle	0	5	G?	SE4	L+
ASTERACEAE	Erigeron annuus	Daisy Fleabane	0	1	G5	S5	L5
ASTERACEAE	Erigeron philadelphicus ssp. philadelphicus	Philadelphia Fleabane	1	-3	G5	S5	L5
ASTERACEAE	Erigeron strigosus	Lesser Daisy Fleabane	0	1	G5	S5	L5
ASTERACEAE	Eupatorium maculatum ssp. maculatum	Spotted Joe-pye-weed	3	-5	G5	S5	L5
ASTERACEAE	Eupatorium perfoliatum	Common Boneset	2	-4	G5	S5	L4
ASTERACEAE	Eupatorium rugosum	White Snakeroot	5	3	G5	S5	L5
ASTERACEAE	Euthamia graminifolia	Grass-leaved Goldenrod	2	-2	G5	S5	L5
ASTERACEAE	Helianthus tuberosus	Jerusalem Artichoke	0	0	G5	SE5	L5
ASTERACEAE	Inula helenium	Elecampane	0	5	G?	SE5	L+

Family	Scientific Name	Common Name	CC	CW	G-Rank	S-Rank	TRCA L-Rank
ASTERACEAE	Matricaria perforata	Scentless Chamomile	0	5	G?	SE	L+
ASTERACEAE	Rudbeckia hirta	Black-eyed Susan	0	3	G5	S5	L4
ASTERACEAE	Solidago altissima var. altissima	Tall Goldenrod	1	3	G?	S5	L5
ASTERACEAE	Solidago flexicaulis	Zig-zag Goldenrod	6	3	G5	S5	L5
ASTERACEAE	Solidago gigantea	Giant Goldenrod	4	-3	G5	S5	L5
ASTERACEAE	Solidago juncea	Early Goldenrod	3	5	G5	S5	L5
ASTERACEAE	Solidago nemoralis ssp. nemoralis	Gray Goldenrod	2	5	G5	S5	L5
ASTERACEAE	Sonchus arvensis ssp. arvensis	Field Sow-thistle	0	1	G?	SE5	L+
ASTERACEAE	Sonchus oleraceus	Common Sow-thistle	0	3	G?	SE5	L+
ASTERACEAE	Tanacetum vulgare	Tansy	0	5	G?	SE5	L+
ASTERACEAE	Taraxacum erythrospermum	Red-seeded Dandelion	0	5	G?	SE5	L+
ASTERACEAE	Taraxacum officinale	Common Dandelion	0	3	G5	SE5	L+
ASTERACEAE	Tussilago farfara	Coltsfoot	0	3	G?	SE5	L+
ASTERACEAE	Xanthium strumarium	Cocklebur	2	0	G?	S5	L+
BALSAMINACEAE	Impatiens capensis	Spotted Touch-me-not	4	-3	G5	S5	L5
BALSAMINACEAE	Impatiens glandulifera	Pink Touch-me-not	0	-3	G?	SE4	L+
BERBERIDACEAE	Podophyllum peltatum	Mayapple	5	3	G5	S5	L5
BORAGINACEAE	Cynoglossum officinale	Common Hound's-tongue	0	5	G?	SE5	L+
BORAGINACEAE	Lithospermum officinale	Common Gromwell	0	5	G?	SE5	L+
BORAGINACEAE	Myosotis scorpioides	Common Forget-me-not	0	-5	G5	SE5	L+
BRASSICACEAE	Alliaria petiolata	Garlic Mustard	0	0	G?	SE5	L+
BRASSICACEAE	Barbarea vulgaris	Common Wintercress	0	0	G?	SE5	L+
BRASSICACEAE	Brassica rapa	Wild Turnip	0	5	G?	SE5	L+
BRASSICACEAE	Erysimum cheiranthoides ssp. cheiranthoides	Wormseed Mustard	0	3	G5	SE5	L+
BRASSICACEAE	Hesperis matronalis	Dame's Rocket	0	5	G4G5	SE5	L+
BRASSICACEAE	Thlaspi arvense	Field Penny-cress	0	5	G?	SE5	L+
CAMPANULACEAE	Campanula rapunculoides	European Bellflower	0	5	G?	SE5	L+
CAPRIFOLIACEAE	Lonicera morrowii	Morrow's Honeysuckle	0	5	G?	SE3	L+
CAPRIFOLIACEAE	Lonicera tatarica	Tartarian Honeysuckle	0	3	G?	SE5	L+
CAPRIFOLIACEAE	Viburnum opulus	European Highbush Cranberry	0	0	G5	SE4	L+
CELASTRACEAE	Celastrus scandens	Climbing Bittersweet	3	3	G5	S5	L3
CELASTRACEAE	Euonymus obovata	Running Strawberry-bush	6	5	G5	S5	L3
CERATOPHYLLACEAE	Ceratophyllum demersum	Common Coontail	4	-5	G5	S5	L3
CHENOPODIACEAE	Atriplex patula	Spearscale	0	-2	G5	S5	L+?
CHENOPODIACEAE	Chenopodium album var. album	Lamb's Quarters	0	1	G5	SE5	L+
CHENOPODIACEAE	Chenopodium glaucum ssp. glaucum	Oak-leaved Goosefoot	0	-3	G5	SE5	L+
CLUSIACEAE	Hypericum perforatum	Common St. John's-wort	0	5	G?	SE5	L+
CONVOLVULACEAE	Convolvulus arvensis	Field Bindweed	0	5	G?	SE5	L+
CORNACEAE	Cornus amomum ssp. obliqua	Silky Dogwood	5	-4	G5	S5	L3
CORNACEAE	Cornus foemina ssp. racemosa	Grey Dogwood	2	-2	G5	S5	L5
CORNACEAE	Cornus rugosa	Rough-leaved Dogwood	6	5	G5	S5	L4
CORNACEAE	Cornus stolonifera	Red-osier Dogwood	2	-3	G5	S5	L5
CRASSULACEAE	Penthorum sedoides	Virginia Stonecrop	4	-5	G5	S5	L4
CUCURBITACEAE	Echinocystis lobata	Wild Cucumber	3	-2	G5	S5	L5
CUPRESSACEAE	Juniperus virginiana	Eastern Red Cedar	4	3	G5	S5	L5
CUPRESSACEAE	Thuja occidentalis*	Eastern White Cedar	4	-3	G5	S5	L4
CYPERACEAE	Carex blanda	Common Wood Sedge	3	0	G5?	S5	L5
CYPERACEAE	Carex cristatella	Crested Sedge	3	-4	G5	S5	L5
CYPERACEAE	Carex retrorsa	Retrorse Sedge	5	-5	G5	S5	L4
CYPERACEAE	Carex spicata	Spiked Sedge	0	5	G?	SE5	L+
CYPERACEAE	Carex vulpinoidea	Fox Sedge	3	-5	G5	S5	L5

Family	Scientific Name	Common Name	CC	CW	G-Rank	S-Rank	TRCA L-Rank
CYPERACEAE	Cyperus esculentus	Field Nut Sedge	1	-3	G5	S5	L+?
CYPERACEAE	Eleocharis erythropoda	Red-stemmed Spike-rush	4	-5	G5	S5	L5
CYPERACEAE	Eleocharis obtusa	Blunt Spike-rush	5	-5	G5	S5	L4
CYPERACEAE	Scirpus atrovirens	Black Bulrush	3	-5	G5?	S5	L5
CYPERACEAE	Scirpus validus	Softstem Bulrush	5	-5	G?	S5	L4
DIPSACACEAE	Dipsacus fullonum ssp. sylvestris	Common Teasel	0	5	G?	SE5	L+
DRYOPTERIDACEAE	Dryopteris carthusiana	Spinulose Wood Fern	5	-2	G5	S5	L5
DRYOPTERIDACEAE	Onoclea sensibilis	Sensitive Fern	4	-3	G5	S5	L5
ELAEAGNACEAE	Elaeagnus angustifolia	Russian Olive	0	4	G?	SE3	L+
ELAEAGNACEAE	Elaeagnus umbellata	Autumn Olive	0	3	G?	SE3	L+
EQUISETACEAE	Equisetum arvense	Field Horsetail	0	0	G5	S5	L5
EQUISETACEAE	Equisetum variegatum ssp. variegatum	Variegated Horsetail	5	-3	G5	S5	L4
EUPHORBIACEAE	Euphorbia cyparissias	Cypress Spurge	0	5	G5	SE5	L+
FABACEAE	Lotus corniculatus	Bird's-foot Trefoil	0	1	G?	n/a	L+
FABACEAE	Medicago lupulina	Black Medick	0	1	G?	SE5	L+
FABACEAE	Medicago sativa ssp. sativa	Alfalfa	0	5	G?	SE5	L+
FABACEAE	Melilotus alba	White Sweet-clover	0	3	G5	SE5	L+
FABACEAE	Robinia pseudo-acacia	Black Locust	0	4	G5	SE5	L+
FABACEAE	Trifolium pratense	Red Clover	0	2	G?	SE5	L+
FABACEAE	Trifolium repens	White Clover	0	2	G?	SE5	L+
FABACEAE	Vicia cracca	Cow Vetch	0	5	G?	SE5	L+
FAGACEAE	Quercus macrocarpa	Bur Oak	5	1	G5	S5	L4
FAGACEAE	Quercus robur*	English Oak	n/a	n/a	n/a	n/a	L+
FAGACEAE	Quercus rubra*	Red Oak	6	3	G5	S5	L4
GERANIACEAE	Geranium robertianum	Herb Robert	0	5	G5	SE5	L+?
GROSSULARIACEAE	Ribes americanum	Wild Black Currant	4	-3	G5	S5	L5
GROSSULARIACEAE	Ribes rubrum	Garden Red Currant	0	5	G4G5	SE5	L+
HIPPOCASTANACEAE	Aesculus hippocastanum*	Horse Chestnut	0	5	G?	SE2	L+
HYDROCHARITACEAE	Elodea canadensis	Canada Waterweed	4	-5	G5	S5	L4
HYDROPHYLLACEAE	Hydrophyllum virginianum	Virginia Water-leaf	6	-2	G5	S5	L5
IRIDACEAE	Iris pseudacorus	Yellow Iris	0	-5	G?	SE3	L+
JUGLANDACEAE	Carya cordiformis	Bitternut Hickory	6	0	G5	S5	L4
JUGLANDACEAE	Carya ovata	Shagbark Hickory	6	3	G5	S5	L3
JUGLANDACEAE	Juglans nigra	Black Walnut	5	3	G5	S4	L5
JUNCACEAE	Juncus articulatus	Jointed Rush	5	-5	G5	S5	L5
JUNCACEAE	Juncus dudleyi	Dudley's Rush	1	0	G5	S5	L5
JUNCACEAE	Juncus effusus ssp. solutus	Soft Rush	4	-5	G5	S5	L4
JUNCACEAE	Juncus tenuis	Path Rush	0	0	G5	S5	L5
LAMIACEAE	Ajuga reptans	Common Bugle	0	5	G?	SE2	L+
LAMIACEAE	Glechoma hederacea	Ground Ivy	0	3	G?	SE5	L+
LAMIACEAE	Leonurus cardiaca ssp. cardiaca	Motherwort	0	5	G?	SE5	L+
LAMIACEAE	Lycopus americanus	Cut-leaved Water-horehound	4	-5	G5	S5	L4
LAMIACEAE	Lycopus uniflorus	Northern Water-horehound	5	-5	G5	S5	L4
LAMIACEAE	Mentha arvensis ssp. borealis	Wild Mint	3	-3	G5	S5	L5
LAMIACEAE	Mentha X piperita	Peppermint	0	-5	G?	SE4	L+
LAMIACEAE	Nepeta cataria	Catnip	0	1	G?	SE5	L+
LAMIACEAE	Prunella vulgaris ssp. vulgaris	Selfheal	0	0	G5	SE3	L+
LEMNACEAE	Lemna minor	Lesser Duckweed	2	-5	G5	S5	L5
LEMNACEAE	Spirodela polyrhiza	Great Duckweed	4	-5	G5	S5	L3
LEMNACEAE	Wolffia borealis	Dotted Water Meal	4	-5	G5	S4S5	L3
LEMNACEAE	Wolffia columbiana	Columbia Water Meal	4	-5	G5	S4S5	L4

Family	Scientific Name	Common Name	CC	CW	G-Rank	S-Rank	TRCA L-Rank
LILIACEAE	Asparagus officinalis	Asparagus	0	3	G5?	SE5	L+
LILIACEAE	Convallaria majalis	Lily-of-the-valley	0	5	G5	SE5	L+
LILIACEAE	Erythronium americanum ssp. americanum	Yellow Trout Lily	5	5	G5	S5	L5
LILIACEAE	Hemerocallis fulva	Tawny Day-lily	0	5	G?	SE5	L+
LILIACEAE	Lilium michiganense	Michigan Lily	7	-1	G5	S5	L3
LILIACEAE	Maianthemum racemosum ssp. racemosum	False Solomon's Seal	4	3	G5	S5	L5
LYTHRACEAE	Lythrum salicaria	Purple Loosestrife	0	-5	G5	SE5	L+
MALVACEAE	Abutilon theophrasti	Velvetleaf	0	4	G?	SE5	L+
MORACEAE	Morus alba	White Mulberry	0	0	G?	SE5	L+
OLEACEAE	Fraxinus americana	White Ash	4	3	G5	S5	L5
OLEACEAE	Fraxinus pennsylvanica	Red Ash	3	-3	G5	S5	L5
OLEACEAE	Syringa vulgaris	Common Lilac	0	5	G?	SE5	L+
ONAGRACEAE	Circaea lutetiana ssp. canadensis	Canada Enchanter's Nightshade	3	3	G5	S5	L5
ONAGRACEAE	Epilobium ciliatum ssp. ciliatum	American Willow-herb	3	3	G5	S5	L5
ONAGRACEAE	Epilobium parviflorum	Small-flowered Willow-herb	0	3	G?	SE4	L+
ONAGRACEAE	Ludwigia palustris	Marsh Purslane	5	-5	G5	S5	L3
ONAGRACEAE	Oenothera biennis	Common Evening-primrose	0	3	G5	S5	L5
ORCHIDACEAE	Epipactis helleborine	Helleborine	0	5	G?	SE5	L+
OSMUNDACEAE	Osmunda cinnamomea*	Cinnamon Fern	7	-3	G5	S5	L3
OXALIDACEAE	Oxalis stricta	Upright Yellow Wood-sorrel	0	3	G5	S5	L5
PAPAVERACEAE	Chelidonium majus	Celandine	0	5	G?	SE5	L+
PINACEAE	Picea abies	Norway Spruce	0	5	G?	SE3	L+
PINACEAE	Picea glauca*	White Spruce	6	3	G5	S5	L3
PINACEAE	Picea pungens*	Colorado Blue Spruce	n/a	n/a	n/a	n/a	L+
PINACEAE	Pinus banksiana*	Jack Pine	9	3	G5	S5	L+
PINACEAE	Pinus resinosa*	Red Pine	8	3	G5	S5	L2
PINACEAE	Pinus strobus	Eastern White Pine	4	3	G5	S5	L4
PINACEAE	Pinus sylvestris	Scots Pine	0	5	G?	SE5	L+
PLANTAGINACEAE	Plantago lanceolata	Ribgrass	0	0	G5	SE5	L+
PLANTAGINACEAE	Plantago major	Common Plantain	0	-1	G5	SE5	L+
POACEAE	Agrostis gigantea	Redtop Grass	0	0	G4G5	SE5	L+
POACEAE	Agrostis stolonifera	Creeping Bent Grass	0	-3	G5	S5	L+?
POACEAE	Bromus inermis ssp. inermis	Smooth Brome	0	5	G4G5	SE5	L+
POACEAE	Dactylis glomerata	Orchard Grass	0	3	G?	SE5	L+
POACEAE	Digitaria sanguinalis	Large Crabgrass	0	3	G5	SE5	L+
POACEAE	Echinochloa crusgalli	Barnyard Grass	0	-3	G?	SE5	L+
POACEAE	Elymus repens	Quack Grass	0	3	G5	SE5	L+
POACEAE	Festuca arundinacea	Tall Fescue	0	2	G?	SE5	L+
POACEAE	Festuca pratensis	Meadow Fescue	0	4	G5	SE5	L+
POACEAE	Festuca rubra	Red Fescue	0	1	G5	S5	L+
POACEAE	Hordeum jubatum ssp. jubatum	Squirrel-tail Grass	0	-1	G5	SE5	L+
POACEAE	Leersia oryzoides	Rice Cut Grass	3	-5	G5	S5	L5
POACEAE	Lolium perenne	Perennial Rye Grass	0	3	G?	SE4	L+
POACEAE	Panicum capillare	Witch Panic Grass	0	0	G5	S5	L5
POACEAE	Panicum virgatum	Switch Grass	6	-1	G5	S4	L3
POACEAE	Phalaris arundinacea	Reed Canary Grass	0	-4	G5	S5	L+?
POACEAE	Phleum pratense	Timothy	0	3	G?	SE5	L+
POACEAE	Phragmites australis	Common Reed	0	-4	G5	S5	L+?
POACEAE	Poa compressa	Canada Blue Grass	0	2	G?	S5	L+
POACEAE	Poa palustris	Fowl Blue Grass	5	-4	G5	S5	L5
POACEAE	Poa pratensis ssp. pratensis	Kentucky Blue Grass	0	1	G?	S5	L+

Family	Scientific Name	Common Name	CC	CW	G-Rank	S-Rank	TRCA L-Rank
POACEAE	Setaria faberi	Giant Foxtail	0	2	G?	SE4	L+
POACEAE	Setaria pumila	Yellow Foxtail	0	0	G?	SE5	L+
POACEAE	Setaria viridis	Green Foxtail	0	5	G?	SE5	L+
POACEAE	Zea mays	Corn	0	5	GU	SE2	L+
POLEMONIACEAE	Phlox paniculata	Fall Phlox	0	3	G5	SE3	L+
POLYGONACEAE	Polygonum amphibium	Water Smartweed	5	-5	G5	S5	L4
POLYGONACEAE	Polygonum cuspidatum	Japanese Knotweed	0	3	G?	SE4	L+
POLYGONACEAE	Polygonum hydropiper	Common Smartweed	0	-5	G5	SE5	L+?
POLYGONACEAE	Polygonum lapathifolium	Pale Smartweed	2	-4	G5	S5	L5
POLYGONACEAE	Polygonum persicaria	Lady's Thumb	0	-3	G?	SE5	L+
POLYGONACEAE	Rumex acetosella ssp. acetosella	Sheep Sorrel	0	0	G?	SE5	L+
POLYGONACEAE	Rumex crispus	Curly Dock	0	-1	G?	SE5	L+
PORTULACACEAE	Claytonia virginica	Virginia Spring Beauty	5	3	G5	S5	L3
POTAMOGETONACEAE	Potamogeton nodosus	Long-leaved Pondweed	7	-5	G5	S5	L2
POTAMOGETONACEAE	Potamogeton pectinatus	Sago Pondweed	4	-5	G5	S5	L4
POTAMOGETONACEAE	Potamogeton zosteriformis	Flat-stem Pondweed	5	-5	G5	S5	L2
PRIMULACEAE	Anagallis arvensis	Scarlet Pimpernel	0	4	G?	SE4	L+
PRIMULACEAE	Lysimachia ciliata	Fringed Loosestrife	4	-3	G5	S5	L5
PRIMULACEAE	Lysimachia nummularia	Moneywort	0	-4	G?	SE5	L+
RANUNCULACEAE	Ranunculus acris	Tall Buttercup	0	-2	G5	SE5	L+
RANUNCULACEAE	Ranunculus sceleratus var. sceleratus	Cursed Crowfoot	2	-5	G5	S5	L5
RHAMNACEAE	Rhamnus cathartica	Common Buckthorn	0	3	G?	SE5	L+
ROSACEAE	Agrimonia gryposepala	Tall Agrimony	2	2	G5	S5	L5
ROSACEAE	Amelanchier laevis	Smooth Serviceberry	5	5	G4G5Q	S5	L4
ROSACEAE	Crataegus macracantha	Long-spined Hawthorn	4	5	G?	S5	L4
ROSACEAE	Crataegus monogyna	One-seeded Hawthorn	0	5	G5	SE5	L+
ROSACEAE	Crataegus punctata	Dotted Hawthorn	4	5	G5	S5	L5
ROSACEAE	Fragaria vesca ssp. americana	Woodland Strawberry	4	4	G5	S5	L5
ROSACEAE	Fragaria virginiana ssp. virginiana	Common Strawberry	2	1	G5	S5	L5
ROSACEAE	Geum aleppicum	Yellow Avens	2	-1	G5	S5	L5
ROSACEAE	Malus pumila*	Common Apple	0	5	G5	SE5	L+
ROSACEAE	Potentilla norvegica ssp. monspeliensis	Rough Cinquefoil	0	0	G5	S5	L+?
ROSACEAE	Potentilla recta	Rough-fruited Cinquefoil	0	5	G?	SE5	L+
ROSACEAE	Prunus nigra	Canada Plum	4	4	G4G5	S4	L3
ROSACEAE	Prunus virginiana ssp. virginiana	Choke Cherry	2	1	G5	S5	L5
ROSACEAE	Pyrus communis	Common Pear	0	5	G5	SE4	L+
ROSACEAE	Rosa blanda	Smooth Wild Rose	3	3	G5	S5	L4
ROSACEAE	Rosa multiflora	Multiflora Rose	0	3	G?	SE4	L+
ROSACEAE	Rubus allegheniensis	Common Blackberry	2	2	G5	S5	L5
ROSACEAE	Rubus idaeus ssp. melanolasius	Wild Red Raspberry	0	-2	G5	S5	L5
ROSACEAE	Rubus occidentalis	Black Raspberry	2	5	G5	S5	L5
ROSACEAE	Sorbus aucuparia*	European Mountain-ash	0	5	G5	SE4	L+
RUBIACEAE	Galium aparine	Cleavers	4	3	G5	S5	L4
RUBIACEAE	Galium palustre	Marsh Bedstraw	5	-5	G5	S5	L5
RUBIACEAE	Galium triflorum	Fragrant Bedstraw	4	2	G5	S5	L5
SALICACEAE	Populus alba	European White Poplar	0	5	G5	SE5	L+
SALICACEAE	Populus deltoides ssp. deltoides	Eastern Cottonwood	4	-1	G5	S5	L5
SALICACEAE	Populus tremuloides	Trembling Aspen	2	0	G5	S5	L5
SALICACEAE	Populus X heimburgeri	Heimburger's Poplar	n/a	n/a	n/a	n/a	L+
SALICACEAE	Salix alba	White Willow	0	-3	G5	SE4	L+
SALICACEAE	Salix bebbiana	Bebb's Willow	4	-4	G5	S5	L4

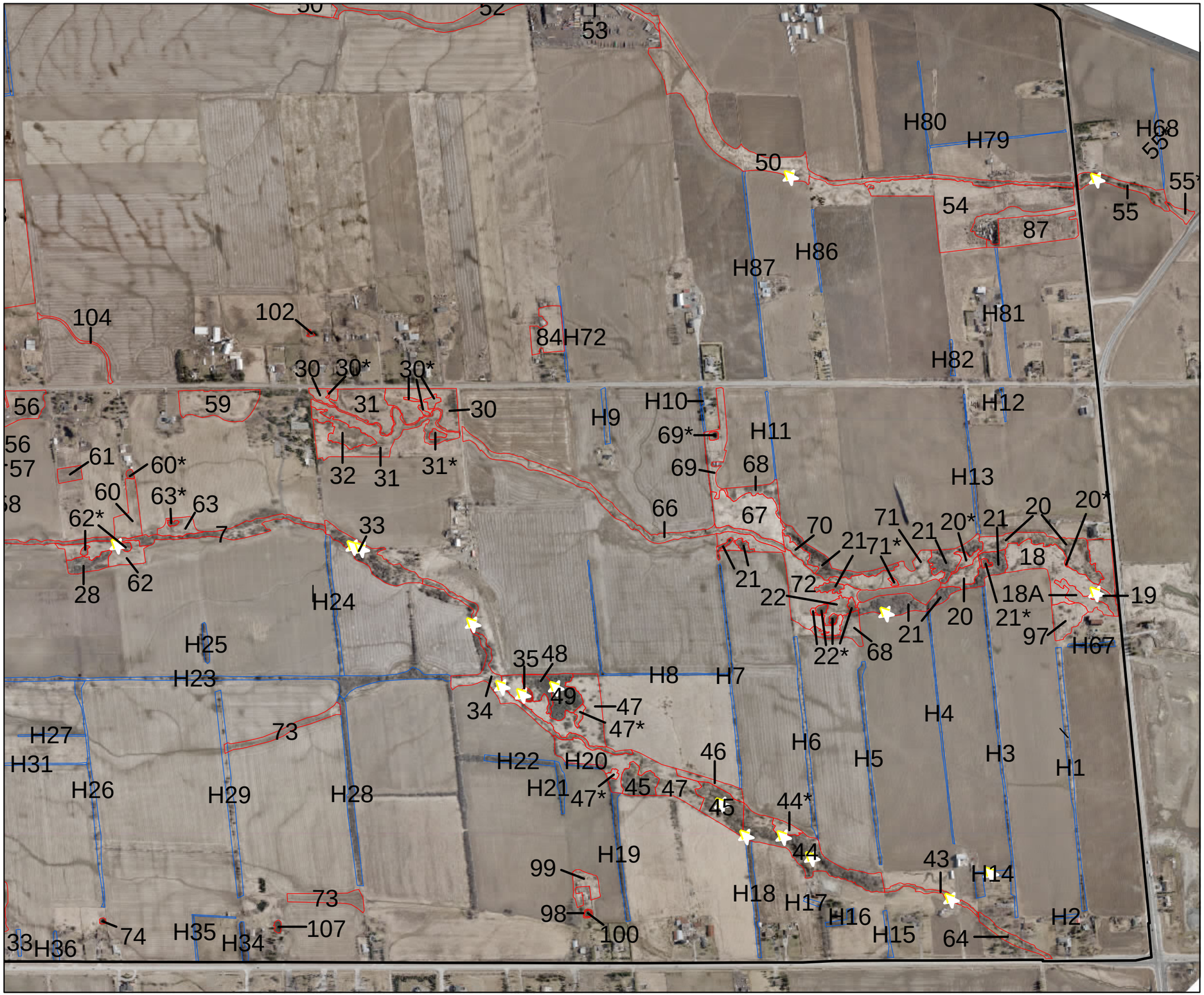
Family	Scientific Name	Common Name	CC	CW	G-Rank	S-Rank	TRCA L-Rank
SALICACEAE	Salix discolor	Pussy Willow	3	-3	G5	S5	L4
SALICACEAE	Salix eriocephala	Woolly-headed Willow	4	-3	G5	S5	L5
SALICACEAE	Salix exigua	Sandbar Willow	3	-5	G5	S5	L5
SALICACEAE	Salix fragilis	Crack Willow	0	-1	G?	SE5	L+
SALICACEAE	Salix X rubens	Hybrid White Willow	0	-4	G?	SE4	L+
SALICACEAE	Salix X sepulcralis*	Weeping Willow	n/a	n/a	n/a	n/a	L+
SCROPHULARIACEAE	Linaria vulgaris	Butter-and-eggs	0	5	G?	SE5	L+
SCROPHULARIACEAE	Mimulus ringens	Square-stemmed Monkey-flower	6	-5	G5	S5	L4
SCROPHULARIACEAE	Verbascum thapsus	Common Mullein	0	5	G?	SE5	L+
SOLANACEAE	Solanum dulcamara	Bittersweet Nightshade	0	0	G?	SE5	L+
SPARGANIACEAE	Sparganium emersum ssp. emersum	Narrow-leaved Bur-reed	5	-5	G5	S5	L3
SPARGANIACEAE	Sparganium eurycarpum	Giant Bur-reed	3	-5	G5	S5	L3
TILIACEAE	Tilia americana	Basswood	4	3	G5	S5	L5
TYPHACEAE	Typha angustifolia	Narrow-leaved Cattail	3	-5	G5	S5	L+
TYPHACEAE	Typha latifolia	Broad-leaved Cattail	3	-5	G5	S5	L4
TYPHACEAE	Typha X glauca	Hybrid Cattail	3	-5	G?	S4?	L+
ULMACEAE	Ulmus americana	White Elm	3	-2	G5?	S5	L5
ULMACEAE	Ulmus pumila	Siberian Elm	0	5	G?	SE3	L+
URTICACEAE	Urtica dioica ssp. dioica	European Stinging Nettle	0	-1	G5T?	SE2	L+
VERBENACEAE	Verbena hastata	Blue Vervain	4	-4	G5	S5	L5
VERBENACEAE	Verbena urticifolia	White Vervain	4	-1	G5	S5	L5
VIOLACEAE	Viola canadensis	Canada Violet	6	5	G5	S5	L3
VIOLACEAE	Viola sororia	Common Blue Violet	4	1	G5	S5	L5
VITACEAE	Parthenocissus inserta	Thicket Creeper	3	3	G5	S5	L5
VITACEAE	Vitis riparia	Riverbank Grape	0	-2	G5	S5	L5

Polygon Number	Area (ha)	Community Classification	Polygon Number	Area (ha)	Community Classification	Polygon Number	Area (ha)	Community Classification	Polygon Number	Area (ha)	Community Classification	Polygon Number	Area (ha)	Community Classification
0	0.87	CUS1	**20***	0.01	SWT2-2	**34**	1.11	MAM2	**62**	0.73	CUM1-1	**90**	0.30	CUM1-1
0*	0.02	MAS2-1	**21**	0.40	CUT1	**35**	0.03	SWT2-2	**62***	0.05	SWT2-2	**91**	0.03	MAS2-1
1	5.91	CUM1-1	**21**	0.79	CUT1	**36**	0.39	CUM1-1	**62***	0.03	SWT2-2	**92**	0.02	MAS2-1
1	0.77	CUM1-1	**21**	0.61	CUT1	**36**	0.10	CUM1-1	**63**	0.20	CUM1-1	**93**	0.07	MAS2
1*	0.43	MAM2-10	**21**	0.12	CUT1	**37**	0.13	MAM2-2	**63**	0.30	CUM1-1	**94**	0.02	MAS1
2	0.14	SWT2-2	**21**	0.55	CUT1	**38**	0.22	MAS2	**63***	0.03	SWT2-2	**95**	0.41	CUM1-1
3	2.05	CUW1	**21**	0.08	CUT1	**39**	0.29	MAS2-1	**64**	0.32	SWD4-1	**96**	0.04	MAS2-1
3*	0.07	SWD3-3	**21**	0.05	CUT1	**40**	1.84	CUM1-1	**65**	0.83	CUM1-1	**97**	0.50	CUT1
4	1.81	CUS1	**21***	0.04	CUT1-5	**41**	0.68	CUT1	**66**	1.27	CUM1-1	**98**	0.02	SWD4-1
5	0.13	CUM1-1	**22**	0.23	MAM2-10	**41***	0.02	MAS2-1	**67**	1.33	MAM2-2	**99**	0.33	CUM1-1
5	0.06	CUM1-1	**22***	0.04	SWT2-2	**42**	0.16	CUW1	**68**	0.38	CUT1	**100**	0.02	SAF1-3
5	1.39	CUM1-1	**22***	0.05	SWT2-2	**43**	0.22	MAM2-2	**68**	0.35	CUT1	**101**	0.02	MAS2-1
6	2.17	CUT1	**22***	0.02	MAM2-10	**44**	1.67	CUP1	**69**	0.65	CUM1-1	**102**	0.02	MAS2-1
7	1.08	SWD4-1	**22***	0.05	SWT2-2	**44***	0.15	CUM1-1	**69***	0.04	MAS2-1	**103**	0.04	SAF1-3
7	1.14	SWD4-1	**23**	3.18	CUM1-1	**45**	0.80	FOD7	**70**	0.21	CUT1	**104**	0.14	MAM2
7*	0.03	SAS1-2	**23**	0.38	CUM1-1	**45**	0.50	FOD7	**71**	0.95	CUM1-1	**105**	0.02	SWT2-2
8	1.96	MAM2-2	**23***	0.02	MAM2-10	**46**	0.28	MAM2-10	**71***	0.03	SWT2-2	**106**	0.02	SAM1-2
8	0.06	SWT2-2	**23***	0.06	MAM2-10	**47**	1.76	CUM1-1	**72**	1.82	CUM1-1	**107**	0.04	SAF1-3
9	1.05	CUM1-1	**23***	0.02	MAS2-1	**47**	1.58	CUM1-1	**73**	0.44	MAM2-10	**108**	0.06	MAS2-1
10	0.41	CUM1-1	**23***	0.10	MAS2-1	**47***	0.05	MAM2-10	**73**	0.45	MAM2-10	**109**	0.10	CUW1
11	0.36	CUW1	**24**	1.09	CUM1-1	**47***	0.07	MAM2-10	**74**	0.02	MAS2-1	**110**	0.76	CUM1-1
12	9.55	CUM1-1	**24***	0.03	MAS2-1	**48**	0.34	CUT1	**75**	0.18	CUM1-1			
12*	0.09	MAM2-10	**25**	0.07	MAS3-2	**49**	0.59	CUT1	**75***	0.02	MAS2-1			
12*	0.01	SAM1-2	**25**	0.02	MAS3-2	**50**	3.08	MAM2-2	**76**	0.18	CUP3			
12*	0.15	MAM2-10	**26**	0.43	MAS2-1	**50**	3.88	MAM2-2	**76**	0.07	CUP3			
13	0.04	MAM2	**27**	3.80	CUM1-1	**51**	3.19	CUM1-1	**77**	0.27	CUP3-1			
13	0.54	MAM2	**28**	0.34	CUT1	**52**	1.21	MAM2	**78**	0.03	MAS2-1			
14	0.72	CUW1	**29**	0.31	SWD4-1	**53**	0.42	MAS2-1	**79**	0.16	MAM2-2			
15	1.79	CUM1-1	**30**	0.18	CUM1-1	**54**	3.50	CUM1-1	**80**	0.13	CUP3-2			
15	0.42	CUM1-1	**30**	1.05	CUM1-1	**55***	0.13	MAS2-1	**81**	0.05	SWD4-1			
16	0.86	MAM2-10	**30***	0.02	MAM2-10	**55**	0.50	CUW1	**82**	0.11	CUP3			
16*	0.04	MAS2-1	**30***	0.03	MAM2-10	**56**	0.22	CUM1-1	**83**	0.03	MAS2-1			
17	0.58	CUM1-1	**30***	0.07	MAM2-10	**56**	0.79	CUM1-1	**84**	0.67	CUM1-1			
17	0.10	CUM1-1	**30***	0.01	MAM2-10	**57**	0.46	CUS1	**85**	0.48	MAM2-2			
18	1.94	CUM1-1	**31**	1.65	CUS1-1	**58**	1.29	CUP3-2	**86**	0.07	SWT2-2			
18A	0.32	MAM2-10	**31**	0.91	CUS1-1	**59**	1.16	CUM1-1	**87**	1.22	MAM2-10			
19	0.20	SWT2-2	**31***	0.06	MAM2-10	**60**	0.55	CUM1-1	**88**	5.67	CUM1-1			
20	1.39	CUS1-1	**32**	0.53	MAM2-10	**60***	0.03	MAM2	**89**	1.27	CUM1-1			
20*	0.13	MAM2-2	**33**	0.93	CUT1	**61**	0.19	CUS1	**89***	0.05	MAM2			

*Denotes inclusion or complex

APPENDIX G:

ELC AND HEDGEROW MAPPING



MASTER ENVIRONMENTAL SERVICING PLAN

AREA 47

LEGEND:

- STUDY AREA
- SIGNIFICANT FLORA
- ELC
- Hedgerows

SCALE: 1:16,000

ELC COMMUNITIES, HEDGEROWS AND SIGNIFICANT FLORA (SOUTHWEST)

APPENDIX G

AQUAFOR PROJECT NO.: 64608

Aquafor Beech Limited

brampton.ca BRAMPTON Flower City

MASTER ENVIRONMENTAL SERVICING PLAN

AREA 47

LEGEND:

- STUDY AREA
- SIGNIFICANT FLORA
- ELC
- Hedgerows

SCALE: 1:16,000

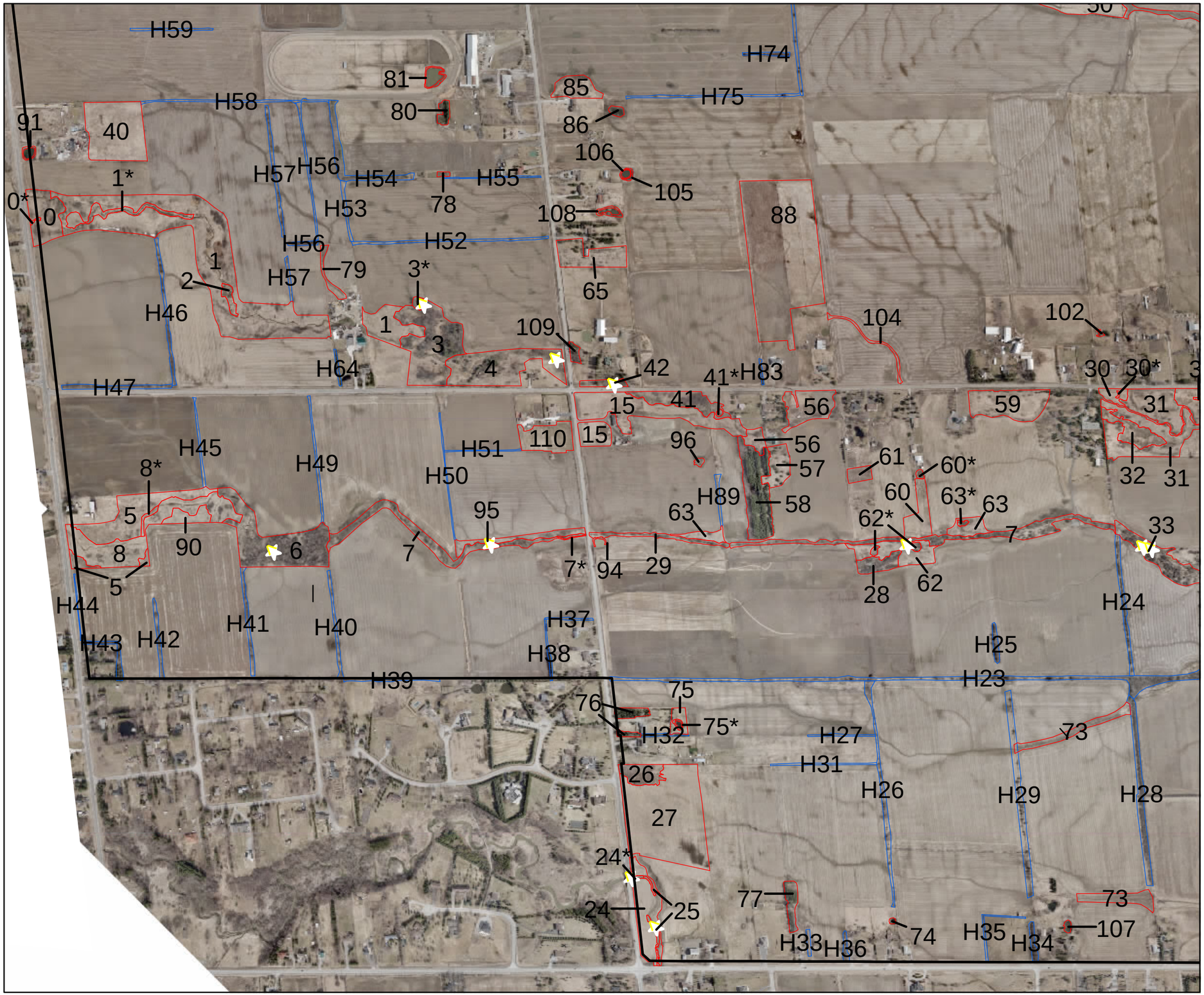
ELC COMMUNITIES, HEDGEROWS AND SIGNIFICANT FLORA (SOUTHEAST)

APPENDIX G

AQUAFOR PROJECT NO.: 64608

Aquafor Beech Limited

brampton.ca BRAMPTON Flower City



MASTER ENVIRONMENTAL SERVICING PLAN

AREA 47

LEGEND:

- STUDY AREA
- SIGNIFICANT FLORA
- ELC
- Hedgerows

SCALE: 1:16,000

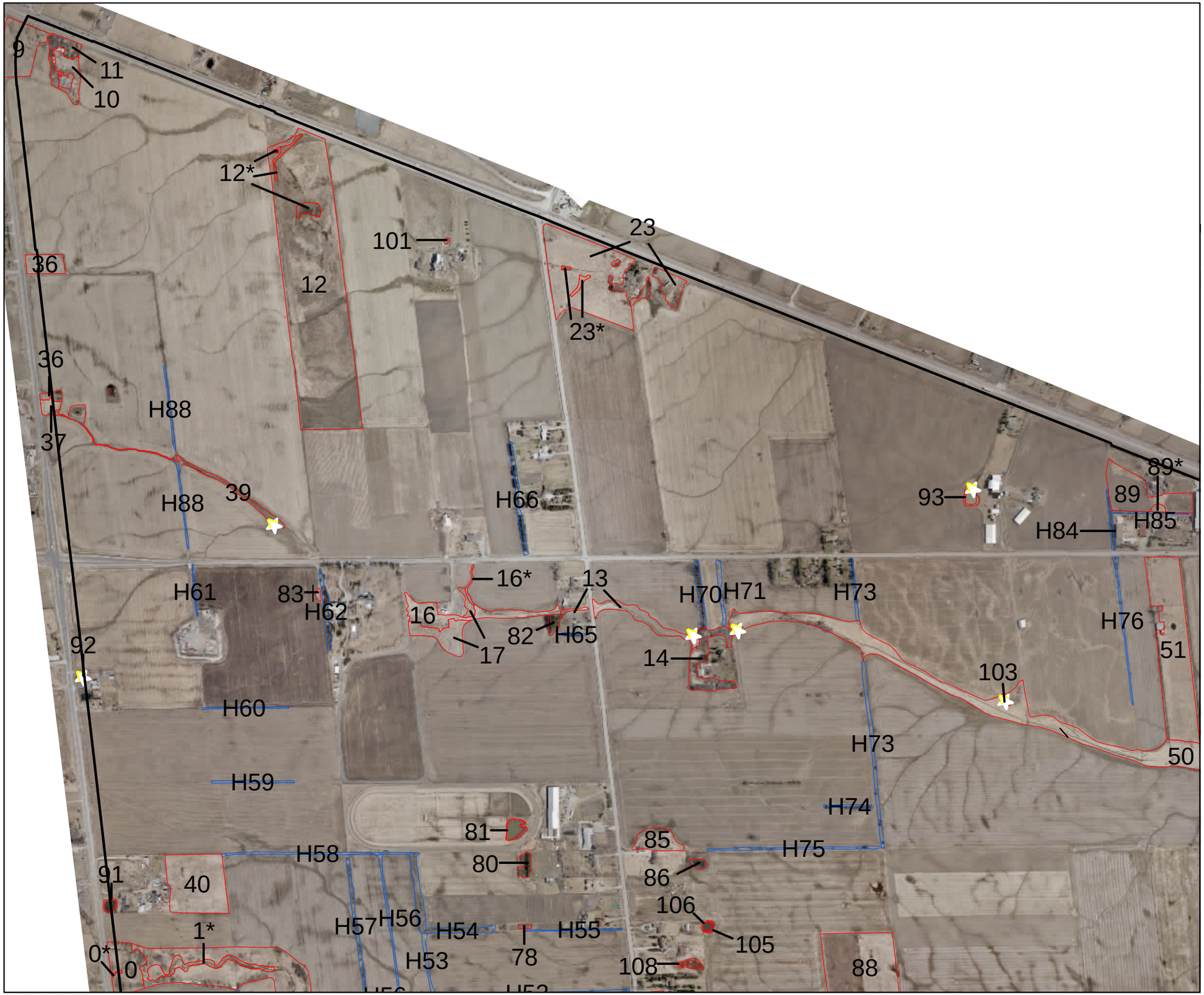
ELC COMMUNITIES, HEDGEROWS AND SIGNIFICANT FLORA (NORTHWEST)

APPENDIX G

AQUAFOR PROJECT NO.: 64608

Aquafor Beech Limited

brampton.ca BRAMPTON Flower City



MASTER ENVIRONMENTAL SERVICING PLAN

AREA 47

LEGEND:

- STUDY AREA
- SIGNIFICANT FLORA
- ELC
- Hedgerows

SCALE: 1:16,000

ELC COMMUNITIES, HEDGEROWS AND SIGNIFICANT FLORA (NORTHEAST)

APPENDIX G

AQUAFOR PROJECT NO.: 64608

Aquafor Beech Limited

BRAMPTON Flower City
brampton.ca

APPENDIX H:

ELC FIELDSHEETS

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 0	
	SURVEYOR(S): Tk, AB	DATE: Aug 15, 16/2012	TIME: start / finish	
	UTMZ: 17T	UTME: 0603498	UTMN: 4853978	± 3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN	G BOTTOMLAND		G FLOATING-LVD	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL UPLAND		G BRYOPHYTE	G FEN
		G CLIFF	**COVER**	G DECIDUOUS	G BOG
G OPEN WATER		G TALUS		G CONIFEROUS	G BARREN
G SHALLOW WATER		G CREVICE / CAVE	G OPEN	G MIXED	G MEADOW
G SURFICIAL DEP.		G ALVAR	G SHRUB		G PRAIRIE
G BEDROCK		G ROCKLAND	G TREED		G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	3	Ace negu > Sal x rubc
2	SUB-CANOPY	3	1	Rha cath
3	UNDERSTOREY	4	1	Ace negu = Rha cath
4	GRD. LAYER	4-6	3	Solr alti = Sym lanc = Sol arve > Bro inin

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA n/a

SIZE CLASS ANALYSIS:	A	< 10	O	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Si	DEPTH TO MOTTLES / GLEY	g = 52 cm	G= >120 cm
MOISTURE: 4	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Savanna	CUS
ECOSITE:	Mineral Cultural Savanna	CUS1
VEGETATION TYPE:		
✓ INCLUSION	Cattail Mineral Shallow Marsh	MAS2-1
COMcomplex		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47	
	POLYGON: 0	
	DATE: Aug 15, 16/2012	
	SURVEYOR(S): AB + Tk	

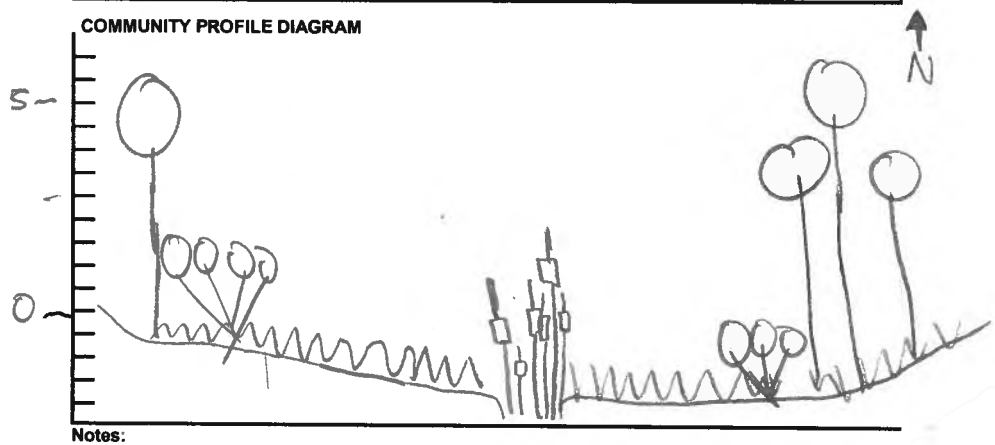
TREE TALLY BY SPECIES: n/a (cultural Savanna)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: O
DATE: Aug 15/2012
SURVEYOR(S): AB + Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A	S	mu/I	6-7					17	0603498	4853978	±3m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 63cm B 63-120+				
A TEXTURE	SCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	Si				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	52cm				
GLEY	>120 cm				
BEDROCK	>120 cm				
WATER TABLE	60cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	4 mod. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE: Area 47
POLYGON: O
DATE: Aug 15, 16/2012
SURVEYOR(S): AB + Tk

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Bro inin				D	
Pha arun				D	
Sym lanc				D	
Son arve				D	
Vic crac				A	
Lot corn				O	
Cir arve				A	
Epi cili				R	
Imp cape				O	
Ech loba				O	
Dau caro				A	
Lyt sali				O	
Run cris				R	
Sal x rube	O				
Rha cath		D	D		
Rhu typh	R				
Arc plat (p)	R				
Sym nova				A	
Poa comp				A	
Hes matr				O	
Epi parv				R	
Arc negu	D		D		
Pru virg		R	R		
Arc minu				O	
Lin vulg				O	
Gev alep				O	
Sol alti				D	
All peti				A	
Sol dulc				O	
Typ angu				O	
Equ arve				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Lon tata	O	O			
Gal sp.				O	
Ely repe				O	
Asc syri				O	
Rub stri			R		
Rub occi			R		
Mal puni		R			
Syr vulg		R			
Ame laev		R			
Ver hast				R	
Men arve				R	
Rib rubr			R		
Per lapa				R	
Sol dulc					
Imp cape					
Bid fron					
Typ angu					
Lyt sali					
Sol alti					
Ech loba					
Pha arun					

Cattail inc.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 0
DATE: Aug 15, 16/2012
SURVEYOR(S): AB + TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	9
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

total = 24

ELC

WILDLIFE

SITE: Area 47
POLYGON: 0
DATE: Aug 15/16/2012
SURVEYOR(S): AB + TK
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Blue Jay	OB/VO		4					
M	Cottontail	OB		1					
B	Yellow Warbler	OB/VO		1					
L	Cabbage White	OB		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 1
	SURVEYOR(S): Tk + AB	DATE: Aug 15, 16/2017	TIME: start / finish
	UTMZ:	UTME:	UTMN:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE: G OPEN WATER; G SHALLOW WATER; G SURFICIAL DEP.; G BEDROCK

COVER: G OPEN; G SHRUB; G TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sol alti = Cir arve > Pha arun

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION:	BA:

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SCL	DEPTH TO MOTTLES / GLEY	g = 31	G= ∅
MOISTURE: 5 Moderately Moist	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry - Moist Old Field Meadow	CUM1-1
✓ INCLUSION	Forb Mineral Meadow Marsh	MAM2-10
COMPLEX		

Notes: Asclepias syriaca dominated patch
Rubus strigosus dominated patch (0603730, 4853666, ±3)

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 1
	DATE: Aug 16/2017
	SURVEYOR(S): Tk, AB

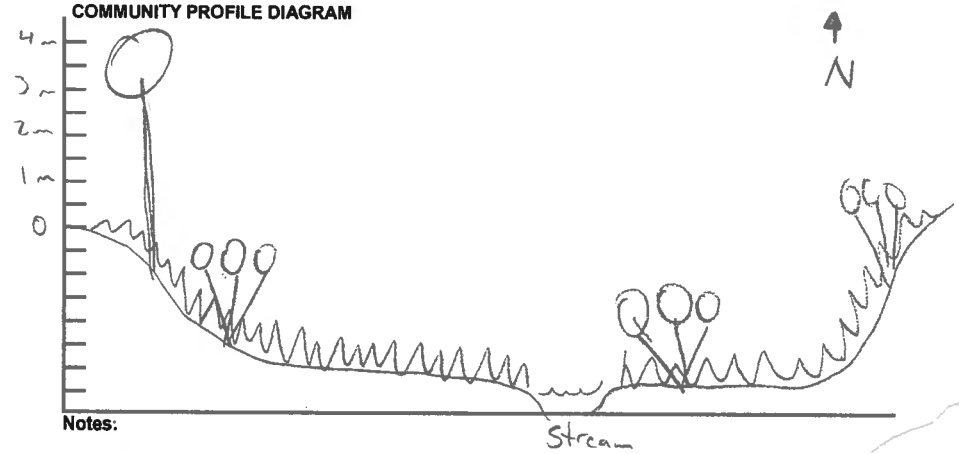
TREE TALLY BY SPECIES:

PRISM FACTOR [ ] n/a (cultural meadow)

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: \
DATE: Aug 16/2017
SURVEYOR(S): TK, AB

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	UTM EASTING	UTM NORTHING
1									17T	0603640	4853647 ± 3
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A >120cm				
A TEXTURE	SCL				
COURSE FRAGMENTS	Ø				
B TEXTURE					
COURSE FRAGMENTS					
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	31cm				
GLEY	Ø				
BEDROCK	+ 120cm				
WATER TABLE	+ 120cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 (moist)				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 1
DATE: Aug 15/2017
SURVEYOR(S): TK + AB

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Ace negu				R	
Sal x rube				R	
Rha cath				O	
Rub occi			O		
Pru virg			R		
Ran acri				O	
Ulm amer	R				
Typ lati				O	
Sal eric			R		
Mya scor				R	
Lon tata			O		
Rhu typh			O		
Pyr coma		R			
Cir vulg				O	
Lyt salt				A	
Oxa stri				O	
Ali riva				O	
Per macu				O	
Ver urti				O	
Oen blen				O	
Dau caro				A	
Geu ulep				O	
Epi parv				O	
All peti				A	
Eut gram				O	
Hes nata				D	
Equ arve				R	
Som arve				A	
Vic crac				A	
Asc syri				A	

SPECIES CODE	LAYER 1	2	3	4	COL.
Lin vulg				O	
Cir arve				D	
Pha arun				D	
Sym lanc				A	
Sym nova				A	
Epi cili				R	
Imp capc				A	
Pon comp				A	
Rum cris				O	
Typ angu				O	
Sol alti				D	
Bro inin				D	
Tara off				O	
Lot corn				O	
Ely rep				A	
Sol dulc				O	
Con arve				O	
Ech loba				O	
Cic inty				R	
Arc minu				O	
Ard lupp				R	
Equi arve				O	Mead Mars inc
Sym lanc	D				
Imp capc	A				
Cir arve	A				
Vic crac	A				
Bro inin	O				
Epi parv	R				
Pha arun	O				

ELC PLANT SPECIES LIST	SITE: Area 47
	POLYGON: 1
	DATE: Aug 15/2012
	SURVEYOR(S): TK + AB

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Crat mono		R			
Par tri				R	
Ach mill				R	
Frax penn				O	
[illegible]					
Pla rost			R		
Ver thap				R	
Phl prat				R	
Hier sp.				O	
Tara erys				R	
Cri annu				O	
Hyp perf				R	
Pot rect				R	
Sol mono				R	
Amb arte				O	
Syn erik				R	
Fra virg				R	
Ech crus				R	
Sci atro				R	
Rub strig				O	
Car vulp			R	R	
[illegible]					
Lec borg				O	
Sch tabe				R	
Vit ripa				O	
Inu hele				O	
Sol juncc				R	
Mal pumi				R	
Tan vulg				R	
Car petr				R	
Meli alba				O	

SPECIES CODE	LAYER 1	2	3	4	COL.
Lit off.				O	
Leo card				O	
Cra spi					
Son oler				O	
Mat cam		R		R	
Sal disc		R			
Cra punc		R			bird nest
Nep cata				R	
Phlox pani				R	
[illegible]					
[illegible]					
[illegible]					

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 1
DATE: 15 + 16 August 2012
SURVEYOR(S): AVB + TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	6
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	1 elm
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

tal

ELC

WILDLIFE

SITE: Area 47
POLYGON: 1
DATE: 15 + 16 August 2012
SURVEYOR(S): TK + AVB
START TIME:
END TIME:

TEMP (°C): 25 | CLOUD (10th): | WIND: | PRECIPITATION: 3 mm

CONDITIONS: fair

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	X	SNAGS
	HIBERNACULA	X	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Goldfinch	SH		2					
L	Monarch	OB		3					
L	Cabbage White	OB		3					
H	American Toad	VO		1					
B	Catbird	VO		1					
H	Green Frog	VO		1					
B	Barn Swallow	OB		4					
M	Beaver	SI	Chew marks	Many					
M	Fox den	HO		1					
M	Fox (dead)	OB		1					
M	Deer	TK	Prints on hill						
B	Kingbird	OB		1					
M	Raccoon	TK							

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 2
	SURVEYOR(S): AB + TK	DATE: 15 Aug '12	TIME: start / finish
	UTMZ: 17	UTME: 0603605	UTMN: 4853555

±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE			**COVER**		
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	2	SALINTE >> RHACATH
2	SUB-CANOPY	3	3	SALINTE > SALERIO
3	UNDERSTOREY	4	3	SALINTE > SALERIO
4	GRD. LAYER	5	4	SOLALT = ASTLANC > IMPCAPE

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	A	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	X	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SCL	DEPTH TO MOTTLES / GLEY	g = 30cm	G= 65cm
MOISTURE: 5 Mod Moist	DEPTH OF ORGANICS: 1		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SW
COMMUNITY SERIES:	Thicket Swamp	SWT
ECOSITE:	Mineral Thicket Swamp	SWT2
VEGETATION TYPE:	Willow Mineral Thicket Swamp	SWT2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 2
	DATE: Aug 15/2012
	SURVEYOR(S): AB + TK

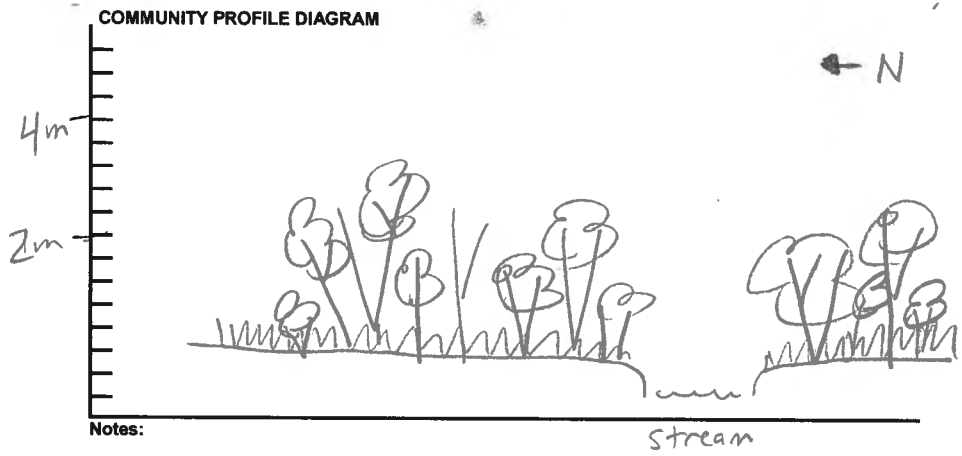
TREE TALLY BY SPECIES: n/a willows too thin

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 2
DATE: 15 August 2012
SURVEYOR(S): TR + AB

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	UTM Z	EASTING	NORTHING
1	A			5-6					17	0603645	4853555
2											
3											
4											
5											

±5m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 65cm B 65-120+cm				
A TEXTURE	SCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	L				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	30cm				
GLEY	65cm				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	/				
DEPTH OF ORGANICS	1cm				
PORE SIZE DISC #1	/				
PORE SIZE DISC #2	/				
MOISTURE REGIME	5 Mod. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 2
DATE: 15 Aug 2012
SURVEYOR(S): TR + AVB

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
SALINTE	A	D	A	O	
SALERIO		A	O	O	
RHACATH	R				

SPECIES CODE	LAYER 1	2	3	4	COL.
SOLALTI				D	
ASTLANC				D	
IMPCAPE				A	
LYTSALI				R	
VICCRAC				R	
DAUCARO				R	
PER HYDR				R	X
EPICILI				O	
ASCSYRI				R	
ECHLOBA				R	
CHEALBO				R	
SONARVE				R	
BROININ				R	
CONARVE				R	
PLAALIS				R	
BIDFRON				R	
Ver Hast				R	
LEEORYZ				O	
TYPLATI				O	
EPIPARV				O	
Mein arbo				R	

ELC

MANAGEMENT / DISTURBANCE

SITE:
POLYGON:
DATE:
SURVEYOR(S):

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	n/a
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	n/a
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	n/a
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	n/a
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	n/a
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	2
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	n/a
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	n/a
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	n/a
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2 roads
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	n/a
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

total = 11

ELC

WILDLIFE

SITE: Area 47
POLYGON: 2
DATE: 15 Aug 2012
SURVEYOR(S): TK + AVB
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	X	SNAGS ULMAMER
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Beaver	SI	chewed	•					
B	Kingfisher	OB	male	•					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 3
	SURVEYOR(S): TK + AVB	DATE: 15/16 Aug '12	TIME: start / finish
	UTMZ: 12	UTME:	UTMN:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE: G OPEN WATER; G SHALLOW WATER; G SURFICIAL DEP.; G BEDROCK

COVER: G OPEN; G SHRUB; G TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	3	Ace negu > Ace X free > Jug nigr = Sal X rubc
2	SUB-CANOPY	3	3	Rha cath
3	UNDERSTOREY	4	1	Rha cath > Pru virg
4	GRD. LAYER	5	2	Solidi > Sym lanc > Geu aleppicum

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES: 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Fra amer 52.5 – Rha cath 27.5 – Ace X free 12.5 – Ace negu 2.5 BA: 20

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	A	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiL	DEPTH TO MOTTLES / GLEY	g = 20cm	G= Ø
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CV
COMMUNITY SERIES:	Cultural Woodland	CVW
ECOSITE:	Mineral Cultural Woodland	CVW1
VEGETATION TYPE:		
INCLUSION	Swamp Maple Deciduous Swamp	SWD3-3
COMPLEX		

Notes:
- Plantation as part of woodland
- old homestead, well, irrigation pond

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 3
	DATE: Aug 16/2012
	SURVEYOR(S): AB + TK

TREE TALLY BY SPECIES:

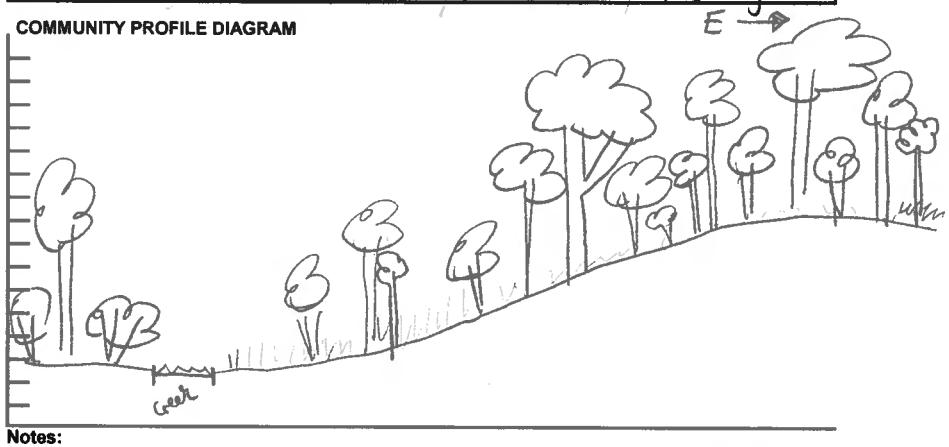
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
ACEXFREE						5	12.5%
RHACATH						11	27.5%
FRAAMER						21	52.5%
Pop x hybrid						1	2.5%
ACENEGU						1	2.5%
Pic Abie						1	2.5%
TOTAL	9	20	10	1		40	100
BASAL AREA (BA)	18	40	20	2		80	20
DEAD						2	

STAND COMPOSITION:

Fra amer 52.5 – Rha cath 27.5 – Ace x free 12.5 – Ace negu 2.5

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 3 DATE: 16 August / 2012 SURVEYOR(S): AVB + TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			1-7					17	0603972	4853115
2											
3											
4											
5											

±5

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 20cm B >120				
A TEXTURE	SiL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	Ø				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	/				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	—				
PORE SIZE DISC #2	—				
MOISTURE REGIME	6				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: Area 47 POLYGON: 3 DATE: 15 Aug + 16 Aug / 2012 SURVEYOR(S): AVB + TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym nova				R	
Soli alti				A	
Dau caro				O	
Bron inin				O	
Cir vulg				O	
Sym erio				R	
Rham cath		D	D		
Son arv				O	
Cir arve				O	
Frax penn	O	O			
Soli nemo				R	
Que macr				R	
Pron ving			R		
Tar offi				O	
Hier sp.				R	
Rub strig			O		
Pla lanc				R	
Cin vulg				O	
Asc syri				O	
Inu hele				O	
Sal disc		R			
Geu alep				A	
Ace negu	D	A			
Vic crac				O	
Phal arun		A			
Sal x tube	A				
Vit ripar				O	
Pop alba	R				
Jug nigr	O				
Sol dulc				O	
Rub occi				O	
Cyn offi				R	
Nep cata				R	
Rhu typh		O			
[illegible]	R				

SPECIES CODE	LAYER 1	2	3	4	COL.
Mea arve				R	
Lyt soli				R	
Sym lanc				A	
Cut gram				O	
Rum cris				R	
Oxa stri				R	
Epi pauc				O	
Car cord				R	
Vib opul				R	
Pop X heimbuger				O	
Pin sylv	O				
Dem bien				R	
Crat sp		R			pic
Cichinty				R	
Lyth soli				O	
Equi arve				R	
Frag vlg				R	
Pot recta				R	
Ace sacc (P)					
Jun virg					
Ach mill					
Til amer					
Pyr comm					
Lig vulg					x
Pru nigr					
Asp offi					
Ace saccc					
Corn seri					
Amb arte					
Bid fron					
Agro gig					
All peti					
Echi crus					
Bron inin					
Epi hell					
[illegible]					

ON Back →

Polyg. #4

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 3
DATE: 15 August
SURVEYOR(S): AVB + TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	2
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	2
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

ELC

WILDLIFE

SITE: Area 47
POLYGON: 3
DATE: 15 Aug 2012
SURVEYOR(S): AVB + TK
START TIME:
END TIME:

TEMP (°C): 27 | CLOUD (10th): | WIND: | PRECIPITATION: Ø

CONDITIONS: fair

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	X	SNAGS
	HIBERNACULA	X	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Eastern Cottontail	OB		1					
M	Beaver	OB	chewed logs						
B	Blue Jay	OB		1					
M	Squirrel	HO	Nest						
B	Red tailed Hawk	OB		1					
H	Toad	OB	tadpole	1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 4
	SURVEYOR(S): AVB + TK	DATE: 15/16 Aug '12	TIME: start / finish
	UTMZ: 17	UTME: 0604023	UTMN: 4852974 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL. UPLAND	**COVER**	G BRYOPHYTE	G FEN
G OPEN WATER		G CLIFF	G OPEN	G DECIDUOUS	G BOG
G SHALLOW WATER		G TALUS	G SHRUB	G CONIFEROUS	G BARREN
G SURFICIAL DEP.		G CREVICE / CAVE	G TREED	G MIXED	G MEADOW
G BEDROCK		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	2	Sal X lobc > Ace negu = Fra amer
2	SUB-CANOPY	3	2	Rha cath > Fra amer > Rhu typh
3	UNDERSTOREY	4	2	Rha cath > Rub idid > Ace negu
4	GRD. LAYER	5-6	3	Sol can lti > Sym lanc > Ath peti

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	X	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 19	G= ~~n/a~~
MOISTURE: 5 (v. moist)	DEPTH OF ORGANICS:		0 (cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		>120 (cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Savanna	CUS
ECOSITE:	Mineral Cultural Savanna	CUS1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 4
	DATE: 16 Aug '12
	SURVEYOR(S):

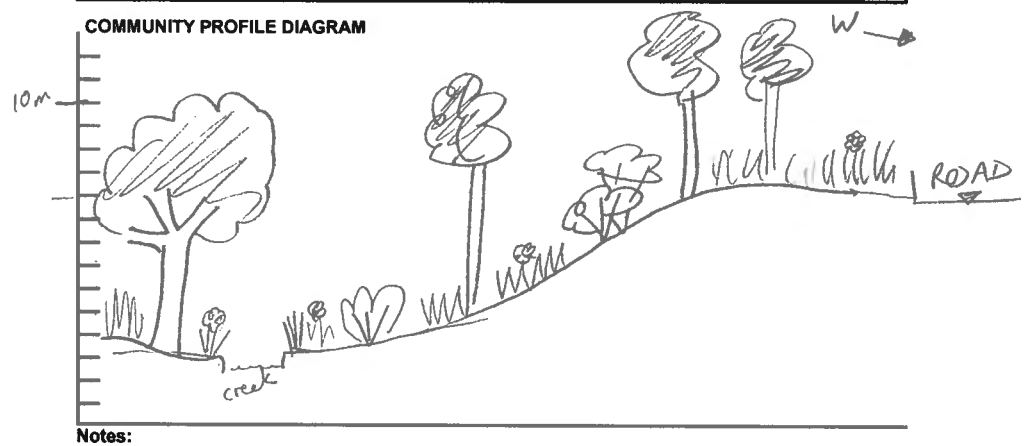
TREE TALLY BY SPECIES: n/a (Cultural Savanna)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47
	POLYGON: 4
	DATE: 16 Aug 2012
	SURVEYOR(S): AVB + TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			1-7					17	0604023	4852974	±4m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 19cm; B 19 - >120				
A TEXTURE	SCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	19				
GLEY	Ø				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	/				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	/				
PORE SIZE DISC #2	/				
MOISTURE REGIME	5 V. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: Area 47
	POLYGON: 4
	DATE: 15/16 Aug 2012
	SURVEYOR(S): AVB + TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
POLLAPA				R	x
POLHYDR				R	x
ASCSYRI				O	
BROININ				A	
SOLCANA				D	
CIRARVE				A	
LYHSALI				O	
PHAARUN				A	
OENBIEN				O	
DAUCARO				O	
VERHAST				O	
RANACRI				R	
ASTLANC				O	
IMPCAPE				R	
TUSFARF				R	
VICCRAC				A	
BIDFRON				R	
MENARVE				R	
EPIPARV				R	
ALLPETI				O	
TAROFFI				O	
GEUALLE				O	
ECHLOBA				O	
ASTNOVA				O	
ERIANNU				O	
ASPOFFI				O	
ASTLANC				D	
ALLPETI				A	
MELALBA				A	
ARCMIMI				A	
HESMATR				O	
				R	
OXASTRI				R	
ASTPUPU				R	
GALPALU				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
SAL x RUBE	A	O			
RHACATH		A	A	A	
ULMAMER	O	O	O		
PINSYLV	O		O		
FRAAMER	O	O	O		
PICPUNG	R				
PRUVIRG			O		
PYRCOMM	O	O	R		
VIBOPUL			R		
RUBIDID			A		
LIGVULG			R		
CRASPP.			R		
LONTATA					
JUGNIGR		R	R		
ACE x FREE	O				
RHUTYPH		O			
ACENEGU	O		O	O	
CORSTOL			R		
RIB rubr			R		
PRUNIGR			R		
AMBARTE				O	
Med lvn				R	
CHICHIC				R	
TYPANGU				R	
CARRETR				R	
SOLDULC				O	
DIPFULL				R	
SCIVALI				R	
SONARVE				O	

Blue Spruce

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 4
DATE: 15 Aug 2012
SURVEYOR(S): AVB + TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	1
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	9
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	2
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Cinder blocks in creek, garbage

Foul

= 25

ELC

WILDLIFE

SITE: Area 47
POLYGON: 4
DATE: 15 Aug 2012
SURVEYOR(S): AVB + TK
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	X	SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
O	mussels	DP	collected	5					
H	GRFR	OB		1					
B	Barn Swallow	OB		33+					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 5
	SURVEYOR(S): Tk	DATE: Aug 21/2012	TIME: start / finish
	UTMZ: 17T	UTME: 0603165	UTMN: 4853342

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sol alti = Bro inin = Cir arve = Don arve

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 17cm	G= Ø
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: Ø		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist old Field Meadow	CUM1-7
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 5
	DATE: Aug 21/2012
	SURVEYOR(S): Tk

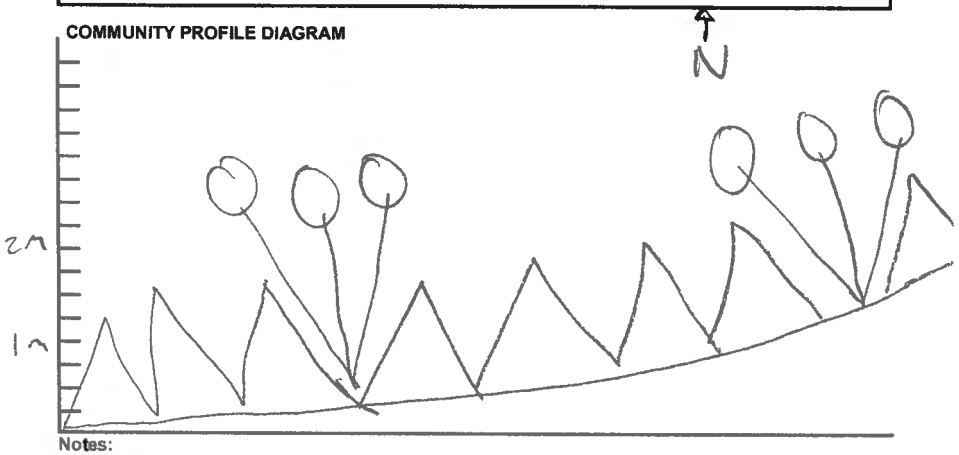
TREE TALLY BY SPECIES: n/a (cultural Meadow)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 5
DATE: Aug 21/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			3-5					17T	0603165	4853342
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 15cm B 15-120+				
A TEXTURE	SiCL (soil aggregates due to organics)				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	17cm				
GLEY	Ø				
BEDROCK	Ø				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 5
DATE: Aug 21/2012
SURVEYOR(S): Tk

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Cir arve				A	
Lin vulg				O	
Soli alti				D	
Bro inin				D	
Vic crac				R	
Sym lanc				A	✓
Sonc arve				A	
Gle hede				R	
Dau caro				R	
Ely repe				R	
Sym nova				A	
Cra mono			R		
Rha cath	O		R		
Pot rect				R	
Fra virg				R	
Cra punc	R				✓
Geu alep				R	
Pru virg			O		
Cut gram				R	
Phal arun				A	
Vit ripa				R	
Poa comp				O	
Ulm amer				R	
Sol dulc				R	
Nep cata				R	
Arc lapp				R	
Lon tata				O	
Pas sati				R	
Lit offi				R	
Cch loba				R	
Asc syri				O	

SPECIES CODE	LAYER 1	2	3	4	COL.
Hyp perf				R	
Rub occi				R	
Arc negu				R	
Sym eric				R	

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 5
DATE: Aug 21/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	n/a
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	3
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 18

ELC

WILDLIFE

SITE: Area 47
POLYGON: 5
DATE: Aug 21/2012
SURVEYOR(S): TK
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Goldfinch	V/OB		2+					
B	Barn Swallow	V/OB	flying overhead	10+					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Area 47		POLYGON: 6	
SURVEYOR(S): Tk	DATE: Aug 21/2012	TIME: start / finish	
UTMZ: 17T	UTME: 0603325	UTMN: 4853031	±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE: G OPEN WATER; G SHALLOW WATER; G SURFICIAL DEP.; G BEDROCK

COVER: G OPEN; G SHRUB; G TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	4	Rha cath > Cra pune > Ace negu > Sal x rube
2	SUB-CANOPY	3	3	Rha cath >> Pad puni
3	UNDERSTOREY	4	1	Rha cath >> Pru virg
4	GRD. LAYER	6	1	All peti > Rha cath >> Geu calep

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES: 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 54.5 – Cra pune 32 – Sal x rube 9 – Ace negu 4.5 BA: 14

SIZE CLASS ANALYSIS:	A	< 10	R	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Si	DEPTH TO MOTTLES / GLEY	g = 38 cm	G= 58 cm
MOISTURE: S moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUT1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Dried creekbed through forest

ELC
STAND CHARACTERISTICS

SITE: Area 47	
POLYGON: 6	
DATE: Aug 21	
SURVEYOR(S): Tk	

TREE TALLY BY SPECIES:

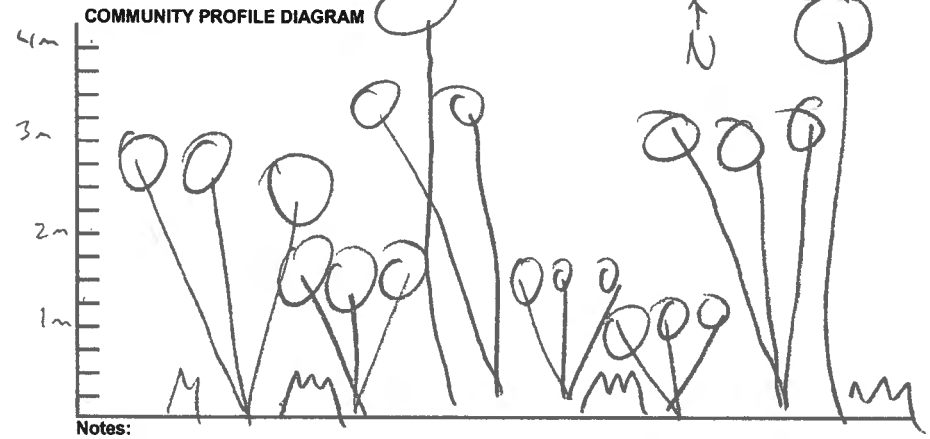
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Ace negu						1	4.5%
Cra pune						7	32%
Rha cath						12	54.5%
Sal x rube						2	9%
TOTAL	3	10	9			22	100
BASAL AREA (BA)	6	20	18			44	14
DEAD						1	

STAND COMPOSITION:

Rha cath 54.5 – Cra pune 32 – Sal x rube 9 – Ace negu 4.5

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 6
DATE: Aug 21/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			7					17T	0603325	4853031	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 38cm 120 tcm				
A TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	Si				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	Si				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	38cm				
GLEY	58cm				
BEDROCK	Ø				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 (moist)				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE: Area 47
POLYGON: 6
DATE: Aug 21/2012
SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Imp rape				O	
Ace negv	A				
Pha arun				O	
Rum cris				R	
Cir arvu				O	
Ech loba				R	
Bid fron				O	
Gle hede				O	
Lun acet				R	
Amb arte				R	
Sol dulc				R	
All peti				A	
Epi parv				R	✓
Pers lapa				R	✓
Cri anv				R	
Gou alep				O	
Rha cath	D	D	A	A	
Prun virg			O	A	
Rub occi				R	
Vib opul				R	
Sal x rube	A			A	
Parthinse				R	
Epi hell				R	
Cra punc	D				
Leo card				R	
Vio soro				O	
Car spp.				O	
Ros mult				R	
Arc minv				O	
Syn lanc				A	
Cir luca				O	

SPECIES CODE	LAYER 1	2	3	4	COL.
Ran acri				R	
Prun vulg				R	
Oxa stri				R	
Tar offi				R	
Ulm amer		R	R		
Dul arun				R	
Agr stol				O	
Cir vulg				R	
Dac glom				R	
Rhu typh				R	
Pou caro				O	
Ver hast				R	
Quer sp				R	✓
Xan stru				R	
Ace plat	R				
Ribes rubr			R		
Mal pumi		A			
Ace X free		R			

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 6
DATE: Aug 21/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 7

ELC

WILDLIFE

SITE: Area 47
POLYGON: 6
DATE: Aug 21/2012
SURVEYOR(S): TK
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Chickadee	VO		3+					
O	Chimney Swift	HO		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 7
	SURVEYOR(S): Tk	DATE: Aug 21/2012	TIME: start / finish
	UTMZ: 17T	UTME: 0603569	UTMN: 4852824 ±7m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION
SITE			**COVER**		
G OPEN WATER			G OPEN		
G SHALLOW WATER			G SHRUB		
G SURFICIAL DEP.			G TREED		
G BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	4	Sal X rubc
2	SUB-CANOPY	3	3	Ace negu = Rha cath
3	UNDERSTOREY	4	1	Rha cath
4	GRD. LAYER	4-6	2	Rha gran = Bro inn = Sym lanc

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Sal X rubc 78 - Ace negu 13 - Rha cath 9 BA: 23

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	A	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	R	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 22	G= 42
MOISTURE: G very moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 7120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SW
COMMUNITY SERIES:	Deciduous Swamp	SWD
ECOSITE:	Mineral Deciduous Swamp	SWD4
VEGETATION TYPE:	Willow Mineral Deciduous Swamp	SWD4-1
INCLUSION	Waterweed Submerged Shallow Aquatic	SAS1-2
COMPLEX		

Notes:
Intermittent Swale along entire length of community

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 7
	DATE: Aug 21/2012
	SURVEYOR(S): TK

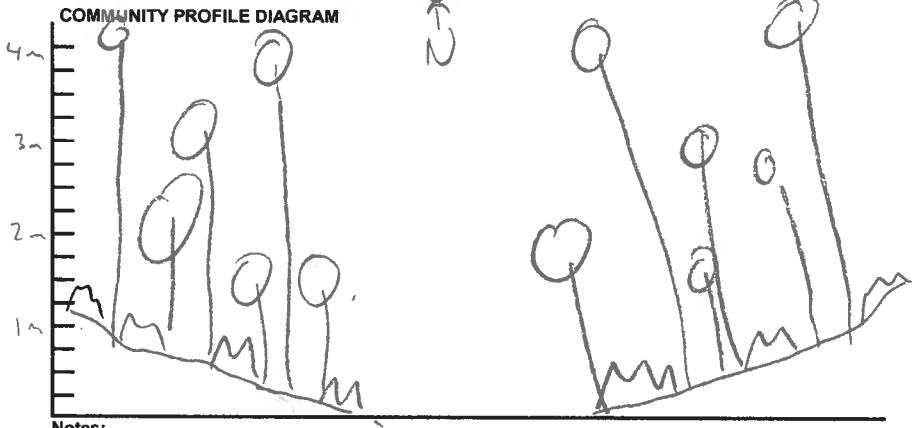
TREE TALLY BY SPECIES:

PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Ace negu	⁝					3	13%
Sal X rubc	⁝	⁝⁝	⁝⁝			18	78%
Rha cath	⁝	⁝				2	9%
TOTAL	7	7	9			23	100
BASAL AREA (BA)	14	14	18			46	23
DEAD							

STAND COMPOSITION:
Sal X rubc 78 - Ace negu 13 - Rha cath 9

COMMUNITY PROFILE DIAGRAM



Notes:
Intermittent Swale

ELC SOILS ONTARIO	SITE: Area 47
	POLYGON: 7
	DATE: Aug 21/2012
	SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			1-7					17T	0603569	4852824	±7m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 18cm; B 120cm+				
A TEXTURE	SiCL (organics enriched)				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Y				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	22cm				
GLEY	42cm				
BEDROCK	Ø				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: Area 47
	POLYGON: 7
	DATE: Aug 21/2012
	SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Salx rubc	D	A			
Bid fron				A	
Past sati				D	
Arc min				A	
All pet				A	
Rha arun				D	
Rha cath		A	A		
Ate patu				O	
Sol alti				A	
Amb arte				O	
Son arve				O	
Sym lanc				A	
Ech loba				R	
Sym nova				O	
Imp cape				A	
Car retr				R	
Epi cili				R	
Dau caro				O	
Poa comp				O	
Oxa stri				R	
Pru vulg				R	
Rub occi				O	
Vib opul				O	
Vit ripa				O	
Ran acri				O	
Geu alep				O	
Equ arve				R	
Ati rivn				R	
Sol dulc				O	
Asc syri				A	
Lin vulg				R	
Ace negu		A		R	
Cor rugo					
Ver hast				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Bro inin				D	
Jug nigr	R	R	R		
Rub stri			O		
Lem tata			R		
Dac glom				O	
Xan stru				R	
Eut gram				O	
Typ lati & angu				O	
Lud palu				R	
Pen sedo				R	
Rum cris				R	
Mat. camo				R	
Cir vulg				O	
E pi parv				R	
Che albu				R	
Den bren				R	
Pyr comm		R			
Thl arve				O	
Medi sati				R	
Cic intg				R	
Set pumi				R	
Lem mino				O	
Sal erio				O	
Per lapa				R	✓
Ech crus				R	
Car retr				R	
Lud palu				O	
Elo cana				D	
Lee oryz				A	
Typ lati				A	
Sag lati				A	

Inc

round leaved

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Oh back

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 7
DATE: Aug 21/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 13

ELC
WILDLIFE

SITE: Area 47
POLYGON: 7
DATE: Aug 21/20
SURVEYOR(S): TK
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	X	SNAGS:
	HIBERNACULA	X	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Toad	VO	in field	3					
B	Turkey Vulture	OB	flying over	1					
O	Chimney Crayfish	HO		1					
H	Green Frog	OB		3+					
B	Black Swallow	OB	flying over	1					
M	Beaver		Chewed trees						
M	Deer	OB	dead	1					
L	Monarch	OB		2					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 8
	SURVEYOR(S): JK	DATE: Aug 21+22/2012	TIME: start / finish
	UTMZ: 17T	UTME: 0603030	UTMN: 4855336 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Phe arun > Sym lanc > Sol alti > Typ angu

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 70 cm G= 62cm
MOISTURE: G Very Moist	DEPTH OF ORGANICS: 0	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120	(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Reed-Canary Grass Mineral Meadow Marsh	MAM2-2
✓ INCLUSION	Willow Mineral Thicket Swamp	SWT2-2
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 8
	DATE: Aug 21, 22 / 2012
	SURVEYOR(S): JK

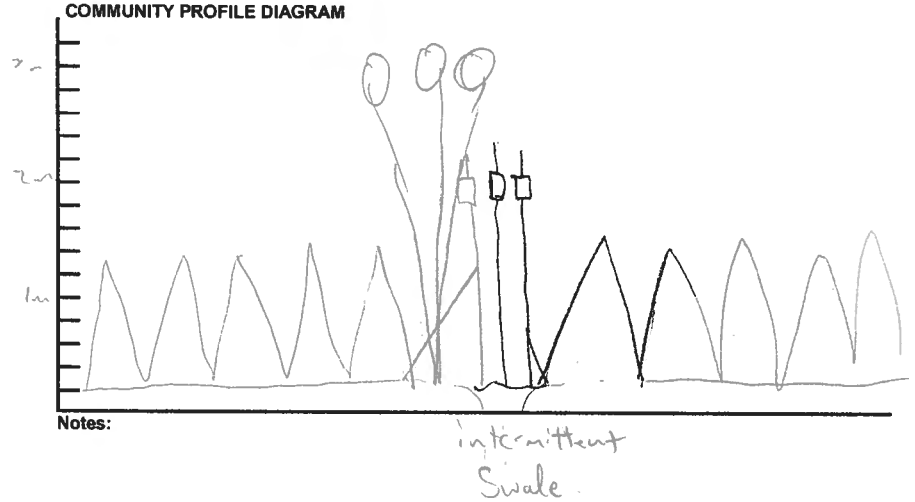
TREE TALLY BY SPECIES: n/a (Meadow Marsh)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 8
DATE: Aug 22/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	Z	UTM EASTING	UTM NORTHING
1	A			5-6					17T	0603030	4853336 ± 5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 50cm B 50-120+				
A TEXTURE	SiC				
COURSE FRAGMENTS	0				
B TEXTURE	Si				
COURSE FRAGMENTS	0				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	0				
SURFACE ROCKINESS	0				
DEPTH TO / OF					
MOTTLES	28 cm				
GLEY	62 cm				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	\				
DEPTH OF ORGANICS	0				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 8
DATE: Aug 21 + 22/2012
SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Lee oryz				O	
Xan stru				R	
Sal x rubc	O	R	R		
Pha arun				D	
Sol altis				A	
Typ lat.				O	
Typ cape				O	
Ech loba				R	
Rum cris				R	
Bid fron				R	
Pec macr				R	
Typ angu				O	
Pers amph				R	
All peti				O	
Cri annu				R	
Mon arve				R	
Lyt salt				O	
Asc syri				O	
Cir arve				D	
Pec lapa				R	
Mel alba				R	
Sym nova				O	
Cyn offi				R	
Son arve				O	
Sym lanc				D	
Are negu		R			
Lon tata			O		
inc. Sal inte		D			

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 8
DATE: Aug 21 + 22/2012
SURVEYOR(S): Tk

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 14

ELC

WILDLIFE

SITE: Area 47
POLYGON: 8
DATE: Aug 21 + 22/2012
SURVEYOR(S): Tk
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Raccoon	Tk	on dried creekbed						
M	Beaver	SI	chew marks, rudimentary dam						
B	Downy Woodpecker	VO		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 9
	SURVEYOR(S): TK	DATE: Aug 22/2012	TIME: start / finish
	UTMZ: 17T	UTME: 0604836	UTMN: 4855676 ±6

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sol alti = Bro inm > Son arve

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 22cm	G= Ø
MOISTURE: G Very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 9
	DATE: Aug 22/2012
	SURVEYOR(S): TK

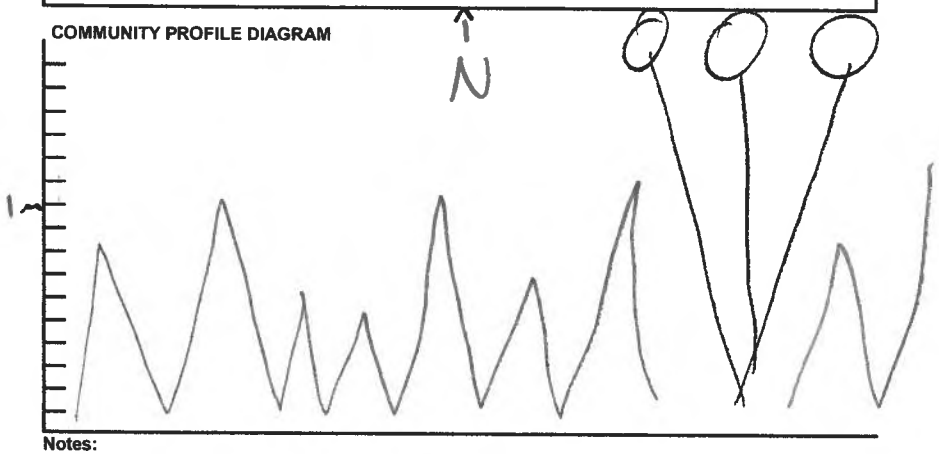
TREE TALLY BY SPECIES: n/a (Cultural Meadow)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 9
DATE: Aug 22/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			7					MT	0604836	4855676	± 6m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 26cm B 26-120cm+				
A TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	22cm				
GLEY	Ø				
BEDROCK	>120cm				
WATER TABLE	>120cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE: Area 47
POLYGON: 9
DATE: Aug 22/2012
SURVEYOR(S): Tk

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sol alti				D	
Son arve				A	
Lot corn				R	
Sym nova				O	
Sym lane				O	
Mal puni		R			
Rhn cath		R			
Cor seri					
Dav caro				A	
Fra pean				R	
Bro inin				D	
Vic thap				R	
Vic crac				D	
Cir arve				A	
Con arve				R	
Pas sati				R	
Lin vulg				R	
Inv hele				O	
Lyt sali				O	
Agr giga				A	
Pht prat				R	
Amb arte				R	
Dig sang				R	✓
Set puni				R	✓
Qca stri				R	
Con cana				R	

edge of community

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 9
DATE: Aug 22/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 9

ELC

WILDLIFE

SITE: Area 47
POLYGON: 9
DATE: Aug 22/2012
SURVEYOR(S): TK
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Toad	VO		4+					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 10
	SURVEYOR(S): Tk	DATE: Aug 22/2012	TIME: start / finish
	UTMZ: 17T	UTME: 0604865	UTMN: 4855550 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Pha arun = Sol alti > Bro inin

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiL	DEPTH TO MOTTLES / GLEY	g = +120cm	G= +120cm
MOISTURE: 2 fresh	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: +120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 10
	DATE: Aug 22/2012
	SURVEYOR(S): Tk

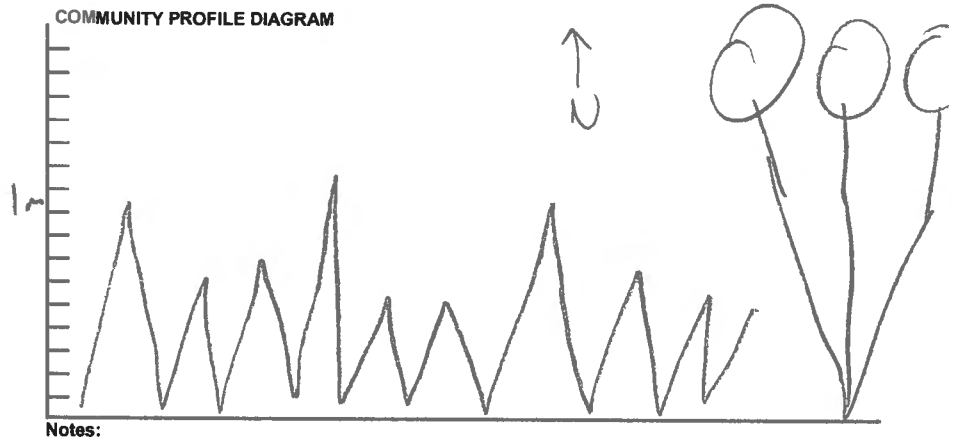
TREE TALLY BY SPECIES: n/a (Cultural Meadow)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 10
DATE: Aug 22/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			7					17T	0604865	4855550	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 45 / B 45-120+				
A TEXTURE	SiL				
COURSE FRAGMENTS	Some				
B TEXTURE	Loam				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	Ø				
BEDROCK	+120cm				
WATER TABLE	+170cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	2 Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 10
DATE: Aug 22/2012
SURVEYOR(S): Tk

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Pha arun				D	
Sol alti				D	
Son arve				A	
Pop tren			R		
Ace negu				O	
Bro inim				D	
Vic crac				O	
Pru virg				R	
Phl prat				R	
Sym lanc				O	
Cir arve				A	
Sym nova				R	
Poa comp				D	
Agr gigh				O	
Lin vulg				O	
Phr aust				R	
Sol dulc				R	
Rha cath	R	R			
Geu alep				R	
Con arve				R	
Arc mini				R	
Con cana				R	
Dau caro				A	
Asc syria				R	
Gle hede				R	
Hyp perf				R	
Ely repe				O	
Tar offi				R	
Tri repe				R	
Cir vulg				R	
Medi lup				O	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 10
DATE: Aug 22/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 10

ELC

WILDLIFE

SITE: Area 47
POLYGON: 10
DATE: Aug 22/2012
SURVEYOR(S): TK
START TIME:
END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Toad	VO		24					
B	Ring bird	OB	On Survey	1					
B	Star Flags	OB	flying over	20+					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 11	
	SURVEYOR(S): Tk	DATE: Aug 22/2012	TIME: start / finish	
	UTMZ:	UTME: 0604893	UTMN: 4855644	±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL. UPLAND	COVER	G BRYOPHYTE	G FEN
G OPEN WATER		G CLIFF	G OPEN	G DECIDUOUS	G BOG
G SHALLOW WATER		G TALUS	G SHRUB	G CONIFEROUS	G BARREN
G SUBSEICIAL DEP.		G CREVICE / CAVE	G TREED	G MIXED	G MEADOW
G BEDROCK		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	4	Ace negu > Mal pumi > Pin sylv > Ace X free
2	SUB-CANOPY	3	3	Rha cath > Syr vulg
3	UNDERSTOREY	4	1	Rha cath
4	GRD. LAYER	5-7	1	Geu urb = All pet.

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Ace negu 56 – Pin sylv 20 – Mal pumi 16 – Pyr comm 4	BA: 17

SIZE CLASS ANALYSIS:	A	< 10	O	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = +120	G= +120
MOISTURE: 2 fresh	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: +120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Woodland	CUW
ECOSITE:	Mineral Cultural Woodland	CUWI
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 11
	DATE: Aug 22/2012
	SURVEYOR(S): Tk

TREE TALLY BY SPECIES:

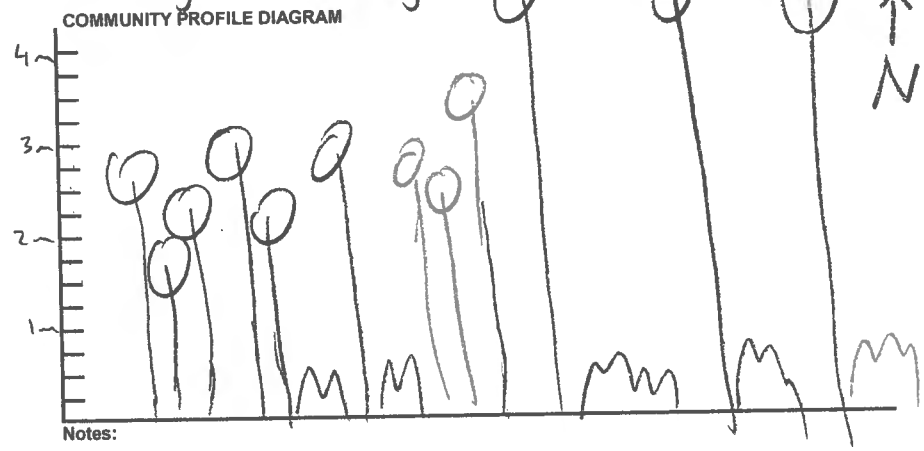
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Ace negu	57	57				14	56%
Mal pumi						4	16%
Aes hipp						1	4%
Pin syl						5	20%
Pyr comm						1	4%
TOTAL	7	9	9			25	100
BASAL AREA (BA)	14	18	18			50	17
DEAD						1	

STAND COMPOSITION:

Ace negu 56 – Pin sylv 20 – Mal pumi 16 – Pyr comm 4

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47
	POLYGON: 11
	DATE: Aug 22
	SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17T	0604893	4855644
2											
3											
4											
5											

±5m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 38cm				
	B 38-120cm+				

A TEXTURE	SiCL (organics enriched)				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	Ø				
BEDROCK	+120 cm				
WATER TABLE	+120 cm				
CARBONATES					
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1					
PORE SIZE DISC #2					
MOISTURE REGIME	2 Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: Area 47
	POLYGON: 11
	DATE: Aug 22/2012
	SURVEYOR(S): Tk

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Leo card				R	
Gle hed				R	
Grev alex				D	
Acer X free	O	R			
Acer negu	D				
Oxa stri				R	
Hem fulv				O	
Che majus				R	
Sol alti				O	
Cam rapu				R	
Syr vulg		A			
Vit ripa				R	
Rha cath		D	A		
Mal puni (p)	A				
Cri anw				O	
Sol dulc				O	
Bro inin				O	
Dau caro				O	
Nep cate				R	
Rum acet				R	
All peti				A	
Poa comp				O	
Dac glom				O	
Cir vulg				R	
Frax penn				R	
Cir cano				R	
Pin sylv	A				
Pyr comm (p)	O				
Rum cris				O	
Sal X sepu				R	
Fes rubr				D	

Plantation out front

SPECIES CODE	LAYER 1	2	3	4	COL.
Aes hippo (p)	R				
Agr giga				O	
Sch pra				R	
Syn nuva				R	
Sch arun				O	
Mel alba				R	

Festuc

Festuc

Page ..... of .....

ELC MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 11
DATE: Aug 22/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	Ø
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	Ø
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	Ø
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	2
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	Ø
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	Ø
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 12

ELC WILDLIFE

SITE: Area 47
POLYGON: 11
DATE: Aug 22/2012
SURVEYOR(S): TK
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Toad	VO		2					
M	Groundhog	HO		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 12	
	SURVEYOR(S): Tk	DATE: Aug 23/2012	TIME: start / finish	
	UTMZ:	UTME:	UTMN:	

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sol alti = Cir arve = Bro inin

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Loam	DEPTH TO MOTTLES / GLEY	g = 27cm	G= 0
MOISTURE: G very moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM 1-1
✓ INCLUSION	Duckweed Mixed Shallow Aquatic	SAM1-2
✓ COMPLEX	Fort Mineral Meadow Marsh	MAM2-10

Notes:
Old tile drain in NW corner of community

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 12
	DATE: Aug 23/2012
	SURVEYOR(S): Tk

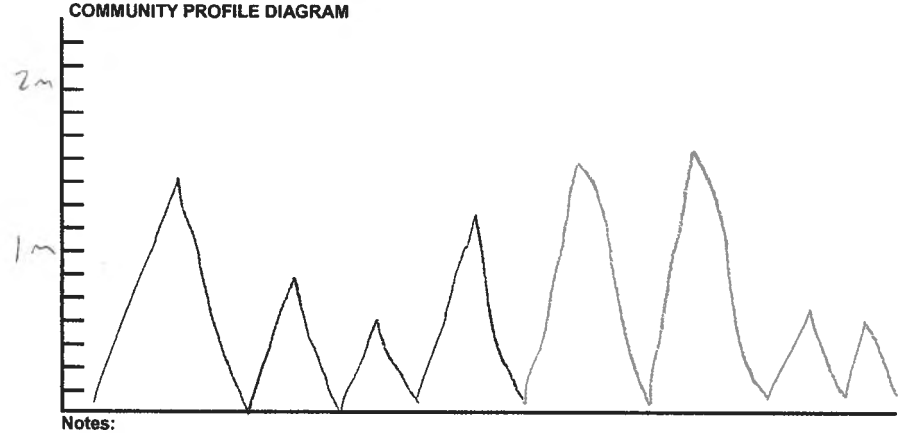
TREE TALLY BY SPECIES: n/a (meadow)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 12
DATE: Aug 23/2012
SURVEYOR(S): Th

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			6					17T	0605069	4855040	±4m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 30cm				
	B 30-120cm+				
A TEXTURE	L				
COURSE FRAGMENTS	Ø				
B TEXTURE	CL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	L				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	27cm				
GLEY	Ø				
BEDROCK	+120				
WATER TABLE	+120				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 12
DATE: Aug 23/2012
SURVEYOR(S): Th

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Bro inin				D	
Cir arve				D	
Eri anne				R	
Asc syri				R	
Syn lanc				A	
Soli alti				D	
Sum nova				A	
Ely repe				A	
Agr giga				A	
Hyp perf				R	
Som arve				A	
Arc minu				A	
Vic crac				O	
Arc lapp				R	
Phra aust				R	
Typ angu				O	
Phr arun				A	
Rum cris				O	
Cut gram				O	
Jun effu				R	
Typ lati				O	
Bid from				R	
Car cris				R	✓
Poa comp				A	
Set pumi				O	
Pop delt		R	R		
Amb arte				A	
Ech crus				R	
Dcr cano				A	
Vitis ripa				R	
Lot corn				R	
Mel off				R	
Jun dudl				R	
Fra vlry				R	
[illegible]		R			

SPECIES CODE	LAYER 1	2	3	4	COL.
Cic inta		O		O	
Cir vulg	O			O	
Sch arun	R			R	
Phl prat	R			R	
Gev alep		R		R	
Nat cano		R		R	✓
Lyt sali	R			R	
Sonc oler	R			R	
Sal inte	R		R		
Sal erio	R		R		
Hel tube	R			R	
Lem mino				R	
Tuss farf				R	
Cyn offi		R		R	
Dip full	R			R	
Sol dulc		R		R	
Mel albe	O			O	
Lin vulg		R		R	
Lon tata	R			R	
Tri hybr				R	
Sal alba	R			R	✓
Rha cath	R	R			
Asc syri				A	
Phr arun				D	
Vic crac				R	
Amb arte				O	
Cut gram				O	
Pop delt			O	O	
Bid From				O	
Syn lanc				D	
Sal inte	D				
Lem mino				A	
Sal erio	R				

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 12
DATE: Aug 23/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 15

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Song Sparrow	VO		1					
H	Toad	VU		2					
B	Kingbird	OB		2					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 13
	SURVEYOR(S): TK	DATE: Aug 23/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604923	UTMN: 4853679 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE: G OPEN WATER; G SHALLOW WATER; G SURFICIAL DEP.; G BEDROCK

COVER: G OPEN; G SHRUB; G TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Pha arun > Lyt sali > Lee Oryz

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Sic	DEPTH TO MOTTLES / GLEY	g = 8cm	G= 53cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Mostly dry Swale through middle of polygon

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 13
	DATE: Aug 23/2012
	SURVEYOR(S): TK

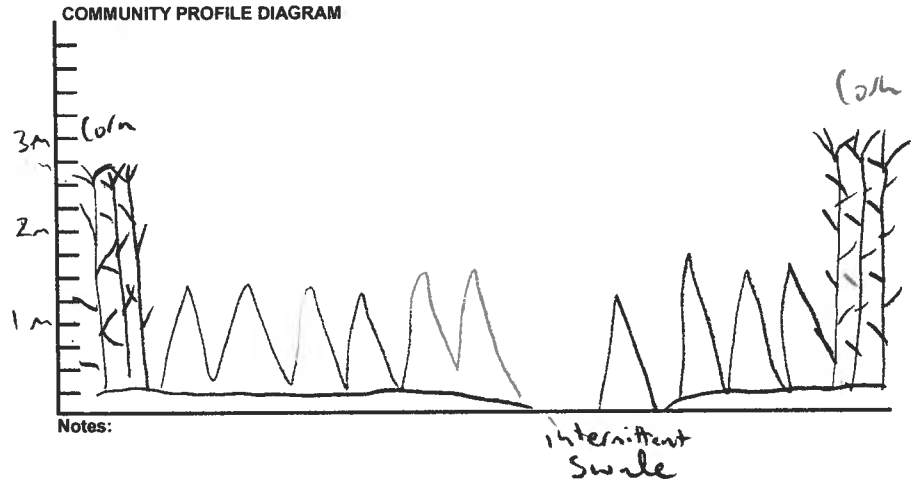
TREE TALLY BY SPECIES: n/a (Meadow)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 13
DATE: Aug 23/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			5					17T	0604423	4853679	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 70cm; B 70-80; C 80-120				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	CL				
COURSE FRAGMENTS	Ø				
C TEXTURE	CL				
COURSE FRAGMENTS	gravel				
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	8cm				
GLEY	53cm				
BEDROCK	>120				
WATER TABLE	75cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 13
DATE: Aug 23/2012
SURVEYOR(S): Tk

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Set pumi				R	
Lyt salt				D	
Cir arve				A	
Syn lame				A	
Pha arun				D	
Amb arte				O	
Lee org				D	
Asc syriaca				O	
Dau caro				O	
Gah cru				R	
Typ lati				A	
Bid fron				A	
Cor vulp				R	
Cit gram				O	
Rha roth			O		
Cyp escu				O	✓
Equi arve				O	
Fer macu				O	
Cic inty				R	
Typ angu				O	
Rud hirt				R	
Epi parv				R	
Sol alti				O	
All riva				O	
Tri hybr				R	
Pan virg				R	✓
Eri stri				R	✓
Sch tabe				R	
Imp cape				R	
Ela angu			R		

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 13
DATE: Aug 23/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

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ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Toad	VO		34					
H	Green Frog	OB		10+					
M	Raccoon	TK							

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 14
	SURVEYOR(S): TK	DATE: Aug 23/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605026	UTMN: 4853563 ±6m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	4	Fra penn > Jug nigr > Acc X free
2	SUB-CANOPY	4	4	Acc negu = Rha cath
3	UNDERSTOREY			
4	GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Fra penn 48.5 — Acc negu 27.5 — Rha cath 24	BA: 19

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	O	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 45cm	G= Ø
MOISTURE: 4 mod. moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: > 120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Woodland	CUW
ECOSITE:	Mineral Cultural Woodland	CUW1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Intermittent Swale flows through northern section of community
- Black walnuts and [illegible] no. [illegible] plantation

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 14
	DATE: Aug 23/2012
	SURVEYOR(S): TK

TREE TALLY BY SPECIES:

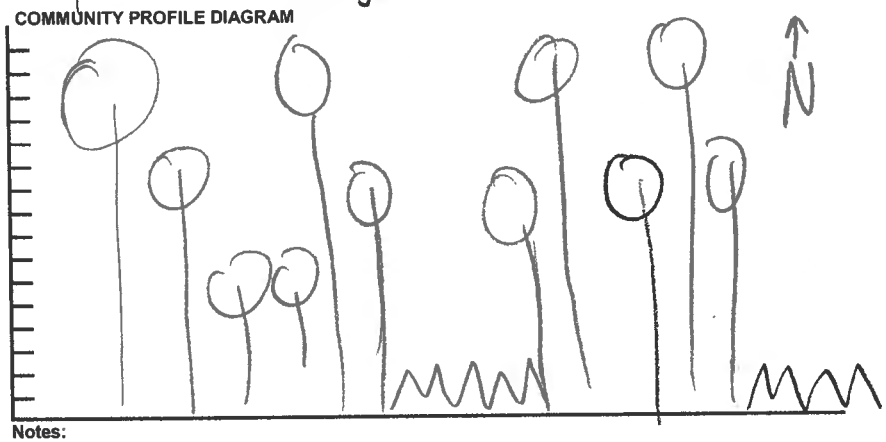
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Acc negu	IIII		∴			8	27.5%
Fra penn	∴	IIII	∴∴			14	48.5%
Rha cath	∴	∴	∴∴			7	24%
TOTAL	9	11	9			29	100
BASAL AREA (BA)	18	22	18			58	19
DEAD							

STAND COMPOSITION:

Fra penn 48.5 — Acc negu 27.5 — Rha cath 24

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 14
DATE: Aug 23
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					174	0605026	4853563
2											
3											
4											
5											

± 6

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 63cm B 63-120+				
A TEXTURE	SiCL	(organics enriched)			
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	45cm				
GLEY	Ø				
BEDROCK	+120cm				
WATER TABLE	+120cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	4 Mod. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE: Area 47
POLYGON: 14
DATE: Aug 23
SURVEYOR(S): Tk

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Rib rubr				R	
Lys numm				O	
Rha cath		D		A	
Acc negu		D			
Pic glau (P)				O	
Frax penn	D				
Gev alep				A	
Vin mino				O	
Sal X sepu	R				
All peti				A	
Soli gigan				R	
Age alti				O	
Urt dioi				O	
Cir cana				O	
Sym lanc				O	
Bid from				R	
Sol alti				O	
Gle hede				O	
Eri phil				R	
Pur inse				R	
Rhu typh				R	
Cam rapu				R	
Phl pani				R	
Jug nigr	A				
Leo card				O	
Rub occi			O		
Cir vulg				R	
Hes matr				R	
Per hydr				R	
Ace X frem	R				
Imp cape				O	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Ech lobu					
Pha arun					
Pru virg			R		
Lee oryz					
Sol dulc					
Tuss farf	R				

syn. Eup rugo →

syn. Cir lotetin

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ELC MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 14
DATE: Aug 23/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	2
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 21

ELC WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Barn Swallow	OB	Perched on antenna	4					
B	Chickadee	OB		1					
M	Black Squirrel	OB		1					
L	Monarch	OB		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 15
	SURVEYOR(S): TK	DATE: Aug 23, 24/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604076	UTMN: 4852760 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL. UPLAND	**COVER**	G BRYOPHYTE	G FEN
G OPEN WATER		G CLIFF	G OPEN	G DECIDUOUS	G BOG
G SHALLOW WATER		G TALUS	G SHRUB	G CONIFEROUS	G BARREN
G SURFICIAL DEP.		G CREVICE / CAVE	G TREED	G MIXED	G MEADOW
G BEDROCK		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Cir arve = Bro inth = Sol alti > Lol pere

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: N/a								BA: N/a
SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: CL	DEPTH TO MOTTLES / GLEY	g = 32cm	G= 0
MOISTURE: S moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 15
	DATE: Aug 23
	SURVEYOR(S):

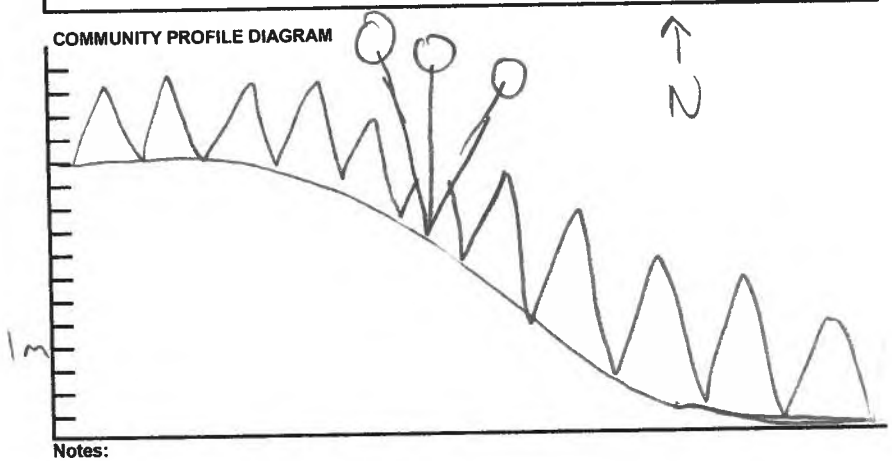
TREE TALLY BY SPECIES: n/a (meadow)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47
	POLYGON: 15
	DATE: Aug 24/2012
	SURVEYOR(S):

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			3					17T	0604076	4852760 ± 4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 17cm				
	B 17-48cm				
	C 48-120cm+				
A TEXTURE	CL (organics enriched)				
COURSE FRAGMENTS	gravel				
B TEXTURE	CL				
COURSE FRAGMENTS	Ø				
C TEXTURE	CL				
COURSE FRAGMENTS	gravel				
EFFECTIVE TEXTURE	CL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	32cm				
GLEY	Ø				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: Area 47
	POLYGON: 15
	DATE: Aug 23/2012
	SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Dac glom				A	
Cic inty				O	
Dau caro				A	
Cir vulg				O	
Eri anno				R	
Poa comp				A	
Bro inin				D	
Plan majo				R	
Son ole				R	
Rum cris				R	
Amb arte				O	
Sym novae				O	
Vic crac				O	
Ely repe				A	
Eut gram				O	
Agr gigan				A	
Lot corn				R	
Sch prat				O	
Inu hele				O	
Dip full				R	
Phol arun				O	
Cir arve				D	
Phl prat				A	
Eri parv				R	
Sol alti				D	
Son arve				A	
Eri strig				R	
Syn lanc				O	
Che albu				R	
Ech vulg				R	
Thl arve				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Oen bien			R	R	
Ligu vulg			R		
Rhu cath			R		
Lon tata			R		
Typ lati				R	
Nep cate				R	
Rud hirt				R	
Meli alba				R	
Tri hybr				R	
Medi lupu				R	
Lol pere				A	
Pan capi				R	
Asc syri				O	
Rhu typh			R		
Are minu				O	
Lin vulg				O	
Syn erie				O	
Geu alep				R	
Per lupa				R	
Xan stru				R	
Sal crib			R		
Eut gram				R	
Syn lanc				R	

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 15
DATE: Aug 24/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 14

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Toad	VO		2+					
B	Mourning Dove	OB		3					
B	Song Sparrow	VO		1					
B	Goldfinch	OB	flying over	1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 16
	SURVEYOR(S): TK	DATE: Aug 24/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604721	UTMN: 4853939 ±6m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Pha arun = Sym lanc > Agr Stol

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION:	BA:

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 8cm G= 72cm
MOISTURE: G v. moist	DEPTH OF ORGANICS: 0	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120	(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Forb Mineral Meadow Marsh	MAM2-10
✓ INCLUSION	Cattail Mineral Meadow Marsh	MAS2-1
COcomplex		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 16
	DATE: Aug 24
	SURVEYOR(S): TK

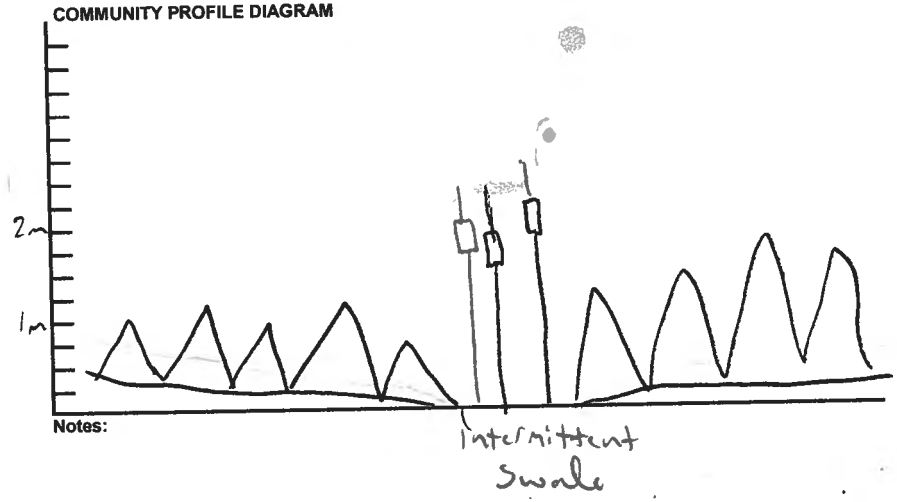
TREE TALLY BY SPECIES: n/a (Meadow Marsh)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 16 DATE: Aug 24/2012 SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6-7					17T	0604721	4853939 ±6m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 20 cm B 20-85 C 85cm-120cm+				
A TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE	SCL				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	8cm				
GLEY	72cm				
BEDROCK	+120 cm				
WATER TABLE	85cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: POLYGON: DATE: SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Pha arun				D	
Sym lanc				D	
Rum cris				R	
Lot corn				R	
Bid fron				O	
Sm arve				O	
Hor jube				R	
Agr stol				A	
Epi paru				R	
Amb arte				O	
Leer oryz				O	
Ace negu		R			
Cir arve				O	
Set puni				O	
Per macn				R	
Sol alti				A	
Asc syri				O	
Sal x rube	O				
Car vulp				R	
Bro inim				R	
Car crist				R	
Ech crus				R	
Poa comp				O	
Poa prat				O	
Equi arve				O	
Cut gram				R	
Vic crau				R	
Typ angu				O	
Typ lati				O	
Ali rivu				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 16
DATE: Aug 24/2012
SURVEYOR(S):

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	3
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Tractor path

= 18

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Am. Toad	VO		2					
O	Whinny (Crayfish)	HO		3					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 17
	SURVEYOR(S): Tk	DATE: Aug 24/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604544	UTMN: 4854043 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Dau caro = Sol alti = Bro inin

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: CL	DEPTH TO MOTTLES / GLEY	g = 13cm	G= ∅
MOISTURE: G v. moist	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 60		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry - Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 17
	DATE: Aug 24
	SURVEYOR(S): Tk

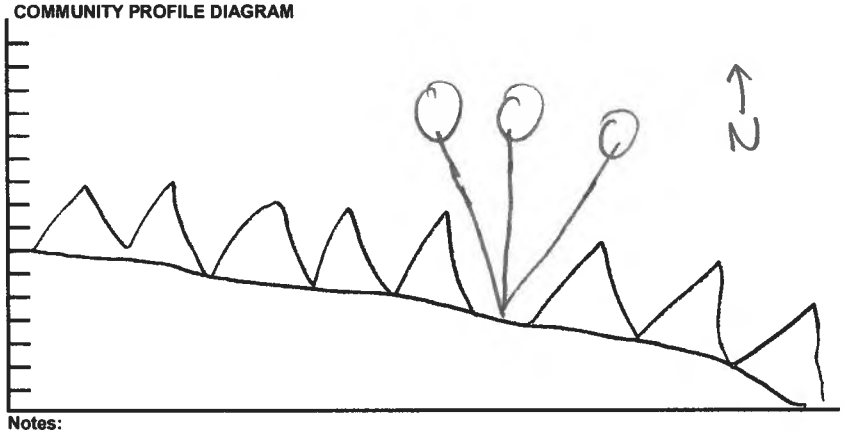
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 17
DATE: Aug 24/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A								17T	0604544	4854043 ±5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 42cm B 42cm-60cm Bedrock				
A TEXTURE	CL				
COURSE FRAGMENTS	Ø				
B TEXTURE	CL				
COURSE FRAGMENTS	pebbles	(very small)			
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	CL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	13cm				
GLEY	Ø				
BEDROCK	60cm				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE: Area 47
POLYGON: 17
DATE: Aug 24/2012
SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Ach mill				O	
Dau caro				D	
Soli altiv. scab				D	
Bro inin				D	
Rha cath			O		
Sym lanc				O	
Rum crisp				O	
Vic crac				O	
Sym nova				O	
Dac glom				O	
Con arve				R	
Geu alep				R	
Poa prat				A	
Asc syria				R	
Fol rect				R	
Eri annu				R	
Lon tata			R		
Sal sp.			R		✓
Lot corn				O	
Dip full				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 17
DATE: Aug 24/2012
SURVEYOR(S): JK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 11

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Toad	VO		2					
B	Goldfinch	VO		2					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 18	
	SURVEYOR(S): TK	DATE: Aug 28/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0605883	UTMN: 4850348	± 4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE	COVER	G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND	G OPEN		G THICKET
		G BEACH / BAR	G SHRUB		G SAVANNAH
		G SAND DUNE	G TREED		G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION
SITE					
G OPEN WATER					
G SHALLOW WATER					
G SURFICIAL DEP.					
G BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sol alti = Cir arve = Son arve = Bro ine

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a							BA: n/a
SIZE CLASS ANALYSIS:	O	< 10	N	10 - 24	N	25 - 50	N > 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N > 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N > 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	V	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: CL	DEPTH TO MOTTLES / GLEY	g = 15 cm	G= 58 cm
MOISTURE: 6 v. moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 18
	DATE: Aug 28/2012
	SURVEYOR(S): TK

TREE TALLY BY SPECIES:

PRISM FACTOR [ ] n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 18
DATE: Aug 28/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			5/7					17T	0605883	4850348 ±4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 15cm B 15-50 C 80+				
A TEXTURE	CL				
COURSE FRAGMENTS	Ø				
B TEXTURE	CL				
COURSE FRAGMENTS	Ø				
C TEXTURE	SCL				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	CL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	15cm				
GLEY	58cm				
BEDROCK	>170				
WATER TABLE	>170				
CARBONATES	—				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	—				
PORE SIZE DISC #2	—				
MOISTURE REGIME	G v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE: Area 47
POLYGON: 18
DATE: Aug 28/2012
SURVEYOR(S): Tk

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Cdr arve				D	
Bro inin				D	
Pha arun				O	
Syn lanc				A	
Syn nova				O	
Inv hele				R	
Sou arve				D	
Phl prat				O	
Rum cris				R	
Dau caro				R	
Vic crac				O	
Asc syri				A	
Agr stol				O	
Epi cili				R	
Son olor				R	
Ely rep				O	
Rha cath	O	O			
Mal pum	R				
Pyr comm	R				
Ace negu	R				
Cra punc	O				
Hel tube				A	
Imp glan				R	
Eut gram				O	
Amb arte				R	
Lot corn				R	
Sol alt				D	
Ach mill				R	
Cra mono		R		R	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 18
DATE: Aug 28/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	2
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	2
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 18

ELC

WILDLIFE

SITE: Area 47
POLYGON: 18
DATE: Aug 28/2012
SURVEYOR(S): TK
START TIME:
END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	AmTo	Vo		10					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 18A
	SURVEYOR(S): Tk	DATE: Aug 28, Sept 13/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605872	UTMN: 4850319 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5	4	Sym lanc > Bro inin >> Agr stol

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SC	DEPTH TO MOTTLES / GLEY	g = 10	G= 70
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAMZ
VEGETATION TYPE:	Forb Mineral Meadow Marsh	MAMZ-10
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 18A
DATE: Sept 13/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Slope Aspect	%	Type	Class	UTM Z	EASTING	NORTHING	
1	A			5					17	0605872	4850319	± 5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 – 30° B				
A TEXTURE	SC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	10				
GLEY	70				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	/				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	/				
PORE SIZE DISC #2	/				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE: Area 47
POLYGON: 18A
DATE: Aug 28
SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym lanc				D	
Epi parv				O	
Agr stol				O	
Car cris				R	
Bro inim				A	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 18A
DATE: Aug 28/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 19
	SURVEYOR(S): TK	DATE: Aug 28/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605849	UTMN: 4850296 ± 4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL. UPLAND	**COVER**	G BRYOPHYTE	G FEN
G OPEN WATER		G CLIFF	G OPEN	G DECIDUOUS	G BOG
G SHALLOW WATER		G TALUS	G SHRUB	G CONIFEROUS	G BARREN
G SUPERFICIAL DEP.		G CREVICE / CAVE	G TREED	G MIXED	G MEADOW
G BEDROCK		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	1	Sal X rube >> Ace X free = Pop delt
2	SUB-CANOPY			
3	UNDERSTOREY	3	4	Sal inte >> Sal eria
4	GRD. LAYER	6	4	Sou arve > Car cris

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	A	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 5cm G= 66cm
MOISTURE: G v. moist	DEPTH OF ORGANICS: 0 (cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 110 (cm)	

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SW
COMMUNITY SERIES:	Thicket Swamp	SWT
ECOSITE:	Mineral Thicket Swamp	SWT2
VEGETATION TYPE:	Willow mineral Thicket Swamp	SWT2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 19
	DATE: Aug 28/2012
	SURVEYOR(S): TK

TREE TALLY BY SPECIES: n/a (Willows too Thin)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 19
DATE: Aug 28/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			5					17T	0605899	4850296
2											
3											
4											
5											

±4

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 15cm B 15cm-105cm C 105cm-110cm Bedrock 110cm				
A TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	15cm				
GLEY	66cm				
BEDROCK	110cm				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE: Area 47
POLYGON: 19
DATE: Aug 28/2012
SURVEYOR(S): Tk

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sal X rube	A				
Lys numm				O	
Car retr				R	
Gali sp.				R	
Pha arun				O	
Ali rivu				R	
Typ lati				O	
Sal crio			O		
Xan stru				R	
Sal inter			D		
Sol dulc				R	
Son arve				A	
Epi cili				O	
Carex cris				A	
Sym nova				O	
Cir arve				O	
Cra punc				R	
Ribes cubr				R	✓
Ace X Free	R				
Fop Acet	R		R		
Sym lanc				A	

SPECIES CODE	LAYER 1	2	3	4	COL.

Page ..... of .....

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 19
DATE: Aug 28/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	1
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

E11

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

✓	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Beaver	SI	Cuttings						
M	Raccoon	TK							
M	Fox	TK/HO							

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 20	
	SURVEYOR(S): TK	DATE: Aug 28/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0605762	UTMN: 4850557	±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY	3	3	Rha cath > Cra pune > Ace negu
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Bro inin = Sol alti > Hel tube > Ase syr

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION:	BA:

SIZE CLASS ANALYSIS:		< 10		10 - 24		25 - 50		> 50
STANDING SNAGS:		< 10		10 - 24		25 - 50		> 50
DEADFALL / LOGS:		< 10		10 - 24		25 - 50		> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G=
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Savanna	CUS
ECOSITE:	Mineral Cultural Savanna	CUS1
VEGETATION TYPE:	Hawthorn Cultural Savanna	CUS1-1
✓ INCLUSION	Reed Canary Grass Mineral Meadow	MAM2-2
✓ ~~COMPLEX~~ Inclusion	Willow Mineral Thicket Swamp	SWT2-2

Notes: Large Beaver Pond : 0605645, 4850635 ±3m

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 20
	DATE: Aug 28/2012
	SURVEYOR(S): TK

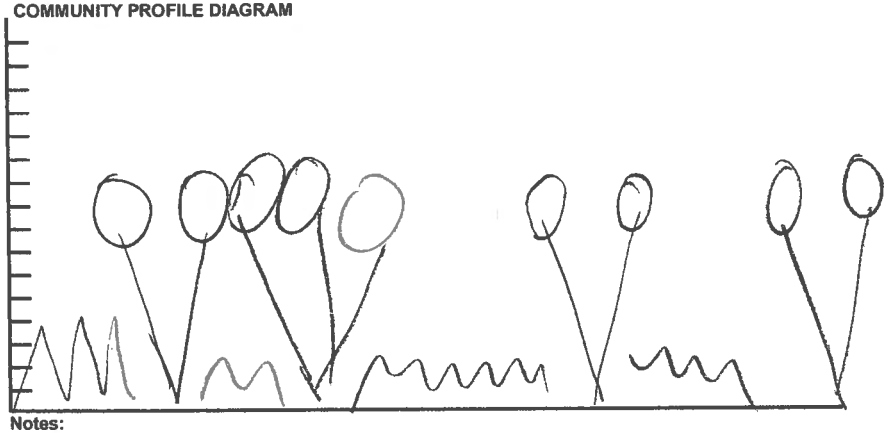
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1				7					17+	0605762	4850557 ±5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 25cm B 25cm + 120cm+				
A TEXTURE	CL				
COURSE FRAGMENTS	Ø				
B TEXTURE	CL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE					
SURFACE STONINESS					
SURFACE ROCKINESS					
DEPTH TO / OF					
MOTTLES	25cm				
GLEY	50cm				
BEDROCK	120+				
WATER TABLE					
CARBONATES					
DEPTH OF ORGANICS					
PORE SIZE DISC #1					
PORE SIZE DISC #2					
MOISTURE REGIME					
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: Area 47
	POLYGON: 20
	DATE: Aug 28/2012
	SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Cra sp.			O		out bag ✓
Bro inin				D	
Sol alti				D	
Lin vulg				O	
Hel tube				A	
Asc syri				A	
Agr giga				O	
Geu alep				A	
Rha earth		D	D	A	
Dau caro				O	
Ros sp				R	
Inu hele				O	
Mel alba				R	
Sol nemo				R	
Vic crac				O	
Sal X sepu	O				
Sym lanc				A	
Soa arve				A	
Pop delt					✓
Oen bien				R	
Ulm amer	R				
Ace negu		O		R	
Pop trem	O				
All peti				O	
Rum cris				R	
Lys numm				R	
Agr stol				O	
Lyt sali				O	
Lon tata			R		
Bud vulg				R	

Hyp perf
Mel alba

SPECIES CODE	LAYER 1	2	3	4	COL.
Lee oryz				O	
Xan stru				R	
Ech lobu				R	
Juncus sp				R	✓
Pe hydr				R	
Imp cape				R	
Sal inte			R	R	
Que rubr			R		
Rub occi			R		
Cra c.f. pune		O			
Fes rubr				O	
Symeric				R	
Cra macr			O		
Cir vulg				R	
Lys numm				R	
Lith offi				R	
Ech crus				R	
Ver hast				R	
Sch arun				O	
Tri repe				R	
Eleo sp.				R	
Eri annu				R	
Cic intg				R	
Ela angu		R		R	

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 20
DATE: Aug 28/2012
SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.	SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Gly stri				O							
Men cuna				R							
Scl atro				R							
Pha arun				D							
Lyt sali				A							
Typ lati				O							
Lee oryz				A							
Imp cape				O							
Sch tabe				R							
Ali riva				R							
Ele sp.				O							

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 20
DATE: Aug 28/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 25

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
L	Monarch	OB		1					
B	Starling	OB		1					
B	Goldfinch	OB		1					
H	AMTO	VO		3					
M	Beaver	SJ	out stream						
M	Bear	SJ	Brown scat						
B	Green Heron	OB		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 21
	SURVEYOR(S): TK	DATE: Aug 28/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605587	UTMN: 4850615 ±6m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL. UPLAND	COVER	G BRYOPHYTE	G FEN
G OPEN WATER		G CLIFF	G OPEN	G DECIDUOUS	G BOG
G SHALLOW WATER		G TALUS	G SHRUB	G CONIFEROUS	G BARREN
G SURFICIAL DER.		G CREVICE / CAVE	G TREED	G MIXED	G MEADOW
G BEDROCK		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	4	Rha cath > Cra pune
2	SUB-CANOPY			
3	UNDERSTOREY	4	2	Rha cath
4	GRD. LAYER	7	1	All peti >> Lys num

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 100 BA: 11

SIZE CLASS ANALYSIS:	A	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 40cm	G= 70cm
MOISTURE: S Moist	DEPTH OF ORGANICS: 8		(cm)
HOMOGENEOUS ✓ VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUT1
VEGETATION TYPE:		
✓ INCLUSION	Raspberry Cultural Thicket	CUT1-5
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 21
	DATE: Aug 28/2012
	SURVEYOR(S): TK

TREE TALLY BY SPECIES:

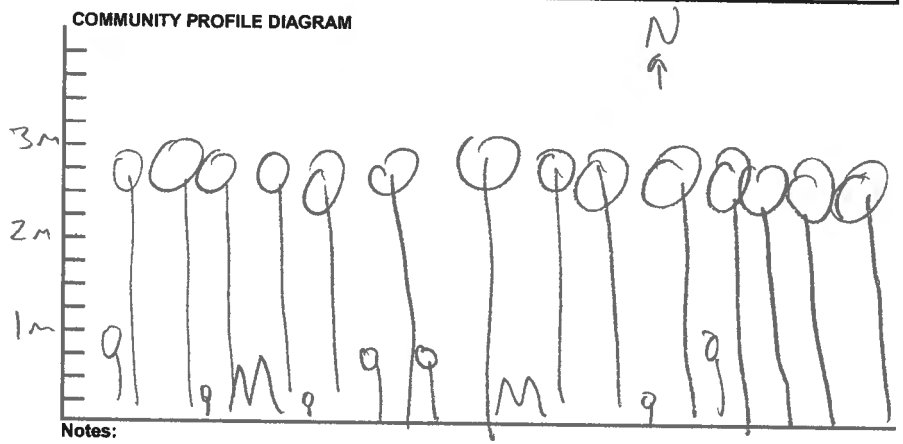
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Rha cath	' '	' '	⊠			16	100%
TOTAL	4	2	10			16	100
BASAL AREA (BA)	8	4	20			32	11
DEAD							

STAND COMPOSITION:

Rha cath 100

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE:
POLYGON:
DATE:
SURVEYOR(S):

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17T	0605587	4850615
2											
3											
4											
5											

±6m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 40cm B 40cm-120cm+				
A TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	40cm				
GLEY	>70cm				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1					
PORE SIZE DISC #2					
MOISTURE REGIME					
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 21
DATE: Aug 28/2012
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Rha cath	D		D	D	
Vio sor				R	
Lys nummu				A	
Fra penn	R				
Til amer		R			
Cir rata				R	
Pru virg			R		
All peti				A	
Tox rydb				R	
Hyd virg				R	
Mai racc				R	
Que macr	O				
Car ovat		O	R		✓
Gev alep				R	
Jug regi				O	
Vit ripa				R	
Cra mono			R		
Sol flex				R	
Rib rubr				R	
Cra punc	A		O		
Evon obov				R	
Lys cili				R	
Cra sp.	O		O		
Car rete				R	
Epi cili				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Rub strig				D	

Inc

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ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 21
DATE: Aug 28/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	1
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=12

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 22
	SURVEYOR(S): TK	DATE: Aug 28/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605477	UTMN: 4850717 ±7m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	3	Sal int >> Sal erib
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Syn lanc > Pha arun >> Dic vulg

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	A	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 12cm	G= 40cm
MOISTURE: G Vi moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 85		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Forb Mineral Meadow Marsh	MAM2-10
INCLUSION		
✓ COMPLEX	Willow Mineral Thicket Swamp	SWT2-2

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 22
	DATE: Aug 28/2012
	SURVEYOR(S): TK

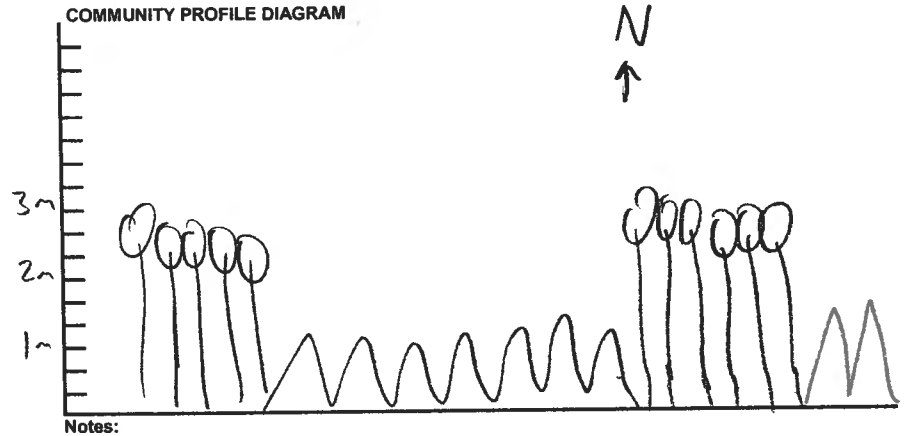
TREE TALLY BY SPECIES: n/a (willows too thin)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 22
DATE: Aug 28/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Slope Position	Aspect	%	Type	Class	UTM Z	EASTING	NORTHING
1	A			7					17T	0605477	4850717
2											
3											
4											
5											

±7m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 15cm B 15-75cm C 75-85 Bedrock				
A TEXTURE	SiCL				
COURSE FRAGMENTS	0				
B TEXTURE	SiCL				
COURSE FRAGMENTS	0				
C TEXTURE	SCL				
COURSE FRAGMENTS	Pebbles				
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS					
SURFACE ROCKINESS					
DEPTH TO / OF					
MOTTLES	12cm				
GLEY	40cm				
BEDROCK	85cm				
WATER TABLE	0				
CARBONATES	/				
DEPTH OF ORGANICS	0				
PORE SIZE DISC #1	/				
PORE SIZE DISC #2	/				
MOISTURE REGIME	6 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Syn lanc				D	
Car cris				O	
Car vulp				O	
Cir arve				O	
Phg arun				D	
Bid vulg				A	
Iva lele				R	
Son arve				R	
Sal eria			O		
Vic crac				O	
Sal disc			O		
Rha cath			R		
Ace nego			R		
Agr stol				O	
Lyc amer				R	
Poa palu				O	
Ect gram				R	
Cir vulg				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Agr stol				O	
Lyc amer				R	
Poa palu				A	
Sal disc			R		
Sal eria			O		
Sal inte			D		

Sal mi

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 22
DATE: Aug 28/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

-2

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 23
	SURVEYOR(S): Tk	DATE: Aug 30/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605394	UTMN: 4854381 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Bro inn > Cir arve >> Sym lanc

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 37	G= 55
MOISTURE: S Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >100		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
✓ COMPLEX	① Forb Mineral Meadow Marsh	MAM2-10

② Cattail Mineral Shallow Marsh MAS2-1

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

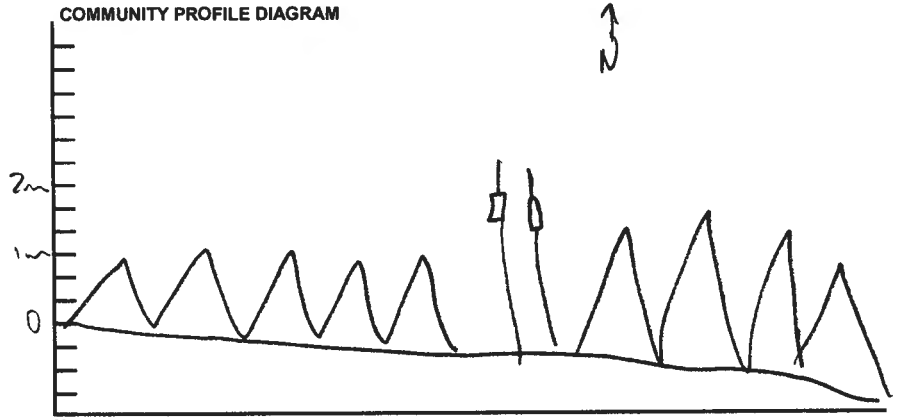
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47
	POLYGON: 23
	DATE: Aug 30/2012
	SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0605394	4854381 ±5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 50cm B 50-100cm+ Clay impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	pebbles				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	37cm				
GLEY	55cm				
BEDROCK	+100cm				
WATER TABLE	+100cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 moist				
SOIL SURVEY MAP					
LEGEND CLASS					

* soil impenetrable at 100cm

ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Bro inia				D	
Cir arve				A	
Sym lanc				A	
Das glom				O	
Arc mini				O	
Lin vulg				O	
Sch arun				R	
Ely repe				O	
Sol alti				A	
Asc syrla				O	
Poa prat				A	
Son arve				O	
Pnu caro				O	
Rha cath			O		
Lot corn				R	
Sym nova				O	
Vic crac				R	
Fra penn		R			
Rum cris				R	
Eut gram				O	
Inu hele				R	
Fes rubr				O	
Poa comp				O	
Phl prat					
Arc negu	O		R		
Meli alba				R	
Cic inty				R	
Pha arun				O	
Mnt cano				R	
Oxa stri				R	
Sil vulg				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Leo card				O	
Con cana				R	
Ang arte				R	
Pla majo				R	
Sal X rubc	R				
Rbu typh			R		
Rob pseu		R			
Um amer		R			
Pop delt	R				
Sol dulc				R	
Cir vulg				R	
Epi parv				R	
Son oler				R	
Eut gram				O	
Agr giga				O	
Bro inia				O	
Ely rep				O	
Cir arve				O	
Lyt sali				[illegible]	R
Typ angu				A	
Sym lanc				D	
Lon mino				O	
Bid fron				O	
Ech crus				R	
Per macu				R	
Per hydr				A	
Pan capi				R	
Agr stol				O	
Typ angu				D	

Meadow Marsh Comp.

Cattail Comp

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 23
DATE: Aug 30/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	6
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 20

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Deer	SI	Browse						
F	Downy Wood	VO		1					
H	AMTO	VO		4					
M	Vole	OB	under wood	1					

Asc syriaca browse

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47	POLYGON: 24	
	SURVEYOR(S): Tk	DATE: Aug 30/2012	TIME: start / finish
	UTMZ: 17	UTME: 0603326	UTMN: 4851821 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Bro inin > Clr arve = Ely repe > Pas Saiti

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1 = 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: N/a BA: N/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Loam	DEPTH TO MOTTLES / GLEY	g = 32cm	G= Ø
MOISTURE: 5 Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 35		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cutural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Fresh Old Field Meadow	CUM1-1
INCLUSION	Cattail Mineral Shallow Marsh	MAS2-1
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

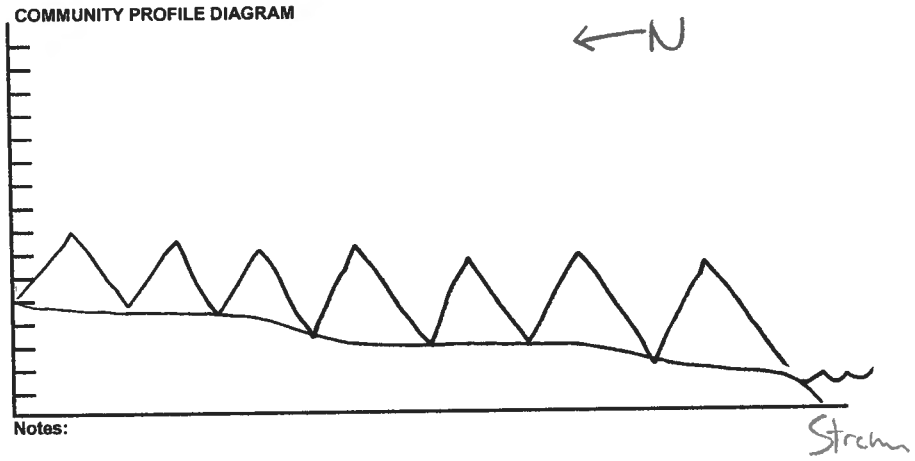
TREE TALLY BY SPECIES: N/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 24 DATE: Aug 30/2012 SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			3-5						0603326	4851821	±4m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 35cm 35 bedrock				
A TEXTURE	Loam				
COURSE FRAGMENTS	Ø				
B TEXTURE					
COURSE FRAGMENTS					
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	L				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	32cm				
GLEY	Ø				
BEDROCK	35cm				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: POLYGON: DATE: SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Cir arve				A	
Son arve				O	
Bro inin				D	
Dip full				O	
Pas sati				A	
Inv bele				O	
Syn nova				O	
Ely repe				A	
Fes rubra				O	
Pon comp				O	
Ach mill				R	
Dac glom				O	
Mem X pipe				A	✓
Oen bien				R	
Syn late				R	
Pla lanc				O	
Ela umbe			R		
Lyt sali				R	
Xan stru				R	
Pha arun				O	
Arc lapp				O	
Cut macu				R	
Sch arun				A	
Sch prat				A	
Rha cath				O	

SPECIES CODE	LAYER 1	2	3	4	COL.
Lyt sali				A	
Pot zosi				R	
Xan stru				R	
Lee oryz				A	
Pha arun				A	
Typ angu				D	
Iris pseu				R	
Imp cape				O	
Ech loba				O	
Eup macu				O	
Eup perf				R	
Myo scor				R	

cattail inc

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 24
DATE: Aug 30/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	6
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER Valley Slope Erosion	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 23

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 25	
	SURVEYOR(S): TK	DATE: Aug 30/2014	TIME: start / finish	
	UTMZ: 17	UTME: 0603306	UTMN: 4851795	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE			**COVER**		
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	3	Sch tabe > Leer oryz > Sag latifi > Spa eury

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Organic	DEPTH TO MOTTLES / GLEY	g = 0	G= 0
MOISTURE: 7 Mod. Wet	DEPTH OF ORGANICS: 10cm		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 20cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Organic Shallow Marsh	MAS3
VEGETATION TYPE:	Bulrush Organic Shallow Marsh	MAS3-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

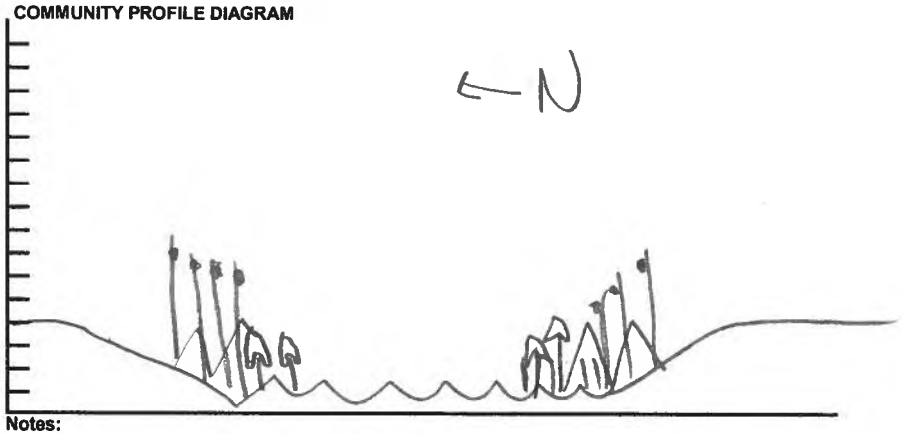
TREE TALLY BY SPECIES:

PRISM FACTOR [ ] n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 25 DATE: Aug 30/2012 SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0603306	4851795
2											
3											
4											
5											

+ 4m

2 stigmas

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 10 cm B 10-20cm 20cm Bedrock				
A TEXTURE	Organic				
COURSE FRAGMENTS	Some pebbles				
B TEXTURE	Pebbles				
COURSE FRAGMENTS	entirely pebbles				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	Organic				
SURFACE STONINESS					
SURFACE ROCKINESS					
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	Ø				
BEDROCK	20cm				
WATER TABLE	above surface				
CARBONATES	\				
DEPTH OF ORGANICS	10cm				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	7 Mod. Wet				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: Area 47 POLYGON: 25 DATE: Aug 30/2012 SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sch tabe				D	
Spa eury				A	
Lee oryz				A	
Sag lati				A	
Per lapa				R	
Pot hado				O	
Cer deme				O	
Ech crus				R	
Sei atro				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 25
DATE: Aug 30/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	6
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=8

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47	POLYGON: 26
	SURVEYOR(S): Tk	DATE: Aug 30/2012 TIME: start / finish
	UTMZ: 17 UTME: 0603524	UTMN: 4852088 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL, UPLANO		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS	**COVER**	G CONIFEROUS	G BARREN
G OPEN WATER		G CREVICE / CAVE		G MIXED	G MEADOW
G SHALLOW WATER		G ALVAR	G OPEN		G PRAIRIE
G SURFICIAL DEP.		G ROCKLAND	G SHRUB		G THICKET
G BEDROCK		G BEACH / BAR	G TREED		G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	3-5	4	Typ lat = Typ angu >> Lyt Sal.

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Si	DEPTH TO MOTTLES / GLEY	g = 5cm G= 25cm
MOISTURE: G V. Moist	DEPTH OF ORGANICS: 0	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120	(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-1
INCLUSION		
COMPLEX		

Notes: No standing water, cattails extremely dense, limited other vegetation

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

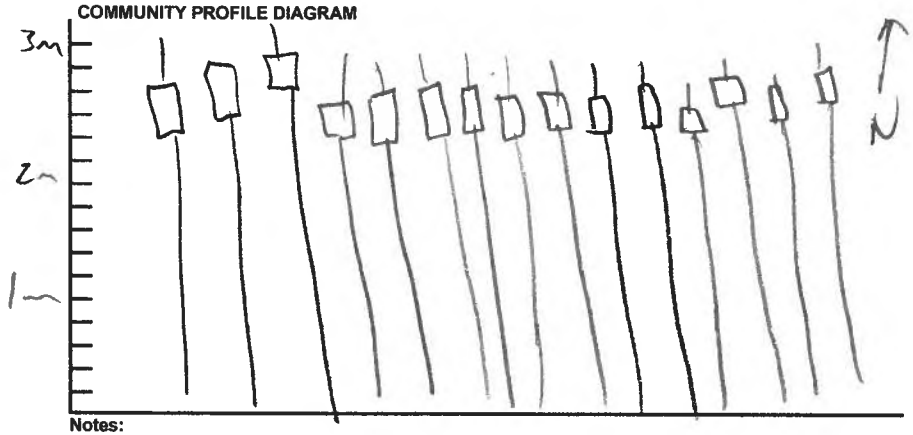
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 26 DATE: Aug 30/2012 SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			5					17	0603524	4852088	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 30cm 30cm - 120cm+				
A TEXTURE	Si				
COURSE FRAGMENTS	Ø				
B TEXTURE	Si				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	Si				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	5cm				
GLEY	25cm				
BEDROCK	+120				
WATER TABLE	70cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: POLYGON: DATE: SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Typ lati				D	
Typ angu				D	
Soll dulc				O	
Lyt sali				A	
Sc atro				R	
Car retr				R	
Lyc amer				O	
Car crist				R	
Agr stol				A	
Fra penn			R		
Pha arun				A	
Jun dudl				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 26
DATE: Aug 30/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	6
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 14

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 27
	SURVEYOR(S): Tk	DATE: Aug 30/2011	TIME: start / finish
	UTMZ: 17	UTME: 0603504 0	UTMN: 4852013 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL. UPLAND	**COVER**	G BRYOPHYTE	G FEN
G OPEN WATER		G CLIFF	G OPEN	G DECIDUOUS	G BOG
G SHALLOW WATER		G TALUS	G SHRUB	G CONIFEROUS	G BARREN
G SURFICIAL DEP.		G CREVICE / CAVE	G TREED	G MIXED	G MEADOW
G BEDROCK		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	6	4	Bro. inin = Poa com > Agr gig

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: CL	DEPTH TO MOTTLES / GLEY	g = 25 cm	G= 60 cm
MOISTURE: G v. moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes: Possibly grazed

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

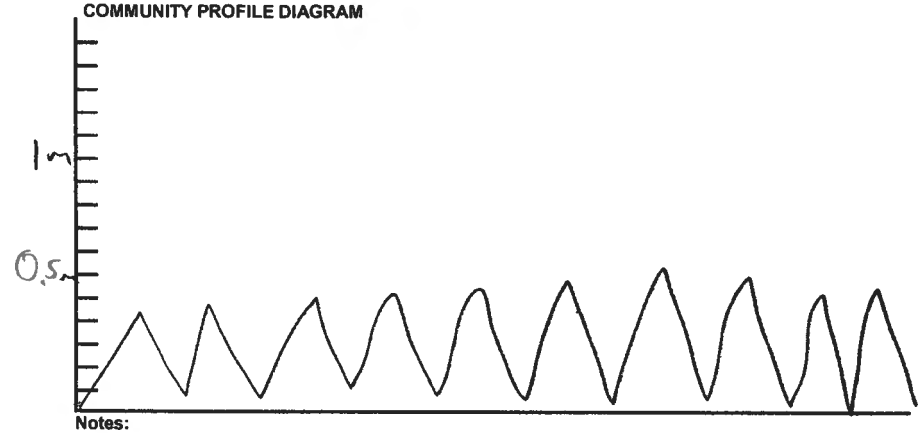
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 27
DATE: Aug 30/2017
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	UTM EASTING	UTM NORTHING
1	A			7					17	0603504	4852013
2											
3											
4											
5											

±4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 70cm; B 70 – 95cm; C 95 – 120cm+				
A TEXTURE	CL				
COURSE FRAGMENTS	some pebbles				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE	Si				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	CL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	35cm				
GLEY	60				
BEDROCK	>120				
WATER TABLE	95cm				
CARBONATES	/				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	/				
PORE SIZE DISC #2	/				
MOISTURE REGIME	6 v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE: Area 47
POLYGON: 27
DATE: Aug 30/2017
SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Bro inin				D	
Po cony				D	
Un vulg				O	
Car vulg				R	
Ach mill				R	
Phl pat				A	
Cir vulg				O	
Fes rubr				D	
Agr gigg				A	
Pla lanc				R	
Sol alti				O	
Sym nova				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE:
POLYGON:
DATE:
SURVEYOR(S):

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	1 ?
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	6
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 16

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 28	
	SURVEYOR(S): Tk	DATE: Aug 30/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0604289	UTMN: 4852031	±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEYSIDE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3-4	4	Rha cath >> Cra mono
4	GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 90 – Cra mono 10 BA: 7

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: CL	DEPTH TO MOTTLES / GLEY	g = Q	G= Q
MOISTURE: 2 Fresh	DEPTH OF ORGANICS: Q		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 15		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUT1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Pond hidden within thicket; sparse understory, mainly Rha cath regeneration

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 28
	DATE: Sept 5/2012
	SURVEYOR(S): Tk

TREE TALLY BY SPECIES:

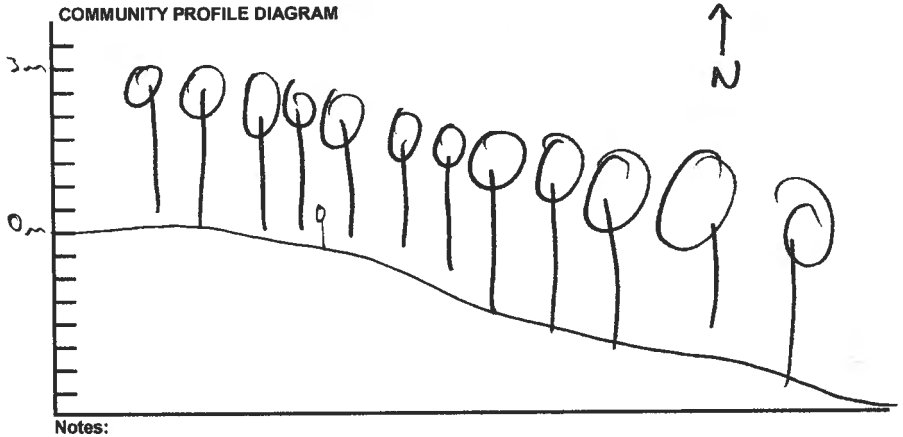
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Rha cath	;;	;;	;;			9	90%
Cra mono		;				1	10%
TOTAL	4	3	3			10	100
BASAL AREA (BA)	8	6	6			20	7
DEAD							

STAND COMPOSITION:

Rha cath 10 – Cra mono 10

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 28
DATE: Aug 30/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			1					17	0604289	4852031
2											
3											
4											
5											

±5m

SOIL	1	2	3	4	5
TEXTURE x HORIZON					
A TEXTURE	CL				
COURSE FRAGMENTS	pebbles				
B TEXTURE					
COURSE FRAGMENTS					
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE					
SURFACE STONINESS					
SURFACE ROCKINESS					
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	Ø				
BEDROCK	15cm				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	2 Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Cra mono		A			
Rhu cath		D	D		
Pru virg			O		
Ulm amer			R		
Ribes tabr				R	
Part inse				O	
Ace negu	O				
Lon tata			R		
Ono sens				R	
Car cris				R	

around pond

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 28
DATE: Aug 30/2012
SURVEYOR(S): TR

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=11

ELC

WILDLIFE

SITE:
POLYGON: 28
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Squirrel	HO	nest						
M	Chipmunk	FE	Holes						
M	Deer	OB	dead	1					
H	Tadpoles	OB		;;					

late Sept. observed

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 29	
	SURVEYOR(S): TK	DATE: Aug 30/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0603953	UTMN: 4852464	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2-3	4	Sal X rubr > Acc nego
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sym lanc = Phg arun > Tyo angu

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 12 cm	G= 45cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0 (cm)		
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120 (cm)		

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SW
COMMUNITY SERIES:	Deciduous Swamp	SWD
ECOSITE:	Mineral Deciduous Swamp	SWD4
VEGETATION TYPE:	Willow Mineral Deciduous Swamp	SWD4-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

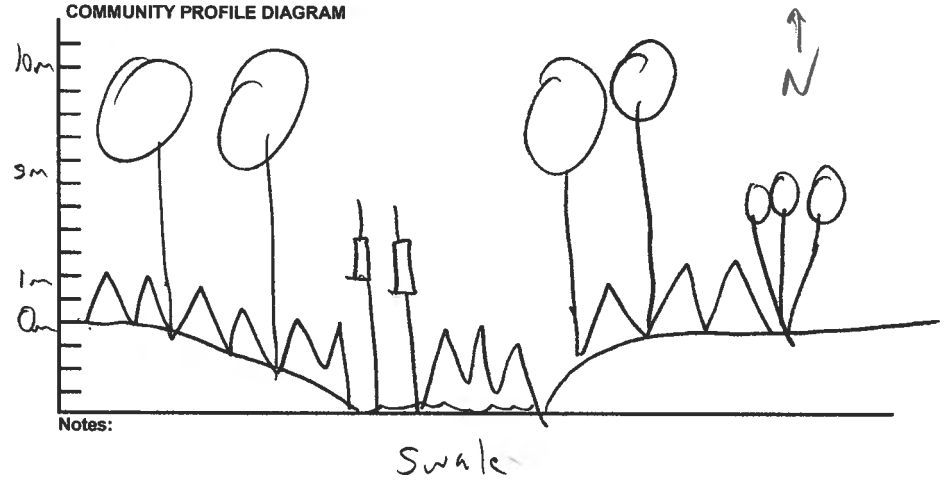
TREE TALLY BY SPECIES: n/a (community too narrow)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 29
DATE: Aug 30/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0603953	4852464
2											
3											
4											
5											

± 4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 – 30 B				
A TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Pebbles				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Some				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	12cm				
GLEY	45cm				
BEDROCK	>120				
WATER TABLE	75cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 V. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sal X rube	D				
Ace negu	O	O			
Sal erio			A		
Typ angu				D	
Sym lanc				D	
Ech loba				A	
Pha arun				D	
Imp cape				A	
Cut gran				O	
Sol alti				A	
Bro inin				A	
Sci atro				R	
Lee oryz				O	
Cir arve				A	
Vic crac				O	
Bha cath		A	A		
Car lett				R	
Carex cris				R	
Typ lati				D	
Equ arve				R	
Cor seri			R	R	
Son arve				O	
Agr stol				A	
All peti				R	
Grev alep				R	
Elo cana				O	
Sag lati				O	
Eup macu				R	
Cra mono		R			

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 29
DATE: Aug 30/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	9
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 29

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Toad	VO		5					
M	Beaver	SI	dam						

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 30
	SURVEYOR(S): TK	DATE: Sept 5/2012	TIME: start / finish
	UTMZ:	UTME: 0605070	UTMN: 4851776 ± 4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Bro inin = Sym lanc = Cir arvv

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: S/C	DEPTH TO MOTTLES / GLEY	g = 50cm	G= 90cm
MOISTURE: 4 Mod. moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist old Field Meadow	CUM1-1
✓ INCLUSION	Forb Mineral Meadow Marsh	MAM2-10
COMcomplex		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

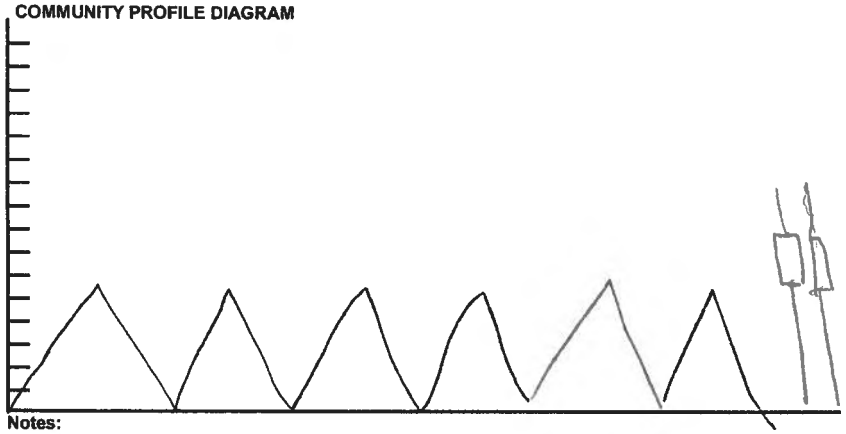
TREE TALLY BY SPECIES:

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 30
DATE: Sept 5/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			7					17	0605070	4851776	± 4m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 90cm; B 90cm + 120cm +				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	50cm				
GLEY	90cm				
BEDROCK	>120cm				
WATER TABLE	100cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	4 Mod. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Dau caro				A	
Sym lanc				A	
Vic crac				O	
Sol alti				O	
Pha arun				A	
Bro inin				D	
Ely repe				A	
Phl prat				O	
Son arve				O	
Cir arve				A	
Cir vulg				R	
Rum cris				O	
Men arve				R	
Typ lati				R	
Pop delt				R	
Sal erio				R	
Sal int				R	
Ech crus				R	
Pan virg				R	
Car vulp				R	
Art bien				R	✓
Jun acum				R	✓
Sal X rube				R	
Agr stol				A	
Lyt sali				A	
Bid tron				R	
Hel tube				A	
Asc syri				O	
Tan vulg				R	
Cut gran				O	

SPECIES CODE	LAYER 1	2	3	4	COL.
Epi parv				R	
Sci atro				R	
Imp rupe				R	
Son olar				O	
Agr giga				O	
Sym nova				O	
Pin resi			R		
Rha cath			O		
Mal pumi			R		
Cra mono				R	
Jun dudl				O	
Oen bien				R	
Mel alba				O	
Eri annu				R	
Cic inty				R	
Lol pere				O	
Pla major				R	
Cic inty				R	
Jun dud				R	
Rum cris				O	
Cir arv				R	
Sym lanc				D	
Pop delt				O	
Sci atro				R	
Lyt sali				O	
Lol pere				A	
Typ lati				D	
Amb arte				R	
Pha arun				A	
Sol alti				A	

Sym lanc comp

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ELC

MANAGEMENT / DISTURBANCE

SITE: Arch 47
POLYGON: 30
DATE: Sept 5/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 13

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Catbird	VO		1					
B	Mockingbird	VO		1					
B	Chickadee	VO		1					
B	Flicker	VO		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
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NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

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OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47	POLYGON: B1
	SURVEYOR(S): TK	DATE: Sept 5/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604947	UTMN: 4851875 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL. UPLAND	**COVER**	G BRYOPHYTE	G FEN
G OPEN WATER		G CLIFF	G OPEN	G DECIDUOUS	G BOG
G SHALLOW WATER		G TALUS	G SHRUB	G CONIFEROUS	G BARREN
G SURFICIAL DEP.		G CREVICE / CAVE	G TREED	G MIXED	G MEADOW
G BEDROCK		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	3	Bha cath > Cra mono > Cla sp.
4	GRD. LAYER	4-6	4	Bro inin = Sol alti > Cir arve > Hel tube

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	A	< 10	O	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: S, C	DEPTH TO MOTTLES / GLEY	g = ∅ G= ∅
MOISTURE: 2 Fresh	DEPTH OF ORGANICS: ∅	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >40cm	(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Savanna	CUS
ECOSITE:	Mineral Cultural Savanna	CUS1
VEGETATION TYPE:	Hawthorn Cultural Savanna	CUS1-1
✓ INCLUSION	Forb Mineral Meadow Marsh	MAM2-10
COMPLEX		

Notes: Big Old rusting culvert next to creek

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: B1
	DATE: Sept 5/2012
	SURVEYOR(S):

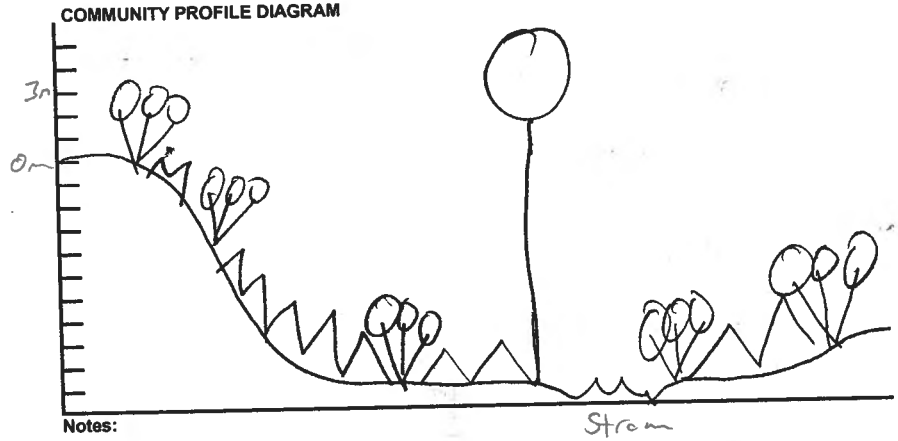
TREE TALLY BY SPECIES: n/a (savanna)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 31
DATE: Sept 5 / 2012
SURVEYOR(S): JK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604943	4851875 ±4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 15cm; 15-40cm; 40cm impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	Ø				
BEDROCK	>40cm				
WATER TABLE	>40cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	7 Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Hel tube				A	
Cra mono	O		A		
Rhu cath			D		
Nat camo				R	
Tri prat				R	
Bro inin				D	
Vic crac				A	
Syn nova				A	
Sol alti				D	
Cir arvo				A	
Xan stru				O	
Pha arun				A	
Bid from				R	
Asc syri				O	
Vib opul			R	R	
Lyt sali				O	
Rum crib				O	
Eut gram				O	
Dac glom				O	
Cic inty				R	
Oen bien				R	
Sch tube				R	
Sol x rube	O		O		
All riva				R	
Lot corn				O	
Cra sp.			A		✓
Sol dulc				R	
Lin vulg				R	
Ace negu			R		
Poa comp.				O	
Inu hele				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Cor seri			R		
Sol crio			O	O	
Pru sp.			R		✓
Ulm amer	R				
Per lupa				R	
Lil mich				R	
Jug nigr		R			
Gau alep				R	
Pru virg			R		
Ech luba				R	
Cra sp.			R		
Til amer	R				
Sym lane				D	] in

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 31
DATE: Sept 5/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	3
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	3
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Rusting culvert beside creek

=16

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
L	Monarch	OB		1					
M	Mink	OB	Along creek	1					
B	Green Heron	OB		1					
B	Goldfinch	VO		11					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 32
	SURVEYOR(S): Tk	DATE: Sept 5/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604960	UTMN: 4851780 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL. UPLAND	COVER	G BRYOPHYTE	G FEN
G OPEN WATER		G CLIFF		G DECIDUOUS	G BOG
G SHALLOW WATER		G TALUS		G CONIFEROUS	G BARREN
G SURFICIAL DEP.		G CREVICE / CAVE	G OPEN	G MIXED	G MEADOW
G BEDROCK		G ALVAR	G SHRUB		G PRAIRIE
		G ROCKLAND	G TREED		G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Sym lanc > Sol alti > Vic crac

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 10cm	G= 30cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 35		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Forb Mineral Meadow Marsh	MAM2-10
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 32
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 32 DATE: Sept 5/2012 SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0604960	4851780 ±4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 15cm B 15-35cm 35cm impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	10 cm				
GLEY	30 cm				
BEDROCK	35cm				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 V. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: POLYGON: DATE: SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym lanc				R	
Ajr giga				O	
Phl prat				O	
Eut grami				O	
Vic crac				A	
Bro inin				O	
Sol alti				A	
Sym nova				O	
Phn arun				O	
Rha cath				R	
Mpn arve				R	
Bid vulg				R	
Rum crib				R	
Cly rape				R	
Rha cath			R		
Cra Mono		R			
Imp cape				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 32
DATE: Sept 5/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=7

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	AMTO	VO		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 33
	SURVEYOR(S): JK	DATE: Sept 5/2012	TIME: start / finish
	UTMZ:	UTME: 0604752	UTMN: 4850619

±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN G ACIDIC BEDRK G BASIC BEDRK G CARB BEDRK	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE			**COVER**		
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP G BEDROCK			G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	2	Sal X rube
2	SUB-CANOPY			
3	UNDERSTOREY	3	4	Rha cath >> Cra punc = Cra mono
4	GRD. LAYER	5-6	2	Rha cath > Sol alti = Geu alep

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 62.5 – Cra mono 20 – Sal X rube 8 – Cra punc 4 – Acc negu 4 BA: 16

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 32	G= 72
MOISTURE: 5 Moist	DEPTH OF ORGANICS: 0 (cm)		
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120 (cm)		

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUT1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

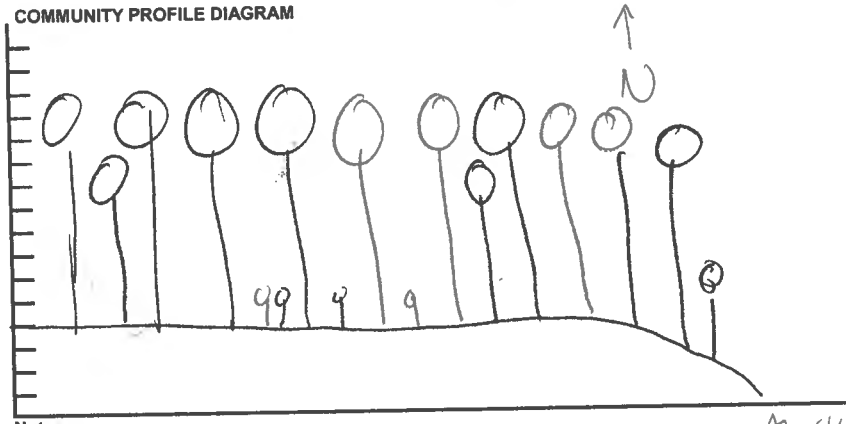
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Cra mono	1					5	20%
Rha cath	1	☒				15	25%
Cra punc						1	4%
Sal X rube						2	8%
Acc negu						1	4%
TOTAL	6	11	7			24	100
BASAL AREA (BA)	12	22	14			48	16
DEAD							

STAND COMPOSITION:

Rha cath 62.5 – Cra mono 20 – Sal X rube 8 – Cra punc 4 – Acc negu 4

COMMUNITY PROFILE DIAGRAM



Notes:

Mostly dry scale

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 35 DATE: Sept 5/ 2012 SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			7					17	0604752	4851609	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 10cm B 10-70cm C 70-120cm+				
A TEXTURE	SiCL (organics enriched)				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	32cm				
GLEY	72cm				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	—				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	—				
PORE SIZE DISC #2	—				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: POLYGON: DATE: SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Sal X rubr	A				
Lil mich				R	
Eri anau				R	
Rha cath			D	A	
Sol dulc				A	
Nim ring				R	✓
Ag. stol				O	
Vio sore				O	
Geu alep				A	
All peti				O	
Lon tata			O		
Vib opul			O	O	
Pru vulg			R	R	
Cir vulg				R	
Gal trifloram				R	
Sym lanc				O	
Oxa stri				R	
Dac glom				R	
Ver hast				R	
Pha arun				O	
Dau caro				R	
Car retr				R	
Ran acri				R	
Rub stri			R		
Inv hele			R		
Pru virg			R		
Rub occi			O		
Bid vulg				R	
Epi hele				R	
Evo obov			R		
Cra mono			A		

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Fra virg				O	
Equi arve				O	
Cra pune			O		
Par inse				R	
Ros mult			R		
Ace negu		R			
Tara offi				O	
Sol alti				A	
Vit rapa				R	
Cra nacr			R		✓ berries
Asc syri				R	
Sym nova				R	
Dry cart				R	
Cyn ross				R	

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 13
DATE: Sept 5/2012
SURVEYOR(S): TR

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=11

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Downy Woodp	OB		1					
M	Deer	SI	Browse						

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 34
	SURVEYOR(S): Tk	DATE: Sept 5/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604810	UTMN: 4851221 ±7m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	1	Sal x rube
2	SUB-CANOPY			
3	UNDERSTOREY	3	1	Sal x rube
4	GRD. LAYER	4-6	4	Sym lanc > Phn arun = Sol alti = Bro inin

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: N/A BA: N/A

SIZE CLASS ANALYSIS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SC	DEPTH TO MOTTLES / GLEY	g = 5 cm	G= Ø
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 45 cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Wetland sp. nearer the creek, upland sp. higher on banks

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES: N/A

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 34 DATE: Sept 5/2012 SURVEYOR(S): JK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0604810	4851221 ±7
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 35cm B 35-45cm 45 bedrock				
A TEXTURE	SC				
COURSE FRAGMENTS	Ø				
B TEXTURE	Sc				
COURSE FRAGMENTS	Pebbles				
C TEXTURE	Ø				
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	Sc				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	5cm				
GLEY	Ø				
BEDROCK	45				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 V. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: POLYGON: DATE: SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE D = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym lanc				D	
Lyt sali				A	
Pha arun				A	
Asc syria				O	
Bro inin				A	
Sol alti				A	
Imp cape				O	
Inv hele				O	
Rha cath				R	
Dav cano				O	
Rhu cris				O	
Sym nova				O	
Vic crac				O	
Ech loba				R	
Son oler				R	
Leer orgz				A	
Per lapa				R	
Epa emer				R	
Men x pip				O	
Sci atro				O	
Lud palu				O	✓
Dac glom				O	
Ulm amer			R	R	
Cra sp			R		
Den bien				R	
Cir arve				O	
Vit ripa				R	
Cla mono			R		
Sal x rubc	O		O		
Typ lati				O	
Epi parv				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Tus farfar				R	
Ali riva				R	
Lith effi				R	
Vib opul			R		
Son arve				R	
Agr stol				O	
Acc negu			R		
Car vulp				R	
Pen sedo				R	
Mim ring				R	✓
Jun dudl				O	
Agr giga				A	
Ver hast				O	
Car retr				R	
Eut gram				R	
Lyco amer				R	
Cer seri			R		
Pot nodo				R	

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 34
DATE: Sept 5/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=16

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	AMTO	VO		11					
H	SNJU	OB	Juvenile	1					
H	GRFR	OB		11					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 35
	SURVEYOR(S): TK	DATE: Sept 5/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604791	UTMN: 4851088 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	3	Sal inte
4	GRD. LAYER	4-6	3	Pen sedo > Sch tabe = Sag lati

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: N/a							BA: N/a
SIZE CLASS ANALYSIS:	A	< 10	N	10 - 24	N	25 - 50	N > 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N > 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N > 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

*Mottles at 0cm

TEXTURE: Sc	DEPTH TO MOTTLES / GLEY	g = 0 cm	G= 15cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >50cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SW
COMMUNITY SERIES:	Thicket Swamp	SWT
ECOSITE:	Mineral Thicket Swamp	SWT2
VEGETATION TYPE:	Willow Mineral Thicket Swamp	SWT2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

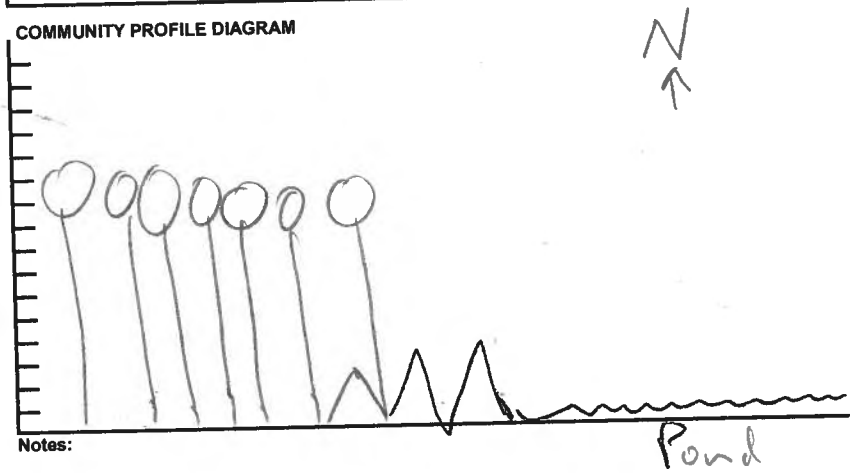
TREE TALLY BY SPECIES:

PRISM FACTOR N/a (willows too thin and sparse)

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 35
DATE: Sept 5/2017
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	UTM Z	EASTING	NORTHING
1	A			6					17	0604741	4851088 ± 4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 25cm B 35-50 50cm Clay impenetrable				
A TEXTURE	SC				
COURSE FRAGMENTS	Q				
B TEXTURE	C				
COURSE FRAGMENTS	Q				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SC				
SURFACE STONINESS	Q				
SURFACE ROCKINESS	Q				
DEPTH TO / OF					
MOTTLES	0cm				
GLEY	15cm				
BEDROCK	>50cm				
WATER TABLE	>50cm				
CARBONATES	/				
DEPTH OF ORGANICS	Q				
PORE SIZE DISC #1	/				
PORE SIZE DISC #2	/				
MOISTURE REGIME	6 Very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Pon sedo				A	
Sch tabe				A	
Sag latifl				A	
Bid vulg				O	
Lud palu				O	
Alt rhom				O	
Bid cern				R	
Sul tate			D		
Ele obtu				O	✓
Lee oryz				O	
Ver hast				R	
Per lupu				R	
Pan capi				O	
Ace negu	R				
Pha arun				O	
Sol dulc				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC
MANAGEMENT / DISTURBANCE

SITE: Area H7
POLYGON: 35
DATE: Sept 5/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=1

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	GRFR	OB		"					
B	Heron (sp?)	TR		"					
M	Raccoon	TR							
M	Deer	TR							
O	Crayfish	OB		"					
B	Green Heron	OB		"					

Probably Green Heron tracks

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 36	
	SURVEYOR(S): TK	DATE: Sept 7/2014	TIME: start / finish	
	UTMZ: 17	UTME: 0604310	UTMN: 4855066	±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE: G OPEN WATER; G SHALLOW WATER; G SURFICIAL DEP.; G BEDROCK

COVER: G OPEN; G SHRUB; G TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Solalti = Poa com

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	O	10 - 24	W	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	O	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Sic	DEPTH TO MOTTLES / GLEY	g = 35cm	G= Ø
MOISTURE: S moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >40cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

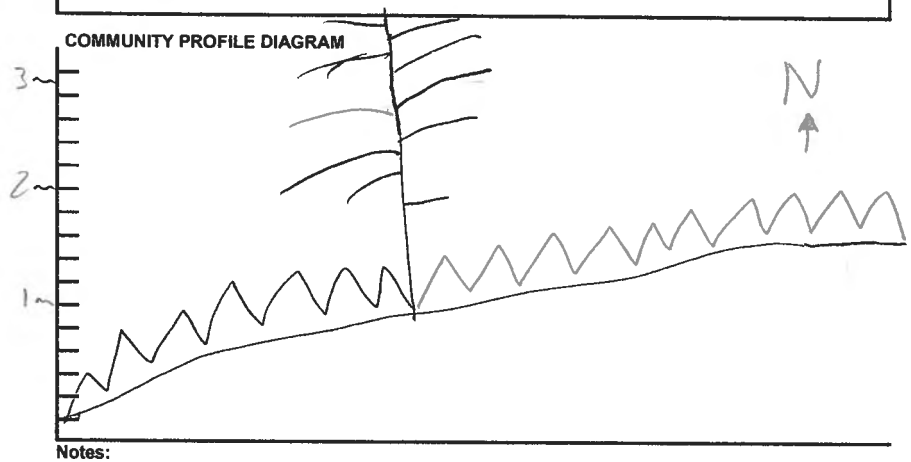
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 36
DATE: Sept 7/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			3-4					17	0604310	4855066 ±3m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 10cm B 10-30cm C 30-40cm impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE	SiC				
COURSE FRAGMENTS	pebbles				
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Some				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	35cm				
GLEY	Ø				
BEDROCK	>40				
WATER TABLE	>40				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Gal apar				O	
Sol alti				D	
Grev alep				R	
Son arvu				R	
Vir crac				O	
Sym nova				O	
Phr arun				O	
Poa comp				D	
Bro inin				A	
Cen marv				R	
Lin vulg				R	
All peti				A	
Cir arve				A	
Aes hipp	R				
Rha cath			O		
Arv mini				R	
Mor alba			R		
Ver thap				R	
Nep cata				R	
Leo card				R	
Thu occi	R				
Pru virg			R		
Ace sacc (d)	R				

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 36
DATE: Sept 7/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=10

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS Ace Saccharum, Th. occi
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	AMTO	VO		1					
B	Starlings	OB	in snag	☒					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 37
	SURVEYOR(S): JK	DATE: Sept 7/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604283	UTMN: 4855050 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Phu arun >> Ech crus = Typ angu

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 0cm	G= 10cm
MOISTURE: 6 very Moist	DEPTH OF ORGANICS: 5cm		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >80cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Reed-Canary Grass Mineral Meadow Marsh	MAM2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

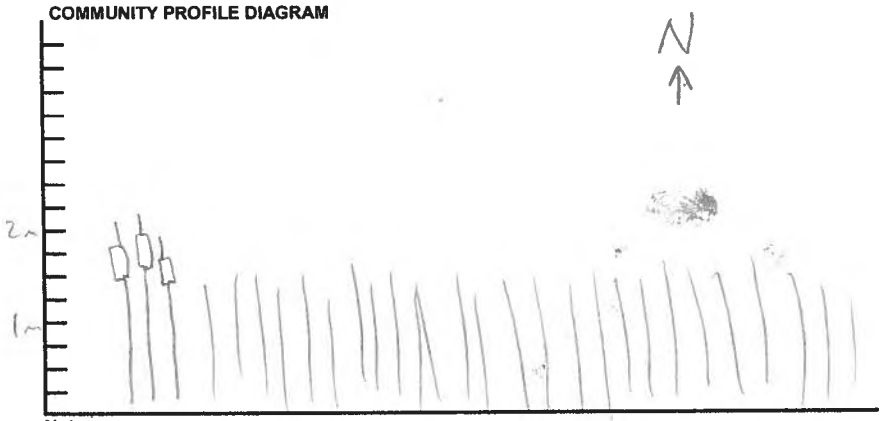
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 37
DATE: Sept 7/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position (Slope)	Aspect	%	Type	Class	Z (UTM)	EASTING	NORTHING	
1	A			G					17	0604283	4855050	±4
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 5cm B 5-65 cm C 65cm-80 80 Clay impenetrable				
A TEXTURE	Organic				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE	C				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	0cm				
GLEY	10 cm				
BEDROCK	Ø				
WATER TABLE	>80cm				
CARBONATES	/				
DEPTH OF ORGANICS	5cm				
PORE SIZE DISC #1	/				
PORE SIZE DISC #2	/				
MOISTURE REGIME	6 very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Phe arun				D	
Lyt salt				O	
Typ angu				O	
Cir vulg				R	
Ech crus				O	
Amb artc				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 37
DATE: Sept 7/2012
SURVEYOR(S): Tk

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=18

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 58	
	SURVEYOR(S): Tk	DATE: Sept 7/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0604316	UTMN: 4854993	± 4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIOIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER			All rlua > Ech cruz > Bid cern

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g =	G= 0cm
MOISTURE: Very Moist	DEPTH OF ORGANICS: 25cm		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >60cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

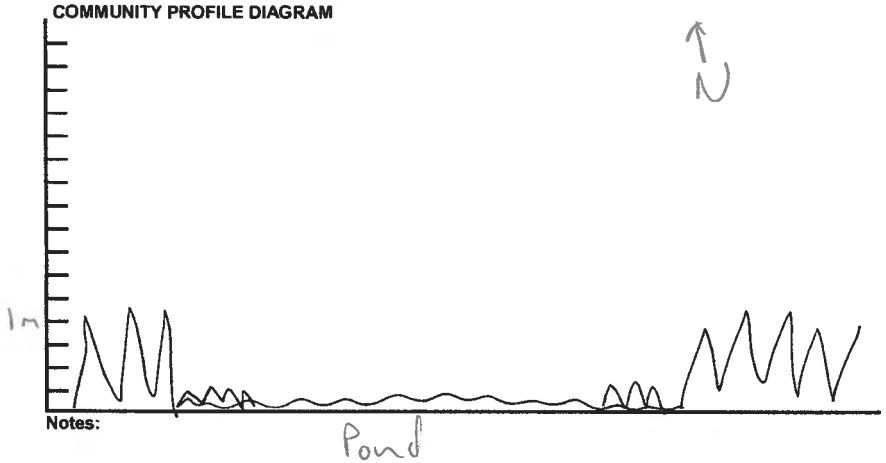
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 38 DATE: Sept 7/2017 SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			6					17	0604316	4854993	±4m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 25cm B 25-60cm 60cm clay impenetrable				
A TEXTURE	Organic (humic)				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE					
SURFACE STONINESS					
SURFACE ROCKINESS					
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	0cm				
BEDROCK	>60				
WATER TABLE	at surface				
CARBONATES	\				
DEPTH OF ORGANICS	25cm				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: POLYGON: DATE: SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Bid cern				A	
Typ lati				O	
Ali rio				D	
Eth cruz				A	
Pha arun				O	
Lem mino				O	
Sch tabe				R	
Vic crac				R	
Pan capi				A	
Per lapa				R	
Epi parv				O	
Ama retr				R	
Che glau				O	
Abu the				R	
Son arve				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 38
DATE: Sept 7/2014
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 18

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Sandpiper	OB	in pond	6					
B	Duck	OB	in pond	1					
H	Leopard Frog	OB		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 39
	SURVEYOR(S): Tk	DATE: Sept 7/2011	TIME: start / finish
	UTMZ: 17	UTME: 0604463	UTMN: 4854519 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Typ lati = Typ angu > Ech crus

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 0cm G= 0cm
MOISTURE: G very Moist	DEPTH OF ORGANICS: 10 (cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120 (cm)	

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

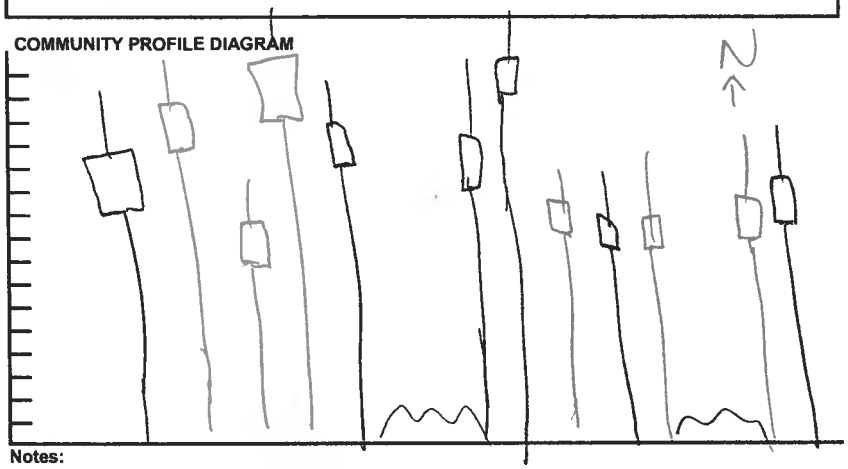
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 39
DATE: Sept 7/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604463	4854519 ± 4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 10cm B 10-55 C 55-170cm+				
A TEXTURE	Organics (humic)				
COURSE FRAGMENTS	Ø				
B TEXTURE	Clay				
COURSE FRAGMENTS	Ø				
C TEXTURE	CL				
COURSE FRAGMENTS	Pebbles				
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	0cm				
GLEY	0cm				
BEDROCK	>120cm				
WATER TABLE	10cm				
CARBONATES	\				
DEPTH OF ORGANICS	10cm				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Typ angu				D	
Typ lati				D	
Ech crus				A	
Ali riva				O	
Agr stol				R	
Lem mino				R	
Lee oryz				O	
Pan virg				R	
Rum cris				R	
Atr patu				R	✓
Bid cern				R	
Amb artc				R	
Ran scel				O	
Bid fron				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 40
DATE: Sept 7/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 15

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Leopard Frog	OB							

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT
SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY
A = ANXIETY BEHAVIOUR
D = DISPLAY
N = NEST BUILDING
P = PAIR
V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION
NE = EGGS
AE = NEST ENTRY
NU = USED NEST
NY = YOUNG
FY = FLEDGED YOUNG
FS = FOOD/FAECAL SACK

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED
DP = DISTINCTIVE PARTS
TK = TRACKS
SI = OTHER SIGNS (specify)
VO = VOCALIZATION
HO = HOUSE/DEN
FE = FEEDING EVIDENCE
CA = CARCASS
FY = EGGS OR YOUNG
SC = SCAT

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 40
	SURVEYOR(S): TK	DATE: Sept 7/2012	TIME: start / finish
	UTMZ: 17	UTME: 0603743	UTMN: 4853951 ±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sol alti = Syn nova > Cir arve

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 30	G= Ø
MOISTURE: Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >50		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

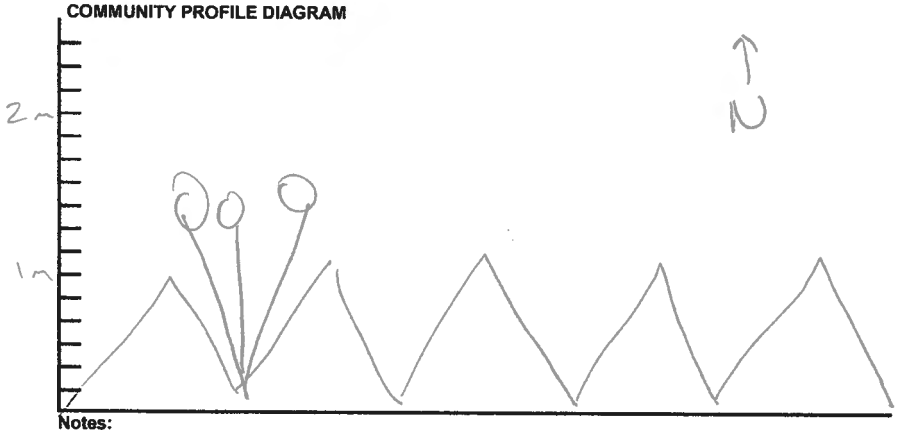
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 40 DATE: Sept 7/2012 SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0603743	4853951 ±3m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 25cm B 25-50cm 50 Clay impenetrable				
A TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	30cm				
GLEY	Ø				
BEDROCK	>50				
WATER TABLE	>50				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: POLYGON: DATE: SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Sym lanc				O	
Sym nova				A	
Vic crac				A	
Fra vlg				O	
Rha cath			O		
Cir arve				A	
Sym eric				O	
Poa cump				A	
Sol alti				A	
Gal albu				O	
Phl prat				O	
Lot corn				O	
Poa prat				O	
Gev idep				O	
Lin vulg				R	
Cut gram				R	
Ald mill				R	
Pha arun				O	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 40
DATE: Sept 7/2017
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

old cars, cinder blocks

=17

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Goldfinch	OB		1					
H	AMTO	VO		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 41
	SURVEYOR(S): TK	DATE: Sept 7/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604241	UTMN: 4852616 ±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
SITE		G ROLL UPLAND	**COVER**	G BRYOPHYTE	G FEN
G OPEN WATER		G CLIFF	G OPEN	G DECIDUOUS	G BOG
G SHALLOW WATER		G TALUS	G SHRUB	G CONIFEROUS	G BARREN
G SURFICIAL DEP.		G CREVICE / CAVE	G TREED	G MIXED	G MEADOW
G BEDROCK		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2-3	1	Sal x Cule > Jug nigr = Fra Penn
2	SUB-CANOPY			
3	UNDERSTOREY	3	4	Rha cath
4	GRD. LAYER	5-6	1	Rha cath

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 100	BA: 6

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 42	G= ∅
MOISTURE: S Moist	DEPTH OF ORGANICS:	0	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	>120	(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUT1
VEGETATION TYPE:		
✓ INCLUSION	Cultural Mineral Shallow Marsh	MAS2-1
COMcomplex		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON: 41
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

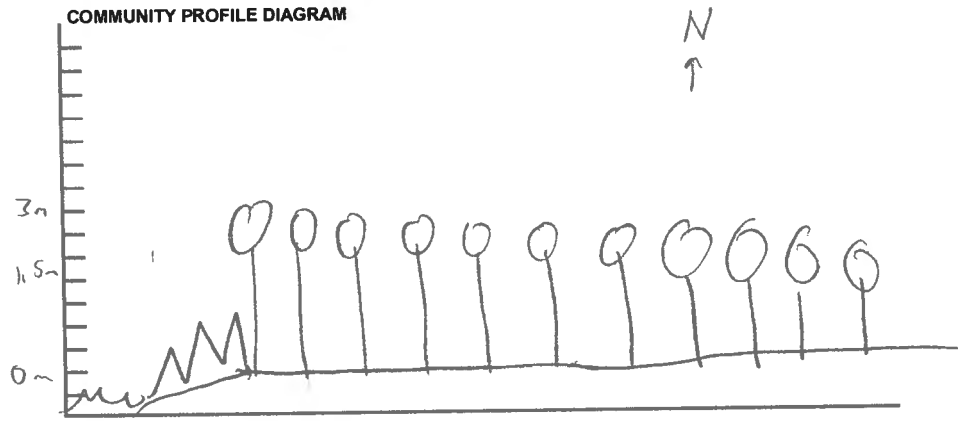
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Rha cath						9	100%
TOTAL	1	5	3			9	100
BASAL AREA (BA)	2	10	6			18	6
DEAD							

STAND COMPOSITION:

Rha cath 100

COMMUNITY PROFILE DIAGRAM



Notes:
Stream

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 41
DATE: Sept 7/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			7					17	0604241	4852616	±3m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 15cm; 15-75cm; 75cm clay impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	42cm				
GLEY	Ø				
BEDROCK	>75				
WATER TABLE	>75				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Jug nigr	R		R		
Sal x rubc	R				
Hel tube				O	
Imp cape				R	
All rive				R	
Lyl sali				R	
Vib opul				O	
Bro inin				O	
Agr stol				O	
Lyc numm				R	
Hel alba				R	
Fra penn	R		R	R	
Sym lanc				O	
Per lamp				R	
Rha cath			D	D	
Lee oryz				R	
Dac glom				O	
Ran acri				R	
Poa comp				O	
Sol alti				O	
Pol cusp				R	
Bid cern				R	
Bid fron				R	
Arc neav			R		
Asc syri				O	
Ver hast				R	
Typ lati				R	
Dnu caro				R	
Jun dudl				R	
Equi arve				R	
Pru virg			R		

SPECIES CODE	LAYER 1	2	3	4	COL.
Mal pumi		R			
Typha angu	D				cattle inc.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 41
DATE: Sept 7/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	6
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

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ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Beaver	OI	Downed tre						

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 42
	SURVEYOR(S): lk	DATE: Sept 7/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604150	UTMN: 4852770 ±5.

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	3	Sal X rubra
2	SUB-CANOPY			
3	UNDERSTOREY	3	3	Rha cath >> Syr vulg > Lon tata
4	GRD. LAYER	4-6	1	Sym lanc = Sol alt = Geu dep

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 38 – Syr vulg 28 – Sal X rubra 7 – Ace neg 7 BA: 9

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	R	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SC	DEPTH TO MOTTLES / GLEY	g = 35	G= 60
MOISTURE: 5 Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 70		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Woodland	CUW
ECOSITE:	Mineral Cultural Woodland	CUW1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Stream through community

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

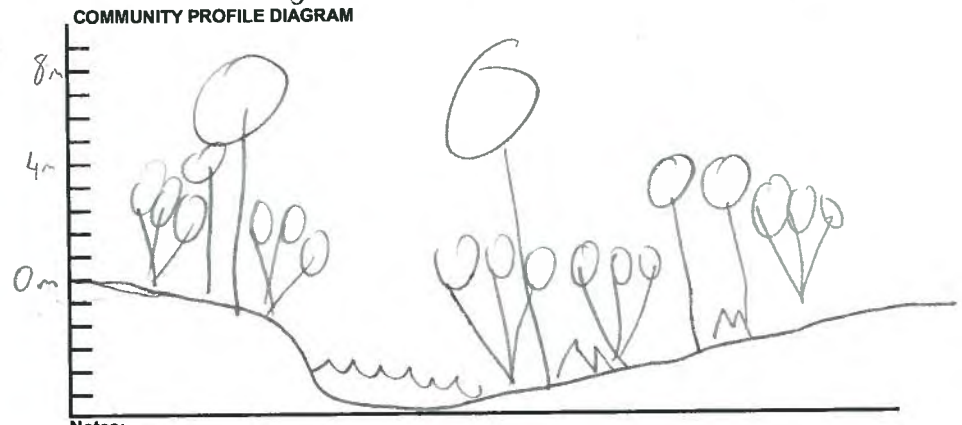
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Sal X rubra	1					1	7%
Til americ	1					1	7%
Ace negu	1					1	7%
Pop tremb	1					1	7%
Syr vulg		4				4	28%
Ace sach			1			1	7%
Rha cath			5			5	38%
TOTAL	4	4	6			14	100
BASAL AREA (BA)	8	8	12			28	9
DEAD							

Sugar →

STAND COMPOSITION: Rha cath 38 – Syr vulg 28 – Sal X rubra 7 – Ace negu 7

COMMUNITY PROFILE DIAGRAM



Notes: Stream

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 42
DATE: Sept 7/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			3-7					17	0604150	4852770
2											
3											
4											
5											

±5m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 35cm; B 35-60; C 60-70; 70 bedrock				
A TEXTURE	CL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SC				
COURSE FRAGMENTS	Pebbles				
C TEXTURE	SiC				
COURSE FRAGMENTS	Pebbles				
EFFECTIVE TEXTURE	SC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	35cm				
GLEY	60cm				
BEDROCK	70cm				
WATER TABLE	65cm				
CARBONATES	\				
DEPTH OF ORGANICS	0				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Jug nigr			O		
Ulm amer			R		
Hemer fulv				O	
Rha cath			A	O	
Run cris				R	
Sym lani				O	
Lyt sali				O	
Lys numm				O	
Sol alti				O	
Geu alep				O	
Car retr				O	
Fra penn			O		
Vit ripa				R	
All peti				O	
Pru virg			O		
Leo card				R	
Par inse				R	
Typ lati				R	
Typ angu				R	
Arc mini				R	
Til amer	R				
Syr vulg			O		
Hel tube				O	
Dip full				R	
Dau caro				R	
Bro inta				R	
Dac glom				R	
Vin mino				R	
Sol dulc				O	
Sal X rube	O				
Ace X free	R				

SPECIES CODE	LAYER 1	2	3	4	COL.
Mor alba	R				
Ligu vulg			R		
Ech loba				R	
Pic abies	R				
Lon tata			O		
Tuss farf				O	
Lit offi				R	
Ace negu		R			

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 47
DATE: Sept 7/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	1
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 21

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS Pin (ES)
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Robin	OB		1					
M	Squirrel	OB		11					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47	POLYGON: 43
	SURVEYOR(S): TK	DATE: Sept 10/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605157	UTMN: 4850075

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			**COVER** G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Phn grass >> Sym lanc

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: N/A	BA: N/A

SIZE CLASS ANALYSIS:	R	< 10	W	10 - 24	W	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SC	DEPTH TO MOTTLES / GLEY	g = 5	G= Ø
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Ø (cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >80 (cm)	

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Reed Canary Grass Mineral Meadow Marsh	MAM2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

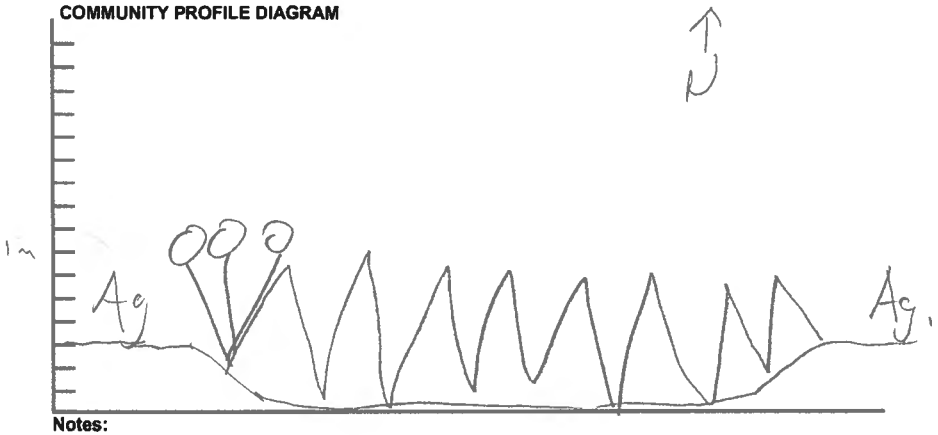
TREE TALLY BY SPECIES: N/A

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 43
DATE: Sept 10/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0605157	4850075 ±5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 15cm B 15-65 C 65-80 80 clay impenetrable				
A TEXTURE	Sic				
COURSE FRAGMENTS	Ø				
B TEXTURE	Sic				
COURSE FRAGMENTS	Ø				
C TEXTURE	C				
COURSE FRAGMENTS	Pebbles				
EFFECTIVE TEXTURE	Sic				
SURFACE STONINESS	Some				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	5cm				
GLEY	Ø				
BEDROCK	>80				
WATER TABLE	>80				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Pha arun				D	
Imp cupe				A	
Sym lanc				A	
Sol dulc				O	
Bid vulg				O	
Sol alti				A	
Ech lobb				O	
Bro inin				A	
Typ lati				O	
Vic crac				A	
Cir vulg				O	
Asc syri				O	
Cra mono			O		
Dau caro				O	
Lee oryz				D	
Agr giga				O	
Cir arve				O	
Sen arve				O	
Sch arun				R	
Sal erio			R		
Pas sati				R	
Sob oler				R	
Ani retr				R	
Sag lati				R	
Al. riva				R	
Vit rupa				R	
Sym nova				R	
Cpi paru				R	
Spa emer				R	
All peti				R	
Jug nigr			R		

Sym Bid trop

SPECIES CODE	LAYER 1	2	3	4	COL.
Pan capi				R	
Bid como				R	
Sal viri				R	
Amb arte				R	
Oen bien				R	
Sci atro				R	

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 47
DATE: Sept 10/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=15

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Chick-a-dee	VO		"					
B	Phoebe	VO/OB		"					
B	Goldfinch	VO		"					
B	Red-tailed Hawk	OB/VO		"					
L	Monarch	OB		"					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 44
	SURVEYOR(S): TK	DATE: Sept 10/2011	TIME: start / finish
	UTMZ: 17	UTME: 0605004	UTMN: 4850370 ± 5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	4	Pop alba >> Fra penn
2	SUB-CANOPY			
3	UNDERSTOREY	3	3	Rha cath > Cra mono
4	GRD. LAYER	6	1	All peti

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 61 – Ace negu 28.5 – Pop alba 7 – Cra punc 3.5 BA: 19

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	R	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	R	10 - 24	R	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 25cm	G= 60cm
MOISTURE: 8 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >70		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Plantation	CUP
ECOSITE:	Deciduous Cultural Plantation	CUP1
VEGETATION TYPE:		
✓ INCLUSION	Dry-Moist Old Field Meadow	CUM1-1
COMPLEX		

Notes: Huge Swale on Western part of community

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

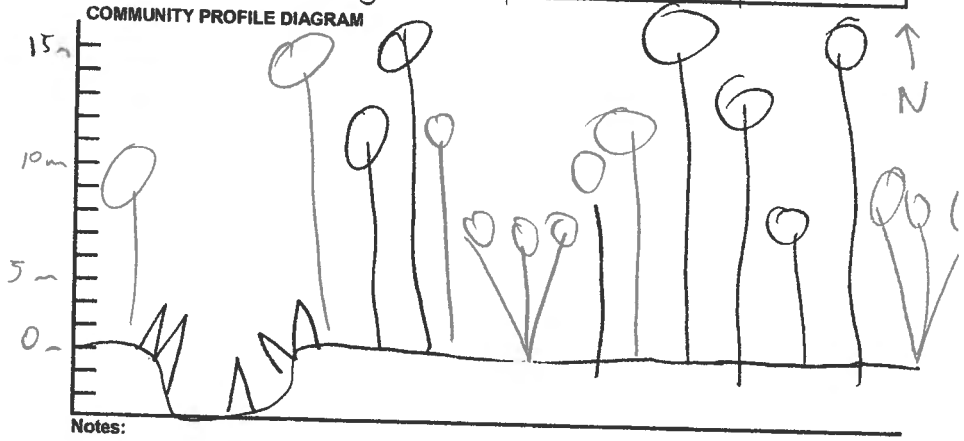
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Ace negu	⊠					8	28.5
Cra punc	'					1	3.5
Rha cath		⁚	⊠ ⁚			17	61
Pop alba		⁚				2	7
TOTAL	9	5	14			28	100
BASAL AREA (BA)	18	10	28			56	19
DEAD		⁚	⁚				

STAND COMPOSITION:

Rha cath 61 – Ace negu 28.5 – Pop alba 7 – Cra punc 3.5

COMMUNITY PROFILE DIAGRAM



Notes: Mostly dry Swale

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 44
DATE: Sept 10/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6-7					17	0605004	4850370
2											
3											
4											
5											

±5m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 30cm B 30-55 C 55-70 70 clay impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS					
B TEXTURE	SiC				
COURSE FRAGMENTS					
C TEXTURE	SiC				
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Few				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	25				
GLEY	60				
BEDROCK	>70				
WATER TABLE	>70				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Que macro			R		
Cra mono		A			
Pop alba	D			O	
Rub alle			R		
All peti				A	
Rha cath		D	D	D	
Par inse				O	
Vit ripa				O	
Fra penn	O			O	
Rub occi			R		
Bro inla				R	
Sol alti				O	
Lit offi				R	
Eri anau				R	
Equi arve				R	
Til amer	R				
Cra sp (dead)			O		
Rib rubr			O		
Cir cana				O	
Pru virg			O		
Ace negu	O	O	R		
Rub strig			O		
Cra macr		R	R		
Vib opul			R		
Geu alep				O	
Vio soro				R	
Sol dulc				O	
Son arve				R	
Cri phil				R	
Agr stol				R	
Imp cape				R	

Bid trip

SPECIES CODE	LAYER 1	2	3	4	COL.
Pha arun				R	
Per lupa				R	
Ech loba				R	
Sym lanc				R	
Ali riva				R	
Que rubr		R	R		
Lon tata			R		
Min ring				R	
Lud palu				R	
Pen sedo				R	
Lee oryz				R	
Bid vulg				R	
Ech cru				R	
Epi parv				R	
Bid como				R	
Sym lata				R	
Fra virg				R	
Ulm amer			R		
Cary ovat			R		
Car cris				R	
Bro inla				O	
Pru vulg				R	
Poa comp				O	
Dac glom				O	
Sym puni				O	
Sym nova				O	
Ech loba				R	
Pha arun				A	
Inu hele				R	
Sol alti				D	
Sym lanc				D	

Old field ...

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 44
DATE: Sept 10/2012
SURVEYOR(S): JK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	1
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 24

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Flicker	VO							
M	Beaver	SI	chew marks						

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 45
	SURVEYOR(S): TK	DATE: Sept 10/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604929	UTMN: 4850593 ± 6m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	4	Ace negu >> Fra penn
2	SUB-CANOPY	3	2	Rha cath = Ace negu
3	UNDERSTOREY	4	3	Rha cath
4	GRD. LAYER	5-6	4	All peti > Sol alti > Geu alep

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Ace negu 84.5 – Cra mono 11.5 – Rha cath 4 BA: 19

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	R	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	R	10 - 24	R	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SL	DEPTH TO MOTTLES / GLEY	g = 0	G= 0
MOISTURE: 2 Fresh	DEPTH OF ORGANICS: 0 (cm)		
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 50 (cm)		

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Forest	FO
COMMUNITY SERIES:	Deciduous Forest	FOD
ECOSITE:	Fresh-Moist Lowland Deciduous Forest	FOD7
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Swale through community – Mostly dry

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES:

PRISM FACTOR 2

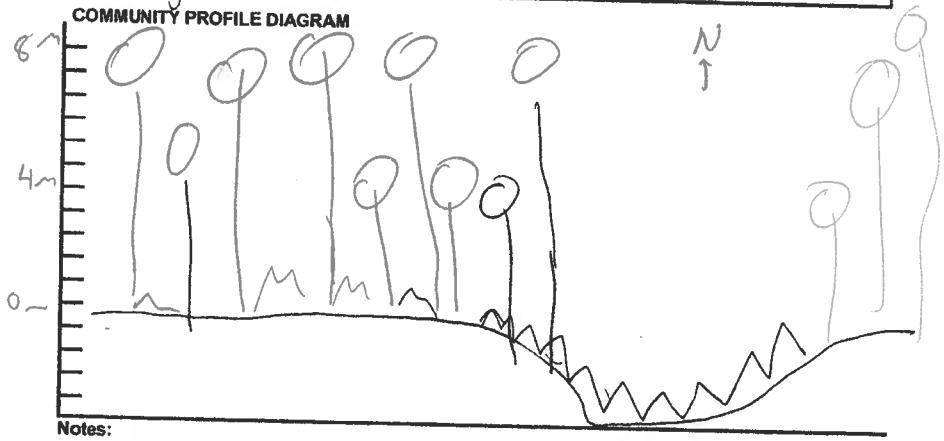
SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Ace negu	11	⊠	Π			22	84.5
Rha cath	1					1	4%
Cra mono			11			3	11.5
TOTAL	6	10	10			26	100
BASAL AREA (BA)	12	20	20			56	11%
DEAD			11			3	

↑ Cra 4.

STAND COMPOSITION:

Ace negu 84.5 – Cra mono 11.5 – Rha cath 4

COMMUNITY PROFILE DIAGRAM



Notes:

Mostly dry swale

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 45
DATE: Sept 10/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	Z	UTM EASTING	UTM NORTHING	
1	A			6-7					17	0604929	4850593	±6m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 20cm B 20-50 50 Bedrock				
A TEXTURE	SL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	Ø				
BEDROCK	50				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	2 Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
All peti				D	
Fra penn	O	O	O		
Sol dulc				O	
Ace negu	D	D	R		
Geu alep				A	
Sym late				O	
Cra macr		R			
Rha cath			A	D	
Vio sorg				A	
Sol alti				A	
Arc mimi				R	
Rub occi				R	
Lia moro			R		
Rub stri			R		
Ros mult			R		
Ver urti				R	
Epi cili				R	
Pha arun				R	
Acr stol				R	
Vit ripa				R	
Ran acri				R	
Cir cana				O	
Pru vulg				R	
Imp cape				R	
Lyc amer				R	
Oxa stri				R	
Lud palu				R	
Ali riva				R	
Mim ring				R	
Sym novae				R	
Rum cris				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Dac glom				O	
Pot rect				R	
Leo card				R	
Cari annu				R	

ELC

MANAGEMENT / DISTURBANCE

SITE: A-ca 47
POLYGON: 45
DATE: Sept 10/2014
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Cerhmic tiles

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Blue Jay	VO		1					
B	Downy Wood	VO		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 46
	SURVEYOR(S): Tk	DATE: Sept 10/2002	TIME: start / finish
	UTMZ:	UTME:	UTMN:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE			**COVER**		
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sym lanc >> Agr gigc

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 27cm	G= 50cm
MOISTURE: G Very Moist	DEPTH OF ORGANICS:	∅	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	>75 cm	(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Forb Mineral Meadow Marsh	MAM2-P
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES:

PRISM FACTOR [ ] n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 46
DATE: Sept 10/2017
SURVEYOR(S): TL

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	UTM Z	EASTING	NORTHING
1	A			6					17	0604979	4850574
2											
3											
4											
5											

SOIL TEXTURE x HORIZON	1	2	3	4	5
	A 45cm B 75cm 75 clay impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	27cm				
GLEY	50cm				
BEDROCK	>75				
WATER TABLE	>75				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym lanc				D	
Vic crac				R	
Cra monog			R		
Cor vulg				R	
Bid vulg				R	
Sol dulc				R	
Ag stga				A	
Eut gram				O	
Sym nova				R	
Cir vulg				R	
Bro inim				R	
Sol alti				O	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 46
DATE: Sept 10/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Amto	VO		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 47
	SURVEYOR(S): TK	DATE: Sept 10/2012	TIME: start / finish
	UTMZ:	UTME:	UTMN:

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL	G ORGANIC	G LACUSTRINE	G NATURAL	G PLANKTON	G LAKE
G WETLAND	G MINERAL SOIL	G RIVERINE	G CULTURAL	G SUBMERGED	G POND
G AQUATIC	G PARENT MIN.	G BOTTOMLAND		G FLOATING-LVD.	G RIVER
	G ACIDIC BEDRK.	G TERRACE		G GRAMINOID	G STREAM
	G BASIC BEDRK.	G VALLEY SLOPE		G FORB	G MARSH
	G CARB. BEDRK.	G TABLELAND		G LICHEN	G SWAMP
		G ROLL. UPLAND		G BRYOPHYTE	G FEN
		G CLIFF		G DECIDUOUS	G BOG
		G TALUS		G CONIFEROUS	G BARREN
		G CREVICE / CAVE		G MIXED	G MEADOW
		G ALVAR			G PRAIRIE
		G ROCKLAND			G THICKET
		G BEACH / BAR			G SAVANNAH
		G SAND DUNE			G WOODLAND
		G BLUFF			G FOREST
					G PLANTATION

SITE	COVER
G OPEN WATER	G OPEN
G SHALLOW WATER	G SHRUB
G SURFICIAL DEP.	G TREED
G BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	2	Rha cath = Cra mono > Cra mac
4	GRD. LAYER	4-6	4	Bro inin = Sol alti > Sym lanc > Sym hou

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Sil	DEPTH TO MOTTLES / GLEY	g = 70	G= Ø
MOISTURE: 3 Very Fresh	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >90		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-
INCLUSION		
✓ COMPLEX	Forb Mineral Meadow Marsh	MAM2-10

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES:

PRISM FACTOR [ ] n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC

SOILS ONTARIO

SITE: Arch 47
POLYGON: 47
DATE: Sept 10/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604803	4850878 ±4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 30cm; 55cm – 75cm; 75-90; 90 clay impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	70cm				
GLEY	>90cm				
BEDROCK	>90cm				
WATER TABLE	>90cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	3 Very Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Ace negu		R			
Cra macr			O		
Cra mono			O		
Rha cath			O		
Cra pune			O		
Sym nova				O	
Bro inib				D	
Agr gigas				A	
Sol alt				D	
Sym lavi				A	
Dav pano				O	
Cir arve				O	
Poa comp				O	
Asc syri				O	
Oon bien				R	
Pha arun				O	
Ver hast				R	
Tues fart				R	
Lot corn				R	
Sym eric				R	
Jun effu				R	
Sci atro				R	
Sch prat				R	
Ver thap				R	
Sal prio			R		
Ech loba				R	
Men X pipe				R	
Sal X rube	R				
Rub occi			R		
Inu hele				R	
Sal inte			R		

SPECIES CODE	LAYER 1	2	3	4	COL.
Vic crac				O	
Vib opul			R		
Typ lati				R	

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ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 47
DATE: Sept 10/2017
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

old culvert bricks

=11

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	GBHE	OB		6					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 48
	SURVEYOR(S): TK	DATE: Sept 10/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604833	UTMN: 4851067

±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE			**COVER**		
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	4	Rha cath >> Cra mon o
4	GRD. LAYER	6	1	Geo alep

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 100 BA: 18

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 35	G= 35
MOISTURE: 5 moist	DEPTH OF ORGANICS: 0 (cm)		
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >40 (cm)		

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	Cu
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUT1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Rha cath	☐	☒	☒			27	100%
TOTAL	8	9	10			17	100
BASAL AREA (BA)	16	18	20			54	18
DEAD							

STAND COMPOSITION:

Rha cath 100

COMMUNITY PROFILE DIAGRAM

Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 48
DATE: Sept 10/2012
SURVEYOR(S): JK

	P/A	PP	Dr	Slope Position	Aspect	%	Type	Class	UTM Z	EASTING	NORTHING
1	A			7					17	0604835	4851067 ±4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 30cm; B 30-40 40 clay impenetrable				
A TEXTURE	S/C				
COURSE FRAGMENTS	Q				
B TEXTURE	C				
COURSE FRAGMENTS	Q				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Q				
SURFACE ROCKINESS	Q				
DEPTH TO / OF					
MOTTLES	35 cm				
GLEY	35 cm				
BEDROCK	>40 cm				
WATER TABLE	>40 cm				
CARBONATES	\				
DEPTH OF ORGANICS	Q				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Rhu cath			D		
Geu aleppo				O	
Sol dulc				R	
Sol alti				R	
Sym late				R	
Pru vulg				R	
Fra virg				R	
Cra mono			R		
Cra sp.				R	✓
Equ. arve				R	
Rub occi			R		

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 49
DATE: Sept 10/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

214

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 49
	SURVEYOR(S): TK	DATE: Sept 10/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604875	UTMN: 4851018 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
G TERRESTRIAL G WETLAND G AQUATIC	G ORGANIC G MINERAL SOIL G PARENT MIN. G ACIDIC BEDRK. G BASIC BEDRK. G CARB. BEDRK.	G LACUSTRINE G RIVERINE G BOTTOMLAND G TERRACE G VALLEY SLOPE G TABLELAND G ROLL. UPLAND G CLIFF G TALUS G CREVICE / CAVE G ALVAR G ROCKLAND G BEACH / BAR G SAND DUNE G BLUFF	G NATURAL G CULTURAL	G PLANKTON G SUBMERGED G FLOATING-LVD. G GRAMINOID G FORB G LICHEN G BRYOPHYTE G DECIDUOUS G CONIFEROUS G MIXED	G LAKE G POND G RIVER G STREAM G MARSH G SWAMP G FEN G BOG G BARREN G MEADOW G PRAIRIE G THICKET G SAVANNAH G WOODLAND G FOREST G PLANTATION
SITE			**COVER**		
G OPEN WATER G SHALLOW WATER G SURFICIAL DEP. G BEDROCK			G OPEN G SHRUB G TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	4	Rha cath 64 – Cra mono 25 – Cra punc
4	GRD. LAYER	6	1	Gev alep

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR < 10% 2= 10 < CVR < 25% 3= 25 < CVR < 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 64 – Cra mono 25 – Cra punc 11 BA: 24

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 33cm	G= 33cm
MOISTURE: 5 moist	DEPTH OF ORGANICS: 0 (cm)		
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >45 (cm)		

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUT1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

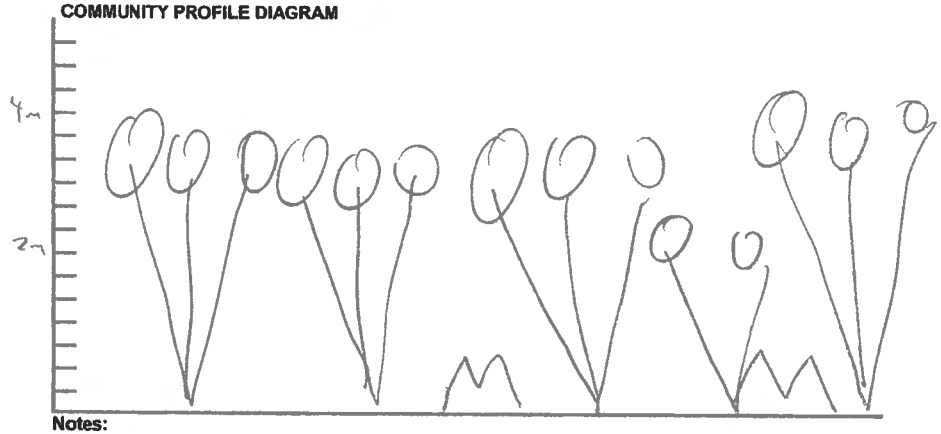
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Rha cath	⊡		⊠			23	64
Cra punc						4	11
Cra mono		⊡				9	25
TOTAL	12	11	13			36	100
BASAL AREA (BA)	24	22	26			72	24
DEAD							

STAND COMPOSITION:

Rha cath 64 – Cra mono 25 – Cra punc 11

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 49
DATE: Sept 10/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604875	4851018 ± 5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 33cm B 33-45cm 45 clay & impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	33cm				
GLEY	33cm				
BEDROCK	>45				
WATER TABLE	>45				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	S moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Cra punc			A		
Rha cath			D		
Gru alep				A	
Sol alti				O	
Ran acri				R	
Cel scan				R	
Oxa stri				R	
Dar glom				O	
Inv hele				R	
Pru vulg				R	
Ech lobe				R	
Fra penn			O	A	
Cra mono			D		
Vib opul			R		
Arc mini				R	
Lig vulg			R		
Ulm amer				R	
Pru virg			O		
Sub occi			O		

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 49
DATE: Sept 10/2012
SURVEYOR(S): JK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 14

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 50	
	SURVEYOR(S): JK	DATE: Sept 12/2017	TIME: start / finish	
	UTMZ: 17	UTME: 0605216	UTMN: 4853405	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☑ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Phu arun >> Syn lanc = Sol alti

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 70 cm	G= 55 cm
MOISTURE: Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Reed Canary Grass Mineral Meadow Marsh	MAM2-2
INCLUSION		
COMPLEX		

Notes: Some cut trees, Swale through community

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

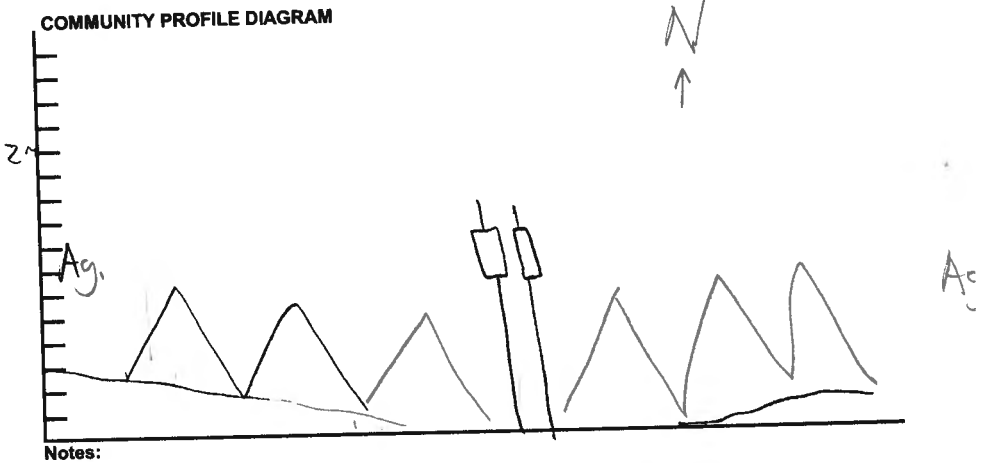
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47
	POLYGON: 50
	DATE: Sept 12/2012
	SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0605216	4853405 ± 4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 55cm B 70cm+				
A TEXTURE	C (very O enriched)				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	55cm				
BEDROCK	>120cm				
WATER TABLE	5cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Rha arun				D	
Lyt sali				R	
Sol alti				O	
Syn nova				O	
Fra penn			O		
Lee oryz				O	
Ech loba				R	
Amb art				R	
Bid fron				R	
Rha cath			R		
Ace neg			R		
Ust dioi var dioi				R	
Gle hede				R	
Cir vulg				R	
Son arve				R	
Dau caro				R	
Agr gigan				R	
Rhu typh			R		
Cir vulg				R	
Bro inin				A	
Ace X free			R		
Ent scan				R	
Asc cyri				R	
Vic crui				R	
Ali rosa				R	
Typ lati				O	
Sal X rube	R				
Gev alep				R	
Car crist				R	
Car vulp				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Ech crus				R	
Agr stol				O	
Per hydr				X	
Per lapa				R	
Per macu				R	
Syn lanc				O	
Son olev				R	
Oen bien				R	
Art bien				R	
Epi parv				R	
Tri hybr				R	
Thu occi		R			
Juni virg		R			
Inv hele				R	

* See polygon 53 for additional species

Page ..... of .....

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 50
DATE: Sept 12/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	3
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	1
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=17

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Raven	OB	flying over	1					
B	Starlings	OB	in snag	50					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 51	
	SURVEYOR(S): TK	DATE: Sept 12/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0605667	UTMN: 4852684	±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☑ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☑ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☐ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5-6	4	Fes rubr > Poa prat > Clr arve

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 33cm	G= 60cm
MOISTURE: 5 Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-moist old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

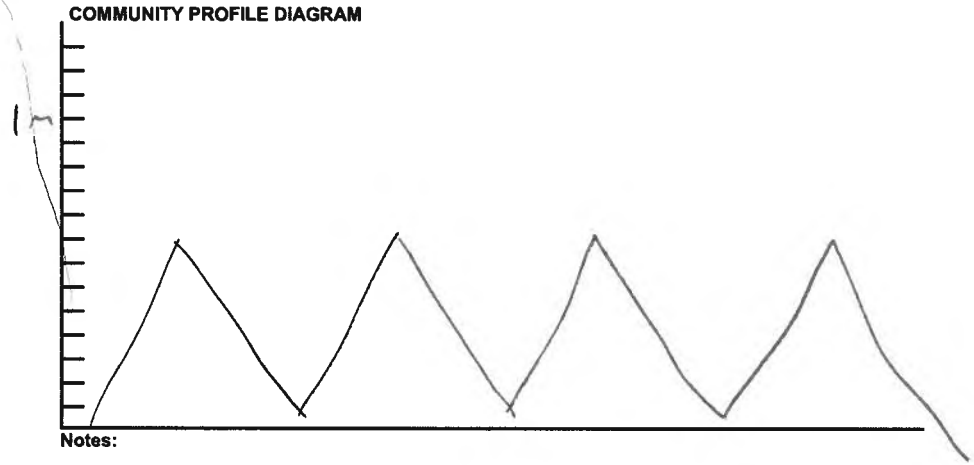
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 51
DATE: Sept 12/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Slope Position	Aspect	%	Type	Class	UTM Z	EASTING	NORTHING
1	A			7					17	0605667	4852684 ± 3m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 60cm B				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	33cm				
GLEY	60cm				
BEDROCK	>120				
WATER TABLE	70cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Ely repe				D	
Fes rubr				D	
Agr stol				O	
Phl pratt				O	
Poa comp				O	
Sym novae				O	
Sol altis				O	
Amb artc				O	
Sch prat				O	
Poa comp				O	
Rha cath			O		
Cir arve				A	
Son arve				R	
Gal ulep				R	
Son oler				R	
Poa prat				A	
Vic cras				O	
Cir vulg				R	
Sch arun				R	
Car spic				O	✓
Sol dulc				R	
Dac glom				R	
Con arve				R	
Dav curo				R	
Sym eric				R	
Ela umbe			R		
Fra virg				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: S1
DATE: Sept 12/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	>30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	House Wren	VO/OB							

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 52	
	SURVEYOR(S): TR	DATE: Sept 12/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0605703	UTMN: 4852438	±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☑ RIVERINE ☐ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☑ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE

☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER

☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5	4	Ech crus >> Epi parv

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 35cm	G= 50cm
MOISTURE: S Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >170cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Sparse vege cover in some areas, Swale dredged

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

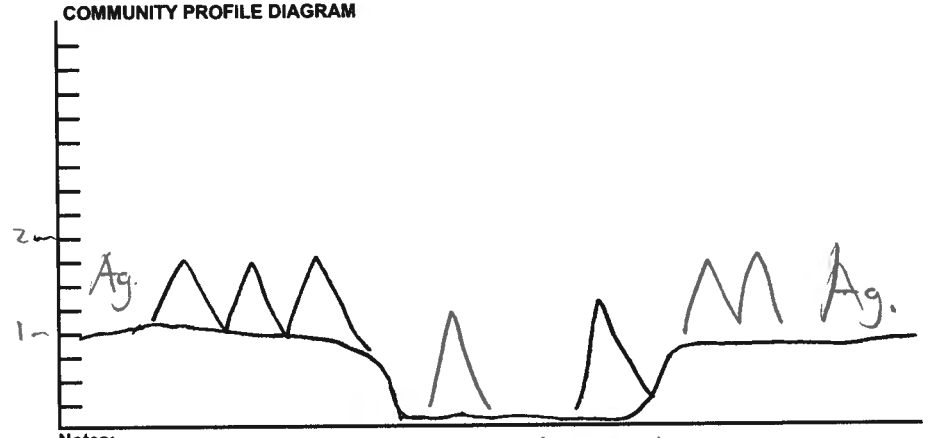
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes: mostly dry Swale

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 52
DATE: Sept 12/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0605703	4852438 ±5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 50cm; B 50cm				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	35cm				
GLEY	50cm				
BEDROCK	>120cm				
WATER TABLE	60cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Epi parv				A	
Sol alti				R	
Pau caro				O	
Tara offi				R	
Vic cinc				O	
Art bien				R	
Dea bien				O	
Medi sati				R	
Per macv				R	
Pla maji				O	
Ech crus				D	
Lep camp				R	
Set puni				R	
Por oler				R	
Pan virg				O	
Abu theo				R	
Anag arve				R	
Sen arve				O	
Agr stol				O	
Che glau				R	
Equ arve				O	
Barb vulg				R	
Pan capi				O	
Cher albu				R	
Atr patu				R	
Zea mays				R	
Lyt sali				O	
Fra penn	R				
Bid fron				R	
Per lapn				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Per hydr				R	
Rum crisi				R	
Tri hybr				O	

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 52
DATE: Sept 12/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=14

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	AMTC	VO							
M	Coyote	TK							
B	RWBB	VO							
M	Nothing Pond	VO							
L	Woolly Bear	OB							

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Area 47		POLYGON: 53	
SURVEYOR(S): Tk	DATE: Sept 12/2012	TIME: start / finish	
UTMZ: 17	UTME: 0605972	UTMN: 4852259	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☑ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE
☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER
☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4	4	Typ angu >> Typ lati > Pha arun >> Lyt sali

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 5 cm	G= 70 cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 8		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 95		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-1
INCLUSION		
COMPLEX		

Notes:

ELC
STAND CHARACTERISTICS

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	

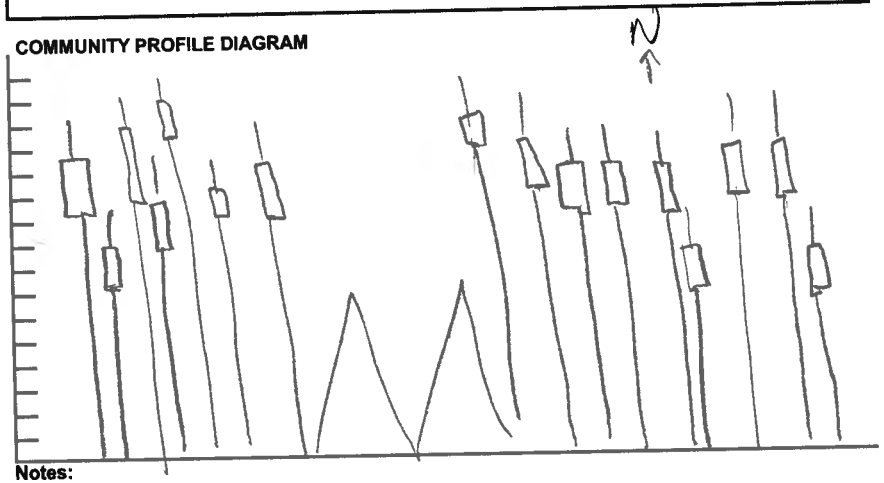
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 53
DATE: Sept 12/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0605972	4857259
2											
3											
4											
5											

± 4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A A 70cm; B 70-95 Bedrock 95cm				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	5cm				
GLEY	70cm				
BEDROCK	95cm				
WATER TABLE	10cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

on border

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Typ angu				D	
Lyt sali				A	
Pha arun				A	
Leer oryz				R	
Sol alti				O	
Typ lati				D	
Sym lanc				O	
Rha cath			O		
Fra penn	R				
Phr aust				R	
Cor seri			K		
Pop trem	O	K			
Ace negu		R	R		
Jun effu				R	
Agr stol				R	
Per lapa				R	
Ech cru				R	
Per maeu				R	
Asc syri				R	
Per amph				R	
Ele eryr				R	
Car rotr				R	
Sym X amz				R	
Pop delt	R				
Sal inte					
Pas sati				R	

polygon 50

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 53
DATE: Sept 12/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	9
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	3
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

garbage can

Farm machinery trail with broken concrete slabs through wetland

= 27

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 54
	SURVEYOR(S): TK	DATE: Sept 12/2012	TIME: start / finish
	UTMZ: 17	UTME: 0606335	UTMN: 4851235 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☐ WETLAND ☐ AQUATIC	☐ ORGANIC ☐ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☐ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☐ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☐ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☐ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sol alti > Bro inin > Sym nova > Sym lanc

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 15cm	G= 40cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 60cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

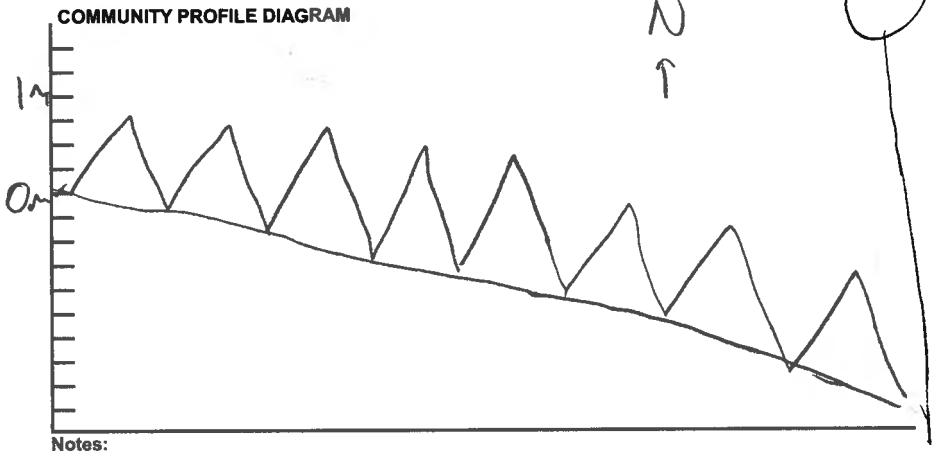
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 54
DATE: Sept 12/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			3					17	0606335	4851235
2											
3											
4											
5											

± 4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 40cm B 40-60 60 Bedrock				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	15cm				
GLEY	40cm				
BEDROCK	60cm				
WATER TABLE	Ø				
CARBONATES	Y				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sol alti				D	
Dac glom				O	
Dac caro				O	
Sym nova				A	
Sch prat				O	
Bro inin				A	
Ran acri				R	
Vic cras				O	
Rha cath			O		
Cra mono			O		
Son arve				R	
Sym lanc				A	
Tha arve				O	
Poa prat				A	
Juip virg			R		
Cic inty				R	
Con arve				R	
Sym eric				O	
Phl prat				O	
Red Ash var. Fra penn	O		O		
Sol dulc				R	
Pas sati				R	
Pot rect				R	
Ela umbe			R		
Asc syri				O	
Cra mucr			R		
Cra sp.		R			
Dip fill				R	
Meli alba				R	
Apo cann				R	
Rum crus				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Lot corn				R	
Sal inte			R		
Phra aust				R	
Lin vulg				R	
Sal X rubr			R		
Lot corn				R	
Mat cano				R	
Tri hybri				R	
Che albu				R	
Rha cath			O		
Cra sp		R			
Sym nova				O	
Bro inin				A	
Sym lanc				A	
Tha arve				A	
Sol alti				A	
Fra penn	D				
Ace negu		R			

Fra penn inc

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 54
DATE: Sept 12/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 11

Trailer, old shed, dumped hay and brush

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 55	
	SURVEYOR(S): TK	DATE: Sept 12/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0606639	UTMN: 4850939	±7m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☑ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☑ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE	COVER
☐ OPEN WATER	☐ OPEN
☐ SHALLOW WATER	☐ SHRUB
☑ SURFICIAL DEP.	☑ TREED
☐ BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	4	Pin stro = Pin resi > Fra penn >> Jug nigr
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Phe arun = Bro inin > Dip full

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION:	BA:
Pin resi 33 – Pin stro 33 – Fra penn 29 – Jug nigr 5	14

SIZE CLASS ANALYSIS:	O	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 50cm	G= 70cm
MOISTURE: 4 Mod. Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Woodland	CUW
ECOSITE:	Mineral Cultural Woodland	CUW1
VEGETATION TYPE:		
INCLUSION	Cattail Mineral Shallow Marsh	MAS2-1
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

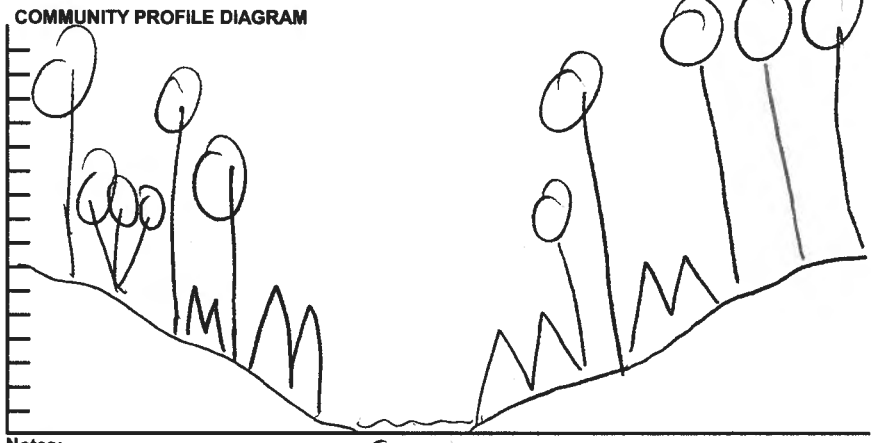
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Pin resi						7	33%
Pin stro						7	33%
Fra penn						6	29%
Jug nigr						1	5%
TOTAL	7	8	6			21	100
BASAL AREA (BA)	14	16	12			42	14
DEAD						5	

STAND COMPOSITION:

Pin resi 33 – Pin stro 33 – Fra penn 29 – Jug nigr 5

COMMUNITY PROFILE DIAGRAM



Ag.

Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 55
DATE: Sept 12/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			5-6					17	0606639	4850939	±7m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 70cm; B 70cm+				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	CL				
COURSE FRAGMENTS	Very pebbly				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	few				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	50				
GLEY	70				
BEDROCK	>120				
WATER TABLE	75cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	4 Mod. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Pha arun				D	
Pin stro	A				
Fra penn	O		R		
Dip full				A	
Cra sp.		R			
Typ angu				O	
Sym lanc				O	
Agr stol				R	
Sym nova				R	
Rum cris				R	
Sol alti				O	
Sol dulc				O	
Pla resi	A				
Pic glau	R				
Tuss farf				R	
Bro inin				D	
Ace X Free	R				
Jug nigr	O		R		
Typ lati				O	
Ect gram				R	
Cir arv.				O	
Leo card				R	
All peti				R	
Geu alep				R	
Epi phrv				R	
Oen bien				R	
Asc syri				O	
Agr gige				O	
Rha cath			R		
Pop delt	R				
Cra punc			R		

SPECIES CODE	LAYER 1	2	3	4	COL.
Sol dulc				R	
Phr aust				A	
Typ lati				D	
Typ angu				D	

Typ inc.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 55
DATE: Sept 12/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	4
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	6
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 19

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 56
	SURVEYOR(S): Tk	DATE: 5 Sept 13/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604427	UTMN: 4852426 ±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☑ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE

☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER

☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5	4	Sol alti > Cir arve > Son arve

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	O	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 35cm	G=60cm
MOISTURE: S Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >90		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes: Swale in western part of community

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

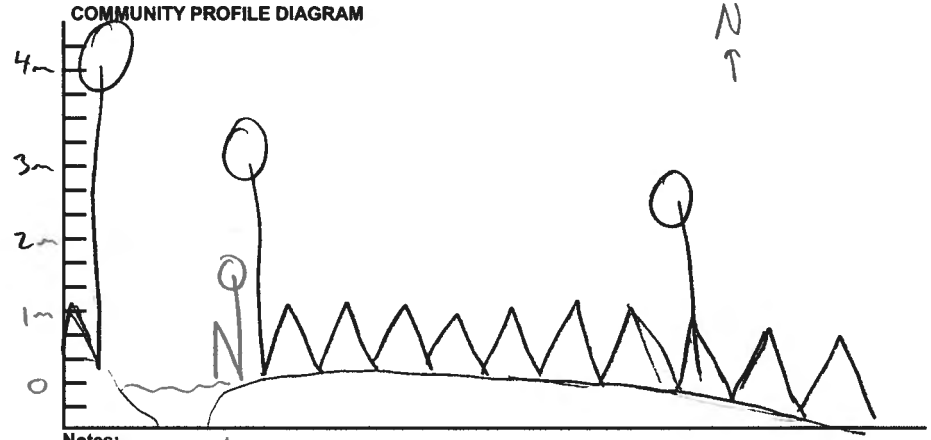
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes: Swale

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 56
DATE: Sept 13/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604427	4452426 ± 3m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 15cm B 15-70 C 70-90 90 clay	impenetrable			
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE	C				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	35 cm				
GLEY	60 cm				
BEDROCK	>90				
WATER TABLE	>90				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym lane				A	
Typ lati				O	
Sol alti				D	
Asc syri				O	
Sym [illegible]				A	
Dau caro				A	
Run cris				O	
Agr giga				A	
Lol pere				A	
Thr aust				R	
Cir vulg				R	
Lot corn				R	
Tha arun				O	
Bro inim				O	
Son arve				A	
Poa prat				A	
Cir arve				A	
Poa comp				A	
Ver hast				R	
Sol dulc				R	
Son oler				O	
Ame retr				O	
Che albu				O	
Jug nigr		R			
Rhu typh			O		
Rhu cath		O	O		
Digi sangu				R	
Prun sp		R			
Mal pumi		R			
Fra penn		R	R		
Ely repe				O	

SPECIES CODE	LAYER 1	2	3	4	COL.
Cut gram				O	
Cic inty				R	
Pan capi				R	
Amb arti				R	
Pla majo				R	
Tri hybr				R	
Rud hirt				R	
Agr stol				R	
Med lupu				R	
Mel alba				R	
Sal X rube	O				
Car vulp				R	
Jun dud				R	
Mat cam				R	
Ulm amer		R			
Hel tube				O	
Ver thap				R	
Lon mirro			R		
Planted Magnolia		R			
Ace negu		R			
Imp rupe				R	
Tus farf				R	
Lys numm				R	
Pir macu				R	
Cor foem			R		
Par insi				R	
Vio sp				R	
Arc mimi				R	
Cri cam				R	

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 56
DATE: Sept 13/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 11

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 57
	SURVEYOR(S): Tk	DATE: Sept 13/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604291	UTMN: 4852375 ±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☑ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☑ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☐ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☑ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	3	Pin syl
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5-6	4	Sol alti > Bro inin > Cir arve > Syn nova

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	O	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 20 cm	G= Ø
MOISTURE: G very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 50		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Savanna	CUS
ECOSITE:	Mineral Cultural Savanna	CUS1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

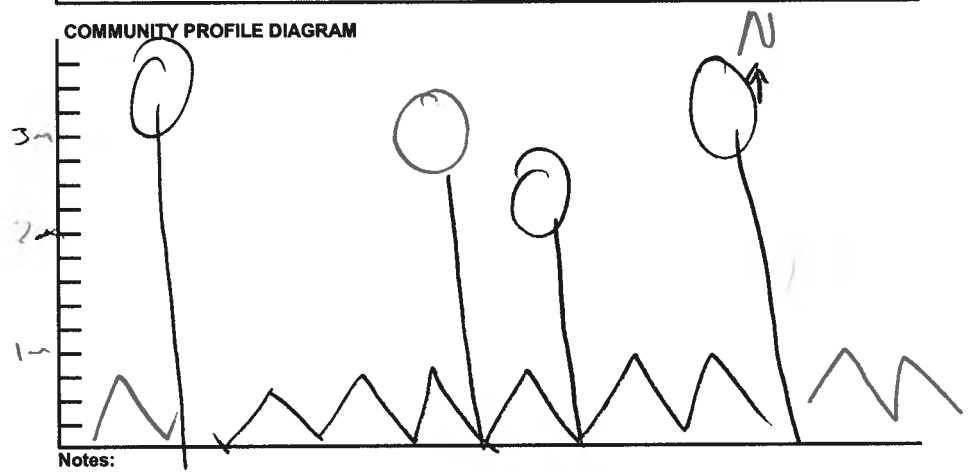
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 57
DATE: Sept 13/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			3					17	0604291	4852375 ±3m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 25cm; B 25-50cm; 50 Bedrock				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Pebbles				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	Ø				
BEDROCK	50				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Sym eric				O	
Sym lanc				A	
Sol alti				D	
Bro inim				D	
Mor alba		R			
Pin sylv	D		R		
Rha cath			O		
Vic crac				O	
Cra mono			O		
Ohl prat				O	
Pau cuo				O	
Cir arve				A	
Cri anni				O	
Pot rect				R	
Poa prat				O	
Sym nova				A	
Gev alep				R	
Lon tata			R		

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 57
DATE: Sept 13/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	>30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	3
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Trailer

=18

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
L	Monarch	OB		1					
M	Cottontail	OB		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Area 47		POLYGON: 58	
SURVEYOR(S): Tk	DATE: Sept 13/2012	TIME: start / finish	
UTMZ: 17	UTME: 0604155	UTMN: 4852292	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☑ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☑ PLANTATION

SITE
- ☐ OPEN WATER
- ☐ SHALLOW WATER
- ☑ SURFICIAL DEP.
- ☐ BEDROCK

COVER
- ☐ OPEN
- ☐ SHRUB
- ☑ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	4	Pic glau > Pin stro > Ace sacc
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: Pin stro 40 – Pic glau 30 – Ace sacc 30 BA: 39

SIZE CLASS ANALYSIS:	R	< 10	A	10 - 24	A	25 - 50	R	> 50
STANDING SNAGS:	N	< 10	R	10 - 24	R	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = ∅	G= ∅
MOISTURE: 2 Fresh	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >60		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Plantation	CUP
ECOSITE:	Coniferous Plantation	CUP3
VEGETATION TYPE:	White Pine Coniferous Plantation	CUP3-2
INCLUSION		
COMPLEX		

Notes:

ELC
STAND CHARACTERISTICS

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	

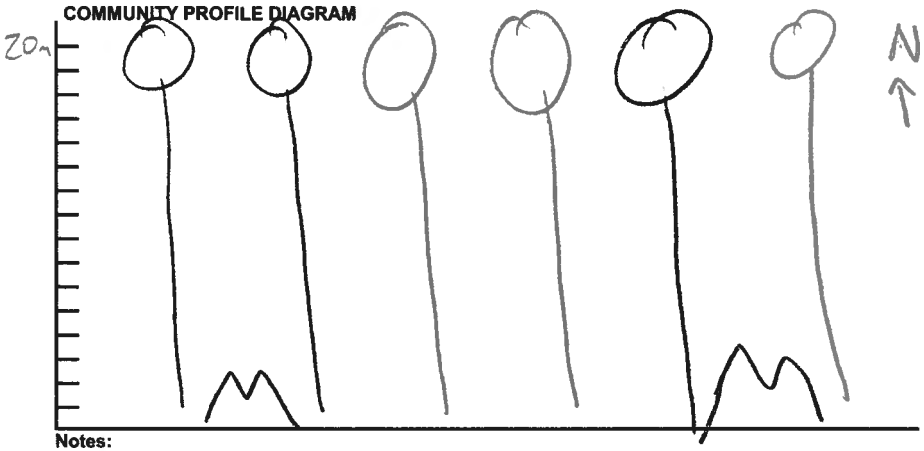
TREE TALLY BY SPECIES:

PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Pic glau			⊠ ⊓			17	30%
Pin stro	⊠ ⊠					24	40%
Ace sacc		⊠ ⊓				18	30%
TOTAL	24	18	17			59	100
BASAL AREA (BA)	48	36	32			116	39
DEAD							

STAND COMPOSITION: Pin stro 40 – Pic glau 30 – Ace sacc 30

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 58
DATE: Sept 13/2012
SURVEYOR(S): TC

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	UTM EASTING	UTM NORTHING
1	A			3					17	0604155	4852292
2											
3											
4											
5											

± 4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 25cm B 25-60 60cm clay impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Q				
B TEXTURE	SiC				
COURSE FRAGMENTS	Q				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Q				
SURFACE ROCKINESS	Q				
DEPTH TO / OF					
MOTTLES	Q				
GLEY	Q				
BEDROCK	>60				
WATER TABLE	>60				
CARBONATES	\				
DEPTH OF ORGANICS	Q				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	2 Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Pic glau	D	R		R	
Lon tata			R		
Sol alti				O	
Sol dulc				R	
Symnova				R	
Cir cris				R	
Asc syri				R	
Cur vulp				R	
Sci atro				R	
Rhu cath		R	A	D	
Silver Ace saca	A		O		
Ann arte				R	
Cir arve				R	
Poa prat				R	
Geu alep				O	
Pru virg			U		
Pin stro	A			R	
Tara offi				R	
Dac glom				O	
Bar inse				R	
Pru sp.			R		
Cir inty				R	
Dac caro				R	
Que macr				R	
Cir vulg				R	
Rib rubr			R		

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

Page ..... of .....

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 56
DATE: Sept 6/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	3
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	1
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	2
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 21

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 54	
	SURVEYOR(S): TK	DATE: Sept 13/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0604755	UTMN: 4852097	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☑ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☐ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5-6	4	Sol alti = Bro inla > Sym nova = Cir arve

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = ∞	G= ∅
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >>0cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes: Swale beside road

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

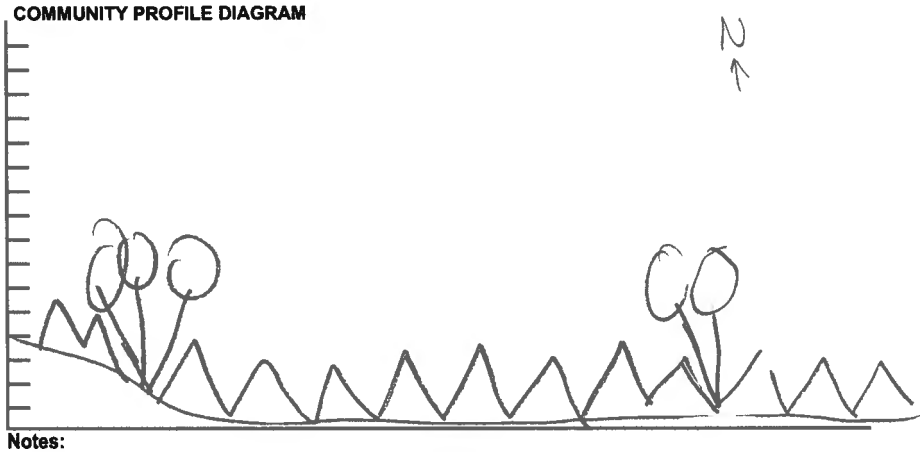
TREE TALLY BY SPECIES:

PRISM FACTOR [ ] n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 59
DATE: Sept 13/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			3-7					17	0604755	4852097	±4m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 40cm B 40-70cm 70cm clay impenetrable				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	Ø				
BEDROCK	>70cm				
WATER TABLE	>70				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.	SPECIES CODE	LAYER 1	2	3	4	COL.
Ely repe				O							
Cir arve				A							
Rha cath		A									
Vic plan			R								
Bro inin				D							
Sym nova				A							
Lin vulg				R							
Poa prat				A							
Ase syri				A							
Phl prat				R							
Agr gigh				A							
Cra mono		R									
Cra pune		R									
Dau caro				O							
Sym lanc				O							
Mal pumi		R									
Son arve				R							
Jug nigr			R								
Typ angu				O							
Hel tube				O							
Are minu				O							
Ace plat		R									
Sal eris			R								
Sal x rube		O									
Lyt sali				R							
Rub stri			R								
Sol alti				D							
Sch prat				R							

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 59
DATE: Sept 13/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=14

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
L	Monarch	OB		1					
H	AMTO	VO		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 60
	SURVEYOR(S): TK	DATE: Sept 13/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604470	UTMN: 4852072 ±4

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE

☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER

☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5-6	4	Bro inin = Dac glom > Poa comp > Sch grat

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 25	G= Q
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Q		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >	20	(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
✓ VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-2
INCLUSION	Mineral Meadow Marsh	MAM2
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

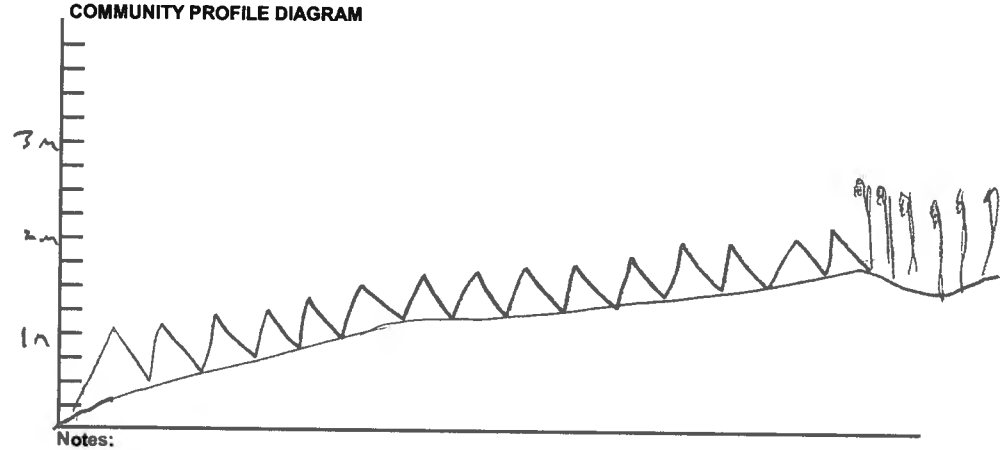
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 60
DATE: Sept 13/2012
SURVEYOR(S): Th

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604470	4852072
2											
3											
4											
5											

±4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 40cm B 40-60 60 Clay Impentrable				
A TEXTURE	C				
COURSE FRAGMENTS	b				
B TEXTURE	C				
COURSE FRAGMENTS	b				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	b				
SURFACE ROCKINESS	b				
DEPTH TO / OF MOTTLES	25				
GLEY	b				
BEDROCK	>60				
WATER TABLE	>60				
CARBONATES	Y				
DEPTH OF ORGANICS	b				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 V. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Phra aust				D	
Ech crus				A	
Sol dulc				O	
Per lupu				R	
Dac glom				D	
Sym nova				O	
Sym lanc				O	
Sol alti				O	
Cir arve				O	
Sch prat				A	
Bro inin				D	
Phl prat				A	
Cic intx				O	
Agr gigas				O	
Tar offi				R	
Eri stri				R	
Poa comp				A	
Vic crac				R	
Sym erec				R	
Med lupu				R	
Hyp perf				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 60
DATE: Sept 13
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=10

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 61
	SURVEYOR(S): TK	DATE: Sept 17/2017	TIME: start / finish
	UTMZ: 17	UTME: 0604407	UTMN: 4852204 ±6m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☑ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☑ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☐ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☑ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	3	Ace Sacc > Fra penn
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Fes rub > Sol alti

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	O	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 20 cm	G= Ø
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 750 cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Savanna	CUS
ECOSITE:	Mineral Cultural Savanna	CUS1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Many cut and discarded trees

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES: n/a (Savanna)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 61
DATE: Sept 13/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604407	4852204 ±6m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 – 35cm; B 35cm – 50cm Clay impenetrable				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Few				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	Ø				
BEDROCK	>50cm				
WATER TABLE	>50cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Ace Saccharum		D			
Que rubr			O		
Sol alti				A	
Cor seri			R		
Pha arun				R	
Fes rubr				D	
Til amer			R		
Ira penn		O			
Rha cath			O	R	
Dau caro				R	
Lon tata			R		
Pru vulg				R	
Medi lupu				R	
Tar offi				O	
Blueberry (P)			R		

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 61
DATE: Sept 13/2002
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	3
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	9
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	9
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=30

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 62
	SURVEYOR(S): Tk	DATE: Sept 13/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604327	UTMN: 4852037 ±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☑ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☐ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sol alti = Bro inin > Cir arve

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SC	DEPTH TO MOTTLES / GLEY	g = 50cm	G= Ø
MOISTURE: 4 Mod. Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM2
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM2-1
✓ INCLUSION		
✓ COMPLEX	Willow Mineral Thicket Swamp	SUT2-2

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 62
DATE: Sept 13/2014
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			7					17	0604327	4852037	±3m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	0 A 50 B				
A TEXTURE	SC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	50 cm				
GLEY	>120 cm				
BEDROCK	>120 cm				
WATER TABLE	>120				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	4 Mod. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sal inte		O	O		
Sym lanc				O	
Sol alti				D	
Bro ini				D	
Cir arve				A	
Ace negu	R				
Eut gram				R	
Inu hele				R	
Sal x Rube	O				
Mal puni		R			
Asc syri				O	
Imp cape				O	
Lil mich				R	
Sym nova				R	
Rhn cath		O			
Rub strig			O		
Cra mono		R			
Gle hedor				R	
Vit rapa				R	
Fra penn	R				
Ulm amer		R			
Jun virg			R		
Lon tata			R		
Sym eric				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Lyc unif				R	
Bid fron				R	
Ace negu		R			
Sol dul				R	
Typ angu				D	
Sal inte		D	A	A	
Sal eric			O	O	

Comp

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: C 2
DATE: Sept 13/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

-10

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 67
	SURVEYOR(S): JK	DATE: Sept 13/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604467	UTMN: 4851957 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☑ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE
☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER
☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Pro lain > Sol alti = Sym lanc

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 20cm	G=
MOISTURE: G Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >60cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
✓ INCLUSION	Willow Mineral Thicket Swamp	SWT2-2
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 63
DATE: Sept 13/2012
SURVEYOR(S): TR

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			5-6					17	0604467	4851957	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0–30, B 30–60 clay impenetrable				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	>60cm				
BEDROCK	>60cm				
WATER TABLE	>60cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym lanc				A	
Sol alti				A	
Bro inin				D	
Sym nova				O	
Pha arun				O	
Pop delt			R		
Asc syri				O	
Ulm amer			R		
Dau caro				R	
Ech lobu				R	
Eut gram				R	
Cir arve				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Sal bebb			R		
Sym lanc				R	
Car sect			R		
Car cris				R	
Car vulp				R	
Pop delt			O	R	
Pha arun				A	
Typ lati				R	
Sal eria			O		
Sol dulc			O		
Sal inta			O		
Sal disc			R		

will in

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 63
DATE: Sept 13/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Garbage can
Brush piled
rocks

= 9

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 64
	SURVEYOR(S): Tk	DATE: Sept 13/2014	TIME: start / finish
	UTMZ: 17	UTME: 0605180	UTMN: 4849928 ±6m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☑ RIVERINE ☐ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☑ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☐ MARSH ☑ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE	COVER
☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK	☐ OPEN ☐ SHRUB ☑ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	4	Sal X Sepu >> Ace sacc > Pop delt
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sym lanc > Pha arun > Agr stol > Allpeti

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: Sal X rube 50 – Ace sacc 25 – Que rubr 12.5 – Sor aucu 12.5 BA: 5

SIZE CLASS ANALYSIS:	R	< 10	O	10 - 24	O	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 8cm	G= ∅
MOISTURE: Very Moist	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 50cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SW
COMMUNITY SERIES:	Deciduous Swamp	SWD
ECOSITE:	Mineral Deciduous Swamp	SWD4
VEGETATION TYPE:	Willow Mineral Deciduous Swamp	SWD4-1
INCLUSION		
COMPLEX		

Notes: clogged culvert

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

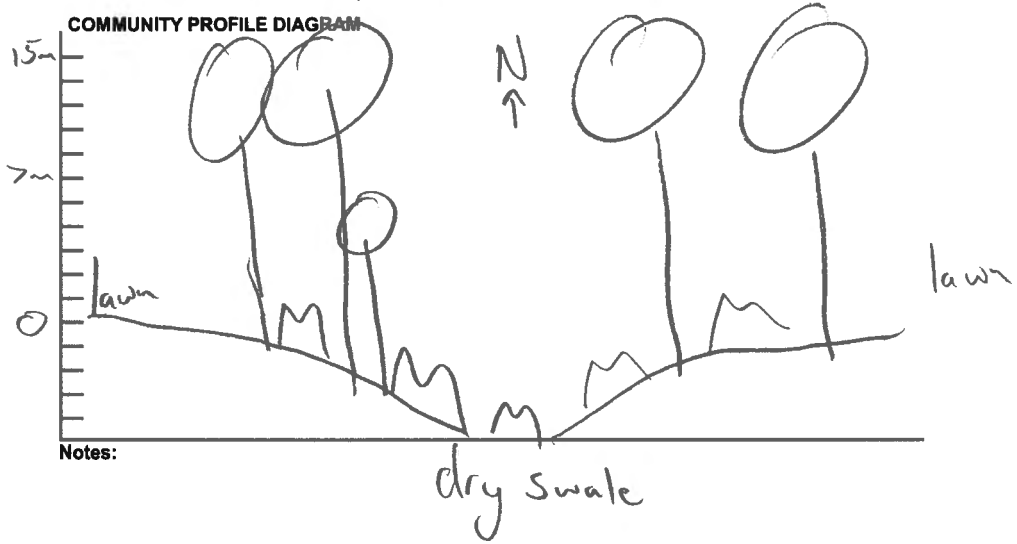
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Sal X Sepu						4	50%
Sor aucu						1	12.5%
Ace sacc						2	25%
Que rubr						1	12.5%
TOTAL	3	2	3			8	100
BASAL AREA (BA)	6	4	6			16	5
DEAD							

STAND COMPOSITION:

Sal X rube 50 – Ace sacc 25 – Que rubr 12.5 – Sor aucu 12.5

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 64
DATE: Sept 13/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0605180	4849928 ± 6m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 / B 30cm / Bedrock 50cm				
A TEXTURE	SCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	8cm				
GLEY	Ø				
BEDROCK	50cm				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
All peti				A	
Sym lanc				D	
Fra penn	R				
Sal X sepu	D				
Pha arun				A	
Sol alti				O	
Vit mpa				R	
Ace plat	R				
Ace negu	R				
Ace saccha	O				
Sor aucu	R		R		
Que rubr	R				
Sol dulc				A	
Bid vulg				R	
Sym novae				R	
Rub stri			R		
Mal pumi		R			
Impcape				O	
Agr stol				A	
Son arvo				O	
Per hydr				R	
Ver urti				R	
Prune vulg				R	
Lee oryz				R	
Ech loba				R	
Pla majo				O	
Ran acri				R	
Rhu typh			O		
Pop delt	O				
Typ lati				O	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 04
DATE: Sept 13/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	1
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	9
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=27

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Arcuhy		POLYGON: 65	
SURVEYOR(S): Tk	DATE: Sept 13/2012	TIME: start / finish	
UTMZ:	UTME: 0604301	UTMN: 4853026	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE
- ☐ OPEN WATER
- ☐ SHALLOW WATER
- ☑ SURFICIAL DEP.
- ☐ BEDROCK

COVER
- ☑ OPEN
- ☐ SHRUB
- ☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	2	Mal Pum
4	GRD. LAYER	4-6	4	Bro inin > Sol alti = Sym nova

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	A	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Sc	DEPTH TO MOTTLES / GLEY	g = 25cm	G= >120
MOISTURE: v. Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes: Many snags, abandoned shed

ELC
STAND CHARACTERISTICS

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	

TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 65
DATE: Sept 13/2012
SURVEYOR(S): TR

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604302	4853026 ±4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 / 35cm / B				
A TEXTURE	SC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	25cm				
GLEY	>120				
BEDROCK	>120				
WATER TABLE	>120 -				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Phl prat				O	
Sch prat				O	
Sym nova				A	
Sol alti				A	
Pin resi	O				
Cir arve				A	
Mal pums		A			
Cyn ross				R	
Agr giga				O	
Fec rubr				O	
Rha cath			O		
Bro min				D	
Ace plat	R				
Sym erric				O	
Gov alp				R	
Asc syri				O	
Fra penn	R				
Syr vulg		R			
Picea pung	O				
Junip vlrg			R		
Car spic				R	
Sch arun				R	
Sym lanc				O	
Rum cris				O	

SPECIES CODE	LAYER 1	2	3	4	COL.
Fra penn		O			
Rha cath			D		
Acc Sacc	D				
Pic glau	O				
Jug nigr		R			
Sol alti					

Polygon 109 * No Access granted visual obs. from roadside

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: C5
DATE: Sept 13/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4 Mal pum
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=21

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 66
	SURVEYOR(S): TK	DATE: Sept 17/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605163	UTMN: 4851518 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE

☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER

☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Sol alti > Hel tube = Bro inla

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	✓	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 25cm G= 75cm
MOISTURE: Very Moist	DEPTH OF ORGANICS: 8	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 90	(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry Moist old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

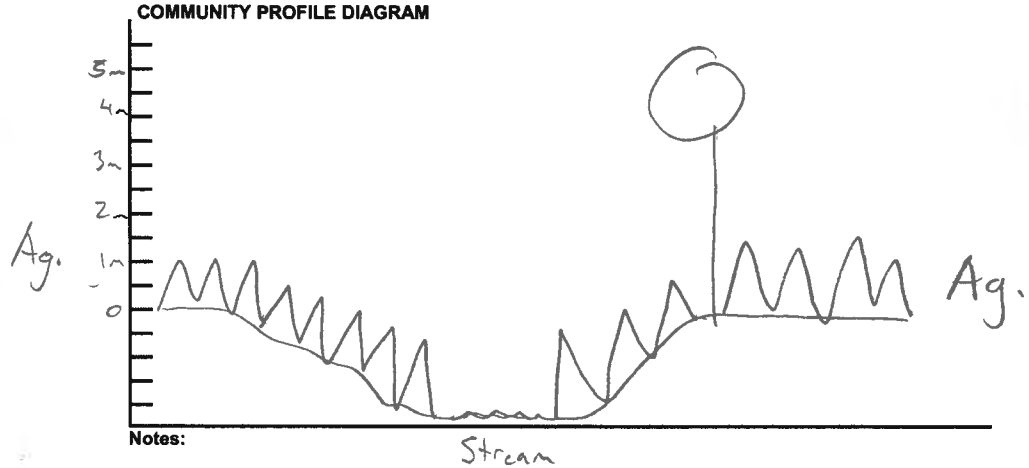
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 66
DATE: Sept 17/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			6					17	0605163	4851518	±4m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 – 30cm; B 30cm – 75cm; C 75cm – Bedrock 90cm				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE	SC				
COURSE FRAGMENTS	Pebbles				
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	25cm				
GLEY	75cm				
BEDROCK	90cm				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Hel tube				A	
Pha arun				A	
Typ angu				O	
Imp cape				O	
Sol alti				A	
Sym lane				A	
Cir arve				O	
Son arve				R	
Lyt sali				R	
Men arve				R	
Agr stol				O	
Asc syri				O	
Sym nova				O	
Cyp cypa				O	
Bro inin				A	
Rha rath			O		
Mel alba				R	
Epi parv				R	
Ace negu		R			
Sal X rubo	O		O		
Cra mono		O			
Fra penn			R		
Imp gland				R	
Dar caro				R	
Xan stru				R	
Bid fron				R	
Ech crus				R	
Art blen				R	
Che sp.				R	
Dip full				R	
Set tube				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Ech loba				R	
Mal puni		R			
Oen blen				R	
Cra macr			R		
Cra punc			R		
Sol dulc				R	
Poa prat				R	
Med lupu				O	
Tri hybr				R	
Per macr				R	
Xan stru				R	
Amb atre				R	
Set puni				R	
Rum crus				R	
Che albu				R	

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 66
DATE: Sept 17/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	3
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Farm tracks through Meadow

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	GBHE	OB		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 67	
	SURVEYOR(S): TK	DATE: Sept 17/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0605495	UTMN: 4851001	± 5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4	4	Phr arun

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 20cm	G= ∅
MOISTURE: G very Moist	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Reed Canary Grass Mineral Meadow Marsh	MAM2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

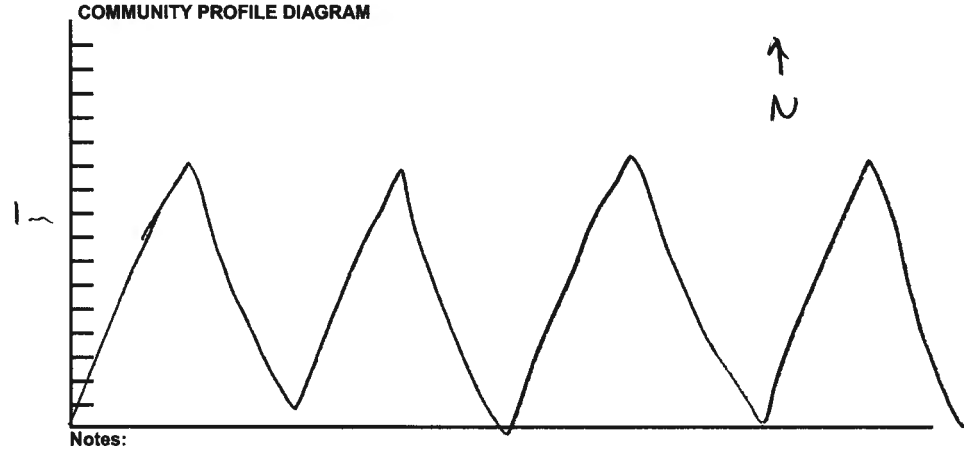
TREE TALLY BY SPECIES:

PRISM FACTOR ☐ n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 67
DATE: Sept 17/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			6					17	0605495	4851001	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	0 A 25cm B				
A TEXTURE	SiCL (O enriched)				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	Ø				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Bro inin				O	
Pha arun				D	
Vic crac				O	
Syn nova				R	
Cir arve				R	
Ely repe				R	
Poa prat				R	
Poa comp				R	
Bid vulg				R	
Sca oler				R	
Syn lanc				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 67
DATE: Sept 17/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 68
	SURVEYOR(S): TK	DATE: Sept 17/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605547	UTMN: 4851018 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☑ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☑ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☑ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE	COVER
☐ OPEN WATER	☐ OPEN
☐ SHALLOW WATER	☑ SHRUB
☑ SURFICIAL DEP.	☐ TREED
☐ BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	4	Rha cath >> Cra pune = Cra macr
4	GRD. LAYER	6	2	Dac glom = Agr gigi

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: Rha cath 66.6 – Cra pune 33.3 BA: 6

SIZE CLASS ANALYSIS:	A	< 10	O	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SC	DEPTH TO MOTTLES / GLEY	g = Ø	G= Ø
MOISTURE: 2 Fresh	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 35		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUT1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

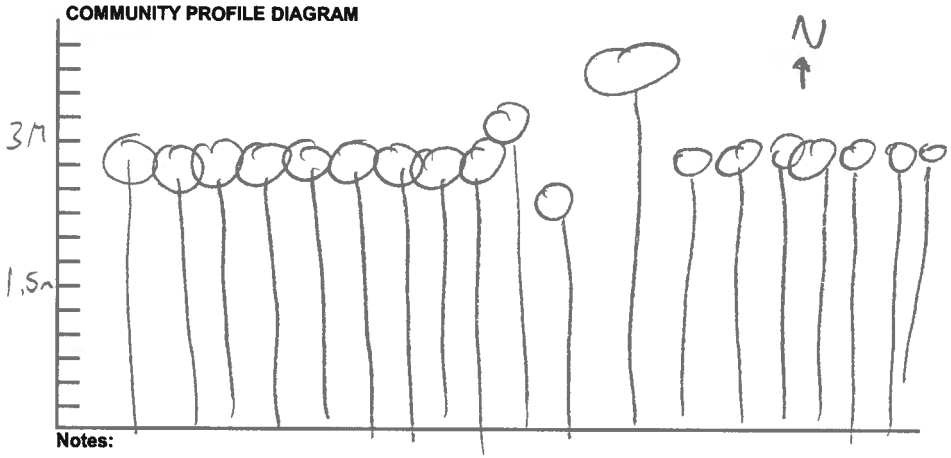
TREE TALLY BY SPECIES: Rhamnus dense but very thin

PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Cra pune	;'					3	33.3%
Rha cath	''	''	''			6	66.6%
TOTAL	5	2	2			9	100
BASAL AREA (BA)	10	4	4			18	6
DEAD							

STAND COMPOSITION: Rha cath 66.6 – Cra pune 33.3

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 68
DATE: Sept 17/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	UTM Z	EASTING	NORTHING	
1	A			3					17	0605547	4851018	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	0 A 15cm B Bedrock 35cm				
A TEXTURE	SC (organic)				
COURSE FRAGMENTS	Ø				
B TEXTURE	SC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	Ø				
BEDROCK	35cm				
WATER TABLE	Ø				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	2 Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Agr gig				D	
Rhu cath			D	O	
Cra pun			A		
Cra mac			A		
Phu aru				R	
Cra sp.					
Dac glom				D	
Sol alt				O	
Dau cho				R	
Vic cra				R	
Fra vir				R	
Eri ang				R	
Gre ulep				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Phl pra					
Pru vir					
Cra mac					
Rhu cath					
Cra pun					
Sym lan					
Poa pra					
Ely repe					
Cir arv					
Bro ine					

Old field inc

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 68
DATE: Sept 17/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	1
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=11

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 69	
	SURVEYOR(S): TK	DATE: Sept 17/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0605530	UTMN: 4851179	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☑ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☑ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☐ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Bro inin > Sol alti = Sym lanc

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Slc	DEPTH TO MOTTLES / GLEY	g = 35	G= ∅
MOISTURE: 5 Moist	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 40		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
✓ INCLUSION	Cattail Mineral Shallow Marsh	MAS2-1
COMPLEX		

Notes: Decaying barn

ELC STAND CHARACTERISTICS	SITE: Area 47
	POLYGON: 69
	DATE:
	SURVEYOR(S):

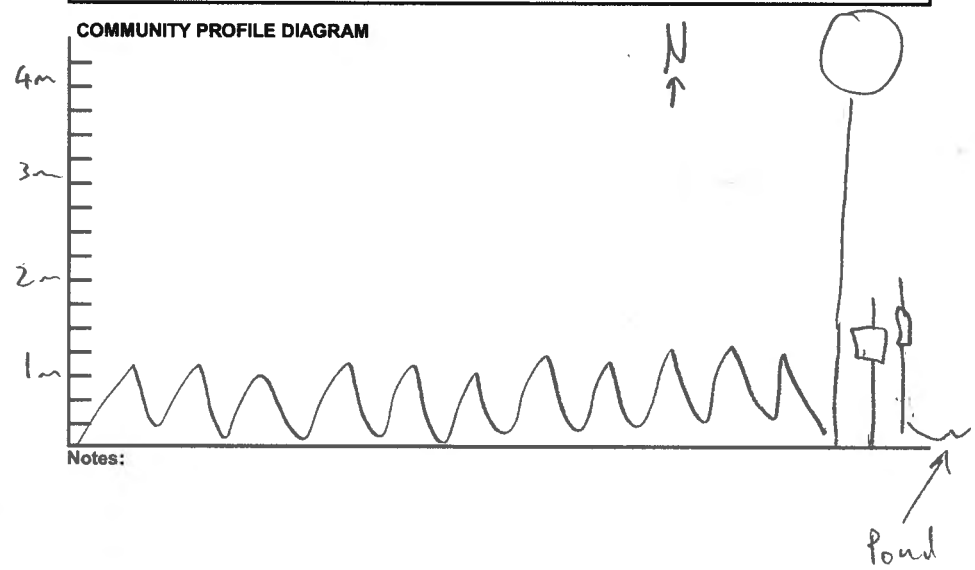
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 69
DATE: Sept 17 / 2014
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			7					17	0605530	4851179	±4m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 10cm; B Bedrock 40cm				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Many pebbles/rocks				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	35cm				
GLEY	Ø				
BEDROCK	40cm				
WATER TABLE	Ø				
CARBONATES	Y				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym lanc				A	
Sol alti				A	
Bro inlm				D	
Pha arun				R	
Sym nova				R	
Vic crac				O	
Cdr arve				O	
Son arve				R	
Rha cath			O		
Lot corn				R	
Cic inty				R	
Dau caro				R	
Asc syri				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Sal x rube	D				
Typ lat				D	
Typ angu				D	

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ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 69
DATE: Sept 17/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	3
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Decaying Bark

=14

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 70	
	SURVEYOR(S): Tk	DATE: Sept 17/2014	TIME: start / finish	
	UTMZ: 17	UTME: 0605487	UTMN: 4850846	± 4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☑ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☑ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE	COVER
☐ OPEN WATER	☐ OPEN
☐ SHALLOW WATER	☑ SHRUB
☑ SURFICIAL DEP.	☐ TREED
☐ BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	3	Rhu cath >> Cra pune = Cra Mucr
4	GRD. LAYER	4-6	4	Tox ryd > Sym lanc = Sym nova = Cir arve

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 50	G= Ø
MOISTURE: 4 Mod. Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >100		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUT1
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

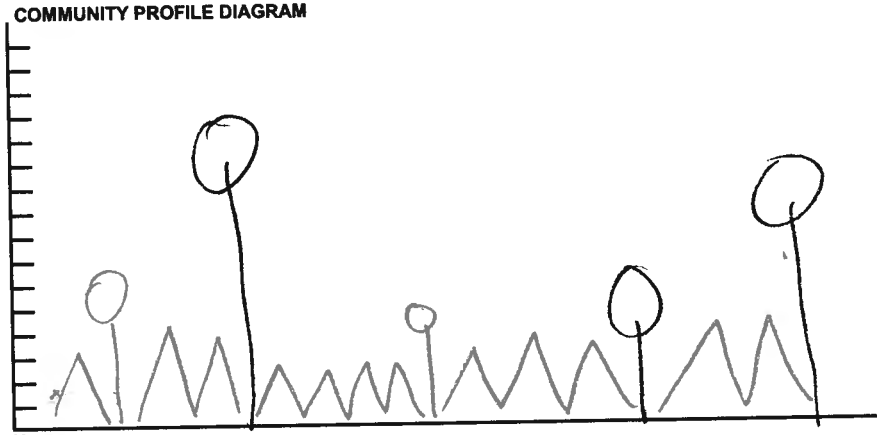
TREE TALLY BY SPECIES: n/a (not enough shrub cover)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 70
DATE: Sept 17/2012
SURVEYOR(S): tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			5					17	0605487	4850846 ±4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 / B 85cm				
A TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	50 cm				
GLEY	Ø				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	4 Mod. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Rosa blan			O		
Toxi rydb				A	
Rha cath			A		
Sym lanc				O	
Lit offi				O	
Agr gigu				O	
Cir arve				O	
Son arve				O	
Dac glom				R	
Asc syri				O	
Sym nova				O	
Cra punc			O		
Lin vulg				R	
Ely repe				R	
Sch prat				R	
Poa prat					
Cra macr			O		
Rub occi			R		
Pha arun				R	
Sol alti				R	
Nep cata				R	
Ron tata			R		
Pop alba			O		

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 70
DATE: Sept 17/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 10

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Area 41		POLYGON: 71	
SURVEYOR(S): Tk	DATE: Sept 17/2011	TIME: start / finish	
UTMZ: 17	UTME: 0605551	UTMN: 4850708	±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☑ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☐ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE
☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER
☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Sol alti > Hel tube = Bro inin

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 70cm	G= ∅
MOISTURE: 3 Very Fresh	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist old field Meadow	CUM1-1
✓ INCLUSION	Willow Mineral Thicket Swamp	SWT2-2
COMPLEX		

Notes:

ELC
STAND CHARACTERISTICS

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	

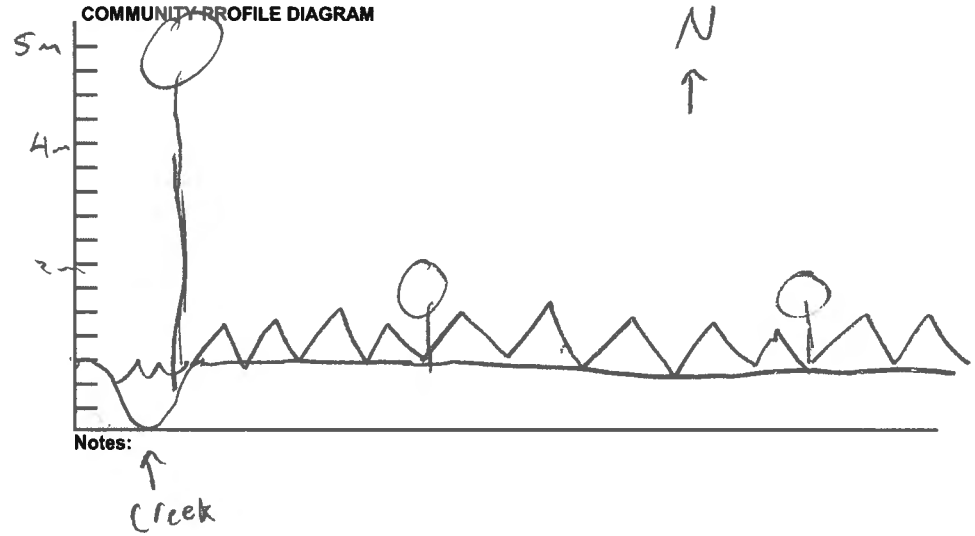
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 71
DATE: Sept 17/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			4-5					17	0605551	4850708	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm, 20cm, B				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	70cm				
GLEY	Ø				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	3 Very Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Hel tile				A	
Sol alti				D	
Sym nova				O	
Sym lanc				O	
Til amer			R		
Sal x rubc	O				
Imp glan				O	
Bro inin				A	
Rha cath			O		
Lyt sali				R	
Lys numm				R	
Inu hele				O	
Cir arve				O	
Asc syri				O	
Poa pral				O	
Poa comp				O	
Fes rubr				R	
Cra mar			R		
Lit offi				R	
Agr stol				R	
Ace nigr	R				
Inc. Sal intc		D			

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 71
DATE: Sept 17/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 5

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
H	Mennich	OB		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 72
	SURVEYOR(S): JK	DATE: Sept 17/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605415	UTMN: 4850788 ±5

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☑ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☐ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4	4	Bro inin = Cir arve > Vic cra > Son arve

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Sic	DEPTH TO MOTTLES / GLEY	g = 15	G= 0
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist old field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

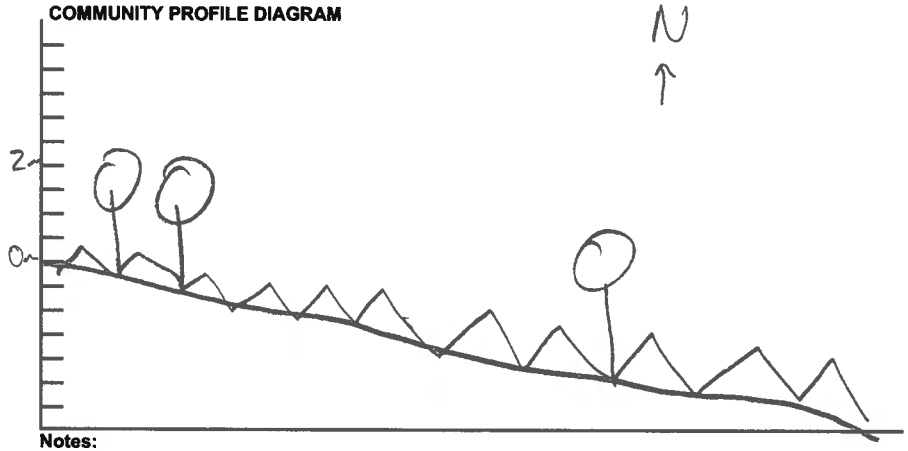
TREE TALLY BY SPECIES:

PRISM FACTOR ☐ n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 72
DATE: Sept 17/2017
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0605415	4850788 ±5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 – 10 cm B				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	15 cm				
GLEY	Ø				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Bro inin				D	
Cir arve				D	
Vic crac				A	
Sym nova				O	
Sol alti				O	
Lot corn				O	
Fes rubr				O	
Pha arun				O	
Rha cath			O		
Ran acri				R	
Cra macr			O		
Inv hele				R	
Son arve				A	
Sym lanc				R	
Lin vulg				R	
Asc syri				O	
Eut gram				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 77
DATE: Sept 17/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 12

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST: Hell tube

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Deer	SI	Browse						

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 73
	SURVEYOR(S):	DATE: Sept 20/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604149	UTMN: 4851051

±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☐ WETLAND ☐ AQUATIC	☐ ORGANIC ☐ MINERAL SOIL ☐ PARENT MIN ☐ ACIDIC BEDRK ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☐ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☐ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER ☐ SHALLOW WATER ☐ SURFICIAL DEP. ☐ BEDROCK			☐ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5-6	4	Sym lanc >> Sol alti = Vic crac > Car cris

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 10	G= 45
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Ø (cm)		
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >60 (cm)		

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Forb Mineral Meadow Marsh	MAM2-10
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

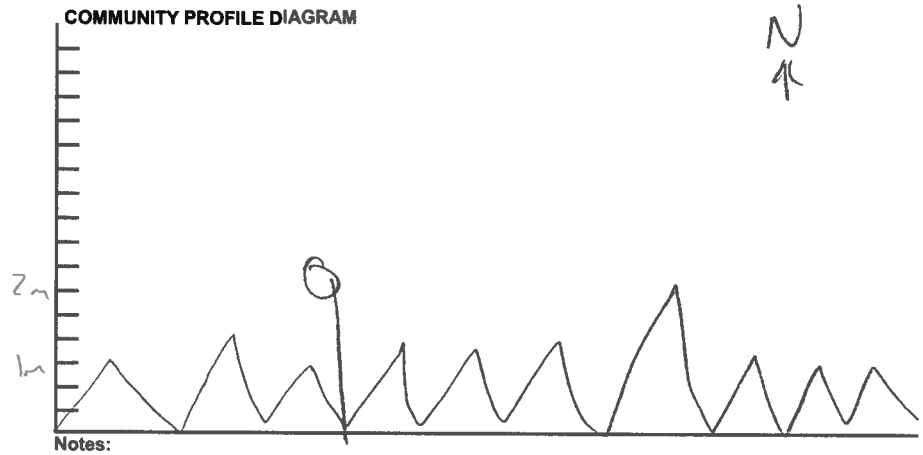
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 73
DATE: Sept 20/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			C					17		
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 30; B 30 – 60 Clay impenetrable				
A TEXTURE	C				
COURSE FRAGMENTS	Q				
B TEXTURE	C				
COURSE FRAGMENTS	Q				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Q				
SURFACE ROCKINESS	Q				
DEPTH TO / OF					
MOTTLES	10cm				
GLEY	45cm				
BEDROCK	>60				
WATER TABLE	>60				
CARBONATES	\				
DEPTH OF ORGANICS	Q				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Syn lanc				D	
Car cris				O	
Vic cra				A	
Sol alti				A	
Ent gram				O	
Agr stol				O	
Phl pratt				O	
Car vulp				O	
Agr gigan				O	
Syn nova				R	
Pha arun				O	
Ely repe				O	
Ace nego			R		
Rhu cath			R		
Rum crisp				R	
Amb artc				R	
Tri hybr				R	
Cir arve				R	
Jun dud				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

Page ..... of .....

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 73
DATE: Sept 20/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Farm machinery tracks

=10

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 74	
	SURVEYOR(S): TK	DATE: Sept 20/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0602722	UTMN: 4851421	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☑ POND ☐ RIVER ☐ STREAM ☐ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☑ SHALLOW WATER ☐ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	2	Sal x rube
4	GRD. LAYER	4	4	Typ angu

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 0cm	G= 0cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 10		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >50		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-1
INCLUSION		
COMPLEX		

Notes: Dugout irrigation pond

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

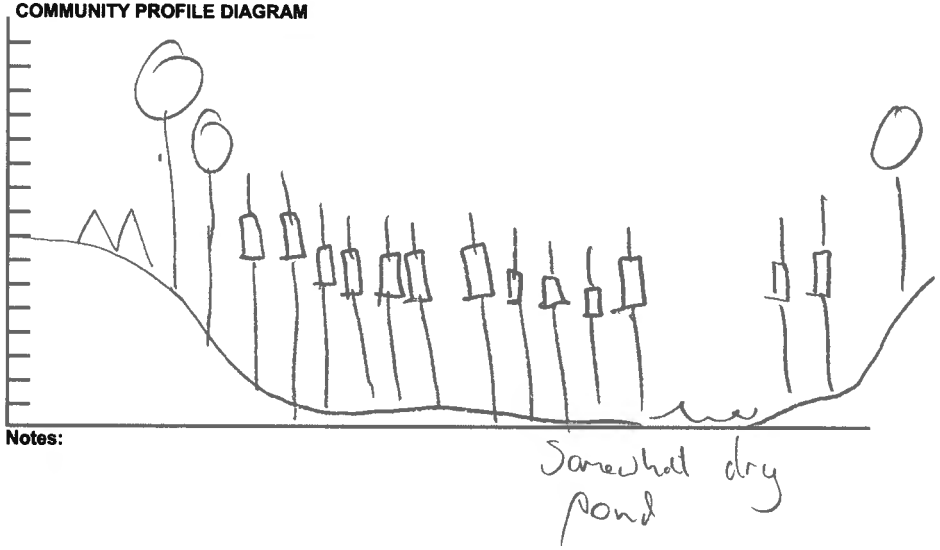
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes: Somewhat dry pond

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 74
DATE: Sept 20/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	UTM EASTING	UTM NORTHING
1	A			6					17	0603722	4851421
2											
3											
4											
5											

±4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 10cm, B 40				
A TEXTURE	O/gank (humus)				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	0 cm				
GLEY	0 cm				
BEDROCK	>50				
WATER TABLE	above surface				
CARBONATES	\				
DEPTH OF ORGANICS	10 cm				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 v. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Sal x rube			O		
Tsp angu				D	
Sym lanc				O	
Sym nova				O	
Sol alt				O	
Jun articulatus				O	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 74
DATE: Sept 20/2012
SURVEYOR(S): FK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Dugout Pond

= 14

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 75
	SURVEYOR(S): TK	DATE: Sept 20/2012	TIME: start / finish
	UTMZ: 17	UTME: 0603709	UTMN: 4852180

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE	COVER
☐ OPEN WATER	☑ OPEN
☐ SHALLOW WATER	☐ SHRUB
☑ SURFICIAL DEP.	☐ TREED
☐ BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Pon pratt > Fes rubr = Dac glom = Sol alti

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 20 cm	G= Ø
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: > 70		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
✓ INCLUSION	Cattail Mineral Shallow Marsh	MAS2-1
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

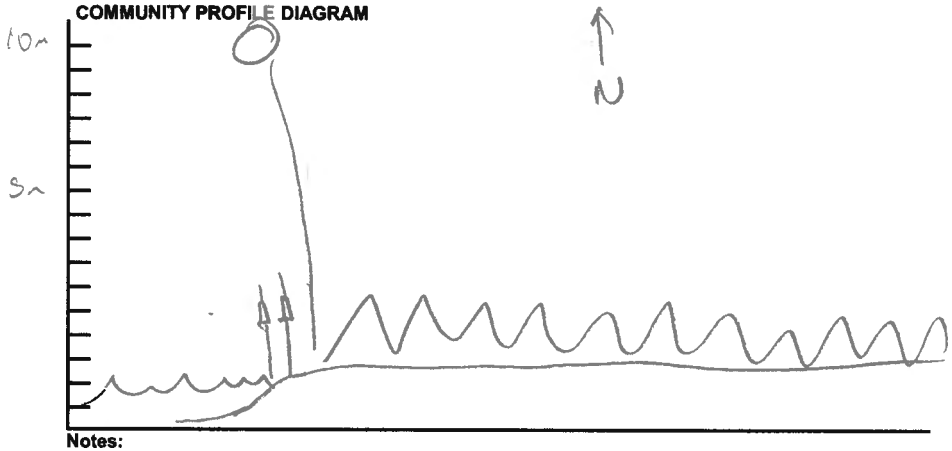
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 75
DATE: Sept 20/2017
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6-7					17	0603709	4852100 ±4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 – 35; B 35 – 70; Clay impenetrable				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	Ø				
BEDROCK	>70				
WATER TABLE	>70				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 V. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Dac glom				A	
Sym nova				O	
Poa prat				D	
Pha arun				O	
Pop delt	O		R		
Car vulp				R	
Stl alti				A	
Rha cath			R		
Sym lanc				R	
Son arve				R	
Dau caro				O	
Sch prat				O	
Fes rubra				A	
Phle prat				O	
Ely repe				O	
Cir vulg				O	
Vic crac				O	
Ect gram				R	
Sym cric				O	
Cic inty				R	
Agr giga				O	
Fra vrig				R	
Lin vulg				O	
Lot corn				R	
Ach mill				R	
Eri anu				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Sal frag	O				
Lyt sali				R	
Lem mino				O	
Lyc amer				R	
Bid fron				R	
Typ angu				D	
All riva				O	

M inc

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 75
DATE: Sept 20/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Dugout. Pond in community

ELC

WILDLIFE

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	
START TIME:	END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Mallard	OB	in Pond in north	11					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 76
	SURVEYOR(S): TK	DATE: Sept 20/2012	TIME: start / finish
	UTMZ: 17	UTME: 0603616	UTMN: 4852193 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☑ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☑ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☐ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☑ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	4	Pic abic > Pin resi > Fra pen = Pin stro
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: Pic abic 67 – Pin resi 22 – Pin stro 11 BA: 18

SIZE CLASS ANALYSIS:	O	< 10	A	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = Ø	G= Ø
MOISTURE: 2 Fresh	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 25		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Plantation	CUP
ECOSITE:	Coniferous Plantation	CUP3
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes: Minimal understory and groundcover

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

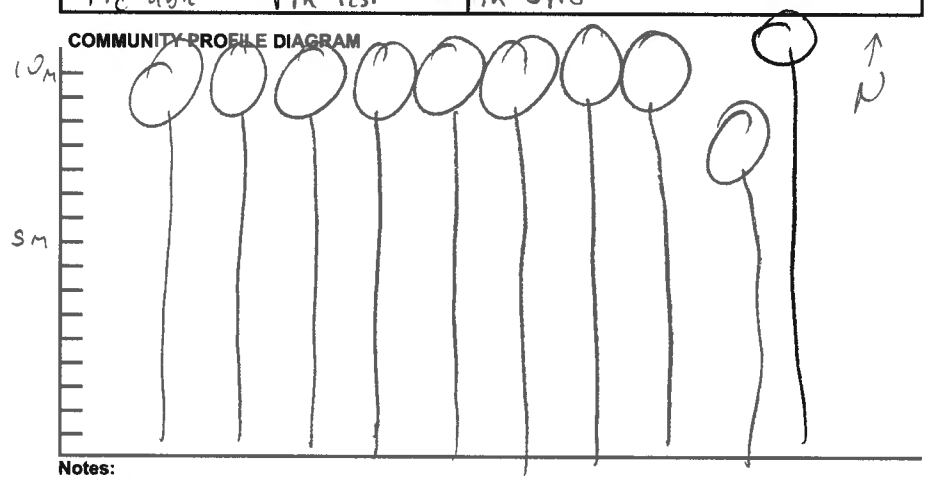
TREE TALLY BY SPECIES:

PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Pic abic	11	11	11			18	67
Pin stro		"				3	11
Pin resi		"	"			6	22
TOTAL	6	11	10			27	100
BASAL AREA (BA)	12	22	20			54	14
DEAD							

STAND COMPOSITION: Pic abic 67 – Pin resi 22 – Pin stro 11

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 76
DATE: Sept 20/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Slope Position	Aspect	%	Type	Class	UTM Z	EASTING	NORTHING
1	A			3					17	0603618	4852193 ±5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A Bedrock				
A TEXTURE	C				
COURSE FRAGMENTS	Pebbles				
B TEXTURE					
COURSE FRAGMENTS					
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	0				
SURFACE ROCKINESS	0				
DEPTH TO / OF					
MOTTLES	0				
GLEY	0				
BEDROCK	25				
WATER TABLE	0				
CARBONATES	\				
DEPTH OF ORGANICS	0				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME					
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Pin resi	A				
Fra penn	O				
Pic glau	R				
Pic abie	D				
Cam rapu				O	
Rha cath			O		
Ace nego			R		
Lon tata			R		
Sol dulc				R	
Ace plat		R			
Pin stro	O	R			
Thu occi		O			
All peti				R	
Con grac				O	
Pon prat				O	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 76
DATE: Sept 20/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	1
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

garden accessories and garbage

= 16

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 77
	SURVEYOR(S): TK	DATE: Sept 20/2014	TIME: start / finish
	UTMZ: 17	UTME: 0603567	UTMN: 4851599 ± 3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☑ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☑ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☐ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☑ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	4	Pic glau = Pin resi > Ace Sacc
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: Pin resi 47.5 – Pic glau 38 – Pop dell 6.5 – Que rubr 5 – Pin bank 3 BA: 41

SIZE CLASS ANALYSIS:	O	< 10	A	10 - 24	A	25 - 50	N	> 50
STANDING SNAGS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	R	< 10	R	10 - 24		25 - 50		> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = Ø	G= Ø
MOISTURE: 2 Fresh	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >50		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Plantation	CUP
ECOSITE:	Coniferous Plantation	CUP3
VEGETATION TYPE:	Red Pine Coniferous Plantation	CUP3-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

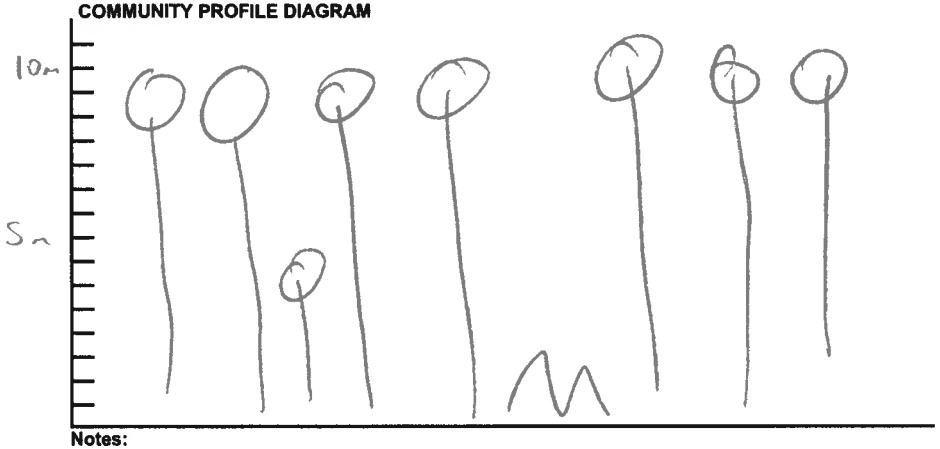
PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Pin resi	~~IIII~~ ~~IIII~~ ~~IIII~~					29	47.5
Pin bank	IIII					2	3
Que rubr	IIII	IIII				3	5
Pic glau		IIII	~~IIII~~ ~~IIII~~ IIII			23	38
Pop dell		IIII				4	6.5
TOTAL	31	8	22			61	100
BASAL AREA (BA)	62	16	44			122	41
DEAD							

STAND COMPOSITION:

Pin resi 47.5 – Pic glau 38 – Pop dell 6.5 – Que rubr 5 – Pin bank 3

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 77
DATE: Sept 20/2012
SURVEYOR(S):

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0603567	4851599
2											
3											
4											
5											

± 3m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 10, B 15, C 50 clay impervious				
A TEXTURE	Si C				
COURSE FRAGMENTS	0				
B TEXTURE	Si C				
COURSE FRAGMENTS	0				
C TEXTURE	Si C				
COURSE FRAGMENTS	0				
EFFECTIVE TEXTURE	Si C				
SURFACE STONINESS	0				
SURFACE ROCKINESS	0				
DEPTH TO / OF					
MOTTLES	0				
GLEY	0				
BEDROCK	>50				
WATER TABLE	>50				
CARBONATES	\				
DEPTH OF ORGANICS	0				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	2 Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Acc sacc	O				
Pic glau	D			D	
Pop delt	O			R	
Rha cath		R		R	
Sal x rubr	R				
Pinus bank	O				
Pin resi	D			V	
Bid vulg				R	
Bro inte				O	
Sol dulc				R	
Sym lanc				R	
Fra penn	R				
Pop tren	O				
Que rubr	O				
Sol alti				R	
Vic crac				R	
Sym nova				R	
Sym late				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 77
DATE: Sept 20/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	1
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	1
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	2
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Brush household stuff

Farm Machinery trail

= 18

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Hicn 47		POLYGON: 78
	SURVEYOR(S): TK	DATE: Sept 29/2012	TIME: start / finish
	UTMZ:	UTME: 0604201	UTMN: 4853405 ±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☑ POND ☐ RIVER ☐ STREAM ☐ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE

☐ OPEN WATER
☑ SHALLOW WATER
☐ SURFICIAL DEP.
☐ BEDROCK

COVER

☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	2	Sal int > Sal alba
4	GRD. LAYER	4	4	Typ angu

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 0cm	G= 0cm
MOISTURE: 6 very moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-1
INCLUSION		
COMPLEX		

Notes: Irrigation pond

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

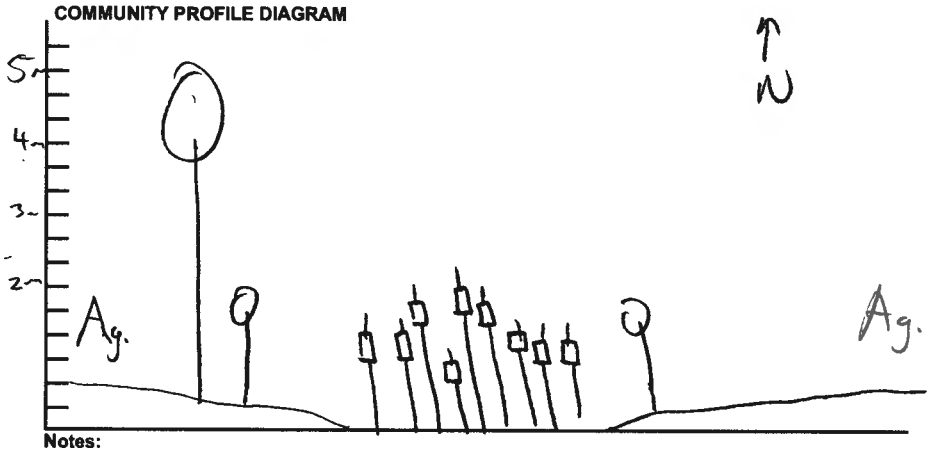
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 78
DATE: Sept 20/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Slope Aspect	%	Type	Class	UTM Z	EASTING	NORTHING
1	A			6					17	0604201	4853405 ±3m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0 ↓ 120+				
A TEXTURE	C				
COURSE FRAGMENTS					
B TEXTURE					
COURSE FRAGMENTS					
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Q				
SURFACE ROCKINESS	Q				
DEPTH TO / OF					
MOTTLES	0cm				
GLEY	0cm				
BEDROCK	>120				
WATER TABLE	50cm				
CARBONATES	\				
DEPTH OF ORGANICS	Q				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Typ angu	D				
Pop delt	R			R	
Sal inte			O		
Bid vulg				R	
Lyt salt				R	
Sun tenu				O	
Sal alba			O	O	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 78
DATE: Sept 20/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

irrigation pond

= 20

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 79
	SURVEYOR(S): TK	DATE: Sept 21/2012	TIME: start / finish
	UTMZ: 17	UTME: 0603870	UTMN: 4853458

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☑ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4	4	Phn arun > Sol alti = Sym lanc > Pan capi

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 25cm G= Ø
MOISTURE: Very Moist	DEPTH OF ORGANICS: Ø	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >60	(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Reed-canary Grass Mineral Meadow Marsh	MAM2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

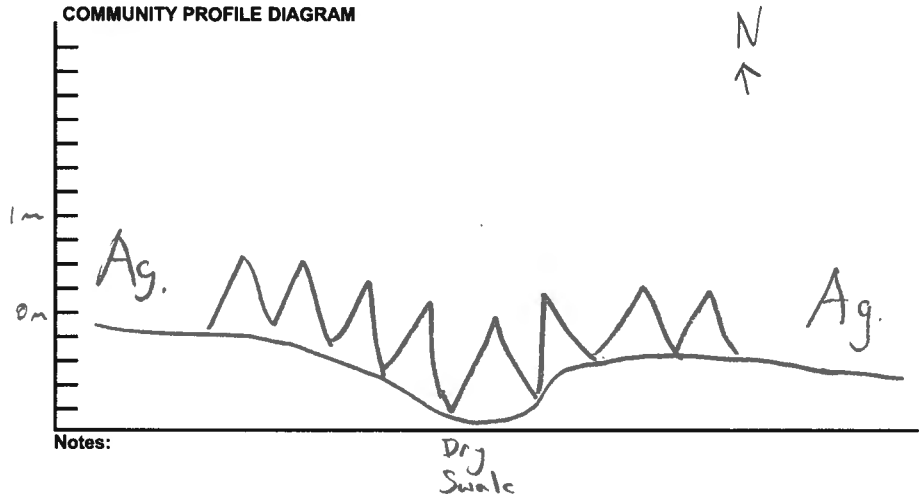
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 79
DATE: Sept 21/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0603870	4853458
2											
3											
4											
5											

± 3m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 40cm; B 40cm – 60cm; Clay impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiC				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	25cm				
GLEY	Ø				
BEDROCK	>60				
WATER TABLE	>60				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sol alti				A	
Pha arun				D	
Sym lanc				A	
Sym nova				O	
Cir arve				R	
Pan capi				A	
Lyt sali				R	
Per macu				R	
Vic crac				R	
Tri hybr				R	
Rha cath				R	
Art bien				O	
Ech crus				R	
Dau caro				R	
Set pumi				O	
Amb arte				O	
Typ lati				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 79
DATE: Sept 21/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 11

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 80
	SURVEYOR(S): TK	DATE: Sept 21/2018	TIME: start / finish
	UTMZ: 17	UTME: 0604305	UTMN: 4653492 ±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
SITE		☐ ROLL UPLAND		☐ BRYOPHYTE	☐ FEN
☐ OPEN WATER		☐ CLIFF	**COVER**	☐ DECIDUOUS	☐ BOG
☐ SHALLOW WATER		☐ TALUS	☐ OPEN	☑ CONIFEROUS	☐ BARREN
☑ SURFICIAL DEP.		☐ CREVICE / CAVE	☐ SHRUB	☐ MIXED	☐ MEADOW
☐ BEDROCK		☐ ALVAR	☑ TREED		☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☑ PLANTATION

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2-3	4	Pin stro > Pin resi
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5	3	Bro lain > Syn lanc

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: Pin stro 83 – Pin resi 17 BA: 31

SIZE CLASS ANALYSIS:	R	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 20 cm	G= Ø
MOISTURE: 6 Very moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >50		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Plantation	CUP
ECOSITE:	Coniferous Plantation	CUP3
VEGETATION TYPE:	White Pine Coniferous Plantation	CUP 3-2
INCLUSION		
COMPLEX		

Notes:
- Wet pocket killing Planted Red Pine
- Cutting occurring during field work

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

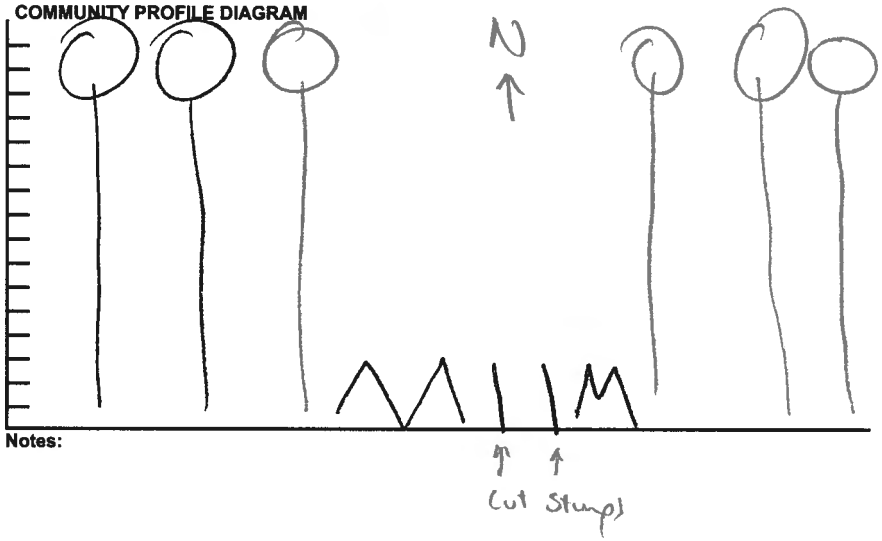
PRISM FACTOR 2

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Pin stro	𝍸 II		𝍸 𝍸			38	83%
Pin resi		𝍸				8	17%
TOTAL	16	8	22			46	100
BASAL AREA (BA)	32	16	44			92	31
DEAD							

STAND COMPOSITION:

Pin stro 83 – Pin resi 17

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 80
DATE: Sept 21/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604305	4853492 ±3m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0–20, B 20–50, clay impenetrable				
A TEXTURE	SiC				
COURSE FRAGMENTS	Q				
B TEXTURE	SiC				
COURSE FRAGMENTS	Q				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	SiC				
SURFACE STONINESS	Q				
SURFACE ROCKINESS	Q				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	Q				
BEDROCK	>50cm				
WATER TABLE	>50cm				
CARBONATES	\				
DEPTH OF ORGANICS	0				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Pin str	D				
Pin resi	D				
Sym lanc				A	
Sol alti				O	
Bro inin				A	
Que mac				R	
Sym nova				O	
Rhm cath			O		

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 80
DATE: Sept 21/2014
SURVEYOR(S): YK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	3
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	4
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	9
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 37

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 81	
	SURVEYOR(S): Tk	DATE: Sept 21/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0604352	UTMN: 485 3557	±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☑ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☑ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☐ MARSH ☑ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☐ OPEN ☐ SHRUB ☑ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	3	3	Sal X rube >> Pop delt
2	SUB-CANOPY			
3	UNDERSTOREY	4	3	Sal fuse >> Sal X rube = Rhu cath
4	GRD. LAYER	5-6	2	Ele sp. > Sym lanc = Sym nova

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	A	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 10cm	G= 60cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 80		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SW
COMMUNITY SERIES:	Deciduous Swamp	SWD
ECOSITE:	Mineral Deciduous Swamp	SWD4
VEGETATION TYPE:	Willow Mineral Deciduous Swamp	SWD4-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

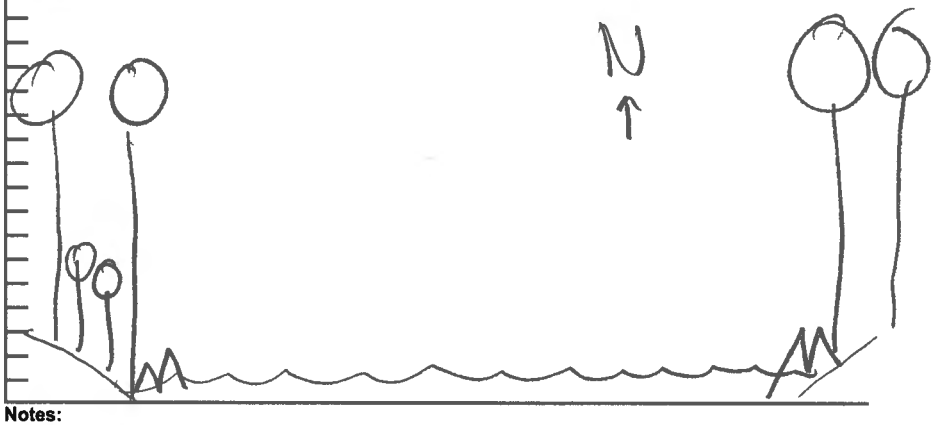
TREE TALLY BY SPECIES: n/a (Community width too thin, and stems with small DBH)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

Pond

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 81
DATE: Sept 21/2017
SURVEYOR(S): Th

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0604352	4853557 ±5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 40cm; B 40cm – 80cm; Bedrock				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Pebbles				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	10cm				
GLEY	60cm				
BEDROCK	80cm				
WATER TABLE	Ø				
CARBONATES	Y				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Lee oryz				R	
Ele sp.				O	
Typ angu				R	
Rha cath			O	O	
Sym nova				O	
Cor seri				O	
Sym lanc				O	
Pop delt	R				
Sal x rube	D	D			
Sal inte			A		
Pha arun				O	
Cut gram				R	
Equ arve				O	
Geu adop				O	
Gal sp.				R	
Sol dulc				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 81
DATE: Sept 21/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Pond is dugout

=17

ELC

WILDLIFE

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	
START TIME:	END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Kingfisher	OB		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 82
	SURVEYOR(S): Tk	DATE: Sept 21/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604769	UTMN: 485 3849 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☑ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☑ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☐ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☑ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	4	Pic abie
2	SUB-CANOPY			
3	UNDERSTOREY	4	4	Rha cath
4	GRD. LAYER	5	2	Sol alti

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: Pic abie 100	BA: 24

SIZE CLASS ANALYSIS:	R	< 10	A	10 - 24	R	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 20 cm	G= 0
MOISTURE: Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >60		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Plantation	CUP
ECOSITE:	Coniferous Plantation	CUP3
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:
- Garbage throughout
- windthrow, tree death, recent cutting

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

TREE TALLY BY SPECIES:

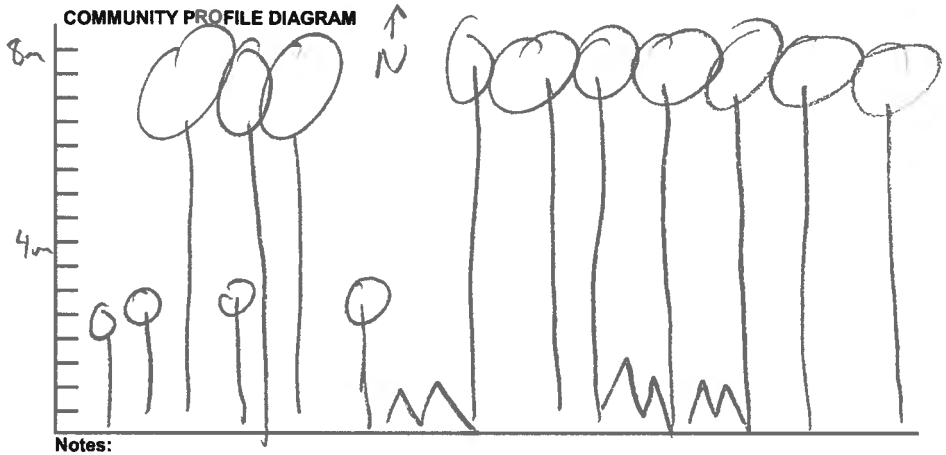
PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
Pic abie	13	12	11			26	100
TOTAL	13	12	11			26	100
BASAL AREA (BA)	26	24	22			72	24
DEAD							

STAND COMPOSITION:

Pic abie 100

COMMUNITY PROFILE DIAGRAM



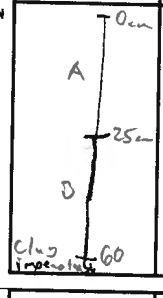
Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 82
DATE: Sept 21/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604769	4853849 ±5m
2											
3											
4											
5											



SOIL	1	2	3	4	5
TEXTURE x HORIZON	0cm A 25cm B Clay impenetrable 60				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	20cm				
GLEY	Ø				
BEDROCK	>60				
WATER TABLE	>60				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Pic abie	D				
Rha cath			D		
Leo card				O	
Sol alti				A	
Sym nova				O	
All pet				O	
Sol dulc				O	
Cir arve				O	
Tar alti				O	
Ace negu			R		

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 82
DATE: Sept 21/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	3
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	1
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	4
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

-41

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS	✓	SNAGS
	HIBERNACULA	✓	FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 83	
	SURVEYOR(S): TK	DATE: Sept 21/2012	TIME: start / finish	
	UTMZ: 17	UTME: 060445	UTMN: 4654299	±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☑ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE	COVER
☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK	☑ OPEN ☐ SHRUB ☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Typ angu = Typ lati >> Pan capi

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: N/A BA: N/A

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 3cm	G= 40cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-1
INCLUSION		
COMPLEX		

Notes: Wet pocket on edge of farm field

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

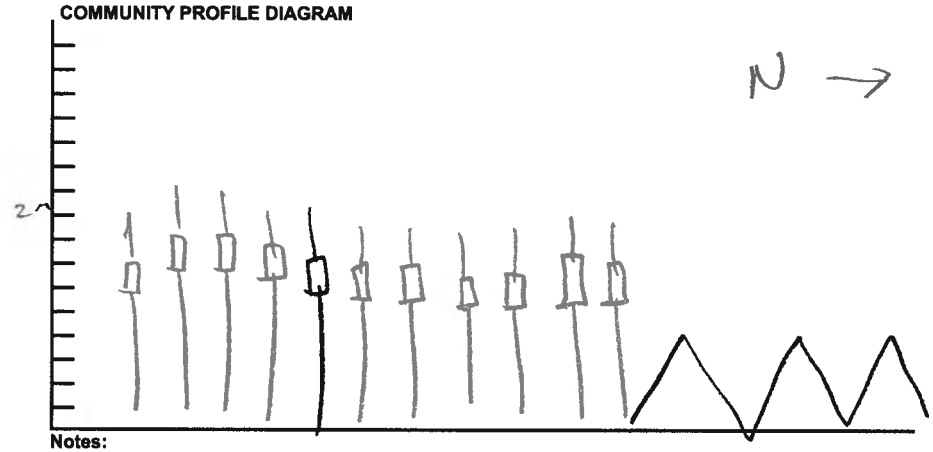
TREE TALLY BY SPECIES: N/A

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 83
DATE: Sept 21/2017
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0605396	4851648 ±3m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	0cm A 40 B				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Pebbles				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	5cm				
GLEY	40cm				
BEDROCK	>120cm				
WATER TABLE	100cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Typ lati	D				
Typ angu	D				
Per hydr				O	
Bid vulg				O	
Pan capi				A	
Agr sool				O	
Sol dulc				R	
Set pumi				R	
Cir vulg				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 83
DATE: Sept 21/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=16

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 64
	SURVEYOR(S): TR	DATE: Sept 21/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605396	UTMN: 4851648 ± 3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☑ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☐ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Pon prat > Phl prat = Sol alti = Syn nova

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 25	G= Ø
MOISTURE: G Very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >120		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

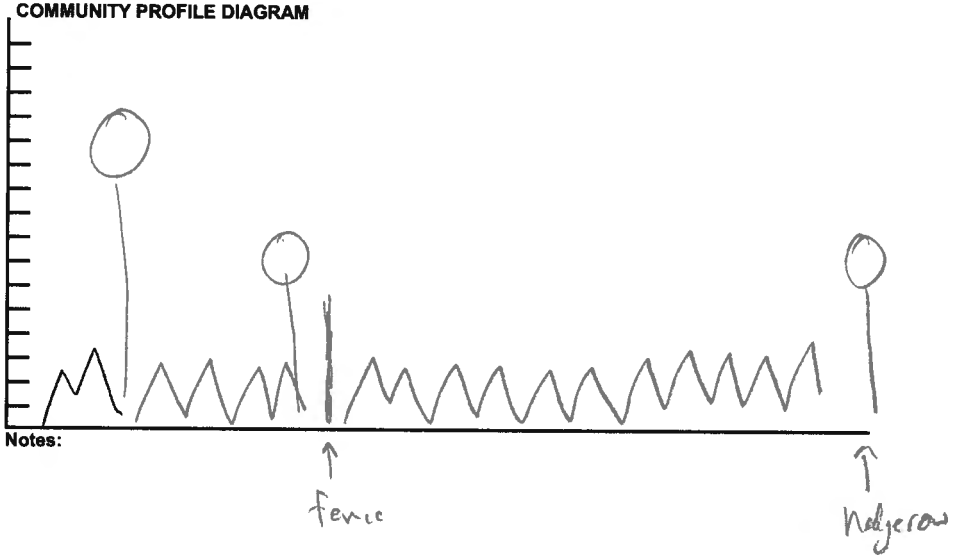
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 84
DATE: Sept 21/2012
SURVEYOR(S): TR

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	EASTING	NORTHING
1	A			3					17	0605396	4851648
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 40cm B				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	25cm				
GLEY	Ø				
BEDROCK	>120				
WATER TABLE	>120				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Phl pratt				D	
Sym novae				A	
Sym lanc				O	
Sol alti				A	
Rhu cath			R		
Agr gigas				R	
Ely repe				O	
Cir arve				R	
Pon pratt				D	
Dau caro				R	
Bro inin				O	
Cic intyb				R	
Vic cras				O	
Mal pumi		O			
Ace saccr	R				
Que robr	R				
Mel alba				R	
Hel tube				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE:
POLYGON:
DATE:
SURVEYOR(S):

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 9

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 85	
	SURVEYOR(S): TK	DATE: Sept 24/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0604580	UTMN: 4853332	± 3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☑ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☑ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5-6	4	Pha arun >> Sol alti = Sym lane

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 10	G= Ø
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >60		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Reed-Canary Grass Mineral Meadow Marsh	MAM2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

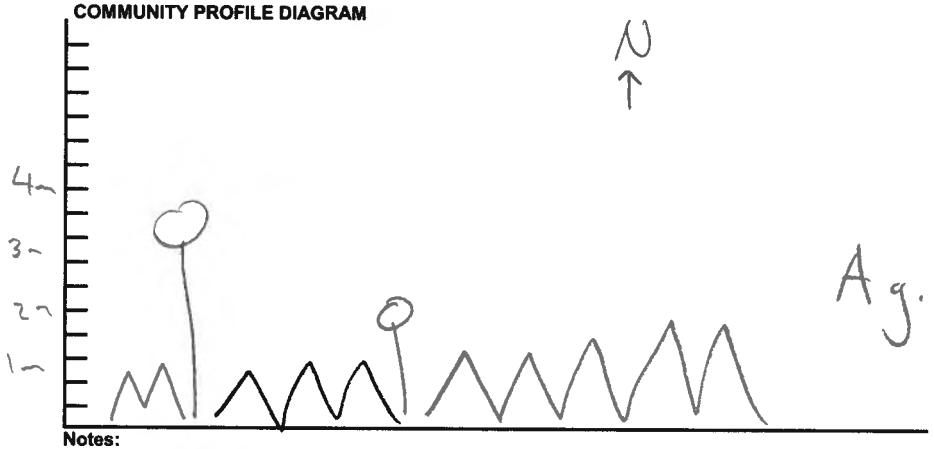
TREE TALLY BY SPECIES:

PRISM FACTOR [ ] n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 85
DATE: Sept 24/2017
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0604580	4853333
2											
3											
4											
5											

± 3m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 40cm; B 40cm – 60; Clay impenetrable				
A TEXTURE	C (Organics carried)				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	10cm				
GLEY	Ø				
BEDROCK	>60				
WATER TABLE	>60				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Thu arun				D	
Sol alti				O	
Sym lanc				O	
Rhu cath			O		
Ace negu				O	
Sal x rubr	O	O			
Bro inin				O	
Ase syri				O	
Pop delt			R		
Sym nova				R	
Bid vulg				R	
Fra penn				R	
Dau caro				R	
Typ angu				O	
Tri prat				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

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ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 85
DATE: Sept 24/2012
SURVEYOR(S): TR

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	4
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

lots of garbage

= 9

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 86
	SURVEYOR(S): TK	DATE: Sept 24/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604614	UTMN: 4853219 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☑ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☐ MARSH ☑ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			☐ OPEN ☑ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	2	Sal X rubra
2	SUB-CANOPY			
3	UNDERSTOREY	3	4	Sal eria > Sal inta
4	GRD. LAYER	7	3	Equ vari

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	A	< 10	O	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 5cm	G= 20cm
MOISTURE: G very moist	DEPTH OF ORGANICS: 5cm		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >45		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SU
COMMUNITY SERIES:	Thicket Swamp	SUT
ECOSITE:	Mineral Thicket Swamp	SUT2
VEGETATION TYPE:	Willow Mineral Thicket Swamp	SUT2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

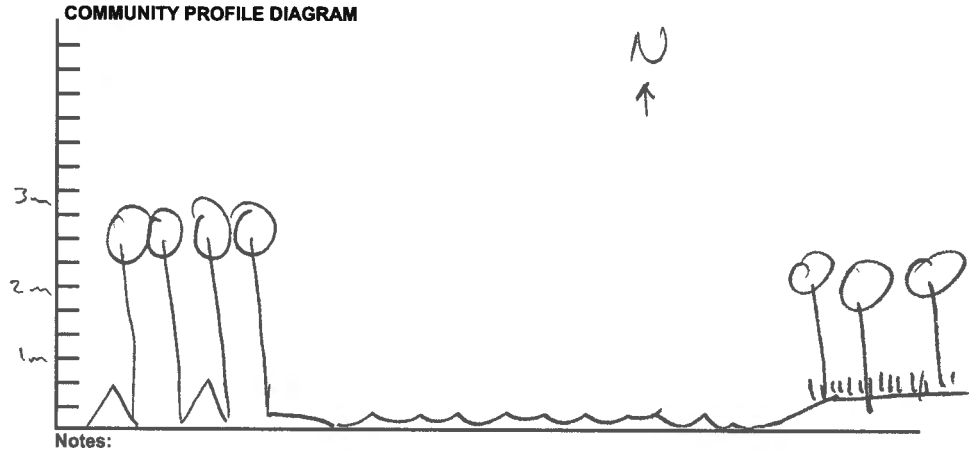
TREE TALLY BY SPECIES: n/a (willows too thin)

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 86
DATE: Sept 24/2012
SURVEYOR(S): TR

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0604614	4853219
2											
3											
4											
5											

±5m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	O -5cm, 0cm, A, 20cm, B, clay impenetrable 45cm				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	5cm				
GLEY	20cm				
BEDROCK	> 45cm				
WATER TABLE	> 45cm				
CARBONATES	\				
DEPTH OF ORGANICS	5cm (fibric)				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Sal erio			D		
Equ vari				A	
Equ arve				R	
Sal x rube	O	O			
Dau caro				R	
Cor seri			O		
Sol alti				R	
Eut gram				R	
Son arve				R	
Typ angu				R	
Sal inte			O		
Pop delt			R		
Jun dudl				R	
Agr giga				R	
Lyt sali				O	
Sym lanc				O	
Bid vulg				R	
Tar offi				R	
Cir arve				R	
Stu pect				O	
Chara sp.				O	
Lem mino				O	

→Syn. Pot pect

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Arc 47
POLYGON: 86
DATE: Sept 24/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

dugout pond

=15

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 87
	SURVEYOR(S): TK	DATE: Sept 24/2012	TIME: start / finish
	UTMZ: 17	UTME: 0606417	UTMN: 4851001 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☑ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☑ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE

☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER

☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5-6	4	Syn lanc >> Sol alti

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: N/a BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	R	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 10 cm	G= Ø
MOISTURE: C, very moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: Ø		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:	Forb Mineral Meadow Marsh	MAM2-10
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

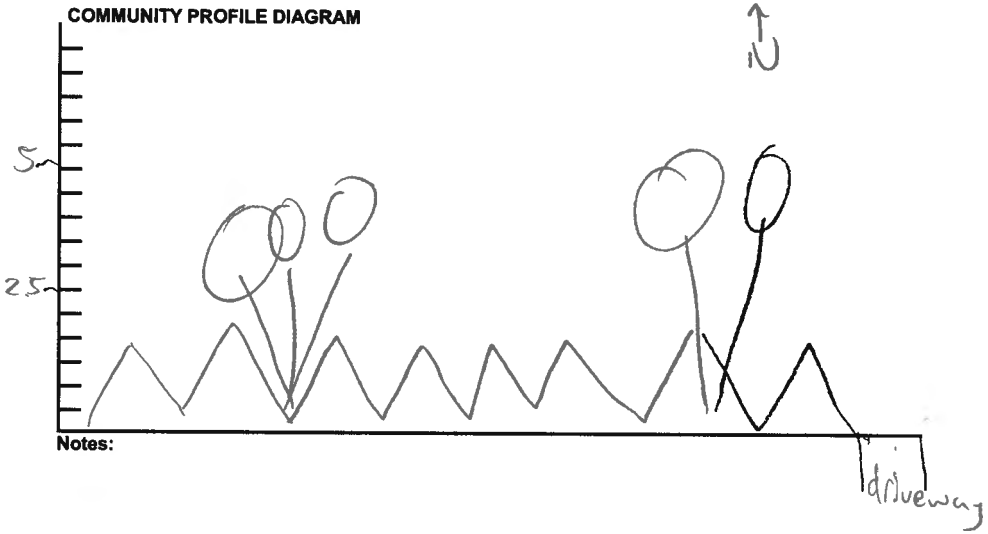
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 81
DATE: Sept 24/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0606417	4851001
2											
3											
4											
5											

±4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 40cm; B 40cm – 60cm Clay impenetrable				
A TEXTURE	C (Organics enriched)				
COURSE FRAGMENTS	Yes				
B TEXTURE	C				
COURSE FRAGMENTS	Yes				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS					
SURFACE ROCKINESS					
DEPTH TO / OF					
MOTTLES	10cm				
GLEY	Ø				
BEDROCK	>60cm				
WATER TABLE	>60cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym lanc				D	
Asc syr				R	
Car vulp				R	
Acc negu			R		
Rhn cath			R		
Fra penn			R		
Sym nova				O	
Sol alti				A	
Typ angu				O	
Phl prat				R	
Per lapa				R	
Lyt sali				O	
Eut gram				O	
Vic crac				O	
Ama retr				R	
Tar offi				R	
Amb arte				R	
Ely repe				R	
Dau caro				O	
Pha arun				O	
Lot corn				R	
Epi parv				R	
Hyp perf				R	
Cic inty				R	
Hol tube				R	
Sal inte				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 87
DATE: Sept 24/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1 Bricks
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=7

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
B	Blue Jay	OB		1					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 88
	SURVEYOR(S): TL	DATE: Sept 24/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604629	UTMN: 4852760 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE	COVER
☐ OPEN WATER	☑ OPEN
☐ SHALLOW WATER	☐ SHRUB
☑ SURFICIAL DEP.	☐ TREED
☐ BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5-6	4	Dol alt > Vic cra = Poa comp > Sol lanc

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT 2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 10	G= 0	
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0			(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 0			(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

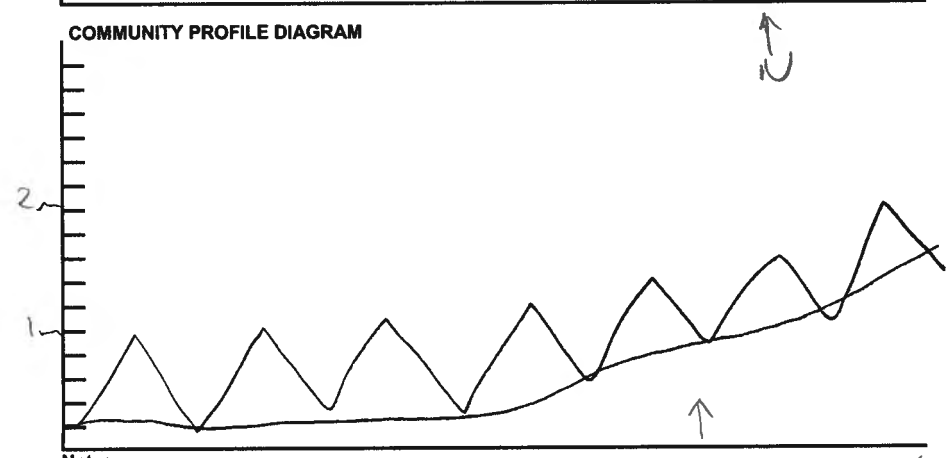
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

Slight rise from West to east

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 88
DATE: Sept 24/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			3-5					17	0604629	4852760 ± 5m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	0cm 40cm 55cm Clay impenetrable				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Yes				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	10cm				
GLEY	Ø				
BEDROCK	>55cm				
WATER TABLE	>55cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 very moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sym nova				O	
Sym lanc				A	
Lot corn				O	
Sol alti				D	
Pha arun				A	
Gev alep				R	
Asc syri				R	
Vic crac				A	
Phl prat				O	
Rum cris				R	
Poa comp				A	
Ely repe				O	
Arc mini				R	
Atr patu				R	
Tri prat				R	
Cir inty				R	
Sal inte			O		
Rha cath			O		
Dau caro				O	
Tar offi				O	
All peti				R	
Cir arve				R	
Arc lapp				R	
Dro inin				D	
Ace nogu			R		
Apr giga				R	
Son arve				R	
Amb arte				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 88
DATE: Sept 24/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	2
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 13

Some horse pasturing

ELC

WILDLIFE

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	
START TIME:	END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 89
	SURVEYOR(S): Tk	DATE: Sept 24/2014	TIME: start / finish
	UTMZ: 17	UTME: 0605946	UTMN: 4853150

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☑ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☐ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Sol altl > Dau carc = Poa prat = Syn lan

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: c	DEPTH TO MOTTLES / GLEY	g = 35	G= ∅
MOISTURE: 5 Moist	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: ∅		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist old Field Meadow	CUM1-1
✓ INCLUSION	Mineral Meadow Marsh	MAM2
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

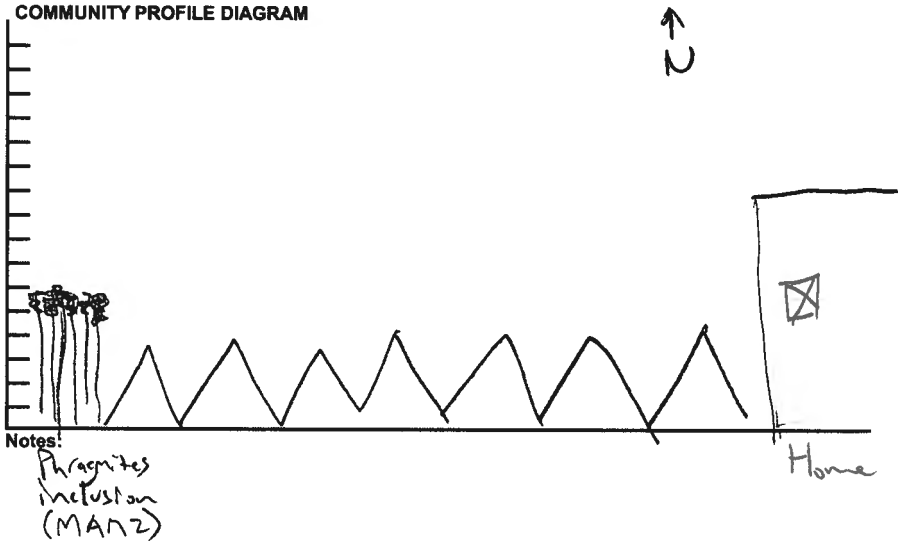
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes: Phragmites inclusion (MAM2)

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 89
DATE: Sept 24/2012
SURVEYOR(S): Tk

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			0-7					17	0605946	4853180
2											
3											
4											
5											

± 4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 35cm; B 35cm – 55cm; Clay impenetrable				
A TEXTURE	C (Organics enriched)				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	35 cm				
GLEY	Ø				
BEDROCK	>55 cm				
WATER TABLE	>55 cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sol alti				D	
Sym nova				O	
Sym lanc				A	
Rum cris				O	
Dan caro				A	
Poa prat				A	
Geu calep				O	
Eri ann				R	
Cir arve				O	
Vic cra				O	
Agr stol				R	
Amb arte				R	
Pla maj				O	
Conyza can				R	
Lin vulg				R	
Tri hyb				R	
Lot corn				R	
Med lupu				R	
Bid from				R	
Epi parv				O	
Ely repe				R	
Cir arve				R	
Med sati				R	
Rub stri				R	

SPECIES CODE	LAYER 1	2	3	4	COL.
Epi parv				O	
Sym lanc				R	
Sun effu				R	
Eut gram				R	
Car retr				R	
Tha gust				D	

MAI INC

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 89
DATE: Sept 24/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	4
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=14

ELC

WILDLIFE

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	
START TIME:	END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 90	
	SURVEYOR(S): TK	DATE: Sept 20/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0603217	UTMN: 4853252	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☑ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☐ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☑ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☐ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER			☑ OPEN		
☐ SHALLOW WATER			☐ SHRUB		
☑ SURFICIAL DEP.			☐ TREED		
☐ BEDROCK					

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Pas sati > Bro inim > Clr arve = Ase syli

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiC	DEPTH TO MOTTLES / GLEY	g = 35	G= 0
MOISTURE: 5 Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >70		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 90
DATE: Sept 20/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Slope Position	Aspect	%	Type	Class	UTM Z	EASTING	NORTHING
1	A			5					17	0603217	4853252
2											
3											
4											
5											

± 4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	0 A 40 B 70 clay impermeable				
A TEXTURE	Sic (organics enriched)				
COURSE FRAGMENTS	0				
B TEXTURE	Sic				
COURSE FRAGMENTS	0				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	Sic				
SURFACE STONINESS	0				
SURFACE ROCKINESS	0				
DEPTH TO / OF					
MOTTLES	35				
GLEY	0				
BEDROCK	>70				
WATER TABLE	>70				
CARBONATES	\				
DEPTH OF ORGANICS	0				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Ely repe				O	
Pas sati				D	
Vic crac				O	
Ase syri				A	
Cir arve				A	
Bro inin				A	
Son arve				R	
Ace negu			R		
Sym lanc				O	
Poa prat				A	
Pha arun				R	
Sol alti				R	
Rha cath			O		
Lin vulg				R	
Poa comp				A	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 90
DATE: Sept 20/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 10

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 91	
	SURVEYOR(S): TK	DATE: Sept 27/2016	TIME: start / finish	
	UTMZ: 17	UTME: 0603539	UTMN: 4854126	±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-5	4	Typ angu

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Rock	DEPTH TO MOTTLES / GLEY	g = 0cm	G= 0cm
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 40		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

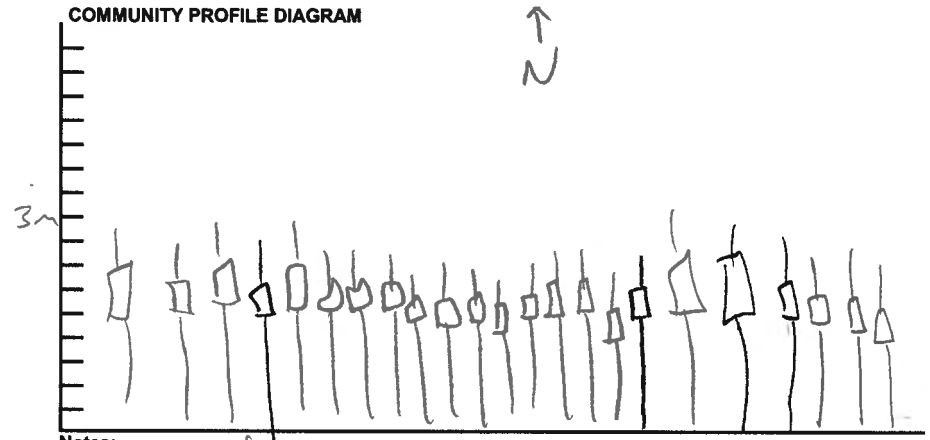
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes: edge of pond

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 41
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0603549	4854126
2											
3											
4											
5											

±3m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm–4cm; B 40cm Bedrock				
A TEXTURE	C				
COURSE FRAGMENTS	Yes				
B TEXTURE	Rock				
COURSE FRAGMENTS	Yes				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	Rock				
SURFACE STONINESS	Q				
SURFACE ROCKINESS	Q				
DEPTH TO / OF					
MOTTLES	0cm				
GLEY	0cm				
BEDROCK	40cm				
WATER TABLE	Surface				
CARBONATES	\				
DEPTH OF ORGANICS	Q				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Typ ang	D				

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 91
DATE: Sept 27/2012
SURVEYOR(S): TA

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	9
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Dugout pond

on Mayfield Road

=27

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 92	
	SURVEYOR(S): TK	DATE: Sept 27/2011	TIME: start / finish	
	UTMZ: 17	UTME:	UTMN:	

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☑ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4	4-6	Typ angu = Typ latif > Phal arun

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 0cm	G= 0cm
MOISTURE: S, Very Moist	DEPTH OF ORGANICS: 5		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 50cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

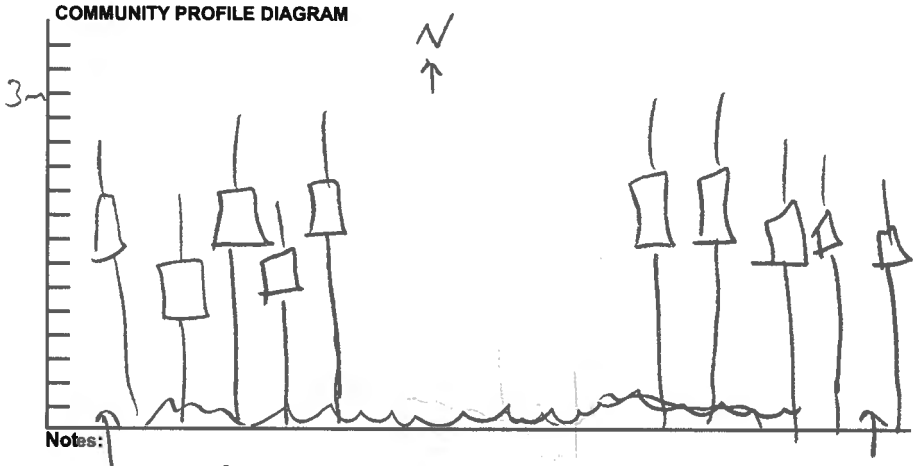
TREE TALLY BY SPECIES:

PRISM FACTOR [ ] n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

edges of pond dry

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 42
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	UTM EASTING	UTM NORTHING
1	A			6					17	0603887	4854541
2											
3											
4											
5											

±4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 5cm 0cm; B; 25cm Bedrock				
A TEXTURE	O				
COURSE FRAGMENTS	Q				
B TEXTURE	C				
COURSE FRAGMENTS	Fes				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Q				
SURFACE ROCKINESS	Q				
DEPTH TO / OF					
MOTTLES	0cm				
GLEY	0cm				
BEDROCK	30cm				
WATER TABLE	Surface				
CARBONATES	\				
DEPTH OF ORGANICS	Q				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Sch tube				R	
Typ angu				D	
Bid vulg				R	
Spi pody				D	
Ali riva				R	
Phr aust				O	
Sym lanc				O	
Phr grun				O	
Typ lati				D	
Sol dulc				O	
Typ X glau				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC
MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 92
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	2
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	1
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	4
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
NOISE	NONE	SLIGHT	MODERATE	INTENSE	
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	4
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	0

† INTENSITY x EXTENT = SCORE

Pucat Pond

=16

ELC
WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Area 47		POLYGON: 03	
SURVEYOR(S): TK	DATE: Sept 27/2012	TIME: start / finish	
UTMZ:	UTME: 0605682	UTMN: 4853363	±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☑ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-7	4	Lee orz = Ele Sp > Pha arun

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 0 cm	G= 0 cm
MOISTURE: Very Moist	DEPTH OF ORGANICS: 10 cm		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >50 cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS2
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC
STAND CHARACTERISTICS

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	

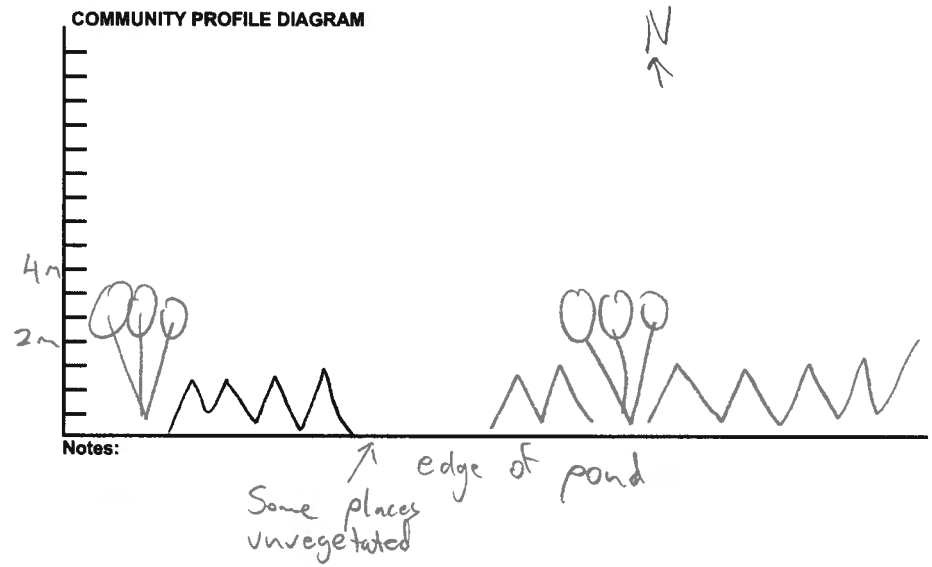
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 93
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			6					17	0605682	4853363
2											
3											
4											
5											

=5m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	O 10cm, 0cm; A 40cm clay impenetrable				
A TEXTURE	O				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	0cm				
GLEY	0cm				
BEDROCK	>50cm				
WATER TABLE	>50cm				
CARBONATES	\				
DEPTH OF ORGANICS	10cm				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE: Area 47
POLYGON: 93
DATE: Sept 27/2012
SURVEYOR(S): TK

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Lee oryz				A	
Pha arun				O	
Typ lati				O	
Sal eris			O		
Pan capi				R	
Ech crus				R	
Ele spi				A	
Chara spi				O	
Sol dulc				O	
Pot zost				R	
Sch tabe				R	
Rha cath			R		
Syn lane				R	
Sal X rube	R				
Eut gram				R	
Bid fron				R	
Ali rubu				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 93
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Dugout Pond

≥15

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 94	
	SURVEYOR(S): TK	DATE: Sept 27/2002	TIME: start / finish	
	UTMZ: 17	UTME: 0603856	UTMN: 485 2544	

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☑ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE	COVER
☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK	☑ OPEN ☐ SHRUB ☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-7	4	Elc spp > Typ latifl = Lee oryz

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Bedrock	DEPTH TO MOTTLES / GLEY	g = ∅	G= ∅
MOISTURE: Very Moist	DEPTH OF ORGANICS: 5cm		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 5cm (from Mineral soil)		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Bedrock Shallow Marsh	MAS2
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

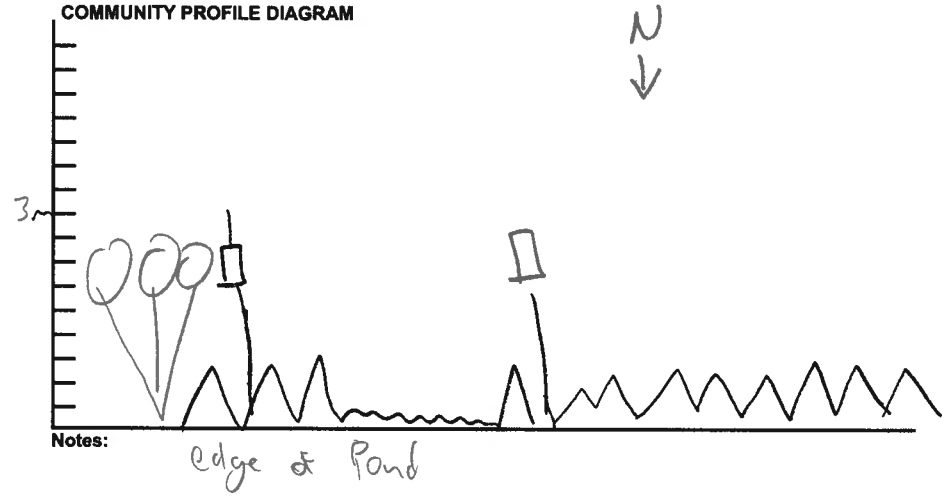
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47
	POLYGON: 94
	DATE: Sept 27/2017
	SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	UTM EASTING	UTM NORTHING
1	A			6					17	0603856	4852544 ± 4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	O 5cm A 0cm 5cm Bedrock				
A TEXTURE	O				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	Bedrock				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	0cm				
BEDROCK	5cm				
WATER TABLE	at surface				
CARBONATES	\				
DEPTH OF ORGANICS	5cm				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Ver hast				R	
Ele sp.				A	
Sal X rube			O		
Sal eri			O		
Typ lati				O	
Sag lati				R	
Lee oryz				O	
Clo chin				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 94
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	1
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9 dug out Pond
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	6 Countryside Dr.
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	1 Chew marks
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=18

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Beaver	SJ	Chew marks						
B	GBHE	OB	"	"					
B	Wood Duck	OB	Pair	"					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 95
	SURVEYOR(S): Tk	DATE: Sept 27/2011	TIME: start / finish
	UTMZ: 17	UTME: 0603787	UTMN: 4852631 ±5m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL ☐ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☐ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☑ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☑ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☐ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☑ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Bro inim > Sol altis > Asc syri

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT<10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	R	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: SiCL	DEPTH TO MOTTLES / GLEY	g = 50 cm	G= 70 cm
MOISTURE: Mod. Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: Ø		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist Old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

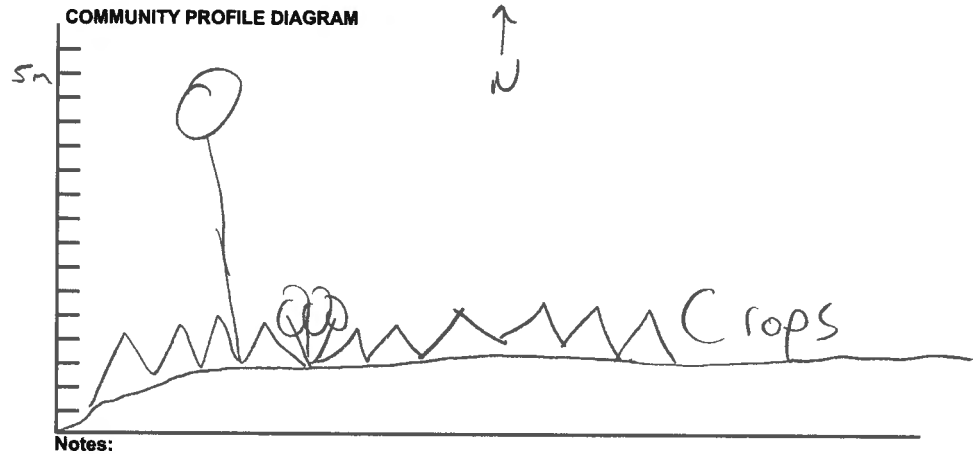
TREE TALLY BY SPECIES:

PRISM FACTOR n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

Stream

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 95
DATE: Sept 27/2012
SURVEYOR(S):

	P/A	PP	Dr	Slope Position	Aspect	%	Type	Class	UTM Z	EASTING	NORTHING	
1	A			>					17	0603787	4852631	±5m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	0cm A 15cm B 70cm C				
A TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
B TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
C TEXTURE	SiCL				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	SiCL				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	50cm				
GLEY	Ø				
BEDROCK	>120cm				
WATER TABLE	>120cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	4 Mod Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Bro ikin				D	
Rub stri			R		
Rub occi			O		
Sug nigr			O		
Abu theo				R	
Sym paren				O	
Sol dulc				O	
Cir arve				O	
Sol alti				A	
Pea prat				O	
Vib opul				R	
Ely repe				R	
Oem blem				R	
Vit riper				R	
Cor seri				R	
Mor alba				R	
Arc minus				R	
Ace negu				R	
Par inse				R	
Sym lanc				R	
Epi parv				R	
Pas sati				R	
Ech loba				R	
Phe arun				R	
Khu cath				R	
Son arve				O	
Asc syri				A	
Ulm pum				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 95
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	3
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

-13

ELC

WILDLIFE

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	
START TIME:	END TIME:

TEMP (ºC):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):

B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 46
	SURVEYOR(S): Tk	DATE: Sept 27/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604162	UTMN: 4855490 ±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☑ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☑ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Typ angu >> Pan capi

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 5 cm	G= 15 cm
MOISTURE: 6 very Moist	DEPTH OF ORGANICS: 3 cm		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >40 cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

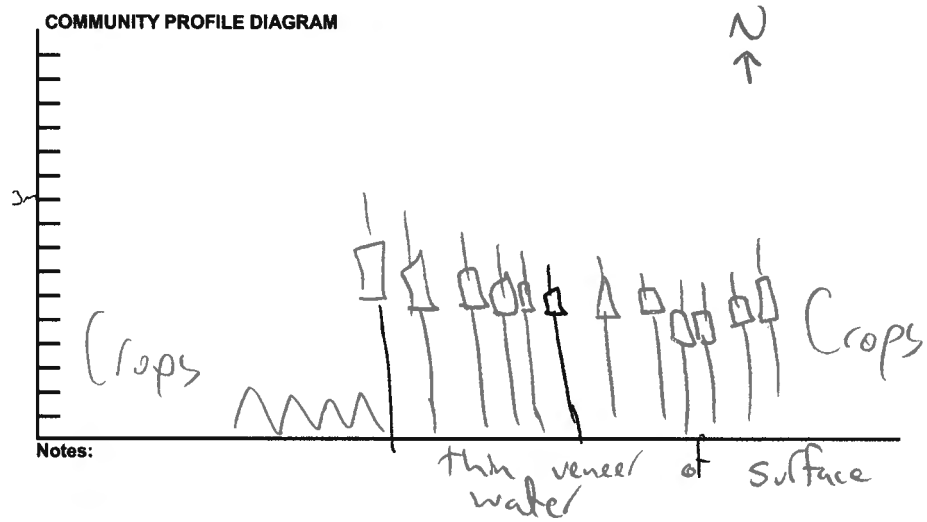
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



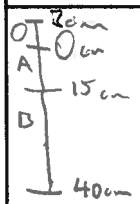
Notes:

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 46
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	UTM EASTING	UTM NORTHING
1	A			6					17	0604162	4852490
2											
3											
4											
5											

±3m

SOIL	1	2	3	4	5
TEXTURE x HORIZON					
A TEXTURE	O				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE	C				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	5 cm				
GLEY	15 cm				
BEDROCK	Ø				
WATER TABLE	at surface				
CARBONATES	/				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	/				
PORE SIZE DISC #2	/				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Typ angu				D	
Ech crus				R	
Pan capi				O	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE:
POLYGON:
DATE:
SURVEYOR(S):

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER farm machinery activity	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT around	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

=16

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 97
	SURVEYOR(S): TK	DATE: Sept 27/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605816	UTMN: 4853401 ±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☑ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☐ MIXED	☐ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☑ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE

☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER

☐ OPEN
☑ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	3	Rha cath >> Mal pumi
4	GRD. LAYER	4-5	4	Bro inu > Sol alti

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	O	< 10	A	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER		YOUNG	✓	MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = ∅	G= ∅
MOISTURE: 2 Fresh	DEPTH OF ORGANICS: ∅		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >50		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural Thicket	CUT
ECOSITE:	Mineral Cultural Thicket	CUTI
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

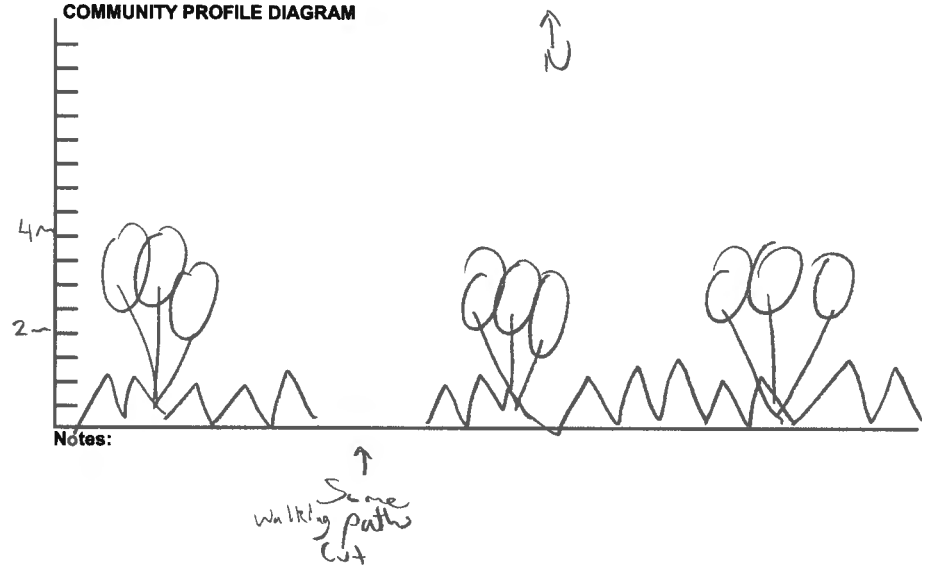
TREE TALLY BY SPECIES:

PRISM FACTOR ☐ n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 97
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	UTM EASTING	UTM NORTHING
1	A			1, 7					17	0605816	4853401
2											
3											
4											
5											

±4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm, B 20cm, 50cm Clay impenetrable				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	>50cm				
GLEY	>50cm				
BEDROCK	>50cm				
WATER TABLE	>50cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	2 Fresh				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Mal pumi			R		
Cir arve				O	
Rha cath			D		
Bro inta				D	
Vic crac				O	
Ace syri				O	
Sol alti				A	
Ace negu			R		
Sym nova				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 97
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	>30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	4
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 20

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 98	
	SURVEYOR(S): TK	DATE: Sept 27/2012	TIME: start / finish	
	UTMZ: 17	UTME: 060425	UTMN: 485 0616	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☑ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☐ OPEN ☐ SHRUB ☑ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY	2	3	Sal x nig >> Fra pen
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	3	All riv > Sol dulc > Typ angu

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 5cm	G= 15cm
~~MOISTURE~~: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
~~HOMOGENEOUS~~ / VARIABLE	DEPTH TO BEDROCK: 60cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SW
COMMUNITY SERIES:	Deciduous Swamp	SWD
ECOSITE:	Mineral Deciduous Swamp	SWD4
VEGETATION TYPE:	Willow Mineral Deciduous Swamp	SWD4-7
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

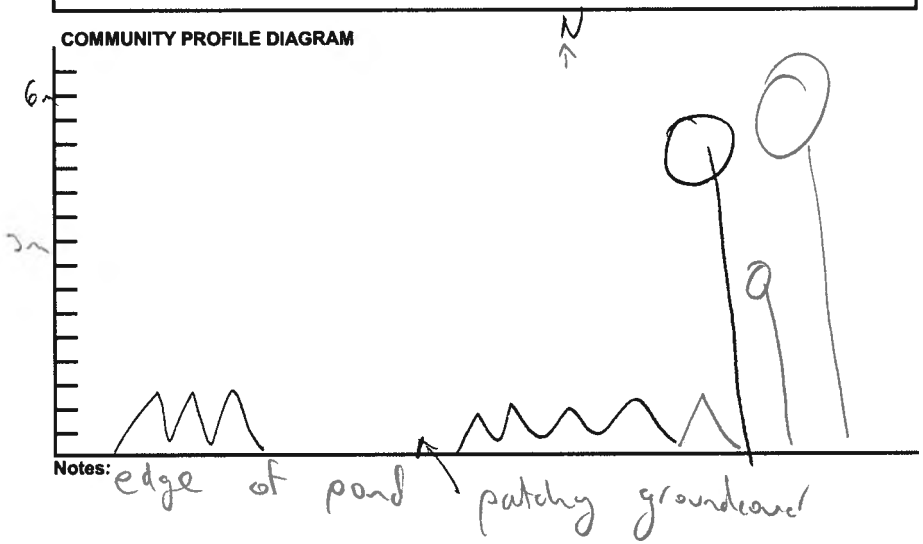
TREE TALLY BY SPECIES:

PRISM FACTOR n/a (tree cover not enough)

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes: edge of pond patchy groundcover

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 98
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Slope Type	Slope Class	UTM Z	EASTING	NORTHING
1	A			6					17	0604525	4850616
2											
3											
4											
5											

±4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 15cm; B 60cm – Bedrock				
A TEXTURE	C				
COURSE FRAGMENTS	Pebbles				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	5cm				
GLEY	15cm				
BEDROCK	60cm				
WATER TABLE	at surface				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Rum crispus				O	
Sal x rubens	O		O		
Ech crus				O	
All rivale				D	
Sym lanc				R	
Amb artem				R	
Typ angus				O	
Sol dulc				A	
Pan capi				O	
Bid vulg				O	
Rhu cath			R		
Fra penn	R				
Jug nigr		R			
Acc nivel				R	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 98
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

dugout pond

= 20

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C): CLOUD (10th): WIND: PRECIPITATION:
CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 99	
	SURVEYOR(S): Tk	DATE: Sept 27/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0604589	UTMN: 4850646	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☑ TERRESTRIAL	☐ ORGANIC	☐ LACUSTRINE	☐ NATURAL	☐ PLANKTON	☐ LAKE
☐ WETLAND	☑ MINERAL SOIL	☐ RIVERINE	☑ CULTURAL	☐ SUBMERGED	☐ POND
☐ AQUATIC	☐ PARENT MIN.	☐ BOTTOMLAND		☐ FLOATING-LVD.	☐ RIVER
	☐ ACIDIC BEDRK.	☐ TERRACE		☐ GRAMINOID	☐ STREAM
	☐ BASIC BEDRK.	☐ VALLEY SLOPE		☐ FORB	☐ MARSH
	☐ CARB. BEDRK.	☑ TABLELAND		☐ LICHEN	☐ SWAMP
		☐ ROLL. UPLAND		☐ BRYOPHYTE	☐ FEN
		☐ CLIFF		☐ DECIDUOUS	☐ BOG
		☐ TALUS		☐ CONIFEROUS	☐ BARREN
		☐ CREVICE / CAVE		☑ MIXED	☑ MEADOW
		☐ ALVAR			☐ PRAIRIE
		☐ ROCKLAND			☐ THICKET
		☐ BEACH / BAR			☐ SAVANNAH
		☐ SAND DUNE			☐ WOODLAND
		☐ BLUFF			☐ FOREST
					☐ PLANTATION

SITE	COVER
☐ OPEN WATER	☑ OPEN
☐ SHALLOW WATER	☐ SHRUB
☑ SURFICIAL DEP.	☐ TREED
☐ BEDROCK	

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4-6	4	Bro inim = Sol alti > Pha arun

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 35cm	G=
MOISTURE: S Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >50		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Cultural	CU
COMMUNITY SERIES:	Cultural meadow	CUM
ECOSITE:	Mineral Cultural Meadow	CUM1
VEGETATION TYPE:	Dry-Moist old Field Meadow	CUM1-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

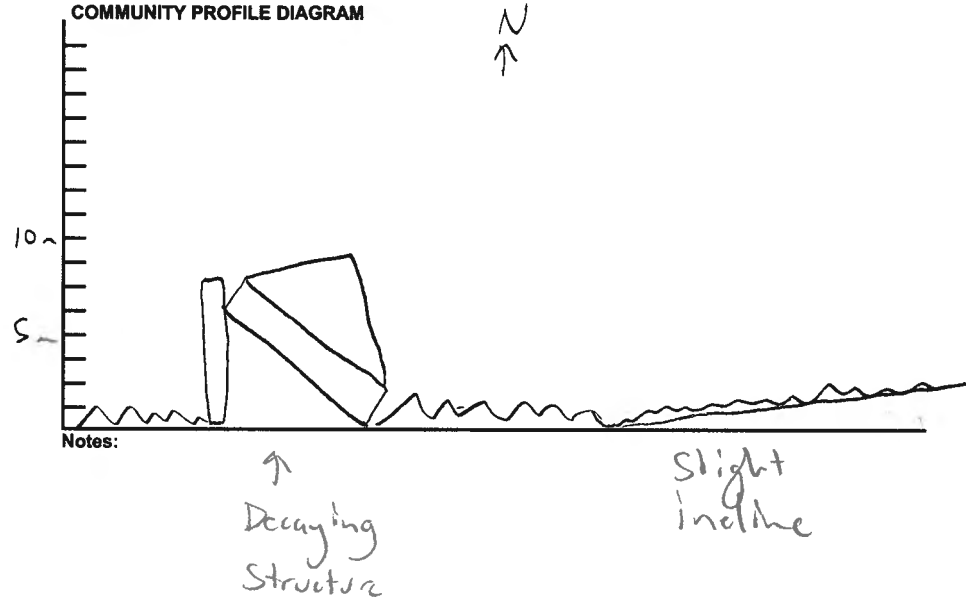
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 99
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A			7					17	0604589	4850646 ± 4m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm, 30cm, B 50cm clay impenetrable				
A TEXTURE	C (organics enriched)				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	35				
GLEY	Ø				
BEDROCK	>50cm				
WATER TABLE	>50cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	5 Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Bro inim				D	
Phn arun				A	
Rhn cath			O		
Ace negu	O		O		
Sol alti				D	
Sym lanc				O	
Cir arve				O	
Sym nova				R	
Vic crac				O	
Arc mini				R	
Ely repe				O	
Poa prat				O	
Fra penn	O				
Cra macr			O		
Rum cris				R	
Dau caro				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 11
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	3
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

Decaying structure

† INTENSITY x EXTENT = SCORE

=15

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC
COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Area 47		POLYGON: 100	
SURVEYOR(S): Tk	DATE: Sept 27/2012	TIME: start / finish	
UTMZ: 17	UTME: 0604525	UTMN: 4850616	±4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☐ WETLAND ☑ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☑ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☑ POND ☐ RIVER ☐ STREAM ☐ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE
☑ OPEN WATER
☐ SHALLOW WATER
☐ SURFICIAL DEP.
☐ BEDROCK

COVER
☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	7	3	Lem min

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 5	G= 15
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 60		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Shallow Water	SA
COMMUNITY SERIES:	Floating-leaved Shallow Aquatic	SAF
ECOSITE:	Floating-leaved Shallow Aquatic	SAF1
VEGETATION TYPE:	Duckweed Floating-leaved Shallow Aquatic	SAF1-3
INCLUSION		
COMPLEX		

Notes:

ELC
STAND CHARACTERISTICS

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	

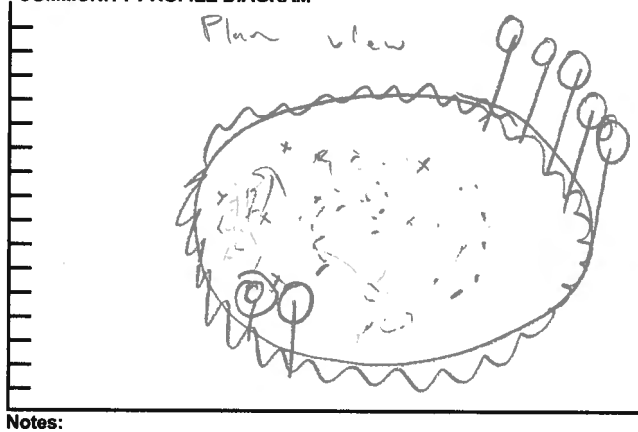
TREE TALLY BY SPECIES: n/a

PRISM FACTOR

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 27
POLYGON: 100
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Slope Position	Slope Aspect	Slope %	Slope Type	Slope Class	UTM Z	UTM EASTING	UTM NORTHING
1	A			6					17	0604525	4850616
2											
3											
4											
5											

±4m

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0–15; B 15–60 Bedrock				
A TEXTURE	C				
COURSE FRAGMENTS	Pebbles				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	5cm				
GLEY	15cm				
BEDROCK	60cm				
WATER TABLE	at surface				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
hem mhe				D	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE:
POLYGON:
DATE:
SURVEYOR(S):

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	6
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Dugout Pond

=11

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 101	
	SURVEYOR(S): TK	DATE: Sept 27/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0605226	UTMN: 4854658	± 4m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☐ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	4	4	Typ latifolia = Typ angus >> Lem minor

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	R	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE ● = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: no access	DEPTH TO MOTTLES / GLEY	g =	G=
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MH
COMMUNITY SERIES:	Shallow Marsh	MAS
ECOSITE:	Mineral Shallow Marsh	MAS2
VEGETATION TYPE:	Cattail Mineral Shallow Marsh	MAS2-1
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

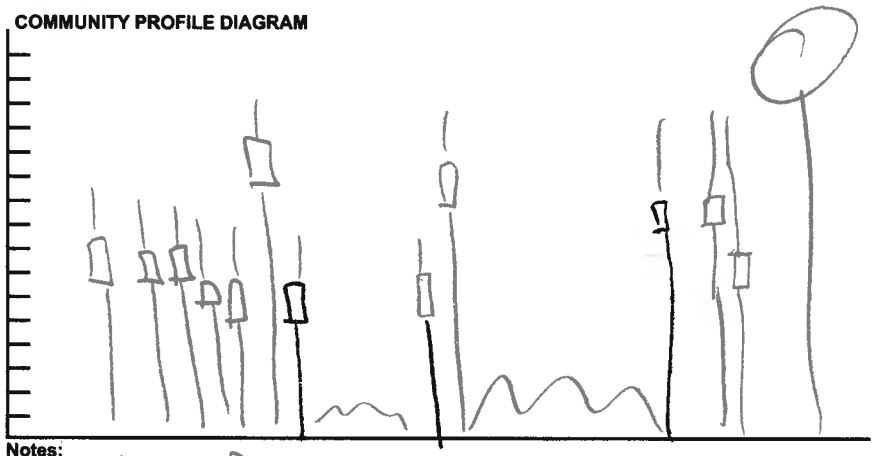
TREE TALLY BY SPECIES:

PRISM FACTOR ☐ n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

edge of pond

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 101
DATE: Sept 27/2012
SURVEYOR(S): JK

	P/A	PP	Dr	Slope Position	Slope Aspect	Slope %	Slope Type	Slope Class	Z	UTM EASTING	UTM NORTHING
1	A										
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	No access, gate surrounding pond				
A TEXTURE					
COURSE FRAGMENTS					
B TEXTURE					
COURSE FRAGMENTS					
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE					
SURFACE STONINESS					
SURFACE ROCKINESS					
DEPTH TO / OF					
MOTTLES					
GLEY					
BEDROCK					
WATER TABLE					
CARBONATES					
DEPTH OF ORGANICS					
PORE SIZE DISC #1					
PORE SIZE DISC #2					
MOISTURE REGIME					
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Typ lati				D	
Typ angu				D	
Sal x rube			R		
Sol alti				O	
Lem minor				A	

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE:
POLYGON:
DATE:
SURVEYOR(S):

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Dupont Pond

=14

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#
M	Muskrat	OB	Swimming	"					

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 103
	SURVEYOR(S): TK	DATE: Sept 27/2012	TIME: start / finish
	UTMZ: 17	UTME: 0605397	UTMN: 4852963 ±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☐ WETLAND ☑ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☑ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☑ POND ☐ RIVER ☐ STREAM ☐ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE ☐ OPEN WATER ☑ SHALLOW WATER ☐ SURFICIAL DEP. ☐ BEDROCK			**COVER** ☑ OPEN ☐ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	7	4	Lem mno = Wol bore = Wol columb

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 0cm	G= 5cm
MOISTURE: 6 Very moist	DEPTH OF ORGANICS: 8		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >35cm		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Shallow Water	SA
COMMUNITY SERIES:	Floating-leaved Shallow Aquatic	SAF
ECOSITE:	Floating-leaved Shallow Aquatic	SAFI
VEGETATION TYPE:	Duckweed Floating-leaved Shallow Aquatic	SAFI-3
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

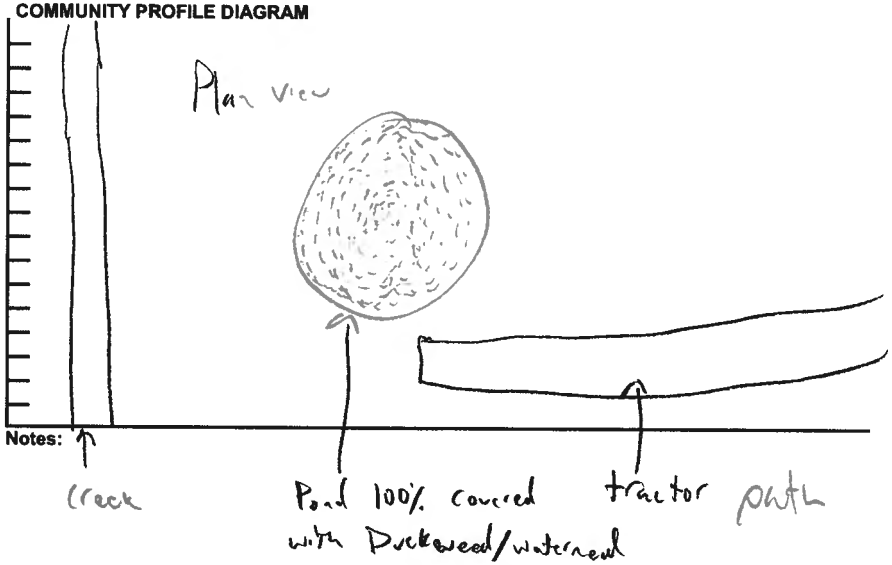
TREE TALLY BY SPECIES:

PRISM FACTOR ☐ n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 103
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A			6					17	0605397	4852963	±3m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	O 30cm A 5cm B 30cm Clay impermeable				
A TEXTURE	O				
COURSE FRAGMENTS	Ø				
B TEXTURE	S (coarse)				
COURSE FRAGMENTS	Ø				
C TEXTURE	C				
COURSE FRAGMENTS	Ø				
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	0cm				
GLEY	5cm				
BEDROCK	>30cm				
WATER TABLE	at surface				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Lem mino				D	
Wol bore				D	
Wol colu				D	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 103
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Dugout Pond

=9

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 104	
	SURVEYOR(S): Tk	DATE: Sept 27/2012	TIME: start / finish	
	UTMZ: 17	UTME: 0604657	UTMN: 4852396	±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☑ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☑ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☑ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE

☐ OPEN WATER
☐ SHALLOW WATER
☑ SURFICIAL DEP.
☐ BEDROCK

COVER

☑ OPEN
☐ SHRUB
☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	5-6	4	Agr stol = Bro inm > Ely repe > Phu aru

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION:	n/a	BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: C	DEPTH TO MOTTLES / GLEY	g = 10 cm	G= Ø
MOISTURE: 6 Very Moist	DEPTH OF ORGANICS: Ø		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >40		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Marsh	MA
COMMUNITY SERIES:	Meadow Marsh	MAM
ECOSITE:	Mineral Meadow Marsh	MAM2
VEGETATION TYPE:		
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

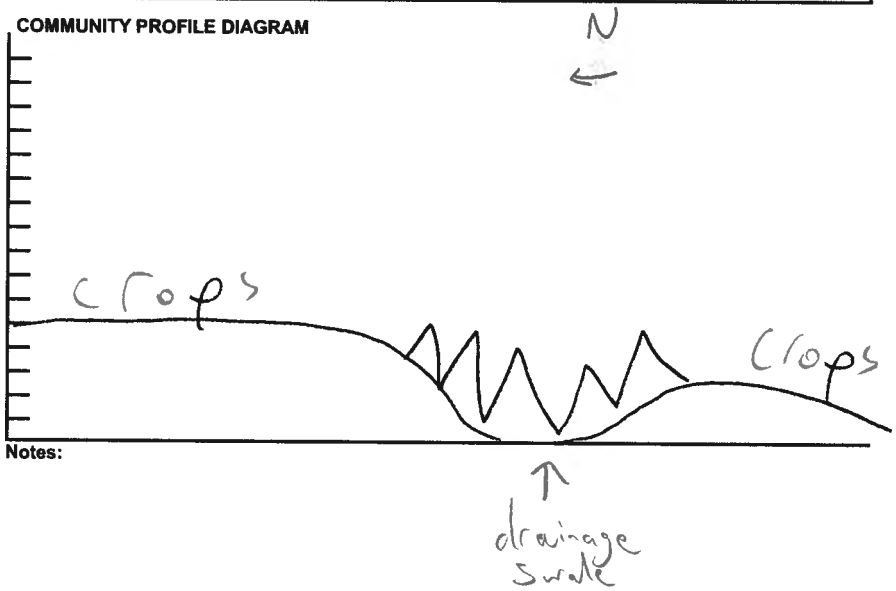
TREE TALLY BY SPECIES:

PRISM FACTOR [ ] n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes:

ELC SOILS ONTARIO	SITE: Area 47 POLYGON: 104 DATE: Sept 27/2012 SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING
1	A								17	0604657	4852396 ±3m
2											
3											
4											
5											

SOIL	1	2	3	4	5
TEXTURE x HORIZON	A 0cm – 40cm Clay Impenetrable				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE					
COURSE FRAGMENTS					
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	10cm				
GLEY	Ø				
BEDROCK	>40cm				
WATER TABLE	>40cm				
CARBONATES	\				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC PLANT SPECIES LIST	SITE: POLYGON: DATE: SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Pha arun				A	
Sch prat				O	
Sym lanc				O	
Sym hova				O	
Art bien				R	
Cir vulg				R	
Phl prat				A	
Bid vulg				O	
Ely repe				A	
Sch arun				R	
Oen bien				R	
Sol alti				O	
Cir arve				R	
Vic crac				R	
Tri hybr				R	
Dau caro				R	
Che glau				O	
Sal erio			R		
Sal x rubc			R		
Agr stol				D	
Bro inim				D	
Rum cris				O	
Epi parv				R	
Ech crus				O	
Per macu				R	

SPECIES CODE	LAYER 1	2	3	4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 104
DATE: Sept 17/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	9
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	1
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	2
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Dugout Swale

= 21

ELC

WILDLIFE

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	
START TIME:	END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 105
	SURVEYOR(S): Tk	DATE: Sept 27/2012	TIME: start / finish
	UTMZ: 17	UTME: 0604503	UTMN: 4653107 ± 3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☑ WETLAND ☐ AQUATIC	☐ ORGANIC ☑ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☑ NATURAL ☐ CULTURAL	☐ PLANKTON ☐ SUBMERGED ☐ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☑ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☐ POND ☐ RIVER ☐ STREAM ☐ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☑ PRAIRIE ☑ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION
SITE			**COVER**		
☐ OPEN WATER ☐ SHALLOW WATER ☑ SURFICIAL DEP. ☐ BEDROCK			☐ OPEN ☑ SHRUB ☐ TREED		

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY	3	3	Sal inte
4	GRD. LAYER	4	3	Typ lati = Typ angu

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a	BA: n/a

SIZE CLASS ANALYSIS:	A	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: G	DEPTH TO MOTTLES / GLEY	g = 0 cm	G= 0 cm
MOISTURE: G Very Moist	DEPTH OF ORGANICS: 0		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: 35		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Swamp	SW
COMMUNITY SERIES:	Thicket Swamp	SWT
ECOSITE:	Mineral Thicket Swamp	SWT2
VEGETATION TYPE:	Willow Mineral Thicket Swamp	SWT2-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:
	POLYGON:
	DATE:
	SURVEYOR(S):

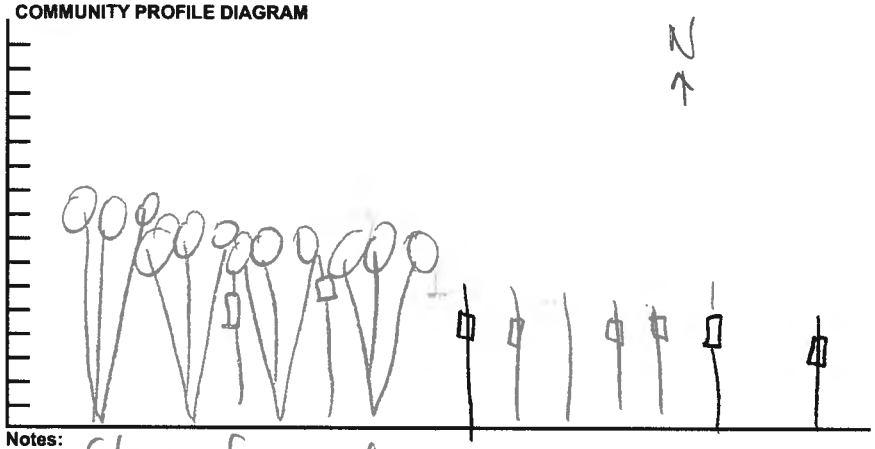
TREE TALLY BY SPECIES:

PRISM FACTOR n/a (willow too thin)

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM



Notes: Edge of pond

ELC
SOILS ONTARIO

SITE: Area 47
POLYGON: 105
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	UTM Z	EASTING	NORTHING	
1	A			6					17	0604503	4853102	±3m
2												
3												
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	0cm A 35cm Bedrock				
A TEXTURE	C				
COURSE FRAGMENTS	Ø				
B TEXTURE					
COURSE FRAGMENTS					
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	C				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	0cm				
GLEY	0cm				
BEDROCK	35cm				
WATER TABLE	10cm				
CARBONATES	/				
DEPTH OF ORGANICS	Ø				
PORE SIZE DISC #1	/				
PORE SIZE DISC #2	/				
MOISTURE REGIME	6 Very Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC
PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER
ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	2	3	4	COL.
Sal inte			D		
Typ lati				A	
Phr arun				O	
Eut gram				R	
Jun dudl				R	
Ele sp.				R	
Phl prat				R	
Typ angu				A	

SPECIES CODE	LAYER 1	2	3	4	COL.

Page ..... of .....

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 105
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	4
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	2 Brush
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9 Dugout Pond
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	0
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

= 15

ELC

WILDLIFE

SITE:
POLYGON:
DATE:
SURVEYOR(S):
START TIME: END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:

CONDITIONS:

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: Area 47		POLYGON: 106
	SURVEYOR(S): TK	DATE: Sept 21/2014	TIME: start / finish
	UTMZ: 17	UTME: 0604504	UTMN: 4853101

±3m

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
☐ TERRESTRIAL ☐ WETLAND ☑ AQUATIC	☑ ORGANIC ☐ MINERAL SOIL ☐ PARENT MIN. ☐ ACIDIC BEDRK. ☐ BASIC BEDRK. ☐ CARB. BEDRK.	☐ LACUSTRINE ☐ RIVERINE ☑ BOTTOMLAND ☐ TERRACE ☐ VALLEY SLOPE ☐ TABLELAND ☐ ROLL. UPLAND ☐ CLIFF ☐ TALUS ☐ CREVICE / CAVE ☐ ALVAR ☐ ROCKLAND ☐ BEACH / BAR ☐ SAND DUNE ☐ BLUFF	☐ NATURAL ☑ CULTURAL	☐ PLANKTON ☑ SUBMERGED ☑ FLOATING-LVD. ☐ GRAMINOID ☐ FORB ☐ LICHEN ☐ BRYOPHYTE ☐ DECIDUOUS ☐ CONIFEROUS ☐ MIXED	☐ LAKE ☑ POND ☐ RIVER ☐ STREAM ☐ MARSH ☐ SWAMP ☐ FEN ☐ BOG ☐ BARREN ☐ MEADOW ☐ PRAIRIE ☐ THICKET ☐ SAVANNAH ☐ WOODLAND ☐ FOREST ☐ PLANTATION

SITE: ☐ OPEN WATER ☑ SHALLOW WATER ☐ SURFICIAL DEP. ☐ BEDROCK

COVER: ☑ OPEN ☐ SHRUB ☐ TREED

STAND DESCRIPTION:

	LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (up to 4 sp) (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1	CANOPY			
2	SUB-CANOPY			
3	UNDERSTOREY			
4	GRD. LAYER	7	3	Stuck pect > Lem minor

HT CODES: 1 = >25 m 2 = 10<HT≤25 m 3 = 2<HT≤10 m 4 = 1<HT≤2 m 5 = 0.5<HT≤1 m 6 = 0.2<HT≤0.5 m 7 = HT<0.2 m

CVR CODES 0= NONE 1= 0% < CVR ≤ 10% 2= 10 < CVR ≤ 25% 3= 25 < CVR ≤ 60% 4= CVR > 60%

STAND COMPOSITION: n/a BA: n/a

SIZE CLASS ANALYSIS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
STANDING SNAGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50
DEADFALL / LOGS:	N	< 10	N	10 - 24	N	25 - 50	N	> 50

ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT

COMM. AGE :		PIONEER	✓	YOUNG		MID-AGE		MATURE		OLD GROWTH

SOIL ANALYSIS:

TEXTURE: Organic (Muck)	DEPTH TO MOTTLES / GLEY	g = 0	G= 0cm
~~MOISTURE:~~ → Mod. wet	DEPTH OF ORGANICS: 40		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK: >70 (from mineral)		(cm)

COMMUNITY CLASSIFICATION:

		ELC CODE
COMMUNITY CLASS:	Shallow Water	SA
COMMUNITY SERIES:	Mixed Shallow Aquatic	SAM
ECOSITE:	Mixed Shallow Aquatic	SAM1
VEGETATION TYPE:	Pondweed Mixed Shallow Aquatic	SAM1-2
INCLUSION		
COMPLEX		

Notes:

ELC STAND CHARACTERISTICS	SITE:	
	POLYGON:	
	DATE:	
	SURVEYOR(S):	

TREE TALLY BY SPECIES:

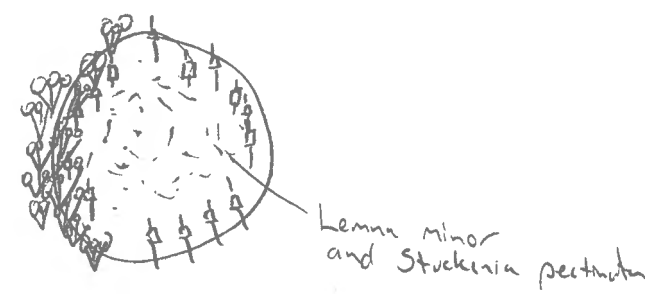
PRISM FACTOR: n/a

SPECIES	TALLY 1	TALLY 2	TALLY 3	TALLY 4	TALLY 5	TOTAL	REL. AVG
TOTAL							100
BASAL AREA (BA)							
DEAD							

STAND COMPOSITION:

COMMUNITY PROFILE DIAGRAM

Plan view



Notes:

ELC

SOILS ONTARIO

SITE: Area 47
POLYGON: 106
DATE: Sept 27/2012
SURVEYOR(S): TK

	P/A	PP	Dr	Position	Aspect	Slope %	Type	Class	Z	UTM EASTING	UTM NORTHING	
1	A								17	0604504	4853101	± 3m
2												
3												Sym. Pot pect
4												
5												

SOIL	1	2	3	4	5
TEXTURE x HORIZON	O 0cm – 40cm; A 20 Clay impenetrable				
A TEXTURE	O (humic)				
COURSE FRAGMENTS	Ø				
B TEXTURE	C				
COURSE FRAGMENTS	Ø				
C TEXTURE					
COURSE FRAGMENTS					
EFFECTIVE TEXTURE	O (humic)				
SURFACE STONINESS	Ø				
SURFACE ROCKINESS	Ø				
DEPTH TO / OF					
MOTTLES	Ø				
GLEY	0cm				
BEDROCK	> 20cm (From mineral)				
WATER TABLE	at surface				
CARBONATES	\				
DEPTH OF ORGANICS	40cm				
PORE SIZE DISC #1	\				
PORE SIZE DISC #2	\				
MOISTURE REGIME	7 Mod. Moist				
SOIL SURVEY MAP					
LEGEND CLASS					

ELC

PLANT SPECIES LIST

SITE:
POLYGON:
DATE:
SURVEYOR(S):

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.
Stu pect				D	
Lem mino				A	
* Polygon 102					
Typha sp	D				
Willow (lubensi)	O				

SPECIES CODE	LAYER 1	LAYER 2	LAYER 3	LAYER 4	COL.

ELC

MANAGEMENT / DISTURBANCE

SITE: Area 47
POLYGON: 106
DATE: Sept 27/2012
SURVEYOR(S): TK

DISTURBANCE / EXTENT	0	1	2	3	SCORE †
TIME SINCE LOGGING	> 30 YRS	15 - 30 YRS	5 - 15 YRS	0 - 5 YEARS	0
INTENSITY OF LOGGING	NONE	FUEL WOOD	SELECTIVE	DIAMETER LIMIT	0
EXTENT OF LOGGING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
SUGAR BUSH OPERATIONS	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF OPERATIONS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
GAPS IN FOREST CANOPY	NONE	SMALL	INTERMEDIATE	LARGE	0
EXTENT OF GAPS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
LIVESTOCK (GRAZING)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF LIVESTOCK	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ALIEN SPECIES	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF ALIEN SPECIES	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
PLANTING (PLANTATION)	NONE	OCCASIONAL	ABUNDANT	DOMINANT	0
EXTENT OF PLANTING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
TRACKS AND TRAILS	NONE	FAINT TRAILS	WELL MARKED	TRACKS OR	0
EXTENT OF TRACKS/TRAILS	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DUMPING (RUBBISH)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DUMPING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
EARTH DISPLACEMENT	NONE	LIGHT	MODERATE	HEAVY	9
EXTENT OF DISPLACEMENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
RECREATIONAL USE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF RECR. USE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
NOISE	NONE	SLIGHT	MODERATE	INTENSE	1
EXTENT OF NOISE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
DISEASE/DEATH OF TREES	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF DISEASE / DEATH	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
WIND THROW (BLOW DOWN)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF WIND THROW	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BROWSE (e.g. DEER)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BROWSE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
BEAVER ACTIVITY	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF BEAVER	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FLOODING (pools & puddling)	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FLOODING	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
FIRE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF FIRE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
ICE DAMAGE	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT OF ICE DAMAGE	NONE	LOCAL	WIDESPREAD	EXTENSIVE	
OTHER	NONE	LIGHT	MODERATE	HEAVY	0
EXTENT	NONE	LOCAL	WIDESPREAD	EXTENSIVE	

† INTENSITY x EXTENT = SCORE

Dugout pond

ELC

WILDLIFE

SITE:	
POLYGON:	
DATE:	
SURVEYOR(S):	
START TIME:	END TIME:

TEMP (°C):	CLOUD (10th):	WIND:	PRECIPITATION:
CONDITIONS:			

POTENTIAL WILDLIFE HABITAT:

	VERNAL POOLS		SNAGS
	HIBERNACULA		FALLEN LOGS

SPECIES LIST:

TY	SP. CODE	EV	NOTES	#	TY	SP. CODE	EV	NOTES	#

FAUNAL TYPE CODES (TY):
B = BIRD M = MAMMAL H = HERPETOFAUNA L = LEPIDOPTERA F = FISH O = OTHER

EVIDENCE CODES (EV):

BREEDING BIRD - POSSIBLE:
SH = SUITABLE HABITAT SM = SINGING MALE

BREEDING BIRD - PROBABLE:
T = TERRITORY D = DISPLAY P = PAIR
A = ANXIETY BEHAVIOUR N = NEST BUILDING V = VISITING NEST

BREEDING BIRD - CONFIRMED:
DD = DISTRACTION NU = USED NEST FY = FLEDGED YOUNG
NE = EGGS NY = YOUNG FS = FOOD/FAECAL SACK
AE = NEST ENTRY

OTHER WILDLIFE EVIDENCE:
OB = OBSERVED VO = VOCALIZATION CA = CARCASS
DP = DISTINCTIVE PARTS HO = HOUSE/DEN FY = EGGS OR YOUNG
TK = TRACKS FE = FEEDING EVIDENCE SC = SCAT
SI = OTHER SIGNS (specify)

APPENDIX I:

HEDGEROW ASSESSMENT

Unit	Date Visited	Species	Width & Continuity	Age	Disturbance & Hedgerow Health	Ecological Connectivity
H1	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha, Crataegus punctata, Crataegus monogyna, Lonicera tatarica *Ground Cover:* Solidago altissima, Bromus inermis	Mostly single stem width, short portions double/triple; Relatively sparse canopy with frequent gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H2	19-Sep-12	*Canopy:* Acer negundo, Ulmus americana, Acer saccharinum, Acer saccharum ssp. nigrum *Shrub/Understory:* Ulmus americana, Acer negundo, Rhamnus cathartica, Fraxinus pennsylvanica, Acer ginnala *Ground Cover:* Solidago altissima, Dactylis glomerata, Phalaris arundinacea	Double stem width; Continuous canopy without gaps but short	Mid-aged	Invasives widespread, soil disturbance (ploughing), garbage; Hedgerow health good	None
H3	19-Sep-12	*Canopy:* Acer platanoides, Acer saccharinum *Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha, Crataegus punctata, Crataegus monogyna *Ground Cover:* Solidago altissima, Bromus inermis, Poa pratensis	Single stem width; Continous canopy grading into relatively sparse canopy with frequent gaps	Mid-aged/ Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H4	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha, Crataegus punctata, Crataegus monogyna *Ground Cover:* Solidago altissima, Bromus inermis	Single stem width; Relatively sparse canopy with frequent gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H5	19-Sep-12	*Canopy:* Quercus macrocarpa, Ulmus americana, Acer negundo *Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha, Crataegus punctata, Acer negundo *Ground Cover:* Solidago altissima, Bromus inermis, Symphyotrichum lanceolatum	Single stem width; Mostly continuous canopy with some gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H6	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus monogyna, Crataegus sp. *Ground Cover:* Bromus inermis, Solidago altissima	Double stem width separated by grass/forbs; Mostly continuous canopy with some large gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H7	19-Sep-12	*Canopy:* Tilia americana *Shrub/Understory:* Rhamnus cathartica, Crataegus sp., Vitis riparia, Toxicodendron rydbergi *Ground Cover:* Bromus inermis, Solidago altissima	Single stem width; Mostly continuous canopy with some large gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H8	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus punctata, Crataegus macracantha, Vitis riparia, Crataegus monogyna *Ground Cover:* Bromus inermis, Solidago altissima	Single stem width; Mostly continuous canopy with some gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H9	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Solidago altissima, Bromus inermis, Symphyotrichum novae-angliae	Double stem width (driveway between); Continuous canopy without gaps	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H10	19-Sep-12	*Canopy:* Acer saccharinum, Thuja occidentalis, Pinus sylvestris, Picea abies, Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica *Ground Cover:* cut lawn, Bromus inermis	Triple stem width grading into single stem width of R. cathartica; Mostly continuous canopy with some gaps	Mid-aged/ Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair/good	None
H11	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Solidago altissima, Bromus inermis, Vicia cracca	Single stem width; Sparse canopy, mostly unvegetated	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H12	19-Sep-12	*Canopy:* Populus sp. (hybrid), Acer saccharinum, Ulmus americana *Shrub/Understory:* Morus alba, Ulmus americana *Ground Cover:* cut lawn	Single stem width; Continuous canopy without gaps but short	Immature/ Mid-aged	Exotics occassional; Hedgerow health good	None
H13	19-Sep-12	*Canopy:* Salix X rubens *Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha *Ground Cover:* Bromus inermis, Solidago altissima	Single stem width; Mostly continuous canopy with some gaps for tractor paths	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None

Unit	Date Visited	Species	Width & Continuity	Age	Disturbance & Hedgerow Health	Ecological Connectivity
H14	19-Sep-12	*Canopy:* Acer saccharinum, Acer platanoides *Shrub/Understory:* Rhamnus cathartica, Malus pumila, Cornus amomum *Ground Cover:* Solidago altissima, Symphyotrichum lanceolatum, Daucus carota, Poa compressa	Mostly single stem width, short portions double stem width; Continuous canopy without gaps but short	Mid-aged	Invasives occassional; Hedgerow health good	None
H15	19-Sep-12	*Canopy:* Quercus macrocarpa, Acer platanoides, Picea pungens *Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha, Lonicera tatarica, Acer platanoides *Ground Cover:* Bromus inermis	Double stem width (inc. shrubs); Mostly continuous canopy with some gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H16	19-Sep-12	*Canopy:* Ulmus americana, Robinia pseudoacacia *Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Alliaria petiolata, Bromus inermis	Single stem width; Continuous canopy without gaps but short	Mid-aged	Invasives dominant; Hedgerow health fair/good	None
H17	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Acer negundo *Ground Cover:* Solidago altissima, Bromus inermis, Symphyotrichum novae-angliae	Single stem width; Continuous canopy without gaps but short	Young	Invasives dominant; Hedgerow health fair/good	None
H18	19-Sep-12	*Canopy:* Quercus macrocarpa *Shrub/Understory:* Rhamnus cathartica, Fraxinus pennsylvanica, Crataegus macracantha, Toxicodendron rydbergii, Pyrus communis *Ground Cover:* Aralia nudicaulis	Double stem width; Continuous canopy but short	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair	None
H19	19-Sep-12	*Canopy:* Ulmus americana *Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha, Crataegus monogyna, Crataegus sp., Malus pumila *Ground Cover:* Solidago altissima, Bromus inermis	Triple stem width (inc. shrubs); Mostly continuous canopy with some gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair	None
H20	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus monogyna, Malus pumila *Ground Cover:* Geum aleppicum, Bromus inermis, Dactylis glomerata, Solanum dulcamara	Single stem width; Mostly continuous canopy with some gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H21	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha, Crataegus monogyna *Ground Cover:* Solidago altissima, Geum aleppicum Solanum dulcamara, Alliaria petiolata	Double stem width (vehicle laneway in between); Continuous canopy without gaps but short	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H22	19-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus monogyna, Crataegus sp. *Ground Cover:* Geum aleppicum, Alliaria petiolata	Triple stem width (inc. shrubs); Continuous canopy without gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H23	19-Sep-12	*Canopy:* Fraxinus pennsylvanica, Tilia americana, Quercus macrocarpa *Shrub/Understory:* Rhamnus cathartica, Crataegus monogyna, Salix X rubens, Parthenocissus inserta, Fraxinus pennsylvanica *Ground Cover:* Symphyotrichum lanceolatum	Double stem width (inc. shrubs); Mostly continuous canopy with some gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair/good (some strangling by P. inserta)	None
H24	19-Sep-12	*Canopy:* Ulmus americana *Shrub/Understory:* Rhamnus cathartica, Crataegus monogyna, Crataegus punctata, Morus alba, Prunus virginiana, *Ground Cover:* Bromus inermis, Solidago altissima	Double stem width (inc. shrubs); Continuous canopy without gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H25	19-Sep-12	*Canopy:* Tilia americana, Fraxinus pennsylvanica, Acer negundo *Shrub/Understory:* Rhamnus cathartica, Rubus strigosus, Parthenocissus inserta, Vitis riparia, Prunus virginiana *Ground Cover:* Solidago altissima	Double/triple stem width (inc. shrubs); Continuous canopy without gaps but short	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health poor/fair (overrun with P. inserta and V. riparia)	None Deer mouse observed
H26	19-Sep-12	*Canopy:* Ulmus americana, Tilia americana *Shrub/Understory:* Rhamnus cathartica, Crataegus monogyna, Toxicodendron rydbergii, Rubus strigosus, Tilia americana *Ground Cover:* Solidago altissima, Bromus inermis	Mostly single stem width, sometimes double (inc. shrubs); Relatively sparse canopy with frequent gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None

Unit	Date Visited	Species	Width & Continuity	Age	Disturbance & Hedgerow Health	Ecological Connectivity
H27	19-Sep-12	*Canopy:* Quercus macrocarpa *Shrub/Understory:* Rhamnus cathartica, Crataegus punctata, Quercus macrocarpa *Ground Cover:* Symphyotrichum lanceolatum, Phleum pratense, Poa pratensis, Solidago altissima	Single stem width; Relatively sparse canopy with frequent gaps	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H28	20-Sep-12	*Canopy:* Ulmus americana, Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica, Crataegus punctata, Crataegus macracantha, Crataegus monogyna *Ground Cover:* Bromus inermis, Solidago altissima, Fragaria virginiana	Quintuple stem width (inc. shrubs); Continuous canopy without gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	Connects two forb mineral meadow marshes (both polygon 73)
H29	20-Sep-12	*Canopy:* Fraxinus pennsylvanica, Acer saccharinum, Pinus sylvestris, Quercus rubra *Shrub/Understory:* Rhamnus cathartica, Crataegus monogyna, Lonicera tatarica, Fraxinus pennsylvanica, Acer saccharinum *Ground Cover:* Solidago altissima, Bromus inermis, Symphyotrichum nova-angliae, Poa pratensis, Symphyotrichum lanceolatum	Tripe stem width (inc. shrubs); Sparse canopy, mostly unvegetated	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H30	20-Sep-12	*Canopy:* Ulmus americana, Acer negundo *Shrub/Understory:* Rhamnus cathartica, Parthenocissus inserta, Cornus sericea *Ground Cover:* Solidago altissima, Bromus inermis, Daucus carota	Single stem width; Mostly continuous canopy with some gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair (some strangling by P. inserta)	None
H31	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Cornus sericea *Ground Cover:* Poa pratensis, Solidago altissima, Bromus inermis, Symphyotrichum novae-angliae	Single stem width; Relatively sparse canopy with frequent gaps	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H32	20-Sep-12	*Canopy:* Picea abies, Pinus strobus, Pinus resinosa, Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica, Vinca minor, Acer platanoides *Ground Cover:* Poa pratensis, Solidago altissima, Symphyotrichum novae-angliae	Single stem width; Mostly continuous canopy with some gaps	Mid-aged	Invasives occassional, soil disturbance (ploughing); Hedgerow health good	Connects a dry-moist old field meadow (75) to a coniferous plantation (76)
H33	20-Sep-12	*Canopy:* Acer saccharinum, Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha *Ground Cover:* Solidago altissima, Symphyotrichum novae-angliae, Bromus inermis	Single stem width; Mostly continuous canopy with some gaps	Mid-aged	Invasives occassional, soil disturbance (ploughing); Hedgerow health good	None
H34	20-Sep-12	*Canopy:* Acer saccharinum, Picea glauca, Juglans nigra, Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Solidago altissima, Geum aleppicum	Quadruple stem width (inc. shrubs); Continuous canopy without gaps but short	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H35	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Malus coronaria, Crataegus monogyna *Ground Cover:* Symphyotrichum lanceolatum, Solidago altissima, Symphyotrichum nova-angliae, Poa pratensis	Single stem width; Continuous canopy without gaps but short	Young	Invasives dominant, old pasture adjacent to hedgerow; Hedgerow health good	None
H36	20-Sep-12	*Canopy:* Ulmus pumila, Acer saccharinum *Shrub/Understory:* Rhamnus cathartica, Lonicera tatarica, Acer negundo, Thuja occidentalis *Ground Cover:* Bromus inermis, Solidago altissima, Symphyotrichum lanceolatum	Double stem width (inc. shrubs); Mostly continuous canopy with some gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H37	20-Sep-12	*Shrub/Understory:* Salix discolor, Salix eriocephala *Ground Cover:* Symphyotrichum novae-angliae, Euthamia graminifolia, Symphyotrichum lanceolatum	Single stem width; Continuous canopy without gaps but short	Mid-aged	exotics occassional, soil disturbance (ploughing); Hedgerow health good	None Conveys water
H38	20-Sep-12	*Canopy:* Acer saccharinum, Picea glauca, Pinus sylvestris *Shrub/Understory:* Ulmus pumila, Syringa vulgaris, Rhamnus cathartica, Fraxinus pennsylvanica *Ground Cover:* Solidago altissima, Bromus inermis	Single/double stem width; Continuous canopy without gaps but short	Mid-aged	Invasives occassional, soil disturbance (ploughing); Hedgerow health good	None
H39	20-Sep-12	*Canopy:* Acer platanoides, Acer negundo *Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Solidago altissima, Bromus inermis, Symphyotrichum novae-angliae	Single stem width; Sparse canopy, mostly unvegetated	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None

Unit	Date Visited	Species	Width & Continuity	Age	Disturbance & Hedgerow Health	Ecological Connectivity
H40	20-Sep-12	*Canopy:* Ulmus pumila, Acer platanoides *Shrub/Understory:* Rhamnus cathartica, Malus pumila, Fraxinus pennsylvanica *Ground Cover:* Solidago altissima, Poa pratensis, Symphyotrichum novae-angliae	Single stem width; Relatively sparse canopy with frequent gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H41	20-Sep-12	*Canopy:* Acer negundo, Acer saccharinum *Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Solidago altissima, Symphyotrichum lanceolatum, Symphyotrichum novae-angliae, Bromus inermis, Poa pratensis	Double stem width; Somewhat sparse canopy with large gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H42	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha, Crataegus punctata, Lonicera tatarica, Malus pumila *Ground Cover:* Solidago altissima	Double stem width (inc. shrubs); Mostly continuous canopy with some gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H43	20-Sep-12	*Canopy:* Pinus strobus, Populus deltoides, Acer negundo, Acer saccharinum *Shrub/Understory:* Rhamnus cathartica, Pyrus communis, Cornus sericea, Lonicera tatarica, Rhus typhina *Ground Cover:* Alliaria petiolata, Solidago altissima	Double stem width; Continuous canopy without gaps	Mature	Invasives dominant in understory, soil disturbance (ploughing); Hedgerow health good	None
H44	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Bromus inermis	Single stem width; Sparse canopy, mostly unvegetated	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H45	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Rubus occidentalis, Lonicera tatarica *Ground Cover:* Solidago altissima, Daucus carota, Bromus inermis	Single stem width; Sparse canopy, mostly unvegetated	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H46	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha *Ground Cover:* Solidago altissima, Bromus inermis, Geum aleppicum, Symphyotrichum lanceolatum	Qudruple stem width (inc. shrubs); Mostly continuous canopy with some gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H47	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Bromus inermis, Symphyotrichum lanceolatum	Double stem width (inc. shrubs); Continuous canopy without gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H48	20-Sep-12	*Canopy:* Picea abies, Fraxinus pennsylvanica, Pinus resinosa, Picea glauca *Shrub/Understory:* Rhamnus cathartica, Malus pumila *Ground Cover:* lawn, Phalaris arundinacea, Symphyotrichum lanceolatum	Double stem width (inc. shrubs); Continuous canopy without gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair (some P. abies dieback)	None
H49	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus punctata *Ground Cover:* Poa pratensis, Ascelpias syriaca, Solidago altissima, Elymus repens	Single stem width; Relatively sparse canopy with frequent gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H50	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Lonicera tatarica, Acer negundo, Prunus virginiana *Ground Cover:* Bromus inermis, Solidago altissima	Single stem width; Sparse canopy, mostly unvegetated	Young	Invasives dominant, soil disturbance (ploughing); collapsed shed; Hedgerow health good	None
H51	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Bromus inermis, Solidago altissima	Single stem width; Sparse canopy, mostly unvegetated	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H52	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Prunus virginiana, Lonicera tatarica, Fraxinus pennsylvanica *Ground Cover:* Solidago altissima, Symphyotrichum novae-angliae, Bromus inermis	Double stem width (inc. shrubs); Relatively sparse canopy with frequent gaps	Immature/ mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair/poor (F. pennsylvanica dying)	None

Unit	Date Visited	Species	Width & Continuity	Age	Disturbance & Hedgerow Health	Ecological Connectivity
H53	20-Sep-12	*Shrub/Understory:* Rhamnus cathartica, *Ground Cover:* Solidago altissima, Bromus inermis	Single stem width; Relatively sparse canopy with frequent gaps	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H54	20-Sep-12	*Canopy:* Acer saccharinum, Pinus resinosa, Fraxinus pennsylvanica, Picea glauca, Picea abies *Shrub/Understory:* Rhamnus cathartica, Acer saccharinum, Prunus virginiana *Ground Cover:* Solidago altissima, Geum aleppicum, Bromus inermis	Triple stem width; Continuous canopy cover with no gaps	Mature	Invasives dominant in understory, soil disturbance (ploughing); Hedgerow health good	None
H55	20-Sep-12	*Canopy:* Pinus strobus, Fraxinus pennsylvanica, Pinus resinosa, Acer saccharinum *Shrub/Understory:* Rhamnus cathartica, Prunus virginiana, Acer negundo, Picea glauca, Thuja occidentalis *Ground Cover:* Solidago altissima, Symphyotrichum lanceolatum	Double stem width (inc. shrubs); Mostly continuous canopy with some gaps	Immature/ mid-aged	Invasives dominant in understory, soil disturbance (ploughing); Hedgerow health good	None
H56	21-Sep-12	*Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Bromus inermis, Solidago altissima	Single stem width; Mostly continuous canopy with some gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H57	21-Sep-12	*Canopy:* Ulmus americana, Fraxinus pennsylvanica, Tilia americana *Shrub/Understory:* Rhamnus cathartica, Pyrus communis, Lonicera tatarica *Ground Cover:* Bromus inermis, Solidago altissima	Double/triple stem width (inc. shrubs); Continuous canopy excepting one large gap	Immature/ mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H58	21-Sep-12	*Canopy:* Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica, Acer negundo *Ground Cover:* Solidago altissima, Bromus inermis	Single stem width; Relatively sparse canopy with frequent gaps	Immature/ mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H59	21-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Pyrus communis *Ground Cover:* Setaria pumila, Bromus inermis, Solidago altissima	Single stem width; Relatively sparse canopy with frequent gaps	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H60	21-Sep-12	*Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Setaria pumila, Bromus inermis	Single stem width; Sparse canopy, mostly unvegetated	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H61	21-Sep-12	*Canopy:* Acer saccharinum, Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica, Elaegnus umbellata *Ground Cover:* Bromus inermis, Solidago altissima	Single tree width; Mostly continuous canopy with some gaps	Mature	Invasives occassional in understory, soil disturbance (ploughing, road, dirt piles); Hedgerow health poor (canopy dying)	None
H62	21-Sep-12	*Canopy:* Pinus resinosa, Salix X rubens, Fraxinus pennsylvanica, Populus deltoides *Shrub/Understory:* Thuja occidentalis, Pinus strobus *Ground Cover:* lawn	Double tree width; Continuous canopy without gaps	Mid-aged	Invasives light, soil disturbance (ploughing); Hedgerow health good	None
H63	21-Sep-12	*Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Solidago altissima, Bromus inermis	Single tree width; Somewhat sparse canopy with large gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H64	27-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Lonicera tatarica, Populus tremuloides *Ground Cover:* Bromus inermis, Solidago altissima	Single tree width; Relatively sparse canopy with frequent gaps	Immature	Invasives dominant, soil disturbance (ploughing), decaying shed; Hedgerow health good	None
H65	21-Sep-12	*Canopy:* Picea abies *Shrub/Understory:* Rhamnus cathartica, Thuja occidentalis *Ground Cover:* Solidago altissima, Bromus inermis	Single stem width; Continuous canopy without gaps but short	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair (some P. abies dieback)	None

Unit	Date Visited	Species	Width & Continuity	Age	Disturbance & Hedgerow Health	Ecological Connectivity
H66	21-Sep-12	*Canopy:* Picea glauca, Picea abies, Acer negundo, Fraxinus pennsylvanica, Populus deltoides (snag) *Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Bromus inermis	Single/double stem width; Mostly continuous canopy with some gaps	Mid-aged	Invasives occassional, soil disturbance (ploughing); Hedgerow health poor/fair (many snags, some dieback)	None
H67	21-Sep-12	*Canopy:* Picea abies *Shrub/Understory:* Rhamnus cathartica, Prunus sp., Lonicera tatarica *Ground Cover:* Bromus inermis, Solidago altissima	Double stem width Continuous canopy; without gaps but short	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health poor (many snags, some with broken stems, P. abies dieback, Prunus infected with Apiosporina morbosa)	None
H68	21-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Acer negundo, Malus pumila *Ground Cover:* Bromus inermis, Solidago altissima	Single tree width; Sparse canopy, mostly unvegetated	Immature	Invasives dominant, soil disturbance (ploughing), collapsed shed, garbage (parts of vehicles, etc.); Hedgerow health good	None
H69	21-Sep-12	*Canopy:* Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica, Syringa vulgaris *Ground Cover:* Solidago altissima, Epilobium parviflorum	Double stem width (inc. shrubs); Continuous canopy grading into sparse with limited vegetation	Mid-aged/ Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair (dumped gravel, F. pennsylvanica twig dieback)	None
H70	21-Sep-12	*Canopy:* Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica, Juniperus virginiana *Ground Cover:* Geum aleppicum	Double stem width (inc. shrubs); Continuous canopy without gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair (brush piles, F. pennsylvanica twig dieback and snags)	None
H71	21-Sep-12	*Canopy:* Fraxinus pennsylvanica, Tilia americana *Shrub/Understory:* Fraxinus pennsylvanica *Ground Cover:* Bromus inermis, Poa pratensis	Double stem width; Continuous canopy without gaps	Immature	Invasives light; Hedgerow health good	None
H72	21-Sep-12	*Canopy:* Salix X rubens, Picea glauca, Populus deltoides *Shrub/Understory:* Rhamnus cathartica, Acer negundo, Syringa vulgaris *Ground Cover:* Bromus inermis	Single stem width; Continuous canopy grading into somewhat sparse dominated by R. cathartica	Mid-aged/ Immature	Invasives dominant; Hedgerow health good	None
H73	24-Sep-12	*Canopy:* Picea abies, Picea glauca, Fraxinus pennsylvanica, Tilia americana, Ulmus americana *Shrub/Understory:* Rhamnus cathartica, Acer negundo, Crataegus monogyna, Rosa sp., Juniperus viginiana *Ground Cover:* Bromus inermis, Solidago altissima, Phleum pratense	Single stem width grading into double; Somewhat sparse canopy with large gaps	Immature/ Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H74	24-Sep-12	*Canopy:* Tilia americana *Shrub/Understory:* Rhamnus cathartica, Prunus virginiana, Juniperus virginiana *Ground Cover:* Echinocloa crus-galli, Setaria faberi, Bromus inermis	Double stem width (inc. shrubs); Mostly continuous canopy with one large gap	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H75	24-Sep-12	*Canopy:* Acer saccharinum *Shrub/Understory:* Rhamnus cathartica, Lonicera tatarica, Ribes rubrum *Ground Cover:* Bromus inermis	Double stem width (inc. shrubs); Relatively sparse canopy with frequent gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H76	24-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Parthenocissus inserta, Prunus virginiana, Pyrus communis *Ground Cover:* Bromus inermis	Single stem width; Relatively sparse canopy with frequent gaps	Young/Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair (R. cathartica dieback)	None
H77	24-Sep-12	*Canopy:* Pinus resinosa, Picea abies (snag) *Shrub/Understory:* Rhamnus cathartica, Ribes rubrum *Ground Cover:* Geum aleppicum	Quadruple stem width (inc. shrubs); Continuous canopy without gaps but short	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health poor (snags, P. abies dieback, P. resinosa cut)	None
H78	24-Sep-12	*Canopy:* Pinus resinosa (snag) *Shrub/Understory:* Prunus sp., Rhamnus cathartica, Malus pumila *Ground Cover:* Geum aleppicum	Triple stem width (inc. shrubs); Mostly continuous canopy with some gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health poor (twig dieback, Prunus with Apiosporina morbosa)	None

Unit	Date Visited	Species	Width & Continuity	Age	Disturbance & Hedgerow Health	Ecological Connectivity
H79	24-Sep-12	*Canopy:* Fraxinus pennsylvanica *Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Vicia cracca	Single stem width; Relatively sparse canopy with frequent gaps	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H80	24-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Acer negundo, Crataegus punctata *Ground Cover:* Bromus inermis	Single stem width; Sparse canopy, mostly unvegetated	Young	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H81	24-Sep-12	*Canopy:* Populus alba, Fraxinus pennsylvanica, Pinus resinosa *Shrub/Understory:* Rhamnus cathartica *Ground Cover:* Bromus inermis	Single/double stem width; Mostly continuous canopy with some gaps	Immature/ Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H82	24-Sep-12	*Canopy:* Populus alba, Fraxinus pennsylvanica *Shrub/Understory:* Juglans nigra, Picea glauca, Crataegus macracantha, Lonicera tatarica, Quercus macrocarpa *Ground Cover:* Bromus inermis	Single stem width; Mostly continuous canopy with some gaps	Young/Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair (dead P. glauca)	None
H83	24-Sep-12	*Canopy:* Picea glauca, Thuja occidentalis, Pinus sylvestris, Acer platanoides, Acer saccharinum *Shrub/Understory:* Rhamnus cathartica, Malus pumila *Ground Cover:* Bromus inermis	Single stem width; Continuous canopy without gaps but short	Mid-aged	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H84	24-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Acer negundo *Ground Cover:* Bromus inermis, Geum aleppicum, Symphyotrichum novae-angliae	Single/Double stem width; Continuous canopy without gaps but short	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health fair (snapped R. cathartica branches)	None
H85	24-Sep-12	*Canopy:* Pinus resinosa, Acer negundo, Picea glauca, Picea pungens *Shrub/Understory:* Rhamnus cathartica, Salix eriocephala *Ground Cover:* Geum aleppicum	Single stem width; Mostly continuous canopy with some gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H86	24-Sep-12	*Shrub/Understory:* Rhamnus cathartica, Crataegus macracantha *Ground Cover:* Bromus inermis	Single stem width; Relatively sparse canopy with frequent gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None
H87	24-Sep-12	*Canopy:* Salix X rubens, Populus deltoides *Shrub/Understory:* Rhamnus cathartica, Salix X rubens *Ground Cover:* Bromus inermis	Single stem width; Relatively sparse canopy with frequent gaps	Immature	Invasives dominant, soil disturbance (ploughing), hay bales; Hedgerow health good	None
H88	24-Sep-12	*Canopy:* Fraxinus pennsylvanica *Shrub/Understory:* Acer saccharinum Lonicera tatarica, Rhamnus cathartica *Ground Cover:* Bromus inermis, Digitaria sanguinea	Single stem width; Relatively sparse canopy with frequent gaps	Immature	Invasives dominant, soil disturbance (ploughing); Hedgerow health good	None

APPENDIX J:

LIST OF ALL BIRD SPECIES OBSERVED

			Rarity Status						Survey Area								
Scientific Name		Common Name	G Rank	S Rank	COSEWIC	MNR	SOWE Region 6	TRCA	Survey Area 1		Survey Area 2		Survey Area 3		Survey Area 4		2007 Survey
									Evidence	Count	Evidence	Count	Evidence	Count	Evidence	Count	
	Bird																
	Branta canadensis	Canada Goose	G5	S5			FALSE	L5	O	67	PO	9					
	Anas platyrhynchos	Mallard	G5	S5			FALSE	L5	O	7	O	2	O	1	O	4	X
	Ardea herodias	Great Blue Heron	G5	S5			FALSE	L3	O	2	O	1			O	1	
	Butorides virescens	Green Heron	G5	S4B			FALSE	L4			O	2					
	Cathartes aura	Turkey Vulture	G5	S5B			FALSE	L4	O	3							X
**	*Circus cyaneus*	Northern Harrier	G5	S4B	NAR	NAR	FALSE	L3			O	1					
	Buteo jamaicensis	Red-tailed Hawk	G5	S5	NAR	NAR	FALSE	L5	O	2	O	2			C	4	X
	Falco sparverius	American Kestrel	G5	S5B			FALSE	L4									X
	Charadrius vociferus	Killdeer	G5	S5B,S5N			FALSE	L5	PR	9	PR	11	PR	9	C	10	X
	Actitis macularia	Spotted Sandpiper	G5	S5			FALSE	L4	O	1					PR	3	X
	Larus delawarensis	Ring-billed Gull	G5	S5B,S4N			FALSE	L5	O	2	O	1	O	7	O	1	X
*	*Columba livia*	Rock Pigeon	G5	SNA			FALSE	L+	PO	1	PO	1			PR	8	X
	Zenaida macroura	Mourning Dove	G5	S5			FALSE	L5	PR	5			PR	4	PR	4	X
	Coccyzus erythropthalmus	Black-billed Cuckoo	G5	S5B			FALSE	L3									X
	Colaptes auratus	Northern Flicker	G5	S4B			FALSE	L4	PO	1					PO	2	X
	Contopus virens	Eastern Wood-pewee	G5	S4B			FALSE	L4					PO	1			X
	Empidonax alnorum	Alder Flycatcher	G5	S5B			FALSE	L4					PO	1			
	Empidonax traillii	Willow Flycatcher	G5	S5B			FALSE	L4	PR	4	PO	1	PR	9	PR	6	X
	Sayornis phoebe	Eastern Phoebe	G5	S5B			FALSE	L4			PO	2	O	1			
	Tyrannus tyrannus	Eastern Kingbird	G5	S4B			FALSE	L5	PR	5			PO	1	PR	4	X
	Myiarchus crinitus	Great Crested Flycatcher	G5	S4B			FALSE	L4									X
	Vireo gilvus	Warbling Vireo	G5	S5B			FALSE	L5	PO	1			PR	5	PR	3	X

			Rarity Status						Survey Area								
Scientific Name		Common Name	G Rank	S Rank	COSEWIC	MNR	SOWE Region 6	TRCA	Survey Area 1		Survey Area 2		Survey Area 3		Survey Area 4		2007 Survey
									Evidence	Count	Evidence	Count	Evidence	Count	Evidence	Count	
	Vireo olivaceus	Red-eyed Vireo	G5	S5B			FALSE	L4					PO	4			X
	Cyanocitta cristata	Blue Jay	G5	S5			FALSE	L5	PR	4	PO	1	PO	3	PO	1	X
	Corvus brachyrhynchos	American Crow	G5	S5B			FALSE	L5	PO	5	PO	2	PO	7	O	3	X
	Eremophila alpestris	Horned Lark	G5	S5B			FALSE	L4	PR	9	PR	2	PO	8	PR	3	X
	Tachycineta bicolor	Tree Swallow	G5	S4B			FALSE	L4							O	2	X
	Stelgidopteryx serripennis	Northern Rough-winged Swallow	G5	S4B			FALSE	L4							PO	1	
	Hirundo rustica	Barn Swallow	G5	S4B	THR	THR	FALSE	L4	O	4	O	11	C	9	C	15	X
	Poecile atricapillus	Black-capped Chickadee	G5	S5			FALSE	L5	PR	2	PO	1	PR	4	PO	3	X
**	*Sitta carolinensis*	White-breasted Nuthatch	G5	S5			FALSE	L4					PO	1			
	Troglodytes aedon	House Wren	G5	S5B			FALSE	L5	PO	1	PO	1	PO	1	PO	2	X
**	*Polioptila caerulea*	Blue-gray Gnatcatcher	G5	S4B			FALSE	L4	PO	2			PO	2	PO	1	
	Turdus migratorius	American Robin	G5	S5B			FALSE	L5	PR	19	PO	5	PR	12	PO	10	X
	Dumetella carolinensis	Gray Catbird	G5	S4B			FALSE	L4	PR	3	PO	1	PO	5	PR	2	X
	Mimus polyglottos	Northern Mockingbird	G5	S4			FALSE	L5			PO	1			PR	3	X
	Toxostoma rufum	Brown Thrasher	G5	S4B			FALSE	L3	PO	2			PO	1	PO	5	X
*	*Sturnus vulgaris*	European Starling	G5	SNA			FALSE	L+	PO	3	O	30+			C	2	X
	Bombycilla cedrorum	Cedar Waxwing	G5	S5B			FALSE	L5	PO	3			PO	2	PO	2	X
	Dendroica petechia	Yellow Warbler	G5	S5B			FALSE	L5	PR	3			PR	4	PO	5	X
**	*Setophaga ruticilla*	American Redstart	G5	S5B			FALSE	L3							PO	1	
	Geothlypis trichas	Common Yellowthroat	G5	S5B			FALSE	L4	PO	7			PO	3	PR	4	
	Spizella passerina	Chipping Sparrow	G5	S5B			FALSE	L5			PO	1	PR	3	PO	2	X
	Spizella pallida	Clay-colored Sparrow	G5	S4B			FALSE	L3	PR	3					PO	1	
	Spizella pusilla	Field Sparrow	G5	S4B			FALSE	L4					PR	1	O	1	

			Rarity Status						Survey Area								
Scientific Name		Common Name	G Rank	S Rank	COSEWIC	MNR	SOWE Region 6	TRCA	Survey Area 1		Survey Area 2		Survey Area 3		Survey Area 4		2007 Survey
									Evidence	Count	Evidence	Count	Evidence	Count	Evidence	Count	
	Pooecetes gramineus	Vesper Sparrow	G5	S4B			FALSE	L3	PO	2	PO	1	PR	2			X
**	*Passerculus sandwichensis*	Savannah Sparrow	G5	S4B			FALSE	L4	PR	61	PR	57	PR	32	PR	41	X
	Melospiza melodia	Song Sparrow	G5	S5B			FALSE	L5	PR	31	PR	12	PR	11	PR	34	X
	Melospiza georgiana	Swamp Sparrow	G5	S5B			FALSE	L4									X
	Cardinalis cardinalis	Northern Cardinal	G5	S5			FALSE	L5	PO	3	PO	5	PO	5			X
	Pheucticus ludovicianus	Rose-breasted Grosbeak	G5	S4B			FALSE	L4	PR	2							
	Passerina cyanea	Indigo Bunting	G5	S4B			FALSE	L4	PO	1			PO	2			
**	*Dolichonyx oryzivorus*	Bobolink	G5	S4B	THR	THR	FALSE	L3	PR	24	PR	75	PR	27	C	29	X
	Agelaius phoeniceus	Red-winged Blackbird	G5	S5			FALSE	L5	PR	69	PR	91	PR	36	PR	35	X
**	*Sturnella magna*	Eastern Meadowlark	G5	S4B	THR	THR	FALSE	L4	PR	2	PO	2	PR	3	PO	1	X
	Quiscalus quiscula	Common Grackle	G5	S5B			FALSE	L5	PR	3	PO	3	PO	5	C	3	X
	Molothrus ater	Brown-headed Cowbird	G5	S4B			FALSE	L5	PR	3	PO	1	PO	1	PR	6	X
	Icterus spurius	Orchard Oriole	G5	S4B			FALSE	L5									X
	Icterus galbula	Baltimore Oriole	G5	S4B			FALSE	L5					PO	2	PO	5	X
*	*Carpodacus mexicanus*	House Finch	G5	SNA			FALSE	L5	PO	1							X
	Carduelis tristis	American Goldfinch	G5	S5B			FALSE	L5	PR	15	PR	20	PR	23	PR	17	X
*	*Passer domesticus*	House Sparrow	G5	SNA			FALSE	L+	PR	5	PO	4	PR	5	PO	7	
	Mammal																
	Microtus pennsylvanicus	Meadow Vole	G5	S5			FALSE	L4									X
	Canis latrans	Coyote	G5	S5			FALSE	L5									X
	Procyon lotor	Raccoon	G5	S5			FALSE	L5									X
	Mephitis mephitis	Striped Skunk	G5	S5			FALSE	L5									X
	Odocoileus virginianus	White-tailed Deer	G5	S5			FALSE	L4									X

			Rarity Status						Survey Area								
Scientific Name		Common Name	G Rank	S Rank	COSEWIC	MNR	SOWE Region 6	TRCA	Survey Area 1		Survey Area 2		Survey Area 3		Survey Area 4		2007 Survey
									Evidence	Count	Evidence	Count	Evidence	Count	Evidence	Count	
	Amphibian																
	Bufo americanus	American Toad	G5	S5			FALSE	L4			PR	1					
	Rana clamitans	Green Frog	G5	S5			FALSE	L4							PR	6	
	Rana pipiens	Northern Leopard Frog	G5	S5	NAR	NAR	FALSE	L3									X
	Reptile																
	Thamnophis sirtalis sirtalis	Eastern Garter Snake	G5T5	S5			FALSE	L4									X

** Denotes area-sensitive species
* Denotes non-native species

APPENDIX K:

DRAINAGE PATTERNS AND HYDROLOGIC MODELLING CONCEPTUAL SWM POND SIZES

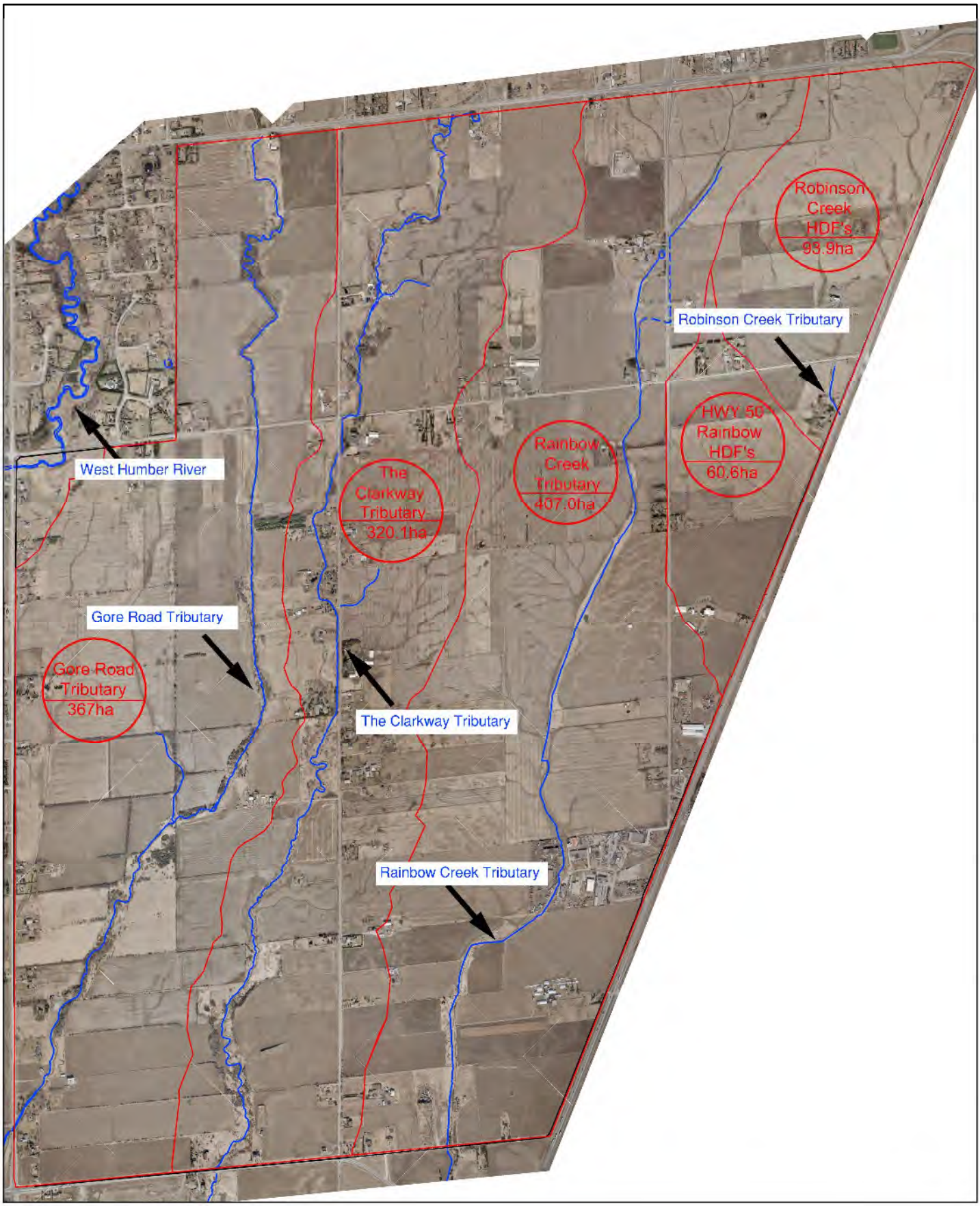


FIGURE K.1: EXISTING DRAINAGE PATTERNS

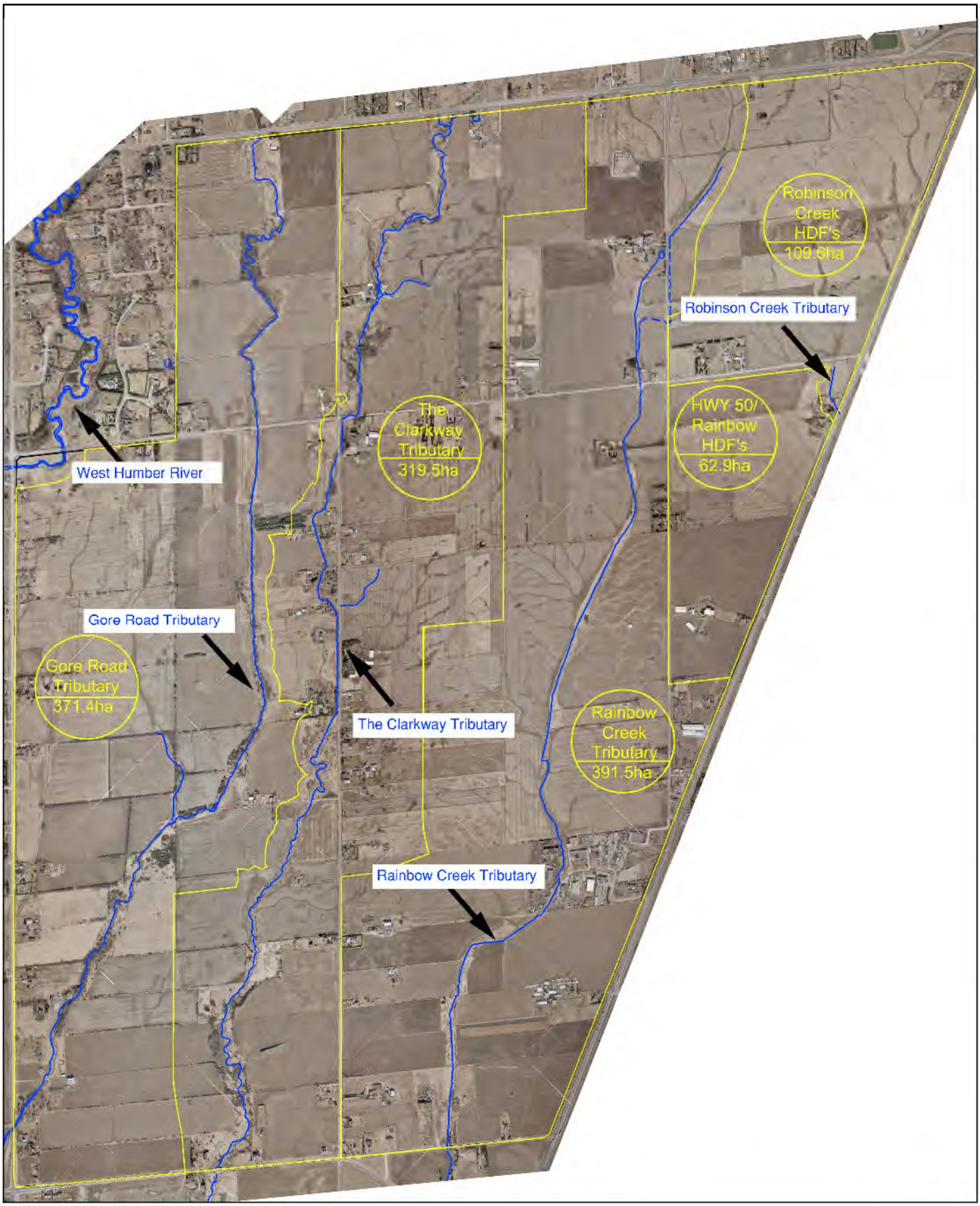


FIGURE K.2: FUTURE DRAINAGE PATTERNS

FIGURE K.3: CONTRIBUTING AREAS TO PROTECTION / CONSERVATION HDF's

TABLE K.1:
SUMMARY OF LANDUSES AND IMPERVOUS COMPONENTS

Catchment	Area (ha)	Landuse	Coverage (ha)	% Coverage	% Impervious	% Dir.Connected*
The Gore Road Tributary						
G1	49.5	Low/Medium Density Residential	44.4	90%	60%	50%
		Neighbourhood Park	1.7	3%	10%	10%
		Institutional	3.4	7%	80%	75%
		Total Developed	***49.5***	***100%***	***60%***	***50%***
		Undevelopment/Woods		0%	0%	
G2	17.2	Low/Medium Density Residential	12.0	70%	60%	50%
		Neighbourhood Park	0.9	5%	10%	10%
		Commerical	4.3	25%	95%	95%
		Total Developed	***17.2***	***100%***	***66%***	***59%***
		Undevelopment/Woods		0%	0%	
G3	119.8	Executive Residential	17.1	14%	50%	40%
		Low Density Residential	85.4	71%	60%	50%
		Institutional	14.0	12%	80%	75%
		Commerical	0.9	1%	95%	95%
		Neighbourhood Park	2.3	2%	10%	10%
		Total Developed	***119.8***	***100%***	***60%***	***51%***
		Undevelopment/Woods		0%	0%	
G4	40.1	Executive Residential	30.4	76%	50%	40%
		Low Density Residential	5.2	13%	60%	50%
		Institutional	3.3	8%	80%	75%
		Neighbourhood Park	1.2	3%	10%	10%
		Total Developed	***40.1***	***100%***	***53%***	***43%***
		Undevelopment/Woods		0%	0%	
G5a	21.8	Low Density Residential	10.9	50%	60%	50%
		Low/Medium Density Residential	10.0	46%	60%	50%
		Neighbourhood Park	0.9	4%	10%	10%
		Total Developed	***10.9***	***100%***	***58%***	***48%***
		Undevelopment/Woods		0%	0%	
G5b	12.2	Executive Residential	3.3	27%	50%	40%
		Low Density Residential	7.9	65%	60%	50%
		Neighbourhood Park	0.9	7%	10%	10%
		Total Developed	***12.2***	***93%***	***58%***	***48%***
		Undevelopment/Woods	0.0	0%	0%	
G6	7.9	Low Density Residential	7.0	89%	60%	50%
		Neighbourhood Park	0.9	11%	10%	10%
		Total Developed	***7.9***	***100%***	***54%***	***45%***
		Undevelopment/Woods		0%	0%	
G7	34.2	Executive Residential	10.1	30%	50%	40%
		Low Density Residential	23.2	68%	60%	50%
		Neighbourhood Park	0.9	3%	10%	10%
		Total Developed	***34.2***	***100%***	***56%***	***46%***
		Undevelopment/Woods		0%	0%	
G8	32.8	Low Density Residential	20.3	62%	60%	50%
		Low/Medium Density Residential	4.3	13%	60%	50%
		Commerical	3.1	9%	95%	95%
		Institutional	3.4	10%	80%	75%
		Neighbourhood Park	1.7	5%	10%	10%
		Total Developed	***32.8***	***100%***	***63%***	***55%***
		Undevelopment/Woods		0%	0%	

TABLE K.1 con't:
SUMMARY OF LANDUSES AND IMPERVOUS COMPONENTS

Catchment	Area (ha)	Landuse	Coverage (ha)	% Coverage	% Impervious	
Clarkway Drive Tributary						
C1	19.3	Low/Medium Residential	19.3	100%	60%	50%
		Total Developed	***19.3***	***100%***	***60%***	***50%***
		Undevelopment/Woods				
C2	41.3	Low/Medium Residential	21.5	52%	60%	50%
		Mixed Use Residential	9.4	23%	80%	80%
		Commercial	9.6	23%	95%	95%
		Neighbourhood Park	0.9	2%	10%	10%
		Total Developed	***41.3***	***100%***	***72%***	***66%***
		Undevelopment/Woods				
C3	19.5	Low Density Residential	13.8	71%	60%	50%
		Mixed Commercial/Industiral	4.8	25%	95%	95%
		Neighbourhood Park	0.9	5%	10%	10%
		Total Developed	***19.5***	***95%***	***69%***	***62%***
		Undevelopment/Woods				
C4	58.9	Low Density Residential	18.1	31%	60%	50%
		Mixed Commercial/Industiral	9.5	16%	95%	95%
		Prestige Industrial	30.4	52%	95%	95%
		Neighbourhood Park	0.9	2%	10%	10%
		Total Developed	***58.9***	***100%***	***83%***	***80%***
		Undevelopment/Woods				
C5a	28.8	Prestige Industrial	28.8	100%	95%	95%
		Total Developed	***28.8***	***100%***	***95%***	***95%***
		Undevelopment/Woods				
C5b	29.5	Prestige Industrial	15.3	52%	95%	95%
		Business Park	14.2	48%	95%	95%
		Total Developed	***29.5***	***100%***	***95%***	***95%***
		Undevelopment/Woods				
C6	19.3	Low/Medium Residential	15.6	81%	60%	50%
		Commercial	2.7	14%	95%	95%
		Neighbourhood Park	0.9	5%	10%	10%
		Total Developed	***19.3***	***100%***	***63%***	***54%***
		Undevelopment/Woods				

TABLE K.1 con't:
SUMMARY OF LANDUSES AND IMPERVOUS COMPONENTS

Catchment	Area (ha)	Landuse	Coverage (ha)	% Coverage	% Impervious	
Rainbow Creek						
R1	57.6	Low/Medium Density Residential	37.5	65%	60%	50%
		Mixed Use (Residential Retail)	7.9	14%	80%	80%
		Service Commerical	7.7	13%	95%	95%
		Institutional	3.6	6%	80%	75%
		Neighbourhood Park	0.9	2%	10%	10%
		Total Developed	***57.6***	***100%***	***68%***	***61%***
		Undevelopment/Woods		0%	0%	
R2	42.8	Logistic/Warehouse/Transporation	42.8	100%	95%	95%
		Total Developed	***42.8***	***100%***	***95%***	***95%***
		Undevelopment/Woods		0%	0%	
R3	44.4	Prestige Industrial	27.8	63%	95%	95%
		Business Park	8.3	19%	95%	95%
		Low/Medium Density Residential	8.2	19%	60%	50%
		Total Developed	***44.4***	***100%***	***89%***	***87%***
		Undevelopment/Woods	3.7	8%	0%	
R4a	31.3	Business Park	9.0	29%	95%	95%
		Logistic/Warehouse/Transporation	22.3	71%	95%	95%
		Total Developed	***31.3***	***100%***	***95%***	***95%***
		Undevelopment/Woods		0%	0%	
R4b	23.3	Business Park	23.3	100%	95%	95%
		Total Developed	***23.3***	***100%***	***95%***	***95%***
		Undevelopment/Woods		0%	0%	
R5	37.5	Business Park	37.5	100%	95%	95%
		Total Developed	***37.5***	***100%***	***95%***	***95%***
		Undevelopment/Woods				
R6	62.2	Business Park	62.2	100%	95%	95%
		Total Developed	***62.2***	***100%***	***95%***	***95%***
		Undevelopment/Woods				
R7a	41.6	Logistic/Warehouse/Transporation	41.6	100%	95%	95%
		Total Developed	***41.6***	***100%***	***95%***	***95%***
		Undevelopment/Woods		0%	0%	
R7b	21.5	Logistic/Warehouse/Transporation	21.5	100%	95%	95%
		Total Developed	***21.5***	***100%***	***95%***	***95%***
		Undevelopment/Woods		0%	0%	
R8	85.1	Logistic/Warehouse/Transporation	85.1	100%	95%	95%
		Total Developed	***85.1***	***100%***	***95%***	***95%***
		Undevelopment/Woods		0%	0%	
R9	24.9	Logistic/Warehouse/Transporation	24.9	100%	95%	95%
		Total Developed	***24.9***	***100%***	***95%***	***95%***
		Undevelopment/Woods				

Table K.3
SWM Pond Rating Curve Development

The Gore Road Tributary

G1 — Residential
drainage area = 49.5068 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.043	0.743	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.332		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	1.033		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

G2 — Residential
drainage area = 17.1667 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.015	0.258	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.128		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.400		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

G3 — Residential
drainage area = 119.7571 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.104	1.796	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
erosion control (to HDF)	*0.042*	*1.796*	*estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 120 hours. (if discharging to HDF)*
2-yr control	0.726		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	2.255		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

G4 — Residential
drainage area = 40.148 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.035	0.602	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
erosion control (to HDF)	*0.014*	*0.602*	*estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 120 hours. (if discharging to HDF)*
2-yr control	0.275		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.858		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

G5a — Residential
drainage area = 21.7664 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.019	0.326	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.159		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.496		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

G5b — Residential
drainage area = 12.1738 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.011	0.183	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.094		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.294		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

G6
drainage area = 7.9147 ha — Residential

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.007	0.119	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.063		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.199		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

G7 — Residential
drainage area = 34.2004 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.030	0.513	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.238		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.743		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

G8 — Residential
drainage area = 32.8415 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.029	0.493	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.230		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.717		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

Table K.3 con'd ...

SWM Pond Rating Curve Development

Clarkway Drive Tributary

C1 — Residential

drainage area = 19.2667 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.017	0.289	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.142		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.444		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

C2a — Residential

drainage area = 41.3458 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.036	0.620	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.282		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.880		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

C3 — Residential

drainage area = 19.475 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.017	0.292	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.144		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.449		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

C4 — Employment

drainage area = 58.8683 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.077	1.325	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
erosion control (to HDF)	*0.031*	*1.325*	*estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 120 hours. (if discharging to HDF)*
2-yr control	0.387		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	1.205		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

C5a

drainage area = 28.7864 ha — Employment

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.037	0.648	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.204		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.637		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

C5b

drainage area = 29.5055 ha — Employment

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.038	0.664	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
erosion control (to HDF)	*0.015*	*0.664*	*estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 120 hours. (if discharging to HDF)*
2-yr control	0.209		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.651		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

C6 — Residential

drainage area = 19.2545 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.017	0.289	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.142		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.444		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

Table K.3 con'd ...

SWM Pond Rating Curve Development

Rainbow Creek

R1 — Residential

drainage area = 57.6223 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.050	0.864	estimated storage = 25mm x runoff coeff. 0.6 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.380		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	1.183		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

R2 — Employment

drainage area = 42.7685 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.056	0.962	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.291		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.907		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

R3 — Employment

drainage area = 44.3846 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.058	0.999	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.301		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.938		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

R4a — Employment

drainage area = 31.2858 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.041	0.704	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.220		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.686		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

R4b — Employment

drainage area = 23.2661 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.030	0.523	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.169		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.526		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

R5 — Employment

drainage area = 37.5441 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.049	0.845	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.259		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.808		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

R6 — Employment

drainage area = 62.1615 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.081	1.399	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
2-yr control	0.406		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	1.265		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

Table K.3 con'd ...
SWM Pond Rating Curve Development

HWY 50 Tribs (Robinson / Rainbow Creek HDF's)

R7a — Employment

ex. drainage area = 39.3 ha
fut. drainage area = 41.6 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.054	0.936	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
erosion control (to HDF)	*0.022*	*0.936*	*estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 120 hours. (if discharging to HDF)*
2-yr control	0.270		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.841		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

R7b — Employment

ex. drainage area = 21.2 ha
fut. drainage area = 21.5 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.028	0.477	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
erosion control (to HDF)	*0.011*	*0.484*	*estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 120 hours. (if discharging to HDF)*
2-yr control	0.155		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.484		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

R8 — Employment

ex. drainage area = 75.9 ha
fut. drainage area = 85.1 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.099	1.708	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
erosion control (to HDF)	*0.044*	*1.915*	*estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 120 hours. (if discharging to HDF)*
2-yr control	0.485		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	1.509		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

R9 — Employment

ex. drainage area = 17.8 ha
fut. drainage area = 24.9 ha

	Q (m/s)	Storage (ha-m)	Notes
erosion control	0.023	0.401	estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 48 hours.
erosion control (to HDF)	*0.013*	*0.560*	*estimated storage = 25mm x runoff coeff. 0.9 = 12.5mm over d.area. Release rate = storage / 120 hours. (if discharging to HDF)*
2-yr control	0.132		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model
100-yr control	0.414		release rate from W.Humber Unit Flow equations. Storage determined in SWMHYMO model

```
==============================================================================

 SSSSS  W   W  M   M  H   H  Y   Y  M   M   OOO        999    999  =========
 S      W W W  MM MM  H   H   Y Y   MM MM  O   O      9   9  9   9
 SSSSS  W W W  M M M  HHHHH    Y    M M M  O   O  ##  9   9  9   9 Ver. 4.02
     S   W W   M   M  H   H    Y    M   M  O   O       9999   9999 July 1999
 SSSSS   W W   M   M  H   H    Y    M   M   OOO           9      9 =========
                                                       9   9  9   9 # 2686740
      StormWater Management HYdrologic Model            999    999  =========

 ***********************************************************************
 ************************** SWMHYMO-99 Ver/4.02 ***************************
 *******  A single event and continuous hydrologic simulation model  *******
 *******     based on the principles of HYMO and its successors      *******
 *******                 OTTHYMO-83 and OTTHYMO-89.                  *******
 ***********************************************************************
 ******* Distributed by:  J.F. Sabourin and Associates Inc.          *******
 *******                  Ottawa,  Ontario: (613) 727-5199           *******
 *******                  Gatineau, Quebec: (819) 243-6858           *******
 *******                  E-Mail: swmhymo@jfsa.Com                   *******
 ***********************************************************************

 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 +++++++ Licensed user: Aquafor Beech Ltd                           +++++++
 +++++++                                     SERIAL#:2686740        +++++++
 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

 ***********************************************************************
 *******           ++++++ PROGRAM ARRAY DIMENSIONS ++++++            *******
 *******           Maximum value for ID numbers  :     10            *******
 *******           Max. number of rainfall points:  15000            *******
 *******           Max. number of flow points    :  15000            *******
 ***********************************************************************


 ********************   D E T A I L E D   O U T P U T   ********************
 ***********************************************************************
 *       DATE: 2016-04-25     TIME: 14:55:17     RUN COUNTER: 003094       *
 ***********************************************************************
 * Input   filename: C:\AREA47~1\06-C7A~1\P1AREA~1.DAT                   *
 * Output  filename: C:\AREA47~1\06-C7A~1\P1AREA~1.out                   *
 * Summary filename: C:\AREA47~1\06-C7A~1\P1AREA~1.sum                   *
 * User comments:                                                        *
 * 1:____________________________________________________________________*
 * 2:____________________________________________________________________*
 * 3:____________________________________________________________________*
 ***********************************************************************


-----------------------------------------------------------------------------
001:0001-------------------------------------------------------------------
*#***************************************************************************
*#  Project Name: [Area 47]    Project Number: [64608.1]
*#  Date        : 31-07-2015
*#  Modeller    : [         ]
*#  Company     : Aquafor Beech Ltd
*#  License #   :  2686740
*#  SWM Pond analysis - 100 yr and DRC updated for drain to HDF option
*#***************************************************************************
--------------------
| START            |  Project  dir.: C:\AREA47~1\06-C7A~1\
--------------------  Rainfall dir.: C:\AREA47~1\06-C7A~1\
    TZERO =   .00 hrs on        0
    METOUT=   2 (output = METRIC)
    NRUN  = 001
    NSTORM=   1
            #  1=100y6.STM <--storm filename, one per line for NSTORM time
-----------------------------------------------------------------------------
001:0002-------------------------------------------------------------------
--------------------
| READ STORM       |    Filename: C:\AREA47~1\06-C7A~1\100y6.STM <-
| Ptotal=  80.31 mm|    Comments: 100yr/6hr
--------------------
              TIME    RAIN |   TIME    RAIN |   TIME    RAIN |   TIME    RAIN
               hrs   mm/hr |    hrs   mm/hr |    hrs   mm/hr |    hrs   mm/hr
               .25    .000 |   2.00  27.300 |   3.75  11.240 |   5.50   1.610
               .50   1.610 |   2.25  27.300 |   4.00   6.420 |   5.75   1.610
               .75   1.610 |   2.50  73.880 |   4.25   6.420 |   6.00   1.610
              1.00   1.610 |   2.75  73.880 |   4.50   3.210 |   6.25   1.610
              1.25   1.610 |   3.00  20.880 |   4.75   3.210 |
              1.50   9.640 |   3.25  20.880 |   5.00   1.610 |
              1.75   9.640 |   3.50  11.240 |   5.25   1.610 |

-----------------------------------------------------------------------------
001:0003-------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G1
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   49.50
| 01:G1     DT= 5.00 |   Total Imp(%)=   60.00   Dir. Conn.(%)=   50.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      29.70        19.80
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     574.50        40.00
     Mannings n          =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        73.68
                over (min)      10.00        20.00
     Storage Coeff.  (min)=       8.97 (ii)   17.56 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .12          .06
                                                        *TOTALS*
     PEAK FLOW       (cms)=       4.91         3.00         7.712 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      78.31        53.96        66.136
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .67          .824

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  86.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-----------------------------------------------------------------------------
001:0004-------------------------------------------------------------------
--------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(G1    )   |
| OUT<02:(PondG1)   |    =========  OUTLFOW STORAGE TABLE  =========
--------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                          (cms)    (ha.m.)   |    (cms)    (ha.m.)
                           .000  .0000E+00   |     .332  .1007E+01
                           .043  .7430E+00   |    1.033  .2461E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G1    )      49.50     7.712     2.750     66.136
     OUTFLOW<02: (PondG1)      49.50     1.033     4.167     66.135

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   13.392
                    TIME SHIFT OF PEAK FLOW         (min)=    85.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.2461E+01

-----------------------------------------------------------------------------
001:0005-------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G2
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   17.20
| 01:G2     DT= 5.00 |   Total Imp(%)=   66.00   Dir. Conn.(%)=   59.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      11.35         5.85
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     338.30        40.00
     Mannings n          =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        71.97
                over (min)       5.00        15.00
     Storage Coeff.  (min)=       6.53 (ii)   15.20 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .18          .07
                                                        *TOTALS*
     PEAK FLOW       (cms)=       2.07          .92         2.966 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      78.31        53.27        68.043
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .66          .847

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  86.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-----------------------------------------------------------------------------
001:0006-------------------------------------------------------------------
--------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(G2    )   |
| OUT<02:(PondG2)   |    =========  OUTLFOW STORAGE TABLE  =========
--------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                          (cms)    (ha.m.)   |    (cms)    (ha.m.)
                           .000  .0000E+00   |     .128  .3670E+00
                           .015  .2580E+00   |     .400  .8700E+00

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G2    )      17.20     2.966     2.750     68.043
     OUTFLOW<02: (PondG2)      17.20      .400     3.917     68.042

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   13.477
                    TIME SHIFT OF PEAK FLOW         (min)=    70.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.8698E+00

-----------------------------------------------------------------------------
001:0007-------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G3 (drain to Main branch)
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=  119.80
| 01:G3     DT= 5.00 |   Total Imp(%)=   60.00   Dir. Conn.(%)=   51.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      71.88        47.92
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     893.50        40.00
     Mannings n          =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        71.76
                over (min)      10.00        20.00
     Storage Coeff.  (min)=      11.69 (ii)   20.37 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .10          .06
                                                        *TOTALS*
     PEAK FLOW       (cms)=      11.72         6.74        17.881 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92         2.750
     RUNOFF VOLUME    (mm)=      78.31        53.57        66.189
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .67          .824

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  86.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-----------------------------------------------------------------------------
001:0008-------------------------------------------------------------------
--------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
```

```
|  IN>01:(G3    )   |
| OUT<02:(PondG3)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .726  .2469E+01
                            .104  .1796E+01   |    2.255  .6077E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G3    )     119.80    17.881     2.750     66.189
     OUTFLOW<02: (PondG3)     119.80     2.255     4.333     66.188

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   12.610
                    TIME SHIFT OF PEAK FLOW         (min)=    95.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.6078E+01

-------------------------------------------------------------------------------
001:0009-----------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G3 (drain to HDF)
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=  119.80
| 01:G3     DT= 5.00 |   Total Imp(%)=   60.00   Dir. Conn.(%)=   51.00
----------------------                    IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      71.88        47.92
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     893.50        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        71.76
                over (min)       10.00        20.00
     Storage Coeff.  (min)=      11.69 (ii)   20.37 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .10          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=      11.72         6.74        17.881 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92         2.750
     RUNOFF VOLUME    (mm)=      78.31        53.57        66.189
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .67          .824

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  86.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0010-----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(G3    )   |
| OUT<02:(PondG3)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .726  .2489E+01
                            .042  .1796E+01   |    2.255  .6087E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G3    )     119.80    17.881     2.750     66.189
     OUTFLOW<02: (PondG3)     119.80     2.255     4.333     66.186

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   12.609
                    TIME SHIFT OF PEAK FLOW         (min)=    95.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.6088E+01

-------------------------------------------------------------------------------
001:0011-----------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G4 (drain to Main Branch)
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   40.10
| 01:G4     DT= 5.00 |   Total Imp(%)=   53.00   Dir. Conn.(%)=   43.00
----------------------                    IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      21.25        18.85
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     517.40        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        72.50
                over (min)       10.00        15.00
     Storage Coeff.  (min)=       8.42 (ii)   17.07 (ii)
     Unit Hyd. Tpeak (min)=      10.00        15.00
     Unit Hyd. peak  (cms)=        .12          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       3.44         2.88         6.234 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      78.31        53.38        64.100
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .66          .798

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  86.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0012-----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(G4    )   |
| OUT<02:(PondG4)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .275  .7660E+00
                            .035  .6020E+00   |     .858  .1907E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G4    )      40.10     6.234     2.750     64.100
     OUTFLOW<02: (PondG4)      40.10      .858     4.167     64.099

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   13.762
                    TIME SHIFT OF PEAK FLOW         (min)=    85.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.1907E+01

-------------------------------------------------------------------------------
001:0013-----------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G4 (drain to HDF)
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   40.10
| 01:G4     DT= 5.00 |   Total Imp(%)=   53.00   Dir. Conn.(%)=   43.00
----------------------                    IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      21.25        18.85
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     517.40        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        72.50
                over (min)       10.00        15.00
     Storage Coeff.  (min)=       8.42 (ii)   17.07 (ii)
     Unit Hyd. Tpeak (min)=      10.00        15.00
     Unit Hyd. peak  (cms)=        .12          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       3.44         2.88         6.234 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      78.31        53.38        64.100
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .66          .798

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  86.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0014-----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(G4    )   |
| OUT<02:(PondG4)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .275  .7720E+00
                            .014  .6020E+00   |     .858  .1910E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G4    )      40.10     6.234     2.750     64.100
     OUTFLOW<02: (PondG4)      40.10      .858     4.167     64.097

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   13.761
                    TIME SHIFT OF PEAK FLOW         (min)=    85.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.1910E+01

-------------------------------------------------------------------------------
001:0015-----------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G5a
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   21.80
| 01:G5a    DT= 5.00 |   Total Imp(%)=   58.00   Dir. Conn.(%)=   48.00
----------------------                    IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      12.64         9.16
     Dep. Storage     (mm)=       4.00         2.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     380.90        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        75.14
                over (min)        5.00        15.00
     Storage Coeff.  (min)=       7.01 (ii)   15.53 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .17          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       2.13         1.50         3.602 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      76.31        55.25        65.358
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .95          .69          .814

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  86.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0016-----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(G5a   )   |
| OUT<02:(PondG5)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .159  .4260E+00
                            .019  .3260E+00   |     .496  .1051E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G5a   )      21.80     3.602     2.750     65.358
     OUTFLOW<02: (PondG5)      21.80      .496     4.000     65.357
```

```
                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   13.758
                    TIME SHIFT OF PEAK FLOW         (min)=    75.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.1050E+01

-------------------------------------------------------------------------------
001:0017-----------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G5b
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   12.20
| 01:G5b    DT= 5.00 |   Total Imp(%)=   58.00   Dir. Conn.(%)=   48.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       7.08         5.12
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     284.90        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        74.44
                over (min)       5.00        15.00
     Storage Coeff.  (min)=       5.89 (ii)   14.44 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .19          .08
                                                          *TOTALS*
     PEAK FLOW       (cms)=       1.20          .84          2.027 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        53.78         65.553
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .67           .816

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  86.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0018-----------------------------------------------------------------------
----------------------
| ROUTE RESERVOIR    |    Requested routing time step =  5.0 min.
|  IN>01:(G5b    )   |
| OUT<02:(PondG5)    |    =========  OUTLFOW STORAGE TABLE  =========
----------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                            (cms)    (ha.m.)   |    (cms)    (ha.m.)
                             .000  .0000E+00   |     .094  .2400E+00
                             .011  .1830E+00   |     .294  .5830E+00

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G5b   )      12.20     2.027     2.750     65.553
     OUTFLOW<02: (PondG5)      12.20      .294     3.917     65.552

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   14.499
                    TIME SHIFT OF PEAK FLOW         (min)=    70.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.5829E+00

-------------------------------------------------------------------------------
001:0019-----------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G6
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=    7.90
| 01:G6     DT= 5.00 |   Total Imp(%)=   54.00   Dir. Conn.(%)=   45.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       4.27         3.63
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     229.70        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        71.18
                over (min)       5.00        15.00
     Storage Coeff.  (min)=       5.18 (ii)   13.88 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .21          .08
                                                          *TOTALS*
     PEAK FLOW       (cms)=        .73          .58          1.296 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        53.10         64.446
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .66           .802

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  86.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0020-----------------------------------------------------------------------
----------------------
| ROUTE RESERVOIR    |    Requested routing time step =  5.0 min.
|  IN>01:(G6     )   |
| OUT<02:(PondG6)    |    =========  OUTLFOW STORAGE TABLE  =========
----------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                            (cms)    (ha.m.)   |    (cms)    (ha.m.)
                             .000  .0000E+00   |     .063  .1500E+00
                             .007  .1180E+00   |     .199  .3660E+00

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G6    )       7.90     1.296     2.750     64.446
     OUTFLOW<02: (PondG6)       7.90      .199     3.917     64.445

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   15.326
                    TIME SHIFT OF PEAK FLOW         (min)=    70.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.3656E+00

-------------------------------------------------------------------------------
001:0021-----------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G7
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   34.20
| 01:G7     DT= 5.00 |   Total Imp(%)=   56.00   Dir. Conn.(%)=   46.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      19.15        15.05
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     477.50        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        76.80
                over (min)      10.00        15.00
     Storage Coeff.  (min)=       8.03 (ii)   16.47 (ii)
     Unit Hyd. Tpeak (min)=      10.00        15.00
     Unit Hyd. peak  (cms)=        .13          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       3.15         2.49          5.583 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        56.39         66.476
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .70           .828

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0022-----------------------------------------------------------------------
----------------------
| ROUTE RESERVOIR    |    Requested routing time step =  5.0 min.
|  IN>01:(G7     )   |
| OUT<02:(PondG7)    |    =========  OUTLFOW STORAGE TABLE  =========
----------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                            (cms)    (ha.m.)   |    (cms)    (ha.m.)
                             .000  .0000E+00   |     .283  .5530E+00
                             .025  .4280E+00   |     .743  .1679E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G7    )      34.20     5.583     2.750     66.476
     OUTFLOW<02: (PondG7)      34.20      .743     4.083     66.474

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   13.303
                    TIME SHIFT OF PEAK FLOW         (min)=    80.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.1679E+01

-------------------------------------------------------------------------------
001:0023-----------------------------------------------------------------------
*#***************************************************************************
*#  Gore Road Tributary - G8
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   32.80
| 01:G8     DT= 5.00 |   Total Imp(%)=   63.00   Dir. Conn.(%)=   55.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      20.66        12.14
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     467.90        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        75.95
                over (min)      10.00        15.00
     Storage Coeff.  (min)=       7.93 (ii)   16.42 (ii)
     Unit Hyd. Tpeak (min)=      10.00        15.00
     Unit Hyd. peak  (cms)=        .13          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       3.62         1.98          5.559 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        56.23         68.374
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .70           .851

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0024-----------------------------------------------------------------------
----------------------
| ROUTE RESERVOIR    |    Requested routing time step =  5.0 min.
|  IN>01:(G8     )   |
| OUT<02:(PondG8)    |    =========  OUTLFOW STORAGE TABLE  =========
----------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                            (cms)    (ha.m.)   |    (cms)    (ha.m.)
                             .000  .0000E+00   |     .230  .7040E+00
                             .029  .4930E+00   |     .717  .1689E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (G8    )      32.80     5.559     2.750     68.374
     OUTFLOW<02: (PondG8)      32.80      .717     4.083     68.373

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   12.898
                    TIME SHIFT OF PEAK FLOW         (min)=    80.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.1689E+01

-------------------------------------------------------------------------------
001:0025-----------------------------------------------------------------------
*#***************************************************************************
*#  Clarkway Drive Tributary - C1
*#***************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   19.30
| 01:C1     DT= 5.00 |   Total Imp(%)=   60.00   Dir. Conn.(%)=   50.00
```

```
----------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      11.58         7.72
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     358.40        40.00
     Mannings n          =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        78.56
                over (min)       5.00        15.00
     Storage Coeff.  (min)=       6.76 (ii)   15.13 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .18          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       1.97         1.34          3.282 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        56.73         67.518
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .71           .841

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0026----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(C1    )   |
| OUT<02:(PondC1)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .142  .4020E+00
                            .017  .2890E+00   |     .444  .9680E+00

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (C1    )      19.30     3.282     2.750     67.518
     OUTFLOW<02: (PondC1)      19.30      .444     4.000     67.517

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   13.518
                    TIME SHIFT OF PEAK FLOW         (min)=    75.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.9675E+00

--------------------------------------------------------------------------------
001:0027----------------------------------------------------------------------
*#******************************************************************************
*#  Clarkway Drive Tributary - C2a
*#******************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   41.30
| 01:C2a    DT= 5.00 |   Total Imp(%)=   72.00   Dir. Conn.(%)=   66.00
----------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      29.74        11.56
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     525.00        40.00
     Mannings n          =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        75.80
                over (min)      10.00        15.00
     Storage Coeff.  (min)=       8.50 (ii)   16.99 (ii)
     Unit Hyd. Tpeak (min)=      10.00        15.00
     Unit Hyd. peak  (cms)=        .12          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       5.44         1.87          7.259 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        56.20         70.793
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .70           .881

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0028----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(C2a   )   |
| OUT<02:(PondC2)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .282  .9560E+00
                            .036  .6200E+00   |     .880  .2236E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (C2a   )      41.30     7.259     2.750     70.793
     OUTFLOW<02: (PondC2)      41.30      .880     4.083     70.792

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   12.120
                    TIME SHIFT OF PEAK FLOW         (min)=    80.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.2236E+01

--------------------------------------------------------------------------------
001:0029----------------------------------------------------------------------
*#******************************************************************************
*#  Clarkway Drive Tributary - C3
*#******************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   19.50
| 01:C3     DT= 5.00 |   Total Imp(%)=   69.00   Dir. Conn.(%)=   62.00
----------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      13.45         6.05
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     360.30        40.00
     Mannings n          =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        76.69
                over (min)       5.00        15.00
     Storage Coeff.  (min)=       6.78 (ii)   15.23 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .18          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       2.46         1.02          3.464 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        56.37         69.974
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .70           .871

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0030----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(C3    )   |
| OUT<02:(PondC3)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .144  .4360E+00
                            .017  .2920E+00   |     .449  .1024E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (C3    )      19.50     3.464     2.750     69.974
     OUTFLOW<02: (PondC3)      19.50      .449     4.000     69.973

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   12.958
                    TIME SHIFT OF PEAK FLOW         (min)=    75.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.1024E+01

--------------------------------------------------------------------------------
001:0031----------------------------------------------------------------------
*#******************************************************************************
*#  Clarkway Drive Tributary - C4 (drain to Main Branch)
*#******************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   58.90
| 01:C4     DT= 5.00 |   Total Imp(%)=   83.00   Dir. Conn.(%)=   80.00
----------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      48.89        10.01
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     626.50        40.00
     Mannings n          =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        71.40
                over (min)      10.00        20.00
     Storage Coeff.  (min)=       9.45 (ii)   18.15 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .12          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=       9.31         1.46         10.669 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92          2.750
     RUNOFF VOLUME    (mm)=      78.31        55.62         73.772
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .69           .919

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0032----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(C4    )   |
| OUT<02:(PondC4)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .387  .1539E+01
                            .077  .1325E+01   |    1.205  .3395E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (C4    )      58.90    10.669     2.750     73.772
     OUTFLOW<02: (PondC4)      58.90     1.205     4.167     73.771

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.293
                    TIME SHIFT OF PEAK FLOW         (min)=    85.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.3395E+01

--------------------------------------------------------------------------------
001:0033----------------------------------------------------------------------
*#******************************************************************************
*#  Clarkway Drive Tributary - C4 (drain to HDF)
*#******************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   58.90
| 01:C4     DT= 5.00 |   Total Imp(%)=   83.00   Dir. Conn.(%)=   80.00
----------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      48.89        10.01
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     626.50        40.00
     Mannings n          =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        71.40
                over (min)      10.00        20.00
     Storage Coeff.  (min)=       9.45 (ii)   18.15 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
```

```
     Unit Hyd. peak  (cms)=        .12          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=       9.31         1.46        10.669 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92         2.750
     RUNOFF VOLUME    (mm)=      78.31        55.62        73.772
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .69          .919

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0034----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(C4    )   |
| OUT<02:(PondC4)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .387  .1554E+01
                            .031  .1325E+01   |    1.205  .3402E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (C4    )      58.90    10.669     2.750     73.772
     OUTFLOW<02: (PondC4)      58.90     1.205     4.167     73.768

                   PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.292
                   TIME SHIFT OF PEAK FLOW         (min)=    85.00
                   MAXIMUM  STORAGE   USED       (ha.m.)=.3401E+01

--------------------------------------------------------------------------------
001:0035----------------------------------------------------------------------
*#******************************************************************************
*#  Clarkway Drive Tributary - C5a
*#******************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   28.80
| 01:C5a    DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
---------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      27.36         1.44
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     438.10        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        59.27
                over (min)       10.00        15.00
     Storage Coeff.  (min)=       7.62 (ii)   16.99 (ii)
     Unit Hyd. Tpeak (min)=      10.00        15.00
     Unit Hyd. peak  (cms)=        .13          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       5.51          .18         5.680 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      78.31        52.49        77.019
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .65          .959

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0036----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(C5a   )   |
| OUT<02:(PondC5)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .204  .8090E+00
                            .037  .6480E+00   |     .637  .1733E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (C5a   )      28.80     5.680     2.750     77.019
     OUTFLOW<02: (PondC5)      28.80      .637     4.000     77.017

                   PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.214
                   TIME SHIFT OF PEAK FLOW         (min)=    75.00
                   MAXIMUM  STORAGE   USED       (ha.m.)=.1733E+01

--------------------------------------------------------------------------------
001:0037----------------------------------------------------------------------
*#******************************************************************************
*#  Clarkway Drive Tributary - C5b (drain to Main Branch)
*#******************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   29.50
| 01:C5b    DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
---------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      28.02         1.48
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     443.50        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        59.27
                over (min)       10.00        15.00
     Storage Coeff.  (min)=       7.68 (ii)   17.05 (ii)
     Unit Hyd. Tpeak (min)=      10.00        15.00
     Unit Hyd. peak  (cms)=        .13          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       5.64          .18         5.815 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      78.31        52.49        77.019
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .65          .959

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0038----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(C5b   )   |
| OUT<02:(PondC5)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .209  .8280E+00
                            .038  .6640E+00   |     .651  .1776E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (C5b   )      29.50     5.815     2.750     77.019
     OUTFLOW<02: (PondC5)      29.50      .651     4.000     77.017

                   PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.192
                   TIME SHIFT OF PEAK FLOW         (min)=    75.00
                   MAXIMUM  STORAGE   USED       (ha.m.)=.1776E+01

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001:0039----------------------------------------------------------------------
*#******************************************************************************
*#  Clarkway Drive Tributary - C5b (drain to HDF)
*#******************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   29.50
| 01:C5b    DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
---------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      28.02         1.48
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     443.50        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        59.27
                over (min)       10.00        15.00
     Storage Coeff.  (min)=       7.68 (ii)   17.05 (ii)
     Unit Hyd. Tpeak (min)=      10.00        15.00
     Unit Hyd. peak  (cms)=        .13          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       5.64          .18         5.815 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      78.31        52.49        77.019
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .65          .959

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0040----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(C5b   )   |
| OUT<02:(PondC5)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .209  .8350E+00
                            .015  .6640E+00   |     .651  .1780E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (C5b   )      29.50     5.815     2.750     77.019
     OUTFLOW<02: (PondC5)      29.50      .651     4.000     77.015

                   PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.188
                   TIME SHIFT OF PEAK FLOW         (min)=    75.00
                   MAXIMUM  STORAGE   USED       (ha.m.)=.1780E+01

--------------------------------------------------------------------------------
001:0041----------------------------------------------------------------------
*#******************************************************************************
*#  Clarkway Drive Tributary - C6
*#******************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   19.30
| 01:C6     DT= 5.00 |   Total Imp(%)=   63.00   Dir. Conn.(%)=   54.00
---------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      12.16         7.14
     Dep. Storage     (mm)=       2.00         4.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     358.30        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        78.04
                over (min)        5.00        15.00
     Storage Coeff.  (min)=       6.76 (ii)   15.15 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .18          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       2.12         1.23         3.331 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      78.31        56.63        68.336
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .71          .851

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
```

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     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0042----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(C6    )   |
| OUT<02:(PondC6)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .142  .4110E+00
                            .017  .2880E+00   |     .444  .9830E+00

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (C6    )      19.30     3.331     2.750     68.336
     OUTFLOW<02: (PondC6)      19.30      .444     4.000     68.335

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   13.324
                    TIME SHIFT OF PEAK FLOW         (min)=    75.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.9829E+00

--------------------------------------------------------------------------------
001:0043----------------------------------------------------------------------
*#*****************************************************************************
*#  Rainbow Creek - R1
*#*****************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   57.60
| 01:R1     DT= 5.00 |   Total Imp(%)=   68.00   Dir. Conn.(%)=   61.00
---------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      39.17        18.43
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     619.80        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        74.28
                over (min)      10.00        20.00
     Storage Coeff.  (min)=       9.39 (ii)   17.95 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .12          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=       6.94         2.80          9.558 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        55.51         69.417
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .69           .864

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  88.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0044----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R1    )   |
| OUT<02:(PondR1)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .380  .1284E+01
                            .050  .8640E+00   |    1.183  .3057E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R1    )      57.60     9.558     2.750     69.417
     OUTFLOW<02: (PondR1)      57.60     1.183     4.250     69.415

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   12.375
                    TIME SHIFT OF PEAK FLOW         (min)=    90.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.3057E+01

--------------------------------------------------------------------------------
001:0045----------------------------------------------------------------------
*#*****************************************************************************
*#  Rainbow Creek - R2
*#*****************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   42.80
| 01:R2     DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
---------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      40.66         2.14
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     534.00        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        51.15
                over (min)      10.00        20.00
     Storage Coeff.  (min)=       8.59 (ii)   18.52 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .12          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=       8.11          .22          8.303 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92          2.750
     RUNOFF VOLUME    (mm)=      78.31        45.85         76.687
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .57           .955

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0046----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R2    )   |
| OUT<02:(PondR2)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .291  .1200E+01
                            .056  .9620E+00   |     .907  .2579E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R2    )      42.80     8.303     2.750     76.687
     OUTFLOW<02: (PondR2)      42.80      .907     4.000     76.686

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   10.923
                    TIME SHIFT OF PEAK FLOW         (min)=    75.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.2579E+01

--------------------------------------------------------------------------------
001:0047----------------------------------------------------------------------
*#*****************************************************************************
*#  Rainbow Creek - R3
*#*****************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   44.40
| 01:R3     DT= 5.00 |   Total Imp(%)=   89.00   Dir. Conn.(%)=   87.00
---------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      39.52         4.88
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     544.00        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        64.72
                over (min)      10.00        20.00
     Storage Coeff.  (min)=       8.68 (ii)   17.73 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .12          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=       7.69          .64          8.282 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92          2.750
     RUNOFF VOLUME    (mm)=      78.31        49.46         74.560
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .62           .928

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0048----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R3    )   |
| OUT<02:(PondR3)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .301  .1186E+01
                            .058  .9990E+00   |     .938  .2582E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R3    )      44.40     8.282     2.750     74.560
     OUTFLOW<02: (PondR3)      44.40      .938     4.083     74.559

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.324
                    TIME SHIFT OF PEAK FLOW         (min)=    80.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.2582E+01

--------------------------------------------------------------------------------
001:0049----------------------------------------------------------------------
*#*****************************************************************************
*#  Rainbow Creek - R4a
*#*****************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   31.30
| 01:R4a    DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
---------------------
                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      29.74         1.57
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     456.70        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        51.15
                over (min)      10.00        20.00
     Storage Coeff.  (min)=       7.82 (ii)   17.75 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .13          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=       5.97          .16          6.120 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92          2.750
     RUNOFF VOLUME    (mm)=      78.31        45.85         76.687
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .57           .955

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0050----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R4a   )   |
| OUT<02:(PondR4)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .220  .8750E+00
                            .041  .7040E+00   |     .686  .1876E+01
```

```
     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     -------------------        (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R4a   )      31.30     6.120     2.750     76.687
     OUTFLOW<02: (PondR4)      31.30      .686     4.000     76.686

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.208
                    TIME SHIFT OF PEAK FLOW         (min)=    75.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.1876E+01

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001:0051-----------------------------------------------------------------------
*#***************************************************************************
*#  Rainbow Creek - R4b
*#***************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   23.30
| 01:R4b    DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
---------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      22.14         1.17
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     393.80        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        52.86
                over (min)        5.00        15.00
     Storage Coeff.  (min)=       7.15 (ii)   16.96 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .17          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       4.50          .13         4.620 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83         2.750
     RUNOFF VOLUME    (mm)=      78.31        45.85        76.687
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .57          .955

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0052-----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R4b   )   |
| OUT<02:(PondR4)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .169  .6490E+00
                            .030  .5240E+00   |     .526  .1390E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     -------------------        (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R4b   )      23.30     4.620     2.750     76.687
     OUTFLOW<02: (PondR4)      23.30      .526     3.917     76.685

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.384
                    TIME SHIFT OF PEAK FLOW         (min)=    70.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.1390E+01

-------------------------------------------------------------------------------
001:0053-----------------------------------------------------------------------
*#***************************************************************************
*#  Rainbow Creek - R5
*#***************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   37.50
| 01:R5     DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
---------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      35.63         1.88
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     500.30        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        51.15
                over (min)       10.00        20.00
     Storage Coeff.  (min)=       8.26 (ii)   18.19 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .13          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=       7.13          .19         7.300 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92         2.750
     RUNOFF VOLUME    (mm)=      78.31        45.85        76.687
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .57          .955

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0054-----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R5    )   |
| OUT<02:(PondR5)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .259  .1050E+01
                            .049  .8450E+00   |     .808  .2254E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     -------------------        (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R5    )      37.50      .808     4.000     76.686
     OUTFLOW<02: (PondR5)      37.50      .808     4.000     76.686

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.066
                    TIME SHIFT OF PEAK FLOW         (min)=    75.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.2254E+01

-------------------------------------------------------------------------------
001:0055-----------------------------------------------------------------------
*#***************************************************************************
*#  Rainbow Creek - R6
*#***************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   62.20
| 01:R6     DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
---------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      59.09         3.11
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     643.70        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        51.15
                over (min)       10.00        20.00
     Storage Coeff.  (min)=       9.60 (ii)   19.54 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .11          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=      11.65          .31        11.925 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92         2.750
     RUNOFF VOLUME    (mm)=      78.31        45.85        76.687
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .57          .955

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0056-----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R6    )   |
| OUT<02:(PondR6)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .406  .1750E+01
                            .081  .1399E+01   |    1.265  .3772E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     -------------------        (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R6    )      62.20    11.925     2.750     76.687
     OUTFLOW<02: (PondR6)      62.20     1.265     4.083     76.686

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   10.608
                    TIME SHIFT OF PEAK FLOW         (min)=    80.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.3772E+01

-------------------------------------------------------------------------------
001:0057-----------------------------------------------------------------------
*#***************************************************************************
*#  Rainbow Creek - R7a (drain to HDF)
*#***************************************************************************
---------------------
| CALIB STANDHYD     |   Area    (ha)=   41.60
| 01:R7a    DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
---------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      39.52         2.08
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     526.60        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        51.15
                over (min)       10.00        20.00
     Storage Coeff.  (min)=       8.51 (ii)   18.45 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .12          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=       7.89          .21         8.076 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92         2.750
     RUNOFF VOLUME    (mm)=      78.31        45.85        76.687
     TOTAL RAINFALL   (mm)=      80.31        80.31        80.310
     RUNOFF COEFFICIENT   =        .98          .57          .955

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
001:0058-----------------------------------------------------------------------
---------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R7a   )   |
| OUT<02:(PondR7)   |    =========  OUTLFOW STORAGE TABLE  =========
---------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                           (cms)    (ha.m.)   |    (cms)    (ha.m.)
                            .000  .0000E+00   |     .270  .1175E+01
                            .020  .8840E+00   |     .841  .2530E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     -------------------        (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R7a   )      41.60     8.076     2.750     76.687
     OUTFLOW<02: (PondR7)      41.60      .841     4.083     76.685

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)=   10.413
                    TIME SHIFT OF PEAK FLOW         (min)=    80.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=.2530E+01

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001:0059-----------------------------------------------------------------------
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*#*****************************************************************************
*#  Rainbow Creek - R7b (drain to HDF)
*#*****************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   21.50
| 01:R7a    DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      20.42         1.08
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     378.60        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        52.86
                over (min)        5.00        15.00
     Storage Coeff.  (min)=       6.98 (ii)   16.79 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .17          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       4.16          .12          4.267 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        45.85         76.687
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .57           .955

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0060----------------------------------------------------------------------
--------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R7a    )   |
| OUT<02:(PondR7)   |    =========  OUTLFOW STORAGE TABLE  =========
--------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                          (cms)    (ha.m.)   |    (cms)    (ha.m.)
                           .000  .0000E+00   |     .155  .6030E+00
                           .011  .4770E+00   |     .484  .1286E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R7a    )      21.50     4.267     2.750     76.687
     OUTFLOW<02: (PondR7)       21.50      .484     3.917     76.685

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)=   11.339
                  TIME SHIFT OF PEAK FLOW         (min)=    70.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=.1286E+01

--------------------------------------------------------------------------------
001:0061----------------------------------------------------------------------
*#*****************************************************************************
*#  Rainbow Creek - R8 (drain to HDF)
*#*****************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   85.10
| 01:R8     DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      80.84         4.26
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     753.20        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        51.15
                over (min)       10.00        20.00
     Storage Coeff.  (min)=      10.55 (ii)   20.49 (ii)
     Unit Hyd. Tpeak (min)=      10.00        20.00
     Unit Hyd. peak  (cms)=        .11          .06
                                                          *TOTALS*
     PEAK FLOW       (cms)=      15.75          .42         16.119 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.92          2.750
     RUNOFF VOLUME    (mm)=      78.31        45.85         76.687
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .57           .955

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0062----------------------------------------------------------------------
--------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R8     )   |
| OUT<02:(PondR8)   |    =========  OUTLFOW STORAGE TABLE  =========
--------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                          (cms)    (ha.m.)   |    (cms)    (ha.m.)
                           .000  .0000E+00   |     .485  .2422E+01
                           .040  .1708E+01   |    1.509  .5285E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R8    )       85.10    16.119     2.750     76.687
     OUTFLOW<02: (PondR8)       85.10     1.509     4.333     76.685

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)=    9.361
                  TIME SHIFT OF PEAK FLOW         (min)=    95.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=.5285E+01

--------------------------------------------------------------------------------
001:0063----------------------------------------------------------------------
*#*****************************************************************************
*#  Rainbow Creek - R9 (drain to HDF)
*#*****************************************************************************
----------------------
| CALIB STANDHYD     |   Area    (ha)=   24.90
| 01:R9     DT= 5.00 |   Total Imp(%)=   95.00   Dir. Conn.(%)=   95.00
----------------------
                              IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      23.65         1.25
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       1.00         1.00
     Length            (m)=     407.40        40.00
     Mannings n           =       .015         .200

     Max.eff.Inten.(mm/hr)=      73.88        52.86
                over (min)        5.00        15.00
     Storage Coeff.  (min)=       7.30 (ii)   17.11 (ii)
     Unit Hyd. Tpeak (min)=       5.00        15.00
     Unit Hyd. peak  (cms)=        .17          .07
                                                          *TOTALS*
     PEAK FLOW       (cms)=       4.80          .13          4.933 (iii)
     TIME TO PEAK    (hrs)=       2.75         2.83          2.750
     RUNOFF VOLUME    (mm)=      78.31        45.85         76.687
     TOTAL RAINFALL   (mm)=      80.31        80.31         80.310
     RUNOFF COEFFICIENT   =        .98          .57           .955

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN* =  84.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
001:0064----------------------------------------------------------------------
--------------------
| ROUTE RESERVOIR   |    Requested routing time step =  5.0 min.
|  IN>01:(R9     )   |
| OUT<02:(PondR9)   |    =========  OUTLFOW STORAGE TABLE  =========
--------------------    OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
                          (cms)    (ha.m.)   |    (cms)    (ha.m.)
                           .000  .0000E+00   |     .132  .7080E+00
                           .009  .4010E+00   |     .414  .1563E+01

     ROUTING RESULTS            AREA     QPEAK     TPEAK       R.V.
     --------------------       (ha)     (cms)     (hrs)       (mm)
     INFLOW >01: (R9    )       24.90     4.933     2.750     76.687
     OUTFLOW<02: (PondR9)       24.90      .414     4.250     76.683

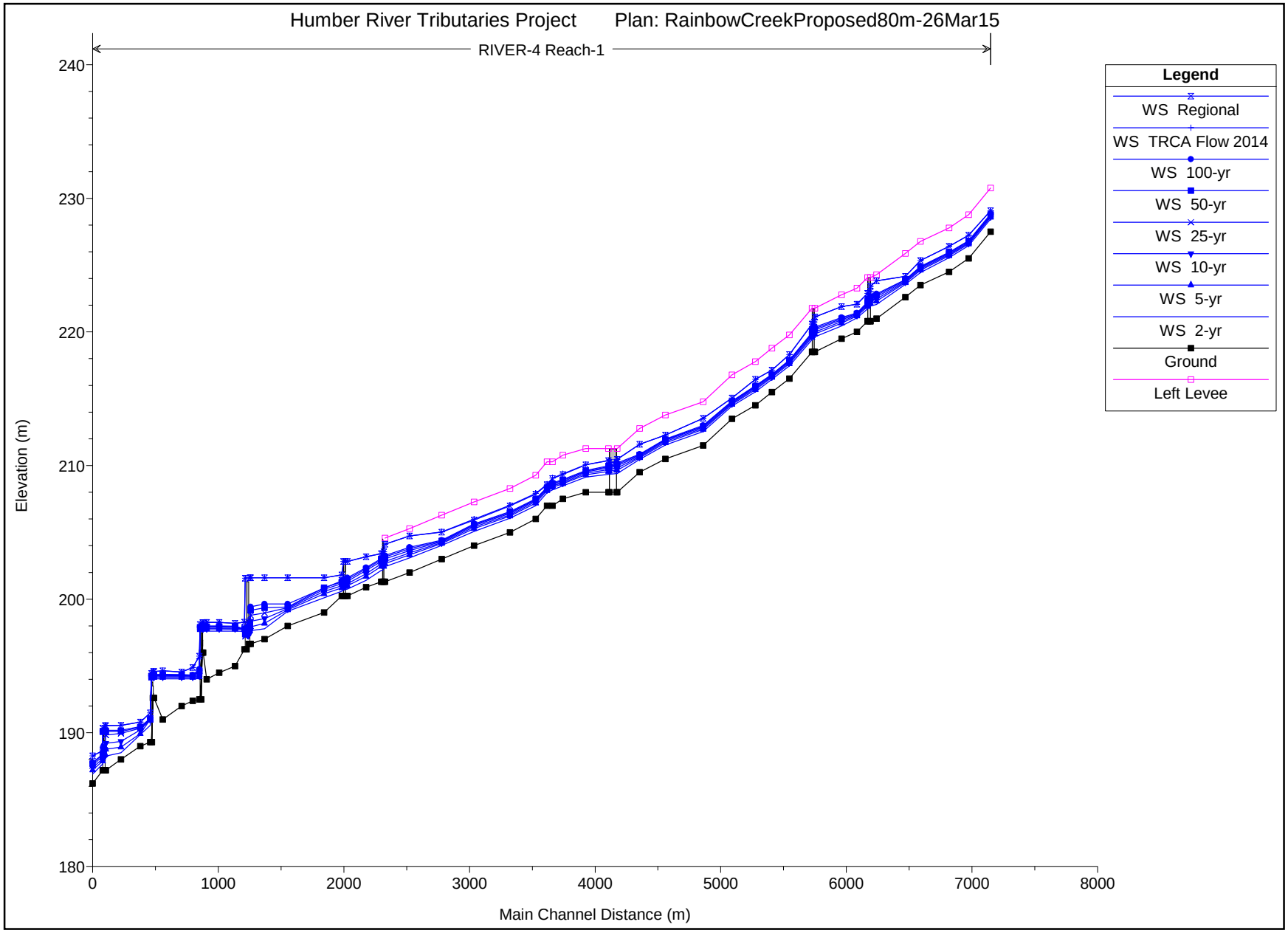
                  PEAK   FLOW   REDUCTION [Qout/Qin](%)=    8.389
                  TIME SHIFT OF PEAK FLOW         (min)=    90.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=.1563E+01

--------------------------------------------------------------------------------
001:0065----------------------------------------------------------------------
      FINISH
--------------------------------------------------------------------------------
*****************************************************************************
     WARNINGS / ERRORS / NOTES
     -------------------------
   Simulation ended on 2016-04-25     at 14:55:21
=============================================================================
```

APPENDIX L:

HEC-RAS MODELLING:

CONCEPTUAL RAINBOW CREEK CORRIDOR


Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
RIVER-4 Reach-1
Elevation (m)
Main Channel Distance (m)
240
230
220
210
200
190
180
0
1000
2000
3000
4000
5000
6000
7000
8000
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Left Levee

HEC-RAS Plan: 26Mar15 River: RIVER-4 Reach: Reach-1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-1	25.52	2-yr	3.20	227.50	228.45	228.45	228.55	0.007537	1.66	4.56	27.09	0.63
Reach-1	25.52	5-yr	6.20	227.50	228.59	228.59	228.70	0.008406	1.97	9.19	40.73	0.69
Reach-1	25.52	10-yr	8.80	227.50	228.66	228.66	228.78	0.009487	2.21	12.29	47.75	0.74
Reach-1	25.52	25-yr	12.00	227.50	228.73	228.73	228.85	0.010274	2.42	15.88	54.76	0.78
Reach-1	25.52	50-yr	14.50	227.50	228.79	228.79	228.90	0.009587	2.43	19.38	60.08	0.76
Reach-1	25.52	100-yr	17.10	227.50	228.82	228.82	228.94	0.010373	2.58	21.27	60.40	0.79
Reach-1	25.52	Regional	46.80	227.50	229.07	229.06	229.27	0.016475	3.73	36.62	62.89	1.04
Reach-1	25.52	TRCA Flow 2014	46.80	227.50	229.07	229.06	229.27	0.016475	3.73	36.62	62.89	1.04
Reach-1	24.51	2-yr	3.20	225.50	226.45	226.45	226.55	0.007537	1.66	4.56	27.09	0.63
Reach-1	24.51	5-yr	6.20	225.50	226.59	226.59	226.70	0.008386	1.97	9.20	40.76	0.68
Reach-1	24.51	10-yr	8.80	225.50	226.66	226.66	226.78	0.009484	2.21	12.29	47.76	0.74
Reach-1	24.51	25-yr	12.00	225.50	226.73	226.73	226.85	0.010397	2.43	15.80	54.60	0.78
Reach-1	24.51	50-yr	14.50	225.50	226.79	226.79	226.90	0.009421	2.41	19.50	60.10	0.75
Reach-1	24.51	100-yr	17.10	225.50	226.82	226.82	226.94	0.010167	2.55	21.43	60.42	0.79
Reach-1	24.51	Regional	46.80	225.50	227.24	227.06	227.34	0.007714	2.76	47.26	64.55	0.72
Reach-1	24.51	TRCA Flow 2014	46.80	225.50	227.24	227.06	227.34	0.007714	2.76	47.26	64.55	0.72
Reach-1	24.50	2-yr	3.20	224.50	225.55	225.45	225.59	0.003033	1.15	7.82	37.22	0.41
Reach-1	24.50	5-yr	6.20	224.50	225.70	225.59	225.74	0.003314	1.35	14.54	52.25	0.44
Reach-1	24.50	10-yr	8.80	224.50	225.79	225.66	225.83	0.003582	1.48	19.27	60.06	0.46
Reach-1	24.50	25-yr	12.00	224.50	225.86	225.73	225.91	0.003711	1.58	23.89	60.83	0.48
Reach-1	24.50	50-yr	14.50	224.50	225.92	225.79	225.97	0.003586	1.61	27.64	61.44	0.47
Reach-1	24.50	100-yr	17.10	224.50	225.97	225.82	226.01	0.003743	1.69	30.54	61.91	0.49
Reach-1	24.50	Regional	46.80	224.50	226.40	226.06	226.46	0.004154	2.17	58.05	66.21	0.54
Reach-1	24.50	TRCA Flow 2014	46.80	224.50	226.40	226.06	226.46	0.004154	2.17	58.05	66.21	0.54
Reach-1	24.49	2-yr	3.20	223.50	224.45	224.45	224.55	0.007495	1.66	4.58	27.16	0.63
Reach-1	24.49	5-yr	6.20	223.50	224.61	224.59	224.70	0.006775	1.81	10.26	43.30	0.62
Reach-1	24.49	10-yr	8.80	223.50	224.72	224.66	224.79	0.006052	1.84	15.23	53.55	0.60
Reach-1	24.49	25-yr	12.00	223.50	224.80	224.73	224.87	0.005742	1.90	20.37	60.25	0.59
Reach-1	24.49	50-yr	14.50	223.50	224.84	224.79	224.92	0.006158	2.02	22.81	60.65	0.61
Reach-1	24.49	100-yr	17.10	223.50	224.90	224.82	224.97	0.005817	2.02	26.19	61.20	0.60
Reach-1	24.49	Regional	46.80	223.50	225.34	225.06	225.41	0.005076	2.35	54.32	65.64	0.59
Reach-1	24.49	TRCA Flow 2014	46.80	223.50	225.34	225.06	225.41	0.005076	2.35	54.32	65.64	0.59
Reach-1	24.46	2-yr	3.20	222.60	223.55	223.55	223.65	0.007474	1.65	4.59	27.20	0.63
Reach-1	24.46	5-yr	6.20	222.60	223.69	223.69	223.80	0.008382	1.97	9.20	40.78	0.68
Reach-1	24.46	10-yr	8.80	222.60	223.76	223.76	223.88	0.009558	2.22	12.25	47.68	0.74
Reach-1	24.46	25-yr	12.00	222.60	223.83	223.83	223.95	0.010346	2.42	15.83	54.68	0.78
Reach-1	24.46	50-yr	14.50	222.60	223.89	223.89	224.00	0.009393	2.41	19.53	60.11	0.75
Reach-1	24.46	100-yr	17.10	222.60	223.92	223.92	224.04	0.010344	2.57	21.29	60.40	0.79
Reach-1	24.46	Regional	46.80	222.60	224.16	224.16	224.37	0.017352	3.81	35.99	62.79	1.06
Reach-1	24.46	TRCA Flow 2014	46.80	222.60	224.16	224.16	224.37	0.017352	3.81	35.99	62.79	1.06
Reach-1	24.45	2-yr	3.20	221.00	222.06	221.95	222.10	0.002741	1.10	8.26	38.39	0.39
Reach-1	24.45	5-yr	6.20	221.00	222.30	222.09	222.32	0.001563	0.99	20.23	60.22	0.31
Reach-1	24.45	10-yr	8.80	221.00	222.46	222.16	222.47	0.001076	0.90	29.69	61.77	0.26
Reach-1	24.45	25-yr	12.00	221.00	222.62	222.23	222.63	0.000825	0.86	40.16	63.45	0.23
Reach-1	24.45	50-yr	14.50	221.00	222.74	222.29	222.75	0.000719	0.85	47.72	64.63	0.22
Reach-1	24.45	100-yr	17.10	221.00	222.86	222.32	222.87	0.000640	0.84	55.35	65.80	0.21
Reach-1	24.45	Regional	46.80	221.00	223.82	222.56	223.83	0.000434	0.94	122.98	75.38	0.19
Reach-1	24.45	TRCA Flow 2014	46.80	221.00	223.82	222.56	223.83	0.000434	0.94	122.98	75.38	0.19
Reach-1	24.443	2-yr	3.20	220.80	221.93	221.72	221.97	0.002420	1.10	5.62	45.43	0.37
Reach-1	24.443	5-yr	6.20	220.80	222.15	221.89	222.21	0.003117	1.44	8.25	60.73	0.44
Reach-1	24.443	10-yr	8.80	220.80	222.30	222.00	222.38	0.003546	1.67	10.01	62.20	0.48
Reach-1	24.443	25-yr	12.00	220.80	222.45	222.10	222.55	0.003954	1.90	11.85	63.73	0.51
Reach-1	24.443	50-yr	14.50	220.80	222.56	222.18	222.67	0.004220	2.07	13.12	64.79	0.54
Reach-1	24.443	100-yr	17.10	220.80	222.66	222.26	222.79	0.004414	2.21	14.38	65.84	0.55
Reach-1	24.443	Regional	46.80	220.80	223.42	222.90	223.74	0.007005	3.59	23.46	73.41	0.74
Reach-1	24.443	TRCA Flow 2014	46.80	220.80	223.42	222.90	223.74	0.007005	3.59	23.46	73.41	0.74
Reach-1	24.4425		Bridge									
Reach-1	24.442	2-yr	3.20	220.80	221.72	221.72	221.86	0.010224	1.88	3.06	24.06	0.73
Reach-1	24.442	5-yr	6.20	220.80	221.89	221.89	222.08	0.011784	2.34	5.09	40.99	0.81
Reach-1	24.442	10-yr	8.80	220.80	222.00	222.00	222.22	0.013153	2.67	6.35	51.52	0.88
Reach-1	24.442	25-yr	12.00	220.80	222.10	222.10	222.37	0.014638	3.03	7.63	60.21	0.94
Reach-1	24.442	50-yr	14.50	220.80	222.18	222.18	222.48	0.015088	3.23	8.60	61.03	0.97
Reach-1	24.442	100-yr	17.10	220.80	222.25	222.25	222.59	0.015899	3.45	9.45	61.73	1.00
Reach-1	24.442	Regional	46.80	220.80	222.89	222.89	223.54	0.019080	5.02	17.14	68.14	1.18
Reach-1	24.442	TRCA Flow 2014	46.80	220.80	222.89	222.89	223.54	0.019080	5.02	17.14	68.14	1.18
Reach-1	24.441	2-yr	3.20	220.00	221.06	220.95	221.10	0.002892	1.13	8.02	37.77	0.40
Reach-1	24.441	5-yr	6.20	220.00	221.18	221.09	221.23	0.003877	1.44	13.50	50.22	0.47
Reach-1	24.441	10-yr	8.80	220.00	221.26	221.16	221.31	0.004467	1.62	17.51	57.65	0.52
Reach-1	24.441	25-yr	12.00	220.00	221.32	221.23	221.38	0.005065	1.80	21.34	60.41	0.55
Reach-1	24.441	50-yr	14.50	220.00	221.37	221.29	221.43	0.005068	1.86	24.46	60.92	0.56
Reach-1	24.441	100-yr	17.10	220.00	221.43	221.32	221.48	0.004942	1.89	27.73	61.46	0.56
Reach-1	24.441	Regional	46.80	220.00	222.07	221.56	222.11	0.002405	1.77	69.58	67.92	0.42
Reach-1	24.441	TRCA Flow 2014	46.80	220.00	222.07	221.56	222.11	0.002405	1.77	69.58	67.92	0.42

HEC-RAS Plan: 26Mar15 River: RIVER-4 Reach: Reach-1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-1	24.44	2-yr	3.20	219.50	220.45	220.45	220.55	0.007537	1.66	4.56	27.09	0.63
Reach-1	24.44	5-yr	6.20	219.50	220.66	220.59	220.72	0.004656	1.55	12.36	47.90	0.52
Reach-1	24.44	10-yr	8.80	219.50	220.79	220.66	220.83	0.003481	1.46	19.48	60.10	0.46
Reach-1	24.44	25-yr	12.00	219.50	220.91	220.73	220.94	0.002620	1.37	27.02	61.34	0.40
Reach-1	24.44	50-yr	14.50	219.50	221.00	220.79	221.03	0.002295	1.34	32.26	62.19	0.38
Reach-1	24.44	100-yr	17.10	219.50	221.09	220.82	221.11	0.001997	1.31	37.84	63.08	0.36
Reach-1	24.44	Regional	46.80	219.50	221.91	221.06	221.93	0.001011	1.28	92.74	71.25	0.28
Reach-1	24.44	TRCA Flow 2014	46.80	219.50	221.91	221.06	221.93	0.001011	1.28	92.74	71.25	0.28
Reach-1	24.43	2-yr	3.20	218.50	219.63	219.43	219.67	0.002452	1.10	5.59	45.20	0.37
Reach-1	24.43	5-yr	6.20	218.50	219.85	219.59	219.91	0.003147	1.45	8.22	60.71	0.44
Reach-1	24.43	10-yr	8.80	218.50	220.00	219.70	220.07	0.003592	1.68	9.97	62.16	0.48
Reach-1	24.43	25-yr	12.00	218.50	220.15	219.80	220.25	0.003979	1.91	11.83	63.71	0.51
Reach-1	24.43	50-yr	14.50	218.50	220.26	219.88	220.37	0.004268	2.07	13.07	64.75	0.54
Reach-1	24.43	100-yr	17.10	218.50	220.36	219.95	220.49	0.004519	2.23	14.27	65.75	0.56
Reach-1	24.43	Regional	46.80	218.50	221.12	220.60	221.44	0.007005	3.59	23.46	73.41	0.74
Reach-1	24.43	TRCA Flow 2014	46.80	218.50	221.12	220.60	221.44	0.007005	3.59	23.46	73.41	0.74
Reach-1	24.425		Bridge									
Reach-1	24.42	2-yr	3.20	218.50	219.43	219.43	219.56	0.009578	1.83	3.16	24.89	0.71
Reach-1	24.42	5-yr	6.20	218.50	219.59	219.59	219.78	0.011791	2.34	5.09	40.99	0.81
Reach-1	24.42	10-yr	8.80	218.50	219.70	219.70	219.92	0.013167	2.67	6.35	51.50	0.88
Reach-1	24.42	25-yr	12.00	218.50	219.80	219.80	220.07	0.014649	3.03	7.63	60.21	0.94
Reach-1	24.42	50-yr	14.50	218.50	219.88	219.88	220.18	0.015099	3.23	8.60	61.02	0.97
Reach-1	24.42	100-yr	17.10	218.50	219.95	219.95	220.29	0.015907	3.45	9.45	61.73	1.00
Reach-1	24.42	Regional	46.80	218.50	220.59	220.59	221.24	0.019083	5.02	17.13	68.14	1.18
Reach-1	24.42	TRCA Flow 2014	46.80	218.50	220.59	220.59	221.24	0.019083	5.02	17.13	68.14	1.18
Reach-1	24.41	2-yr	3.20	216.50	217.46	217.45	217.56	0.006950	1.61	4.81	27.99	0.61
Reach-1	24.41	5-yr	6.20	216.50	217.62	217.59	217.70	0.006238	1.75	10.70	44.30	0.59
Reach-1	24.41	10-yr	8.80	216.50	217.72	217.66	217.79	0.005665	1.79	15.70	54.43	0.58
Reach-1	24.41	25-yr	12.00	216.50	217.81	217.73	217.88	0.005371	1.85	20.88	60.33	0.57
Reach-1	24.41	50-yr	14.50	216.50	217.85	217.79	217.92	0.005821	1.97	23.28	60.73	0.60
Reach-1	24.41	100-yr	17.10	216.50	217.91	217.82	217.97	0.005455	1.97	26.79	61.30	0.58
Reach-1	24.41	Regional	46.80	216.50	218.31	218.06	218.39	0.005780	2.47	52.02	65.29	0.63
Reach-1	24.41	TRCA Flow 2014	46.80	216.50	218.31	218.06	218.39	0.005780	2.47	52.02	65.29	0.63
Reach-1	24.40	2-yr	3.20	215.50	216.45	216.45	216.55	0.007474	1.65	4.59	27.20	0.63
Reach-1	24.40	5-yr	6.20	215.50	216.59	216.59	216.70	0.008382	1.97	9.20	40.78	0.68
Reach-1	24.40	10-yr	8.80	215.50	216.66	216.66	216.78	0.009558	2.22	12.25	47.68	0.74
Reach-1	24.40	25-yr	12.00	215.50	216.73	216.73	216.85	0.010346	2.42	15.83	54.68	0.78
Reach-1	24.40	50-yr	14.50	215.50	216.79	216.79	216.90	0.009393	2.41	19.53	60.11	0.75
Reach-1	24.40	100-yr	17.10	215.50	216.82	216.82	216.94	0.010344	2.57	21.29	60.40	0.79
Reach-1	24.40	Regional	46.80	215.50	217.15	217.06	217.29	0.011285	3.21	41.61	63.68	0.86
Reach-1	24.40	TRCA Flow 2014	46.80	215.50	217.15	217.06	217.29	0.011285	3.21	41.61	63.68	0.86
Reach-1	24.39	2-yr	3.20	214.50	215.52	215.45	215.57	0.004092	1.30	6.61	33.83	0.47
Reach-1	24.39	5-yr	6.20	214.50	215.68	215.59	215.73	0.003876	1.44	13.50	50.22	0.47
Reach-1	24.39	10-yr	8.80	214.50	215.78	215.66	215.83	0.003664	1.50	19.11	60.04	0.47
Reach-1	24.39	25-yr	12.00	214.50	215.87	215.73	215.91	0.003514	1.55	24.36	60.90	0.47
Reach-1	24.39	50-yr	14.50	214.50	215.92	215.79	215.96	0.003699	1.63	27.34	61.39	0.48
Reach-1	24.39	100-yr	17.10	214.50	215.98	215.82	216.02	0.003626	1.67	30.88	61.97	0.48
Reach-1	24.39	Regional	46.80	214.50	216.46	216.06	216.51	0.003441	2.02	61.79	66.77	0.49
Reach-1	24.39	TRCA Flow 2014	46.80	214.50	216.46	216.06	216.51	0.003441	2.02	61.79	66.77	0.49
Reach-1	24.38	2-yr	3.20	213.50	214.45	214.45	214.55	0.007537	1.66	4.56	27.09	0.63
Reach-1	24.38	5-yr	6.20	213.50	214.59	214.59	214.70	0.008406	1.97	9.19	40.73	0.69
Reach-1	24.38	10-yr	8.80	213.50	214.66	214.66	214.78	0.009487	2.21	12.29	47.75	0.74
Reach-1	24.38	25-yr	12.00	213.50	214.73	214.73	214.85	0.010274	2.42	15.88	54.76	0.78
Reach-1	24.38	50-yr	14.50	213.50	214.79	214.79	214.90	0.009587	2.43	19.38	60.08	0.76
Reach-1	24.38	100-yr	17.10	213.50	214.82	214.82	214.94	0.010373	2.58	21.27	60.40	0.79
Reach-1	24.38	Regional	46.80	213.50	215.06	215.06	215.27	0.017365	3.81	35.98	62.78	1.06
Reach-1	24.38	TRCA Flow 2014	46.80	213.50	215.06	215.06	215.27	0.017365	3.81	35.98	62.78	1.06
Reach-1	24.37	2-yr	3.20	211.50	212.55	212.45	212.59	0.003128	1.17	7.69	36.87	0.42
Reach-1	24.37	5-yr	6.20	211.50	212.70	212.59	212.74	0.003299	1.35	14.57	52.31	0.44
Reach-1	24.37	10-yr	8.80	211.50	212.79	212.66	212.83	0.003375	1.45	19.71	60.14	0.45
Reach-1	24.37	25-yr	12.00	211.50	212.87	212.73	212.91	0.003428	1.53	24.57	60.94	0.46
Reach-1	24.37	50-yr	14.50	211.50	212.94	212.79	212.97	0.003319	1.56	28.40	61.56	0.46
Reach-1	24.37	100-yr	17.10	211.50	213.00	212.82	213.04	0.003210	1.59	32.20	62.18	0.45
Reach-1	24.37	Regional	46.80	211.50	213.53	213.06	213.58	0.002708	1.85	66.90	67.53	0.44
Reach-1	24.37	TRCA Flow 2014	46.80	211.50	213.53	213.06	213.58	0.002707	1.85	66.90	67.53	0.44
Reach-1	24.36	2-yr	3.20	210.50	211.53	211.45	211.58	0.003545	1.23	7.17	35.45	0.44
Reach-1	24.36	5-yr	6.20	210.50	211.70	211.59	211.74	0.003382	1.36	14.40	51.99	0.44
Reach-1	24.36	10-yr	8.80	210.50	211.80	211.66	211.84	0.003201	1.41	20.10	60.20	0.44
Reach-1	24.36	25-yr	12.00	210.50	211.89	211.73	211.92	0.003109	1.47	25.44	61.08	0.44
Reach-1	24.36	50-yr	14.50	210.50	211.94	211.79	211.98	0.003271	1.55	28.54	61.59	0.45
Reach-1	24.36	100-yr	17.10	210.50	211.98	211.82	212.02	0.003478	1.64	31.32	62.04	0.47
Reach-1	24.36	Regional	46.80	210.50	212.28	212.06	212.37	0.006382	2.57	50.34	65.03	0.66

HEC-RAS Plan: 26Mar15 River: RIVER-4 Reach: Reach-1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-1	24.36	TRCA Flow 2014	46.80	210.50	212.28	212.06	212.37	0.006387	2.57	50.32	65.03	0.66
Reach-1	24.35	2-yr	3.20	209.50	210.45	210.45	210.55	0.007474	1.65	4.59	27.20	0.63
Reach-1	24.35	5-yr	6.20	209.50	210.59	210.59	210.70	0.008382	1.97	9.20	40.78	0.68
Reach-1	24.35	10-yr	8.80	209.50	210.66	210.66	210.78	0.009558	2.22	12.25	47.68	0.74
Reach-1	24.35	25-yr	12.00	209.50	210.73	210.73	210.85	0.010346	2.42	15.83	54.68	0.78
Reach-1	24.35	50-yr	14.50	209.50	210.79	210.79	210.90	0.009393	2.41	19.53	60.11	0.75
Reach-1	24.35	100-yr	17.10	209.50	210.84	210.82	210.94	0.008764	2.40	22.62	60.62	0.73
Reach-1	24.35	Regional	46.80	209.50	211.58	211.06	211.62	0.002335	1.75	70.26	68.03	0.41
Reach-1	24.35	TRCA Flow 2014	46.80	209.50	211.58	211.06	211.62	0.002334	1.75	70.27	68.03	0.41
Reach-1	24.345	2-yr	3.20	208.00	209.40	208.93	209.41	0.000691	0.70	8.78	61.18	0.21
Reach-1	24.345	5-yr	6.20	208.00	209.65	209.09	209.68	0.001051	0.98	11.87	63.75	0.26
Reach-1	24.345	10-yr	8.80	208.00	209.82	209.20	209.85	0.001332	1.19	13.79	65.35	0.30
Reach-1	24.345	25-yr	12.00	208.00	209.98	209.31	210.03	0.001632	1.41	15.76	66.99	0.34
Reach-1	24.345	50-yr	14.50	208.00	210.09	209.38	210.15	0.001835	1.56	17.12	68.13	0.37
Reach-1	24.345	100-yr	17.10	208.00	210.20	209.45	210.27	0.002022	1.70	18.43	69.22	0.39
Reach-1	24.345	Regional	46.80	208.00	210.46	210.10	210.85	0.009204	3.93	21.55	71.82	0.84
Reach-1	24.345	TRCA Flow 2014	46.80	208.00	210.48	210.10	210.86	0.008904	3.89	21.77	72.00	0.83
Reach-1	24.342		Bridge									
Reach-1	24.34	2-yr	3.20	208.00	209.34	208.93	209.36	0.000878	0.76	8.09	60.60	0.23
Reach-1	24.34	5-yr	6.20	208.00	209.56	209.09	209.59	0.001418	1.09	10.75	62.82	0.30
Reach-1	24.34	10-yr	8.80	208.00	209.69	209.20	209.74	0.001890	1.34	12.32	64.12	0.36
Reach-1	24.34	25-yr	12.00	208.00	209.82	209.30	209.89	0.002437	1.61	13.86	65.41	0.41
Reach-1	24.34	50-yr	14.50	208.00	209.91	209.38	209.99	0.002833	1.80	14.92	66.29	0.45
Reach-1	24.34	100-yr	17.10	208.00	209.99	209.46	210.09	0.003223	1.98	15.90	67.11	0.48
Reach-1	24.34	Regional	46.80	208.00	210.37	210.09	210.39	0.001102	1.32	90.12	70.88	0.29
Reach-1	24.34	TRCA Flow 2014	46.80	208.00	210.38	210.09	210.40	0.001077	1.31	90.81	70.98	0.29
Reach-1	24.33	2-yr	3.20	208.00	209.13	208.95	209.15	0.001589	0.88	10.94	44.84	0.30
Reach-1	24.33	5-yr	6.20	208.00	209.31	209.09	209.33	0.001453	0.96	20.78	60.31	0.30
Reach-1	24.33	10-yr	8.80	208.00	209.42	209.16	209.44	0.001339	0.98	27.51	61.42	0.29
Reach-1	24.33	25-yr	12.00	208.00	209.52	209.23	209.54	0.001394	1.06	33.61	62.40	0.30
Reach-1	24.33	50-yr	14.50	208.00	209.58	209.29	209.59	0.001531	1.14	37.03	62.95	0.32
Reach-1	24.33	100-yr	17.10	208.00	209.63	209.32	209.65	0.001646	1.21	40.39	63.48	0.33
Reach-1	24.33	Regional	46.80	208.00	210.05	209.56	210.09	0.002550	1.81	68.24	67.73	0.43
Reach-1	24.33	TRCA Flow 2014	46.80	208.00	210.08	209.56	210.12	0.002368	1.76	69.93	67.98	0.41
Reach-1	24.32	2-yr	3.50	207.50	208.47	208.47	208.57	0.007512	1.69	5.12	29.09	0.63
Reach-1	24.32	5-yr	7.50	207.50	208.63	208.63	208.74	0.008555	2.06	11.05	45.08	0.70
Reach-1	24.32	10-yr	11.20	207.50	208.72	208.72	208.84	0.009820	2.34	15.21	53.52	0.76
Reach-1	24.32	25-yr	15.40	207.50	208.80	208.80	208.92	0.009738	2.47	20.15	60.21	0.77
Reach-1	24.32	50-yr	18.90	207.50	208.88	208.84	208.97	0.008247	2.38	24.84	60.98	0.71
Reach-1	24.32	100-yr	22.40	207.50	208.95	208.87	209.03	0.007288	2.33	29.23	61.70	0.68
Reach-1	24.32	Regional	48.30	207.50	209.33	209.06	209.41	0.005598	2.46	53.69	65.54	0.62
Reach-1	24.32	TRCA Flow 2014	52.47	207.50	209.38	209.09	209.46	0.005553	2.50	56.87	66.03	0.62
Reach-1	24.31	2-yr	3.50	207.00	208.19	207.97	208.20	0.001194	0.80	13.72	50.66	0.26
Reach-1	24.31	5-yr	7.50	207.00	208.37	208.12	208.39	0.001356	0.96	24.47	60.92	0.29
Reach-1	24.31	10-yr	11.20	207.00	208.48	208.21	208.50	0.001515	1.08	31.16	62.01	0.31
Reach-1	24.31	25-yr	15.40	207.00	208.57	208.30	208.59	0.001790	1.23	36.58	62.88	0.34
Reach-1	24.31	50-yr	18.90	207.00	208.64	208.34	208.66	0.001922	1.32	41.00	63.58	0.36
Reach-1	24.31	100-yr	22.40	207.00	208.70	208.37	208.72	0.002092	1.41	44.66	64.15	0.37
Reach-1	24.31	Regional	48.30	207.00	209.03	208.56	209.07	0.002924	1.92	66.59	67.48	0.46
Reach-1	24.31	TRCA Flow 2014	52.47	207.00	209.07	208.59	209.12	0.003066	1.99	69.25	67.88	0.47
Reach-1	24.30	2-yr	3.50	207.00	207.97	207.97	208.07	0.007523	1.69	5.12	29.08	0.63
Reach-1	24.30	5-yr	7.50	207.00	208.12	208.12	208.24	0.008978	2.10	10.79	44.50	0.71
Reach-1	24.30	10-yr	11.20	207.00	208.21	208.21	208.34	0.009849	2.34	15.19	53.48	0.76
Reach-1	24.30	25-yr	15.40	207.00	208.30	208.30	208.42	0.009752	2.47	20.14	60.21	0.77
Reach-1	24.30	50-yr	18.90	207.00	208.34	208.34	208.47	0.011047	2.69	22.36	60.58	0.82
Reach-1	24.30	100-yr	22.40	207.00	208.37	208.37	208.51	0.012062	2.87	24.49	60.93	0.86
Reach-1	24.30	Regional	48.30	207.00	208.57	208.56	208.78	0.017249	3.82	36.84	62.92	1.06
Reach-1	24.30	TRCA Flow 2014	52.47	207.00	208.61	208.59	208.82	0.016821	3.85	39.29	63.31	1.05
Reach-1	24.29	2-yr	3.50	206.00	207.00	206.97	207.08	0.005920	1.53	5.92	31.73	0.56
Reach-1	24.29	5-yr	7.50	206.00	207.20	207.12	207.26	0.005120	1.67	14.18	51.56	0.55
Reach-1	24.29	10-yr	11.20	206.00	207.32	207.22	207.37	0.004597	1.71	21.02	60.36	0.53
Reach-1	24.29	25-yr	15.40	206.00	207.40	207.30	207.46	0.004697	1.82	26.23	61.21	0.54
Reach-1	24.29	50-yr	18.90	206.00	207.46	207.34	207.52	0.004827	1.91	29.98	61.82	0.55
Reach-1	24.29	100-yr	22.40	206.00	207.52	207.37	207.57	0.005006	2.00	33.27	62.35	0.57
Reach-1	24.29	Regional	48.30	206.00	207.86	207.57	207.93	0.005155	2.38	55.18	65.77	0.60
Reach-1	24.29	TRCA Flow 2014	52.47	206.00	207.91	207.59	207.98	0.005077	2.41	58.59	66.29	0.60
Reach-1	24.28	2-yr	3.50	205.00	206.05	205.97	206.10	0.003657	1.26	7.78	37.13	0.45
Reach-1	24.28	5-yr	7.50	205.00	206.22	206.13	206.27	0.004225	1.54	15.51	54.07	0.50
Reach-1	24.28	10-yr	11.20	205.00	206.31	206.22	206.37	0.004669	1.72	20.90	60.33	0.53
Reach-1	24.28	25-yr	15.40	205.00	206.41	206.30	206.46	0.004535	1.79	26.55	61.26	0.53
Reach-1	24.28	50-yr	18.90	205.00	206.48	206.34	206.53	0.004340	1.83	31.09	62.00	0.53
Reach-1	24.28	100-yr	22.40	205.00	206.56	206.38	206.60	0.004023	1.83	35.84	62.76	0.51

HEC-RAS Plan: 26Mar15 River: RIVER-4 Reach: Reach-1 (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-1	24.28	Regional	48.30	205.00	206.98	206.57	207.03	0.003373	2.02	63.52	67.03	0.49
Reach-1	24.28	TRCA Flow 2014	52.47	205.00	207.03	206.59	207.09	0.003415	2.07	66.82	67.52	0.50
Reach-1	24.27	2-yr	3.50	204.00	205.06	204.97	205.11	0.003334	1.22	8.18	38.19	0.43
Reach-1	24.27	5-yr	7.50	204.00	205.28	205.13	205.31	0.002770	1.30	18.81	59.86	0.41
Reach-1	24.27	10-yr	11.20	204.00	205.40	205.22	205.43	0.002425	1.31	26.45	61.25	0.39
Reach-1	24.27	25-yr	15.40	204.00	205.51	205.30	205.54	0.002405	1.38	33.08	62.32	0.39
Reach-1	24.27	50-yr	18.90	204.00	205.58	205.34	205.61	0.002481	1.46	37.63	63.05	0.40
Reach-1	24.27	100-yr	22.40	204.00	205.64	205.37	205.67	0.002664	1.55	41.19	63.61	0.42
Reach-1	24.27	Regional	48.30	204.00	205.92	205.56	205.98	0.004180	2.20	59.16	66.37	0.54
Reach-1	24.27	TRCA Flow 2014	52.47	204.00	205.98	205.59	206.04	0.004005	2.20	63.38	67.01	0.53
Reach-1	24.26	2-yr	3.50	203.00	204.02	203.97	204.09	0.004673	1.39	6.79	34.35	0.50
Reach-1	24.26	5-yr	7.50	203.00	204.16	204.13	204.25	0.006696	1.86	12.47	48.11	0.62
Reach-1	24.26	10-yr	11.20	203.00	204.23	204.21	204.34	0.008903	2.25	15.92	54.83	0.72
Reach-1	24.26	25-yr	15.40	203.00	204.30	204.30	204.42	0.009742	2.47	20.15	60.21	0.77
Reach-1	24.26	50-yr	18.90	203.00	204.36	204.34	204.47	0.009721	2.55	23.42	60.75	0.77
Reach-1	24.26	100-yr	22.40	203.00	204.42	204.37	204.52	0.008796	2.52	27.38	61.40	0.74
Reach-1	24.26	Regional	48.30	203.00	205.01	204.57	205.06	0.003092	1.96	65.37	67.30	0.47
Reach-1	24.26	TRCA Flow 2014	52.47	203.00	205.03	204.59	205.08	0.003473	2.09	66.44	67.46	0.50
Reach-1	24.25	2-yr	3.80	202.00	203.09	202.98	203.13	0.003136	1.21	9.22	40.82	0.42
Reach-1	24.25	5-yr	7.60	202.00	203.31	203.13	203.34	0.002144	1.17	20.92	60.34	0.36
Reach-1	24.25	10-yr	11.10	202.00	203.46	203.21	203.48	0.001678	1.13	29.89	61.81	0.33
Reach-1	24.25	25-yr	15.70	202.00	203.64	203.31	203.65	0.001341	1.10	40.86	63.56	0.30
Reach-1	24.25	50-yr	20.00	202.00	203.78	203.35	203.80	0.001173	1.10	50.23	65.01	0.28
Reach-1	24.25	100-yr	23.40	202.00	203.89	203.38	203.91	0.001073	1.10	57.43	66.11	0.27
Reach-1	24.25	Regional	52.30	202.00	204.74	203.59	204.75	0.000629	1.11	116.98	74.58	0.22
Reach-1	24.25	TRCA Flow 2014	52.30	202.00	204.74	203.59	204.75	0.000629	1.11	116.98	74.58	0.22
Reach-1	24.24	2-yr	3.80	201.30	202.44	202.26	202.49	0.003390	1.30	5.64	45.55	0.44
Reach-1	24.24	5-yr	7.60	201.30	202.67	202.45	202.75	0.004430	1.73	8.41	60.86	0.52
Reach-1	24.24	10-yr	11.10	201.30	202.82	202.57	202.94	0.005226	2.05	10.27	62.42	0.58
Reach-1	24.24	25-yr	15.70	201.30	203.01	202.72	203.16	0.005682	2.35	12.55	64.31	0.62
Reach-1	24.24	50-yr	20.00	201.30	203.16	202.83	203.34	0.006115	2.59	14.32	65.80	0.65
Reach-1	24.24	100-yr	23.40	201.30	203.27	202.91	203.47	0.006387	2.77	15.62	66.87	0.67
Reach-1	24.24	Regional	52.30	201.30	204.11	203.50	204.44	0.006545	3.65	25.68	75.26	0.73
Reach-1	24.24	TRCA Flow 2014	52.30	201.30	204.11	203.50	204.44	0.006545	3.65	25.68	75.26	0.73
Reach-1	24.235		Bridge									
Reach-1	24.23	2-yr	3.80	201.30	202.15	201.74	202.19	0.001751	0.93	4.36	9.30	0.34
Reach-1	24.23	5-yr	7.60	201.30	202.45	201.97	202.52	0.001990	1.24	7.83	18.72	0.38
Reach-1	24.23	10-yr	11.10	201.30	202.64	202.18	202.74	0.002223	1.46	10.13	25.64	0.42
Reach-1	24.23	25-yr	15.70	201.30	202.83	202.39	202.96	0.002601	1.73	12.36	40.06	0.46
Reach-1	24.23	50-yr	20.00	201.30	202.95	202.54	203.12	0.003132	2.00	13.76	55.58	0.51
Reach-1	24.23	100-yr	23.40	201.30	203.03	202.63	203.24	0.003493	2.19	14.79	65.98	0.55
Reach-1	24.23	Regional	52.30	201.30	203.41	203.27	204.01	0.008044	3.81	19.27	87.94	0.86
Reach-1	24.23	TRCA Flow 2014	52.30	201.30	203.41	203.27	204.01	0.008044	3.81	19.27	87.94	0.86
Reach-1	24.22	2-yr	3.80	200.90	201.41	201.41	201.64	0.018657	2.10	1.81	4.34	1.00
Reach-1	24.22	5-yr	7.60	200.90	201.72	201.72	201.98	0.011859	2.36	4.20	11.47	0.87
Reach-1	24.22	10-yr	11.10	200.90	201.91	201.91	202.19	0.009924	2.52	6.88	16.05	0.82
Reach-1	24.22	25-yr	15.70	200.90	202.15	202.15	202.42	0.007738	2.58	12.21	31.75	0.76
Reach-1	24.22	50-yr	20.00	200.90	202.28	202.28	202.54	0.007256	2.68	16.87	39.37	0.74
Reach-1	24.22	100-yr	23.40	200.90	202.35	202.35	202.63	0.007389	2.80	19.89	43.60	0.76
Reach-1	24.22	Regional	52.30	200.90	203.17		203.27	0.002427	2.18	76.39	99.83	0.47
Reach-1	24.22	TRCA Flow 2014	52.30	200.90	203.17		203.27	0.002427	2.18	76.39	99.83	0.47
Reach-1	24.21	2-yr	3.80	200.25	200.76	200.49	200.78	0.001523	0.71	5.61	13.92	0.32
Reach-1	24.21	5-yr	7.60	200.25	201.00	200.63	201.04	0.001695	0.97	8.26	15.65	0.36
Reach-1	24.21	10-yr	11.10	200.25	201.16	200.73	201.23	0.001853	1.16	10.11	32.47	0.39
Reach-1	24.21	25-yr	15.70	200.25	201.34	200.86	201.43	0.002029	1.36	12.12	41.09	0.42
Reach-1	24.21	50-yr	20.00	200.25	201.48	200.96	201.60	0.002175	1.53	13.74	47.18	0.44
Reach-1	24.21	100-yr	23.40	200.25	201.60	201.04	201.73	0.002205	1.64	15.04	50.13	0.45
Reach-1	24.21	Regional	52.30	200.25	202.82	201.59	203.00	0.001285	1.92	28.69	130.55	0.38
Reach-1	24.21	TRCA Flow 2014	52.30	200.25	202.82	201.59	203.00	0.001285	1.92	28.69	130.55	0.38
Reach-1	24.205		Bridge									
Reach-1	24.20	2-yr	3.80	200.25	200.60	200.49	200.65	0.005540	1.05	3.76	11.45	0.57
Reach-1	24.20	5-yr	7.60	200.25	200.85	200.63	200.92	0.003606	1.22	6.55	28.97	0.50
Reach-1	24.20	10-yr	11.10	200.25	201.00	200.73	201.10	0.003605	1.41	8.25	55.43	0.52
Reach-1	24.20	25-yr	15.70	200.25	201.16	200.86	201.29	0.003768	1.65	10.04	58.66	0.55
Reach-1	24.20	50-yr	20.00	200.25	201.28	200.97	201.45	0.004034	1.85	11.38	60.91	0.58
Reach-1	24.20	100-yr	23.40	200.25	201.38	201.05	201.57	0.004015	1.97	12.53	62.84	0.59
Reach-1	24.20	Regional	52.30	200.25	201.81	201.60	202.31	0.006840	3.18	17.34	70.87	0.81
Reach-1	24.20	TRCA Flow 2014	52.30	200.25	201.81	201.60	202.31	0.006840	3.18	17.34	70.87	0.81
Reach-1	24.19	2-yr	3.80	199.00	200.10		200.16	0.002405	1.11	3.68	9.47	0.38
Reach-1	24.19	5-yr	7.60	199.00	200.41		200.50	0.002578	1.41	9.54	28.71	0.42
Reach-1	24.19	10-yr	11.10	199.00	200.57	200.31	200.67	0.002715	1.58	14.99	37.96	0.44

HEC-RAS Plan: 26Mar15 River: RIVER-4 Reach: Reach-1 (Continued)

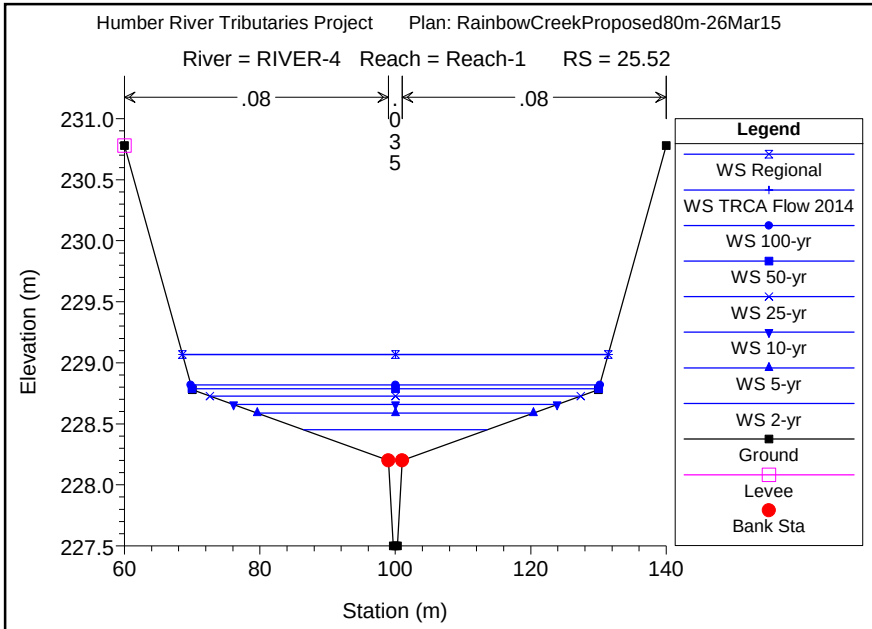
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-1	24.19	25-yr	15.70	199.00	200.74	200.50	200.84	0.002748	1.72	22.06	47.29	0.45
Reach-1	24.19	50-yr	20.00	199.00	200.86	200.62	200.96	0.002756	1.82	28.38	54.28	0.46
Reach-1	24.19	100-yr	23.40	199.00	200.82	200.69	200.98	0.004450	2.27	26.07	51.84	0.58
Reach-1	24.19	Regional	52.30	199.00	201.60		201.67	0.001819	1.90	78.04	79.16	0.40
Reach-1	24.19	TRCA Flow 2014	52.30	199.00	201.60		201.67	0.001819	1.90	78.04	79.16	0.40
Reach-1	24.18	2-yr	3.80	198.00	199.09	199.07	199.18	0.005141	1.44	5.42	41.21	0.53
Reach-1	24.18	5-yr	7.60	198.00	199.20	199.20	199.32	0.007444	1.90	10.36	46.58	0.65
Reach-1	24.18	10-yr	11.10	198.00	199.28	199.28	199.41	0.008160	2.12	14.38	50.54	0.69
Reach-1	24.18	25-yr	15.70	198.00	199.36	199.36	199.51	0.009433	2.40	18.39	54.19	0.76
Reach-1	24.18	50-yr	20.00	198.00	199.42	199.42	199.58	0.010504	2.63	21.61	56.96	0.81
Reach-1	24.18	100-yr	23.40	198.00	199.63		199.70	0.004369	1.91	35.12	67.34	0.54
Reach-1	24.18	Regional	52.30	198.00	201.60		201.60	0.000060	0.42	439.64	352.07	0.07
Reach-1	24.18	TRCA Flow 2014	52.30	198.00	201.60		201.60	0.000060	0.42	439.64	352.07	0.07
Reach-1	24.17	2-yr	3.80	197.00	197.78		197.94	0.009061	1.75	2.17	3.56	0.72
Reach-1	24.17	5-yr	7.60	197.00	198.18	198.14	198.26	0.003713	1.47	13.33	66.28	0.48
Reach-1	24.17	10-yr	11.10	197.00	198.54		198.56	0.000705	0.79	42.61	95.49	0.22
Reach-1	24.17	25-yr	15.70	197.00	198.97		198.97	0.000222	0.54	89.76	127.21	0.13
Reach-1	24.17	50-yr	20.00	197.00	199.35		199.35	0.000110	0.43	144.91	161.42	0.10
Reach-1	24.17	100-yr	23.40	197.00	199.64		199.64	0.000070	0.38	194.83	185.68	0.08
Reach-1	24.17	Regional	52.30	197.00	201.60		201.60	0.000010	0.21	919.45	556.37	0.03
Reach-1	24.17	TRCA Flow 2014	52.30	197.00	201.60		201.60	0.000010	0.21	919.45	556.37	0.03
Reach-1	24.16	2-yr	3.80	196.65	197.65	197.07	197.68	0.000846	0.83	4.58	23.28	0.27
Reach-1	24.16	5-yr	7.60	196.65	197.93	197.30	198.02	0.001461	1.29	5.90	40.34	0.36
Reach-1	24.16	10-yr	11.10	196.65	198.34	197.49	198.45	0.001231	1.42	7.79	56.99	0.35
Reach-1	24.16	25-yr	15.70	196.65	198.78	197.70	198.91	0.001140	1.60	9.82	67.76	0.35
Reach-1	24.16	50-yr	20.00	196.65	199.16	197.90	199.31	0.001080	1.73	11.54	81.21	0.35
Reach-1	24.16	100-yr	23.40	196.65	199.44	198.03	199.60	0.001043	1.83	12.81	87.63	0.35
Reach-1	24.16	Regional	52.30	196.65	201.59	199.02	201.60	0.000013	0.28	672.37	458.08	0.04
Reach-1	24.16	TRCA Flow 2014	52.30	196.65	201.59	199.02	201.60	0.000013	0.28	672.37	458.08	0.04
Reach-1	24.155		Culvert									
Reach-1	24.15	2-yr	3.80	196.25	197.60	196.67	197.62	0.000310	0.61	6.20	33.71	0.17
Reach-1	24.15	5-yr	7.60	196.25	197.73	196.91	197.80	0.000896	1.11	6.83	36.44	0.29
Reach-1	24.15	10-yr	11.10	196.25	197.78	197.10	197.91	0.001735	1.58	7.03	37.30	0.41
Reach-1	24.15	25-yr	15.70	196.25	197.81	197.31	198.05	0.003250	2.19	7.17	37.91	0.56
Reach-1	24.15	50-yr	20.00	196.25	197.79	197.49	198.20	0.005480	2.82	7.09	37.55	0.73
Reach-1	24.15	100-yr	23.40	196.25	197.77	197.63	198.34	0.007932	3.36	6.97	37.05	0.87
Reach-1	24.15	Regional	52.30	196.25	198.28	198.20	198.42	0.002191	1.95	49.73	47.26	0.46
Reach-1	24.15	TRCA Flow 2014	52.30	196.25	198.28	198.20	198.42	0.002191	1.95	49.73	47.26	0.46
Reach-1	24.14	2-yr	4.00	195.00	197.60		197.60	0.000015	0.17	33.13	37.40	0.04
Reach-1	24.14	5-yr	7.70	195.00	197.76		197.76	0.000041	0.29	39.08	40.38	0.06
Reach-1	24.14	10-yr	11.00	195.00	197.82		197.83	0.000074	0.40	41.83	41.68	0.08
Reach-1	24.14	25-yr	15.90	195.00	197.90		197.91	0.000136	0.55	44.93	42.90	0.11
Reach-1	24.14	50-yr	20.20	195.00	197.94		197.96	0.000202	0.68	46.79	43.60	0.14
Reach-1	24.14	100-yr	24.30	195.00	197.98		198.01	0.000272	0.80	48.67	44.29	0.16
Reach-1	24.14	Regional	56.20	195.00	198.19		198.30	0.001023	1.63	58.16	47.64	0.31
Reach-1	24.14	TRCA Flow 2014	56.20	195.00	198.19		198.30	0.001023	1.63	58.16	47.64	0.31
Reach-1	24.13	2-yr	4.00	194.50	197.60		197.60	0.000000	0.02	226.94	90.67	0.00
Reach-1	24.13	5-yr	7.70	194.50	197.76		197.76	0.000000	0.03	241.21	93.91	0.01
Reach-1	24.13	10-yr	11.00	194.50	197.83		197.83	0.000001	0.05	247.74	95.36	0.01
Reach-1	24.13	25-yr	15.90	194.50	197.91		197.91	0.000001	0.07	255.19	96.98	0.01
Reach-1	24.13	50-yr	20.20	194.50	197.95		197.95	0.000002	0.08	259.83	97.98	0.01
Reach-1	24.13	100-yr	24.30	194.50	198.00		198.00	0.000002	0.10	264.52	98.99	0.02
Reach-1	24.13	Regional	56.20	194.50	198.26		198.26	0.000010	0.21	292.14	113.30	0.03
Reach-1	24.13	TRCA Flow 2014	56.20	194.50	198.26		198.26	0.000010	0.21	292.14	113.30	0.03
Reach-1	24.12	2-yr	4.00	194.00	197.60		197.60	0.000000	0.02	176.04	67.33	0.00
Reach-1	24.12	5-yr	7.70	194.00	197.76		197.76	0.000000	0.04	186.68	70.25	0.01
Reach-1	24.12	10-yr	11.00	194.00	197.83		197.83	0.000001	0.06	191.57	71.56	0.01
Reach-1	24.12	25-yr	15.90	194.00	197.90		197.91	0.000002	0.09	197.15	73.02	0.01
Reach-1	24.12	50-yr	20.20	194.00	197.95		197.95	0.000003	0.11	200.64	73.92	0.02
Reach-1	24.12	100-yr	24.30	194.00	198.00		198.00	0.000003	0.13	204.17	74.81	0.02
Reach-1	24.12	Regional	56.20	194.00	198.26		198.26	0.000015	0.28	225.01	86.63	0.04
Reach-1	24.12	TRCA Flow 2014	56.20	194.00	198.26		198.26	0.000015	0.28	225.01	86.63	0.04
Reach-1	24.11	2-yr	4.00	196.00	197.60	196.36	197.60	0.000002	0.05	84.12	70.32	0.01
Reach-1	24.11	5-yr	7.70	196.00	197.76	196.55	197.76	0.000005	0.09	95.36	75.26	0.02
Reach-1	24.11	10-yr	11.00	196.00	197.83	196.70	197.83	0.000009	0.13	100.59	77.46	0.03
Reach-1	24.11	25-yr	15.90	196.00	197.90	196.90	197.90	0.000017	0.18	106.62	79.91	0.04
Reach-1	24.11	50-yr	20.20	196.00	197.95	197.05	197.95	0.000025	0.22	110.39	81.41	0.05
Reach-1	24.11	100-yr	24.30	196.00	198.00	197.19	198.00	0.000033	0.26	114.23	82.90	0.06
Reach-1	24.11	Regional	56.20	196.00	198.25	197.50	198.26	0.000116	0.53	136.49	95.57	0.11
Reach-1	24.11	TRCA Flow 2014	56.20	196.00	198.25	197.50	198.26	0.000116	0.53	136.49	95.57	0.11
Reach-1	24.105		Culvert									

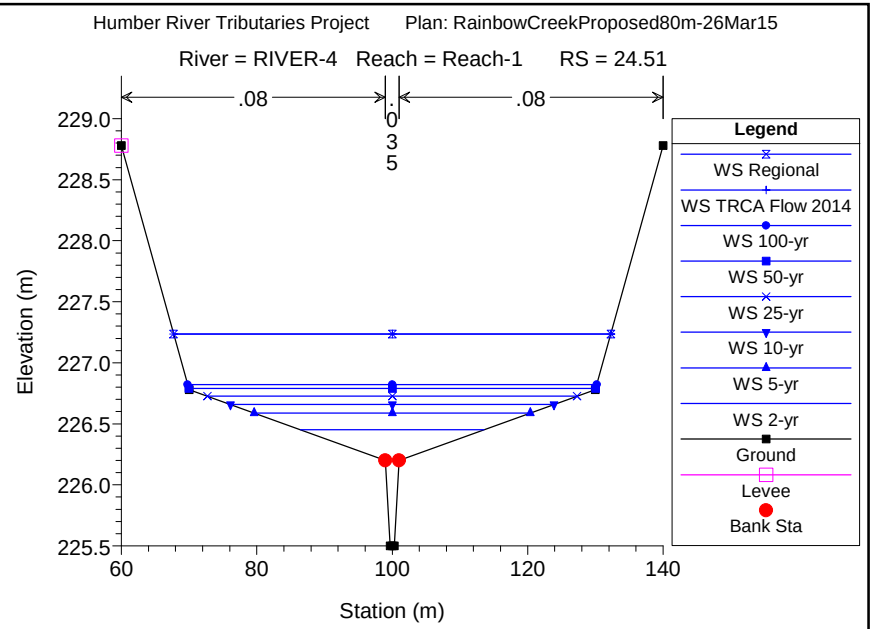
HEC-RAS Plan: 26Mar15 River: RIVER-4 Reach: Reach-1 (Continued)

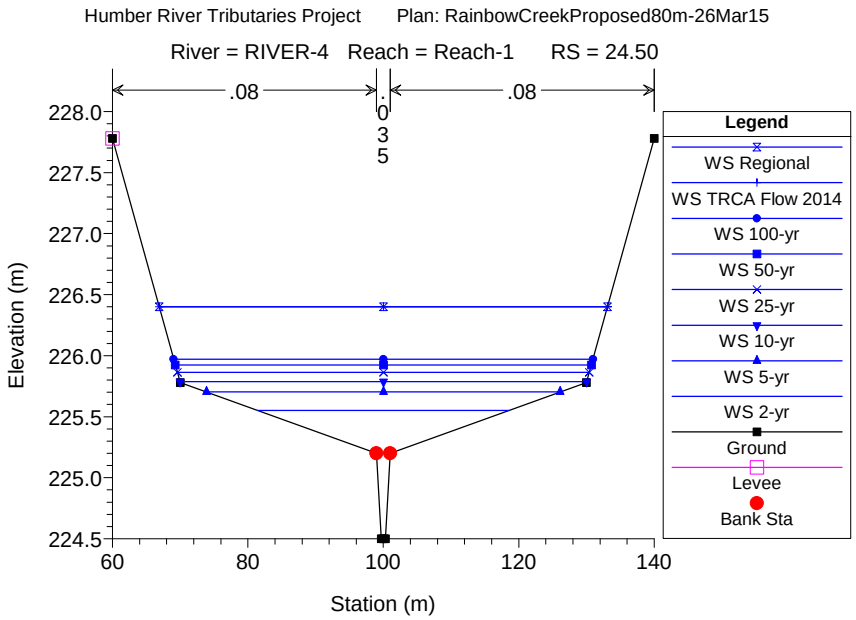
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-1	24.10	2-yr	4.00	192.50	194.05	193.25	194.12	0.001708	1.21	4.36	11.09	0.31
Reach-1	24.10	5-yr	7.70	192.50	194.19	193.67	194.38	0.004285	2.03	5.35	14.05	0.50
Reach-1	24.10	10-yr	11.00	192.50	194.29	193.96	194.60	0.006773	2.65	6.03	16.10	0.63
Reach-1	24.10	25-yr	15.90	192.50	194.44	194.41	194.92	0.009856	3.37	7.07	19.21	0.77
Reach-1	24.10	50-yr	20.20	192.50	194.61	194.61	195.18	0.010923	3.74	8.24	22.73	0.82
Reach-1	24.10	100-yr	24.30	192.50	194.77	194.77	195.40	0.011378	4.01	9.37	26.10	0.85
Reach-1	24.10	Regional	56.20	192.50	195.73	195.73	196.78	0.013126	5.46	16.14	51.56	0.97
Reach-1	24.10	TRCA Flow 2014	56.20	192.50	195.73	195.73	196.78	0.013126	5.46	16.14	51.56	0.97
Reach-1	24.09	2-yr	4.00	192.40	194.04		194.05	0.000528	0.67	11.43	13.80	0.17
Reach-1	24.09	5-yr	7.70	192.40	194.14		194.19	0.001627	1.22	13.06	17.50	0.29
Reach-1	24.09	10-yr	11.00	192.40	194.19		194.28	0.002972	1.68	13.99	19.29	0.40
Reach-1	24.09	25-yr	15.90	192.40	194.25		194.41	0.005390	2.31	15.20	21.41	0.54
Reach-1	24.09	50-yr	20.20	192.40	194.30		194.53	0.007658	2.81	16.34	23.21	0.65
Reach-1	24.09	100-yr	24.30	192.40	194.33	193.99	194.64	0.010410	3.30	16.91	24.07	0.76
Reach-1	24.09	Regional	56.20	192.40	194.89	194.89	195.28	0.012121	4.23	36.30	44.23	0.85
Reach-1	24.09	TRCA Flow 2014	56.20	192.40	194.89	194.89	195.28	0.012121	4.23	36.30	44.23	0.85
Reach-1	24.08	2-yr	4.00	192.00	194.04		194.04	0.000041	0.24	31.94	43.39	0.05
Reach-1	24.08	5-yr	7.70	192.00	194.14		194.15	0.000115	0.42	36.64	45.08	0.09
Reach-1	24.08	10-yr	11.00	192.00	194.20		194.21	0.000206	0.57	39.07	45.92	0.12
Reach-1	24.08	25-yr	15.90	192.00	194.26		194.28	0.000364	0.78	42.21	46.99	0.16
Reach-1	24.08	50-yr	20.20	192.00	194.32		194.35	0.000510	0.93	45.04	47.93	0.20
Reach-1	24.08	100-yr	24.30	192.00	194.36		194.40	0.000680	1.09	46.74	48.49	0.23
Reach-1	24.08	Regional	56.20	192.00	194.56		194.70	0.002342	2.13	56.74	51.65	0.43
Reach-1	24.08	TRCA Flow 2014	56.20	192.00	194.56		194.70	0.002342	2.13	56.74	51.65	0.43
Reach-1	24.07	2-yr	4.00	191.00	194.04		194.04	0.000000	0.03	146.68	65.40	0.01
Reach-1	24.07	5-yr	7.70	191.00	194.15		194.15	0.000001	0.06	153.88	67.09	0.01
Reach-1	24.07	10-yr	11.00	191.00	194.20		194.20	0.000002	0.08	157.69	67.97	0.01
Reach-1	24.07	25-yr	15.90	191.00	194.27		194.28	0.000003	0.11	162.69	69.11	0.02
Reach-1	24.07	50-yr	20.20	191.00	194.34		194.34	0.000005	0.14	167.18	70.11	0.02
Reach-1	24.07	100-yr	24.30	191.00	194.38		194.38	0.000007	0.16	170.10	70.76	0.03
Reach-1	24.07	Regional	56.20	191.00	194.64		194.64	0.000029	0.35	188.80	74.77	0.06
Reach-1	24.07	TRCA Flow 2014	56.20	191.00	194.64		194.64	0.000029	0.35	188.80	74.77	0.06
Reach-1	24.06	2-yr	4.00	192.60	194.03	193.72	194.04	0.000512	0.58	24.15	62.11	0.16
Reach-1	24.06	5-yr	7.70	192.60	194.14	193.80	194.14	0.001006	0.86	31.12	70.72	0.23
Reach-1	24.06	10-yr	11.00	192.60	194.19	193.84	194.20	0.001531	1.09	34.94	75.02	0.28
Reach-1	24.06	25-yr	15.90	192.60	194.26	193.92	194.27	0.002243	1.36	40.17	80.53	0.35
Reach-1	24.06	50-yr	20.20	192.60	194.32	193.97	194.34	0.002633	1.51	45.23	84.50	0.38
Reach-1	24.06	100-yr	24.30	192.60	194.36	194.02	194.38	0.003115	1.66	48.39	85.49	0.41
Reach-1	24.06	Regional	56.20	192.60	194.58	194.25	194.63	0.005921	2.50	68.49	91.54	0.58
Reach-1	24.06	TRCA Flow 2014	56.20	192.60	194.58	194.25	194.63	0.005921	2.50	68.49	91.54	0.58
Reach-1	24.055		Culvert									
Reach-1	24.05	2-yr	4.00	189.30	190.55	190.55	190.97	0.019736	3.28	1.75	47.20	0.98
Reach-1	24.05	5-yr	7.70	189.30	191.00	191.00	191.01	0.000420	0.60	43.83	84.06	0.15
Reach-1	24.05	10-yr	11.00	189.30	191.00	191.00	191.01	0.000857	0.85	43.83	84.06	0.22
Reach-1	24.05	25-yr	15.90	189.30	191.00	191.00	191.01	0.001791	1.23	43.83	84.06	0.31
Reach-1	24.05	50-yr	20.20	189.30	191.00	191.00	191.02	0.002891	1.57	43.83	84.06	0.40
Reach-1	24.05	100-yr	24.30	189.30	191.06	191.00	191.09	0.002993	1.64	49.05	85.70	0.41
Reach-1	24.05	Regional	56.20	189.30	191.49	191.00	191.52	0.002785	1.84	88.35	97.16	0.41
Reach-1	24.05	TRCA Flow 2014	56.20	189.30	191.49	191.00	191.52	0.002785	1.84	88.35	97.16	0.41
Reach-1	24.04	2-yr	4.00	189.00	189.86	189.64	189.98	0.005689	1.50	2.72	5.93	0.59
Reach-1	24.04	5-yr	7.70	189.00	189.94	189.94	190.27	0.014291	2.57	3.28	8.28	0.95
Reach-1	24.04	10-yr	11.00	189.00	190.21	190.21	190.39	0.006275	2.09	11.57	42.25	0.66
Reach-1	24.04	25-yr	15.90	189.00	190.34	190.34	190.51	0.006229	2.26	17.46	49.08	0.67
Reach-1	24.04	50-yr	20.20	189.00	190.41	190.41	190.60	0.006934	2.48	21.02	52.79	0.72
Reach-1	24.04	100-yr	24.30	189.00	190.47	190.47	190.68	0.007578	2.67	24.05	55.75	0.76
Reach-1	24.04	Regional	56.20	189.00	190.80	190.80	191.08	0.009559	3.51	45.85	73.62	0.88
Reach-1	24.04	TRCA Flow 2014	56.20	189.00	190.80	190.80	191.08	0.009559	3.51	45.85	73.62	0.88
Reach-1	24.03	2-yr	4.00	188.00	188.50	188.50	188.67	0.013589	1.90	2.72	11.47	0.86
Reach-1	24.03	5-yr	7.70	188.00	188.93		189.00	0.003252	1.41	11.21	27.90	0.47
Reach-1	24.03	10-yr	11.00	188.00	189.34		189.37	0.001059	1.03	26.11	43.74	0.28
Reach-1	24.03	25-yr	15.90	188.00	189.96		189.97	0.000314	0.72	60.27	67.20	0.16
Reach-1	24.03	50-yr	20.20	188.00	190.10		190.11	0.000344	0.79	70.11	70.85	0.17
Reach-1	24.03	100-yr	24.30	188.00	190.19		190.20	0.000398	0.88	76.23	72.61	0.19
Reach-1	24.03	Regional	56.20	188.00	190.56		190.59	0.000916	1.47	104.50	80.23	0.29
Reach-1	24.03	TRCA Flow 2014	56.20	188.00	190.56		190.59	0.000916	1.47	104.50	80.23	0.29
Reach-1	24.02	2-yr	4.00	187.20	188.26	187.66	188.29	0.000844	0.81	4.96	51.53	0.26
Reach-1	24.02	5-yr	7.70	187.20	188.78	187.89	188.83	0.000768	1.02	7.55	60.70	0.26
Reach-1	24.02	10-yr	11.00	187.20	189.20	188.06	189.27	0.000681	1.13	9.70	69.92	0.26
Reach-1	24.02	25-yr	15.90	187.20	189.84	188.27	189.92	0.000555	1.24	12.86	86.17	0.25
Reach-1	24.02	50-yr	20.20	187.20	190.10	188.45	190.10	0.000039	0.33	146.72	92.07	0.06
Reach-1	24.02	100-yr	24.30	187.20	190.18	188.60	190.19	0.000049	0.38	154.54	93.56	0.07
Reach-1	24.02	Regional	56.20	187.20	190.54	189.61	190.55	0.000153	0.73	189.18	99.89	0.13
Reach-1	24.02	TRCA Flow 2014	56.20	187.20	190.54	189.61	190.55	0.000153	0.73	189.18	99.89	0.13

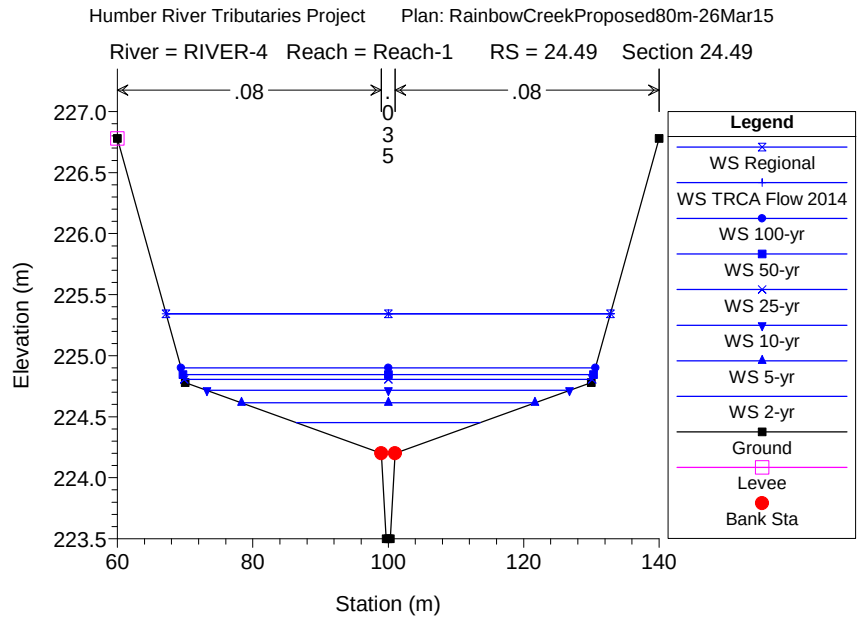
HEC-RAS Plan: 26Mar15 River: RIVER-4 Reach: Reach-1 (Continued)

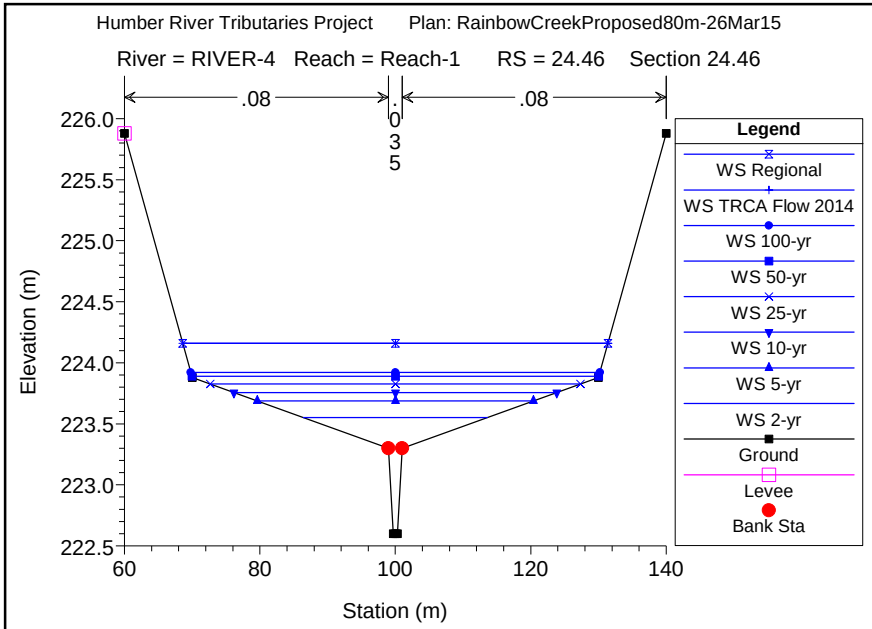
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach-1	24.015		Culvert									
Reach-1	24.01	2-yr	4.00	187.20	187.67	187.67	187.87	0.016520	1.99	2.01	6.54	0.99
Reach-1	24.01	5-yr	7.70	187.20	187.89	187.89	188.21	0.014825	2.48	3.10	8.19	1.01
Reach-1	24.01	10-yr	11.00	187.20	188.06	188.06	188.46	0.013708	2.80	3.93	41.20	1.01
Reach-1	24.01	25-yr	15.90	187.20	188.28	188.28	188.79	0.012497	3.15	5.05	45.79	1.00
Reach-1	24.01	50-yr	20.20	187.20	188.40	188.40	188.51	0.004086	1.71	22.56	48.31	0.57
Reach-1	24.01	100-yr	24.30	187.20	188.40	188.40	188.56	0.005913	2.06	22.56	48.31	0.68
Reach-1	24.01	Regional	56.20	187.20	188.67	188.67	188.99	0.010008	3.17	36.13	53.81	0.92
Reach-1	24.01	TRCA Flow 2014	56.20	187.20	188.67	188.67	188.99	0.010008	3.17	36.13	53.81	0.92
Reach-1	24.00	2-yr	4.00	186.20	186.92		186.96	0.002288	0.95	4.22	6.79	0.38
Reach-1	24.00	5-yr	7.70	186.20	187.22		187.29	0.002113	1.17	8.44	23.33	0.39
Reach-1	24.00	10-yr	11.00	186.20	187.38		187.46	0.002152	1.32	13.08	33.32	0.41
Reach-1	24.00	25-yr	15.90	186.20	187.55		187.65	0.002274	1.49	19.68	43.77	0.43
Reach-1	24.00	50-yr	20.20	186.20	187.69		187.78	0.002240	1.59	26.00	51.83	0.43
Reach-1	24.00	100-yr	24.30	186.20	187.79		187.89	0.002263	1.67	31.57	58.02	0.44
Reach-1	24.00	Regional	56.20	186.20	188.28		188.41	0.002491	2.13	65.87	76.04	0.48
Reach-1	24.00	TRCA Flow 2014	56.20	186.20	188.28		188.41	0.002491	2.13	65.87	76.04	0.48

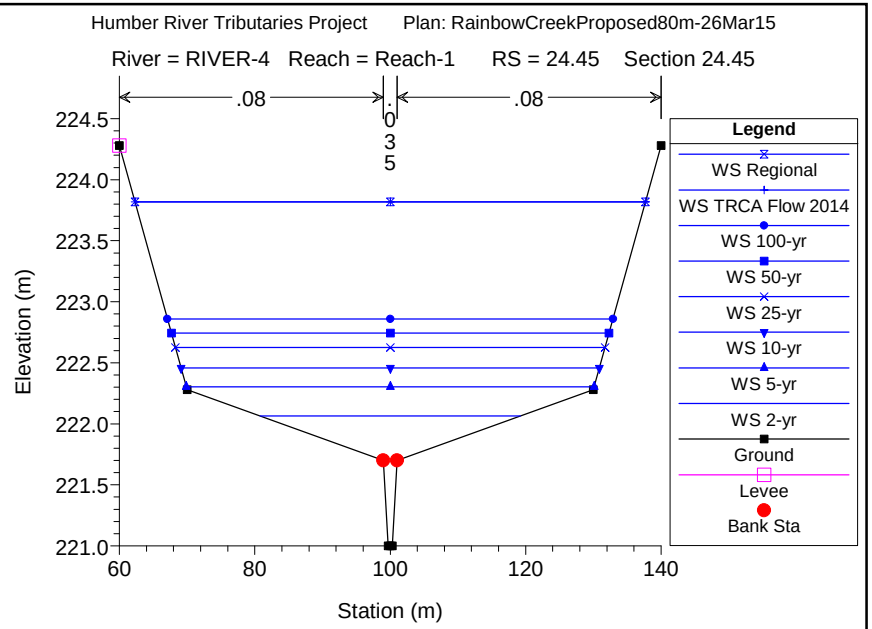

Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 25.52
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta

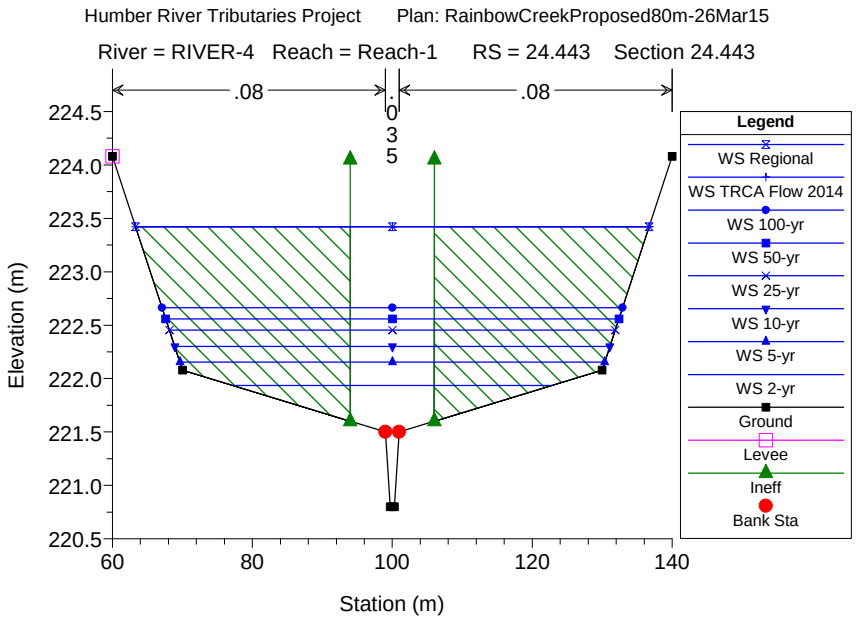

Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.51
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta

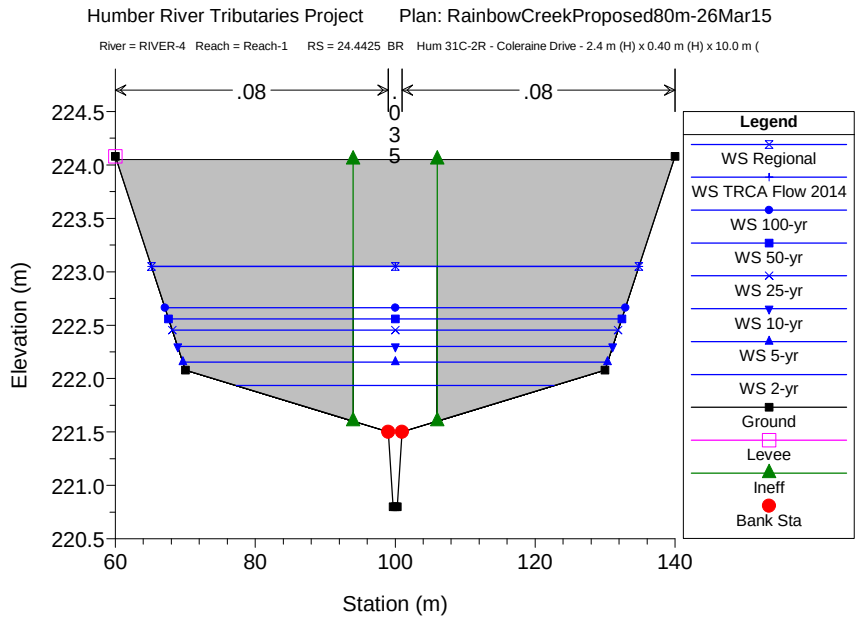

Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.50
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta

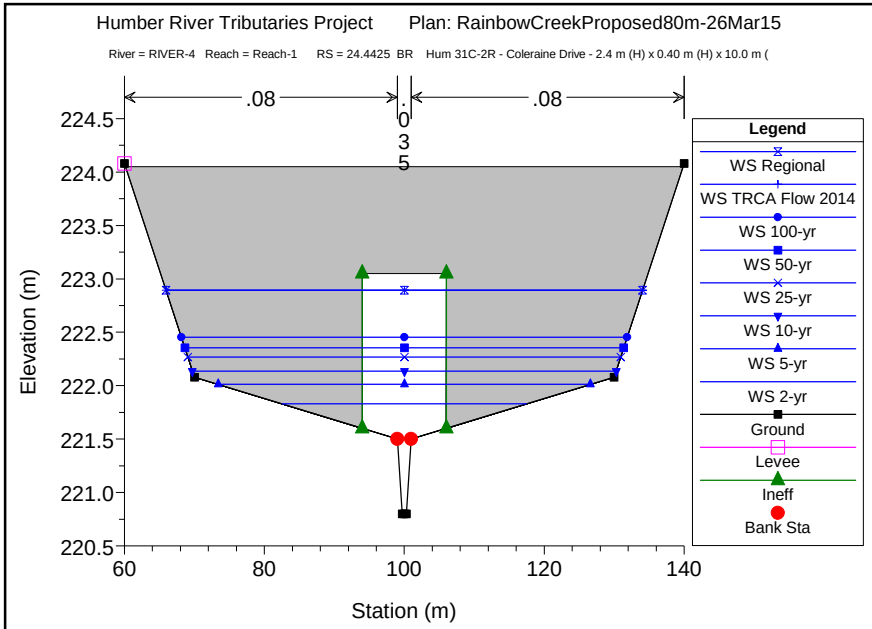

Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.49 Section 24.49
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta

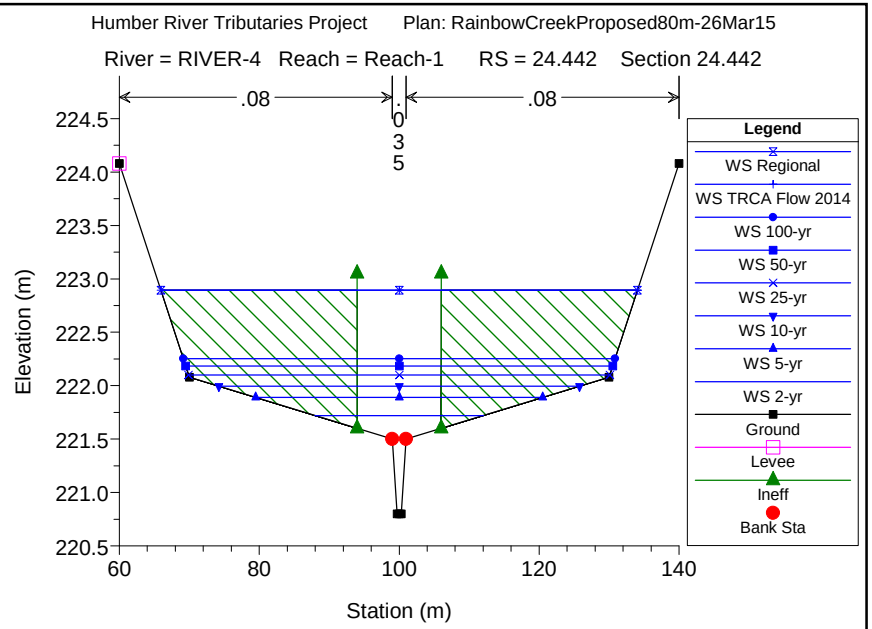

Humber River Tributaries Project Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.46 Section 24.46
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta

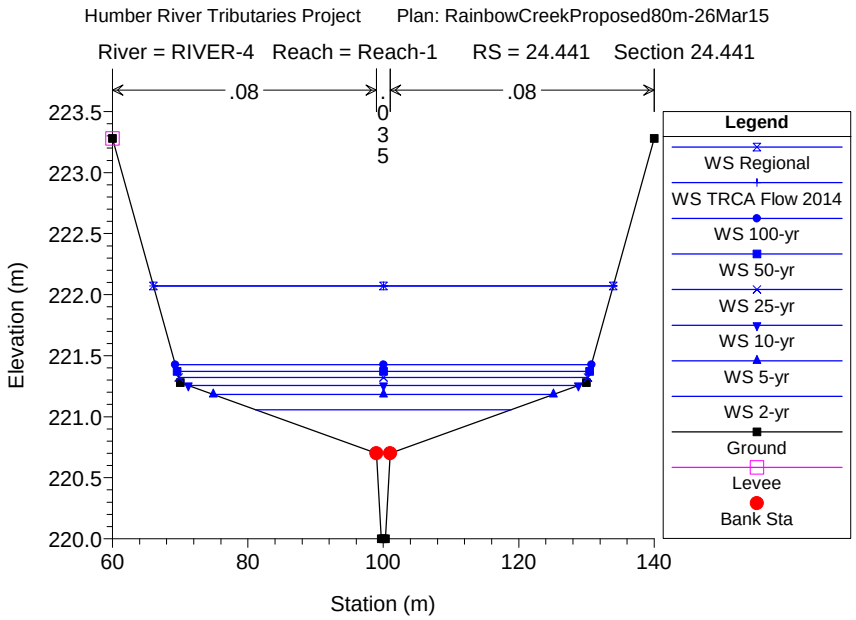

Humber River Tributaries Project Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.45 Section 24.45
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta


Humber River Tributaries Project Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.443 Section 24.443
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Ineff
Bank Sta


Humber River Tributaries Project Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.4425 BR Hum 31C-2R - Coleraine Drive - 2.4 m (H) x 0.40 m (H) x 10.0 m (
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Ineff
Bank Sta


Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.4425 BR Hum 31C-2R - Coleraine Drive - 2.4 m (H) x 0.40 m (H) x 10.0 m (
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Ineff
Bank Sta


Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.442 Section 24.442
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Ineff
Bank Sta


Humber River Tributaries Project
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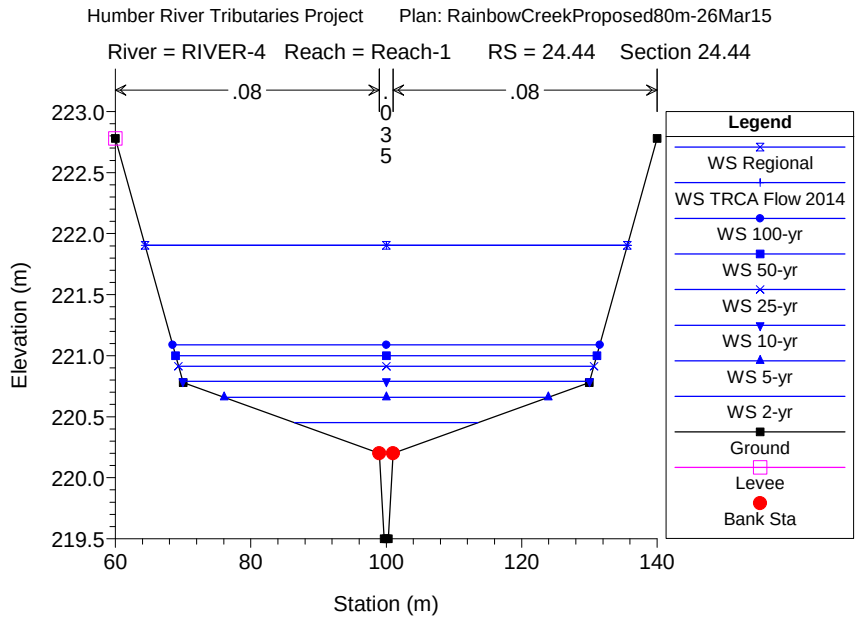
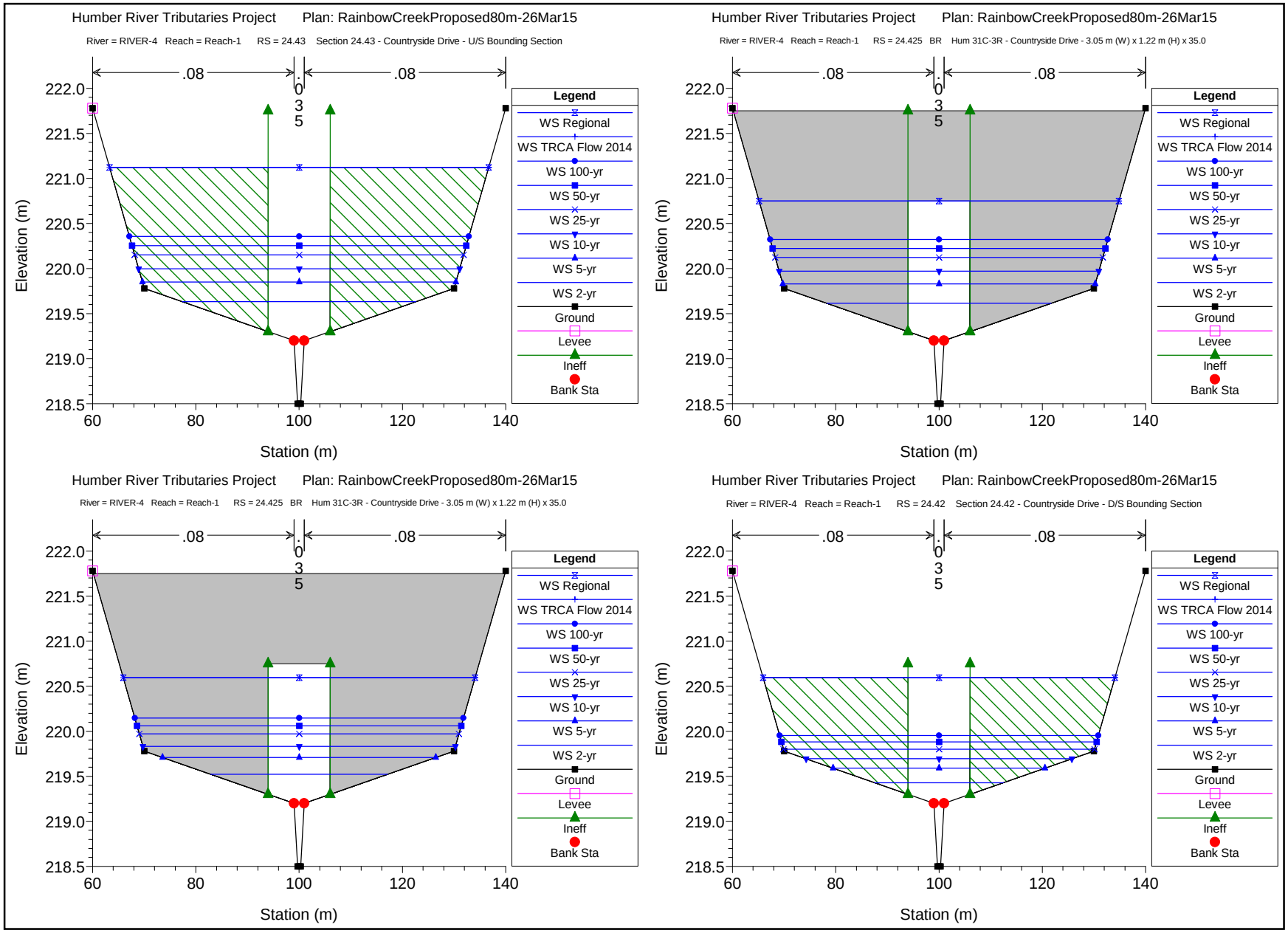
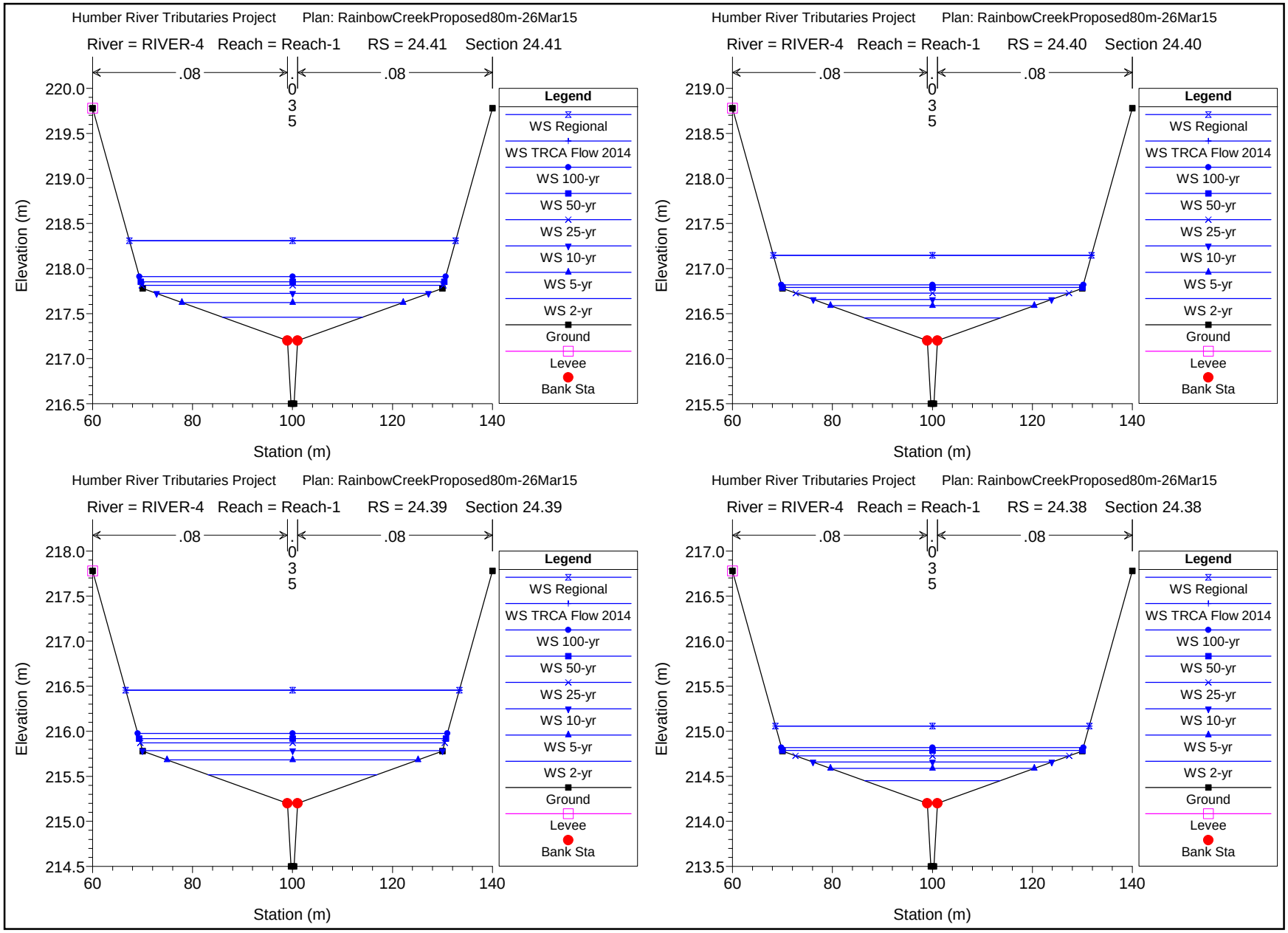
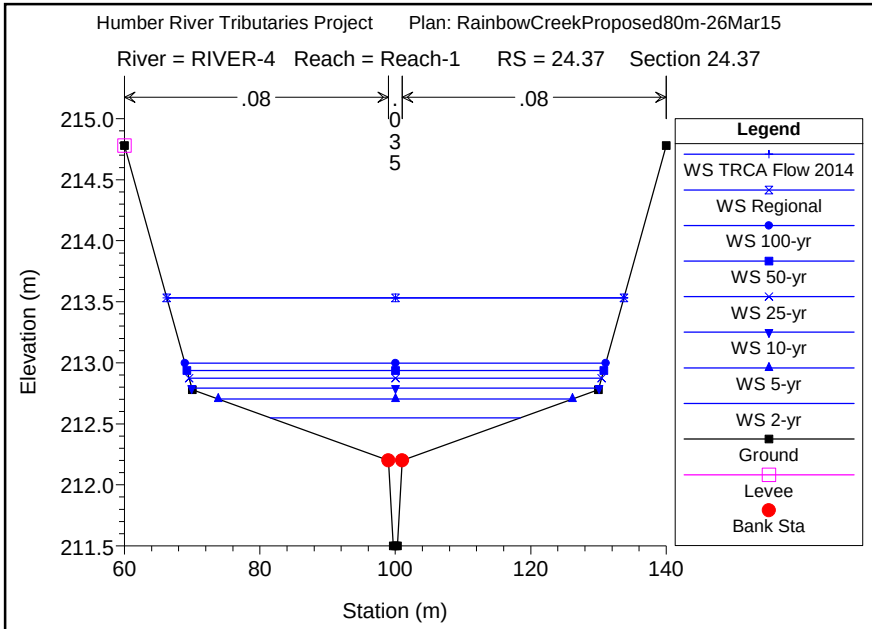
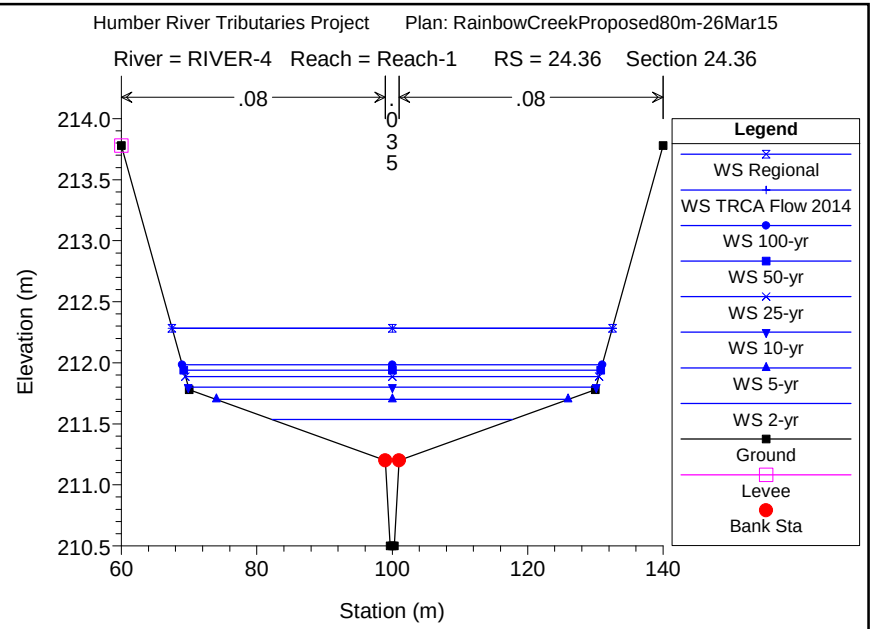
River = RIVER-4 Reach = Reach-1 RS = 24.441 Section 24.441
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta

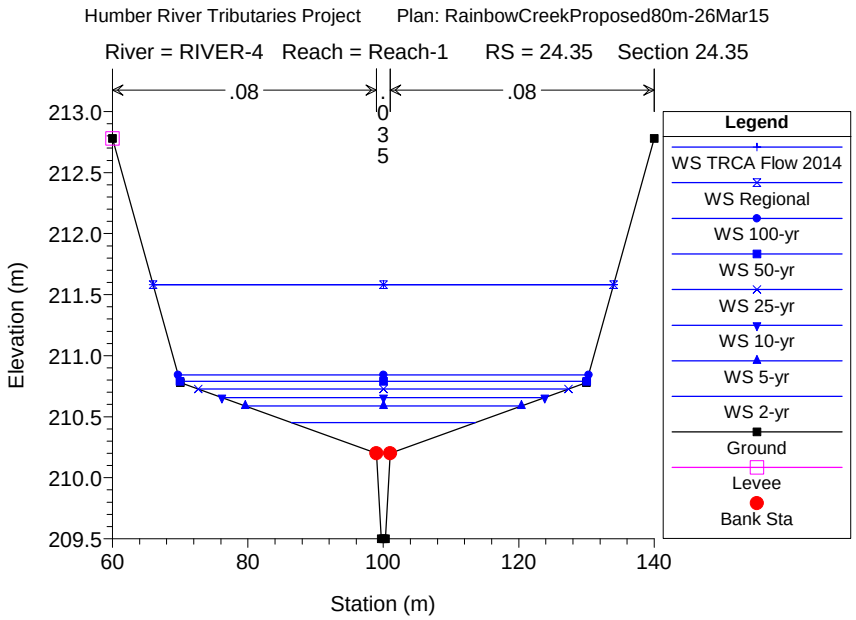

Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.44 Section 24.44
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta

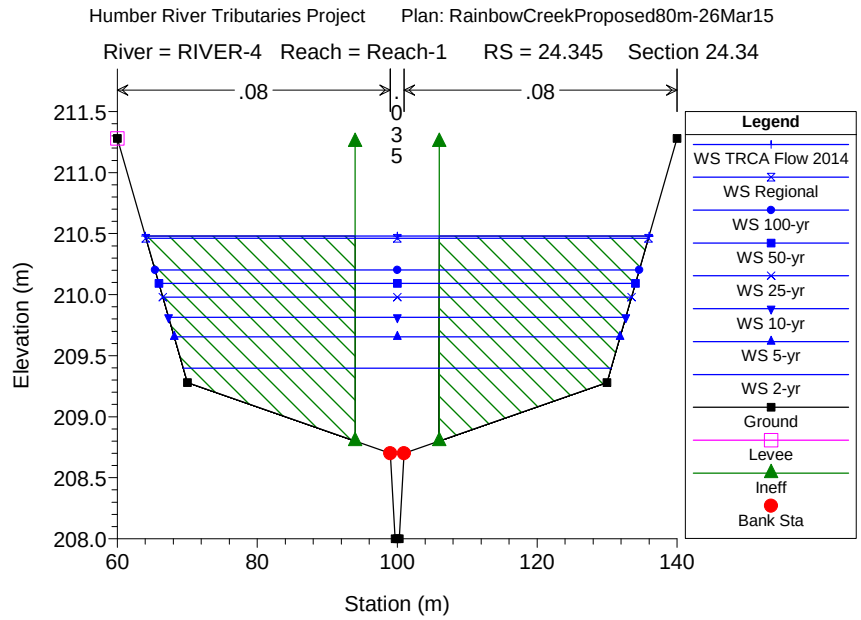

Humber River Tributaries Project Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.43 Section 24.43 - Countryside Drive - U/S Bounding Section
Humber River Tributaries Project Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.425 BR Hum 31C-3R - Countryside Drive - 3.05 m (W) x 1.22 m (H) x 35.0
Humber River Tributaries Project Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.425 BR Hum 31C-3R - Countryside Drive - 3.05 m (W) x 1.22 m (H) x 35.0
Humber River Tributaries Project Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.42 Section 24.42 - Countryside Drive - D/S Bounding Section
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Ineff
Bank Sta


Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.41 Section 24.41
River = RIVER-4 Reach = Reach-1 RS = 24.40 Section 24.40
River = RIVER-4 Reach = Reach-1 RS = 24.39 Section 24.39
River = RIVER-4 Reach = Reach-1 RS = 24.38 Section 24.38
.08
.035
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta


Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.37 Section 24.37
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS TRCA Flow 2014
WS Regional
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta


Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.36 Section 24.36
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta


Humber River Tributaries Project
Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.35 Section 24.35
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS TRCA Flow 2014
WS Regional
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Bank Sta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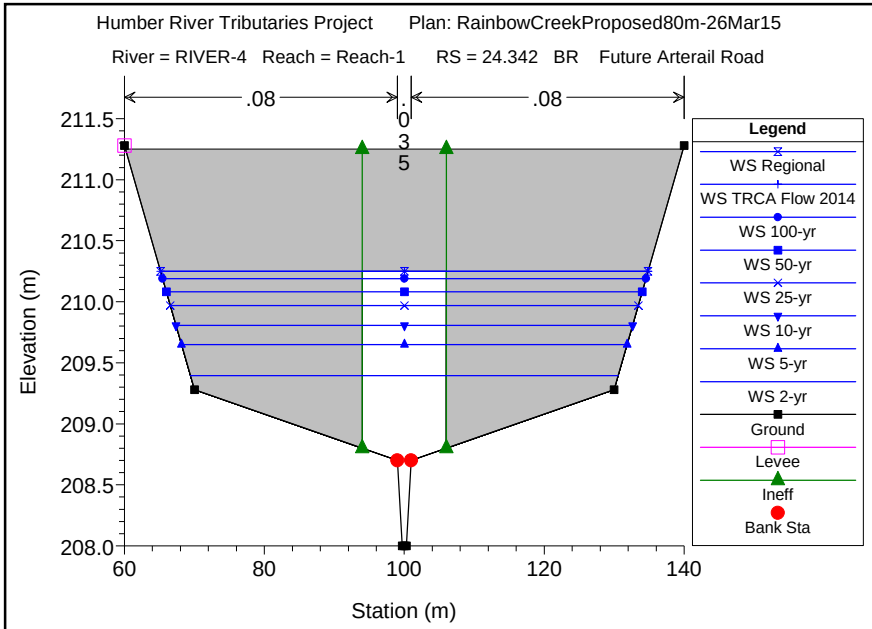
River = RIVER-4 Reach = Reach-1 RS = 24.345 Section 24.34
.08
.035
.08
Elevation (m)
Station (m)
Legend
WS TRCA Flow 2014
WS Regional
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
WS 5-yr
WS 2-yr
Ground
Levee
Ineff
Bank Sta


Humber River Tributaries Project Plan: RainbowCreekProposed80m-26Mar15
River = RIVER-4 Reach = Reach-1 RS = 24.342 BR Future Arterail Road
.08
.035
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Elevation (m)
Station (m)
Legend
WS Regional
WS TRCA Flow 2014
WS 100-yr
WS 50-yr
WS 25-yr
WS 10-yr
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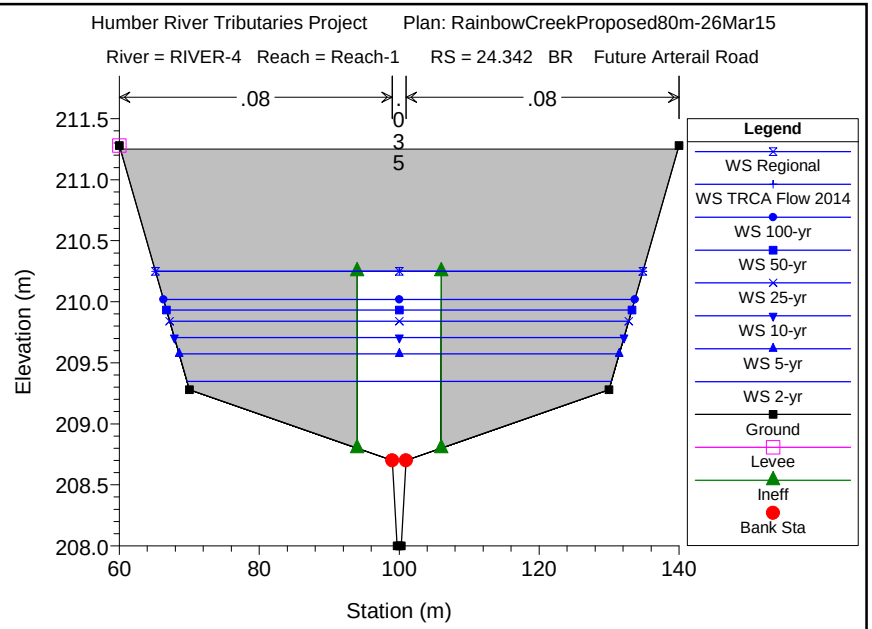
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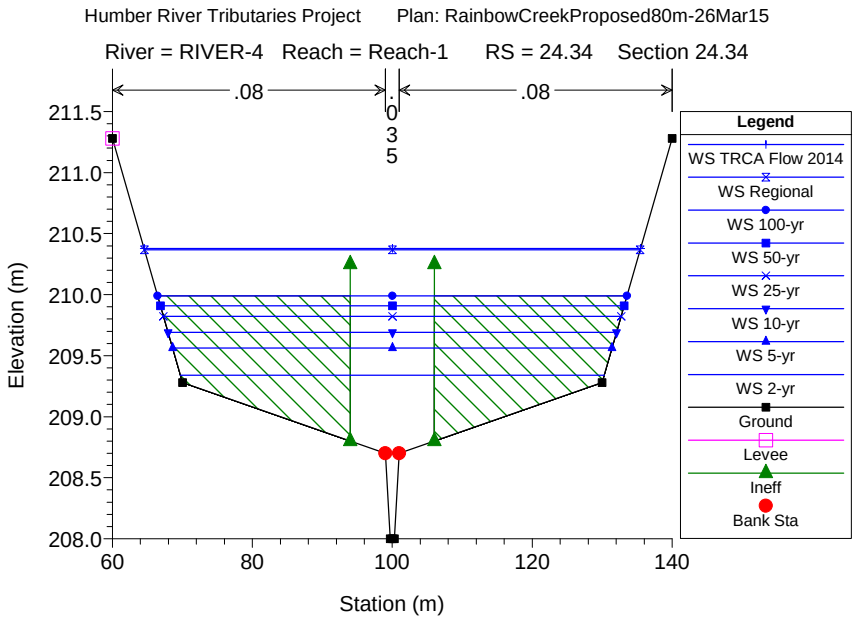
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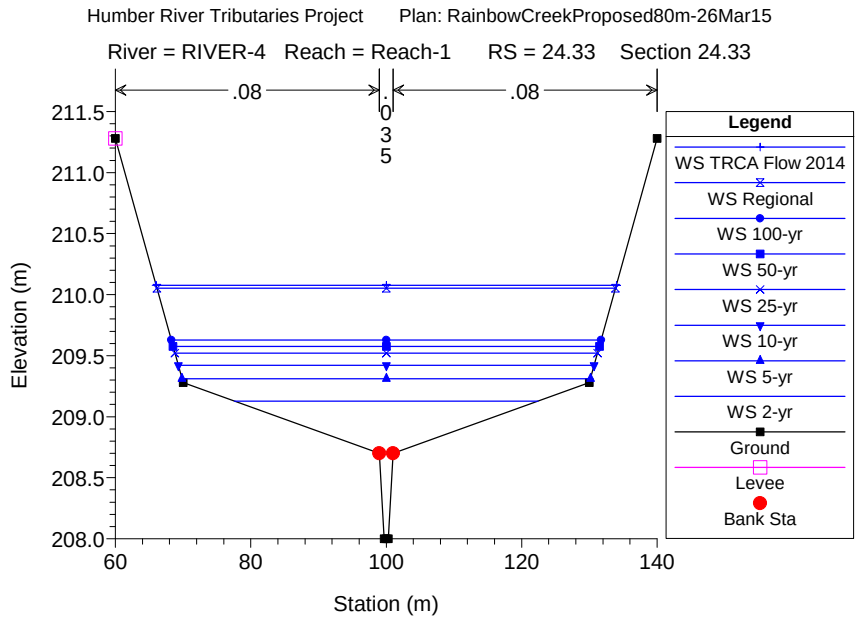
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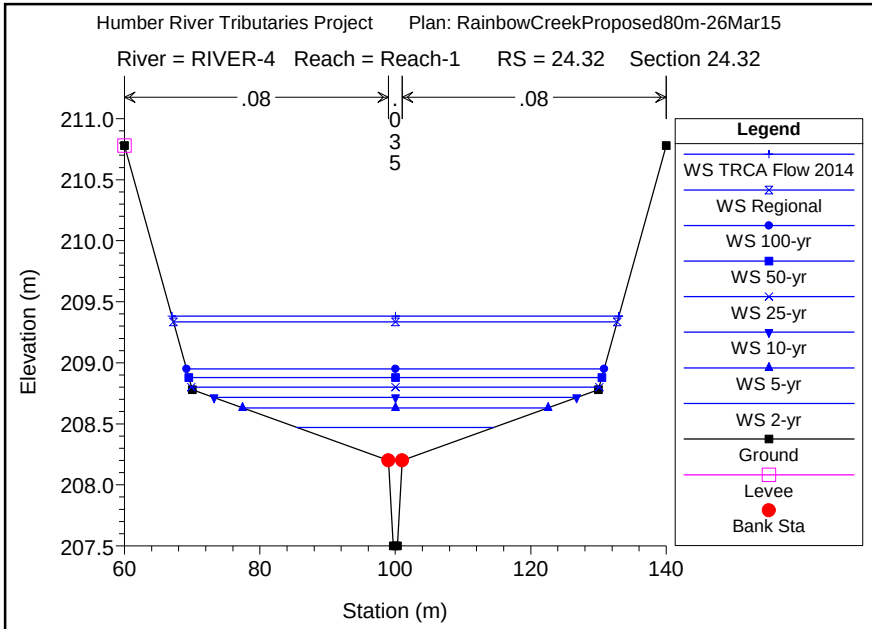
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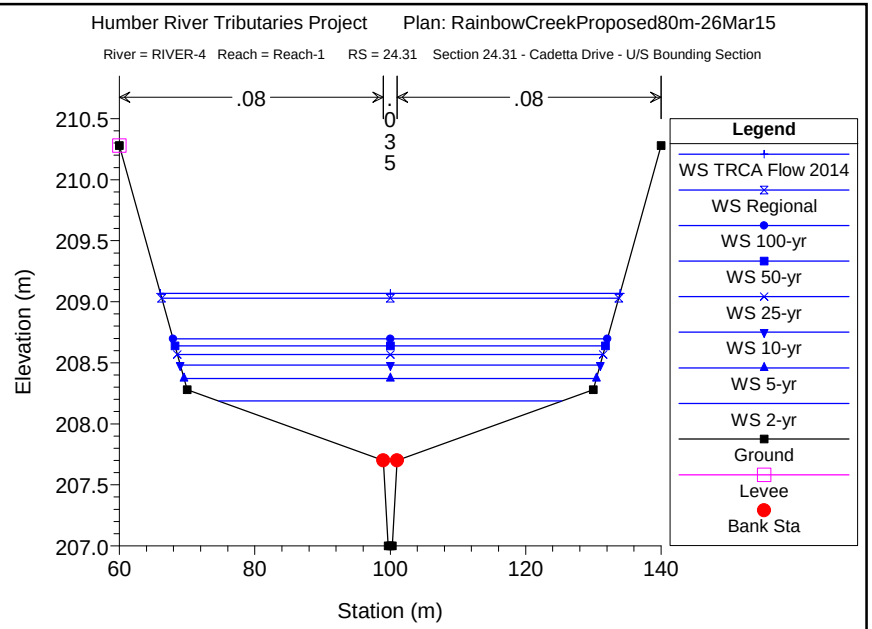
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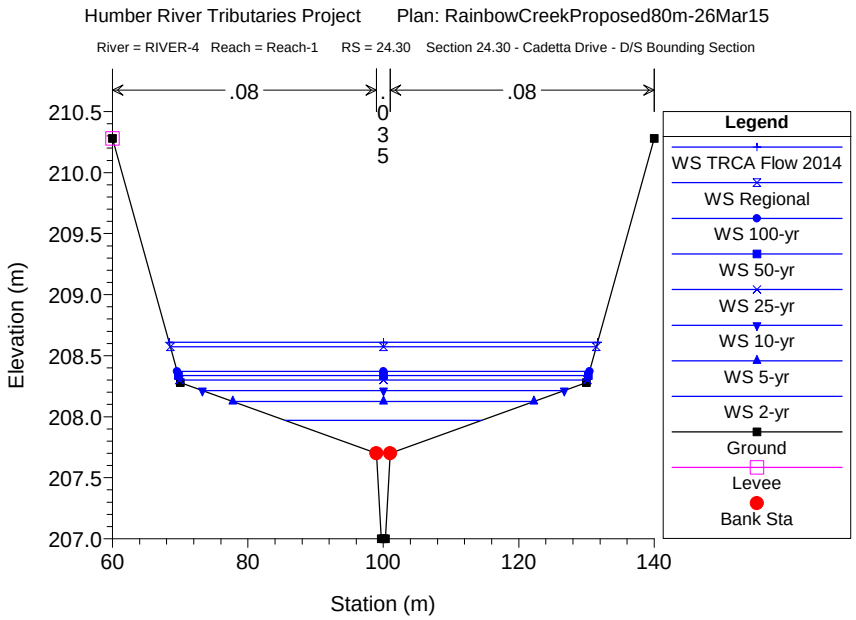
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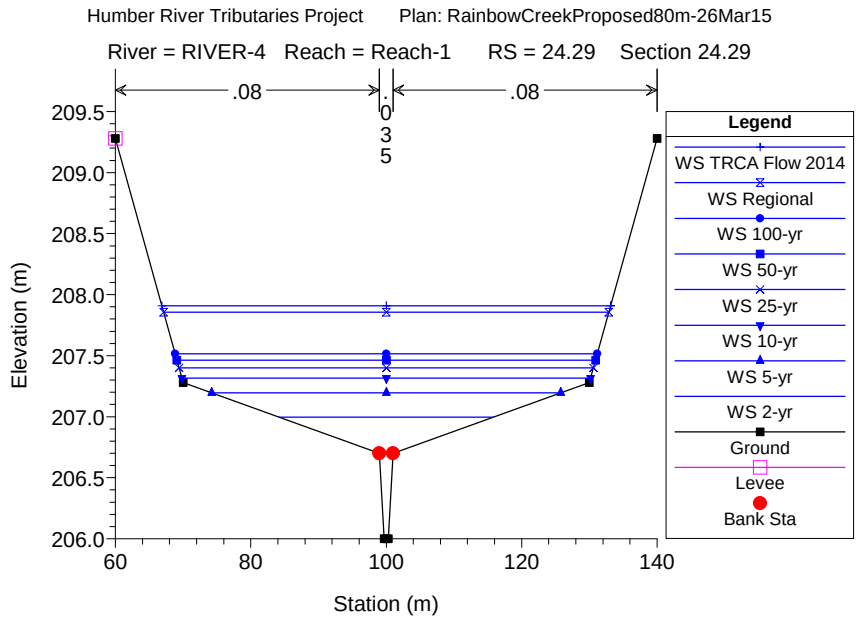
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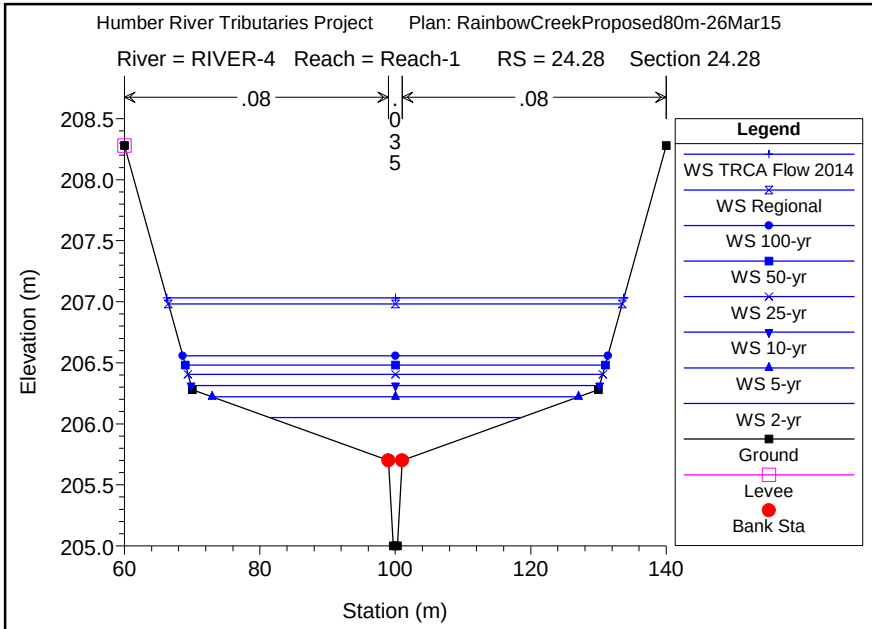
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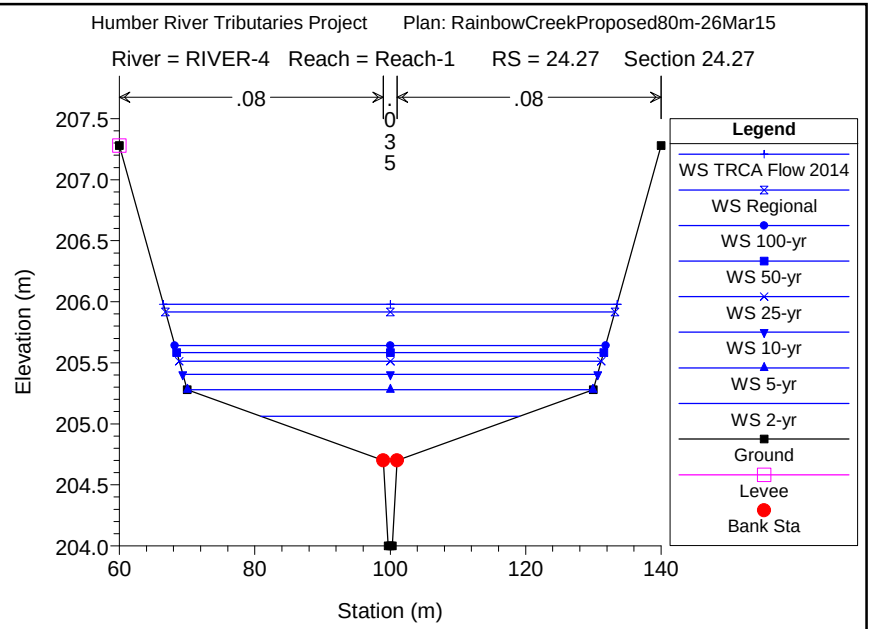
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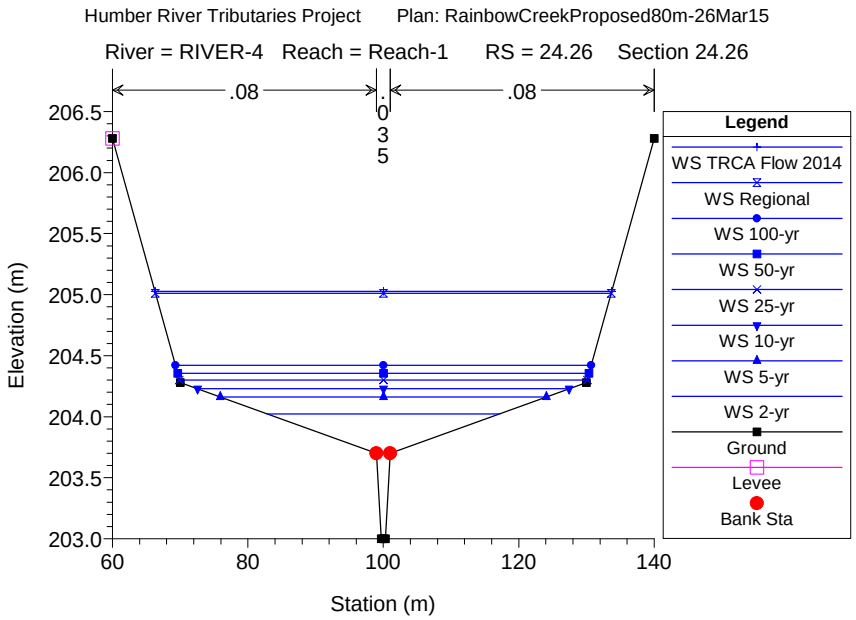
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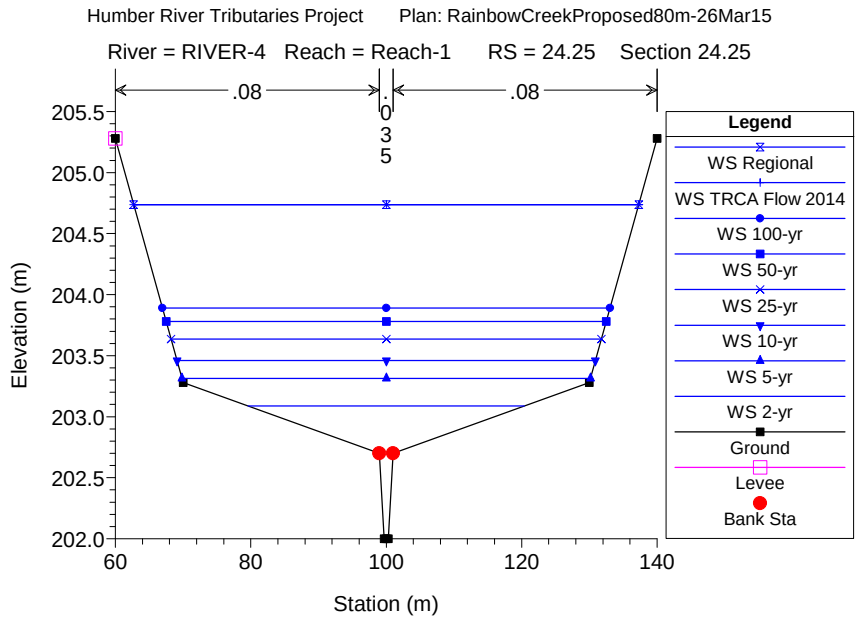
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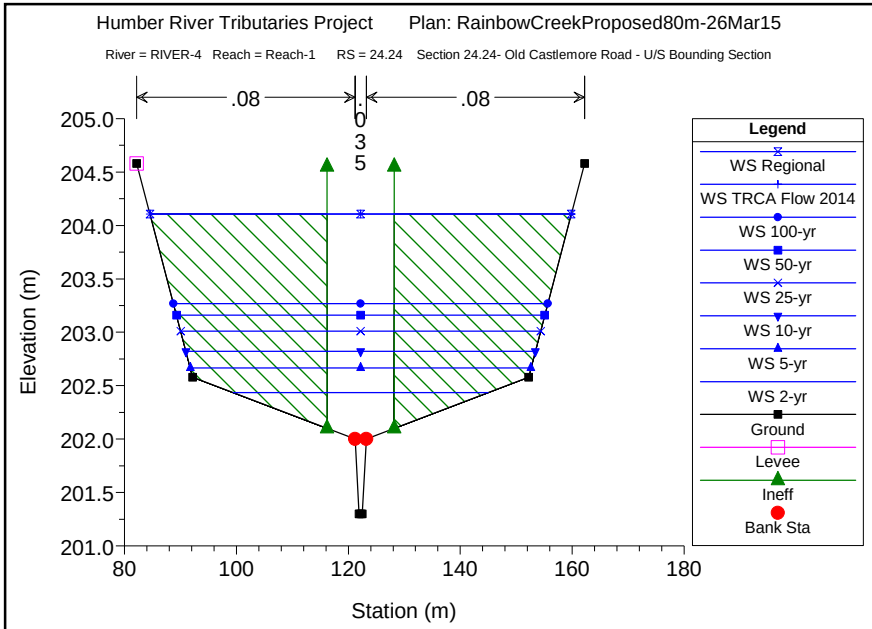
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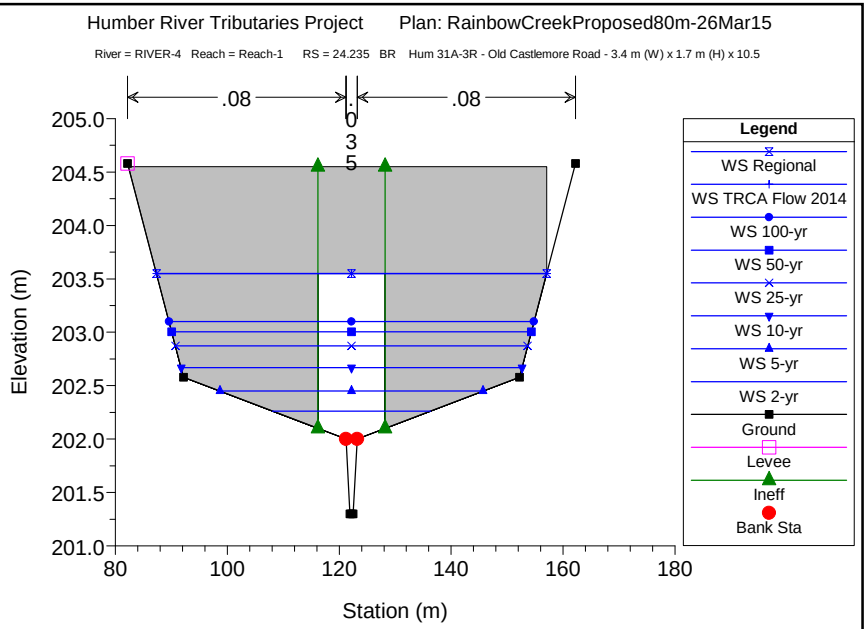
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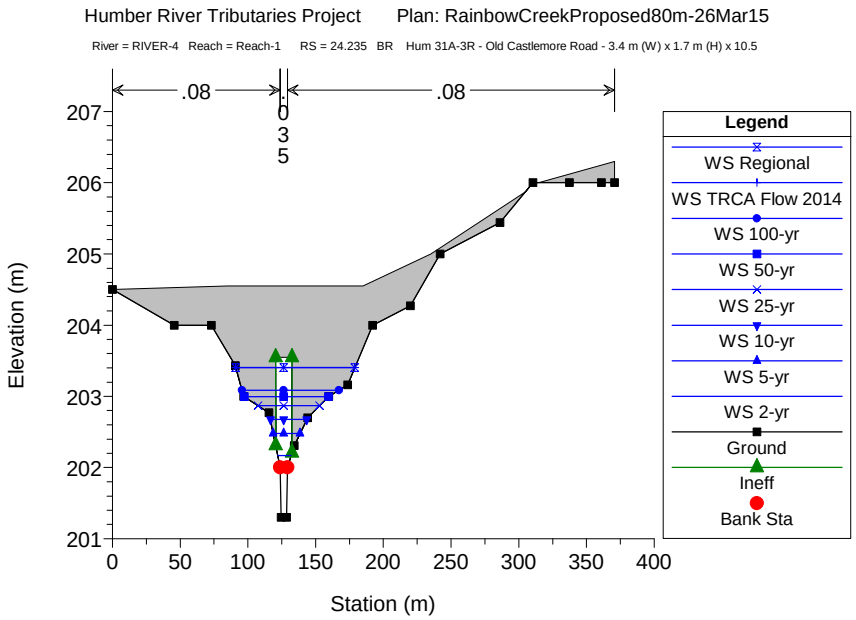
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APPENDIX M:

MESP STUDY TERMS OF REFERENCE

In addition to the original Terms of Reference (attached), additional field work, analyses, and modelling was authorized as the MESP study progressed. A brief listing of these additional items is provided:

- Additional analyses, screening, planning, and implementation recommendations related to updated species-at-risk regulations;
- Evaluations for over 20 existing agricultural ponds;
- Updating Regulatory Floodlines for the Clarkway Tributary to reflect the recent urban expansion plans in the Town of Caledon north of Mayfield Road;
- Investigation into potential floodline impacts related to draft TRCA model results;
- Revisions to stormwater management modelling to reflect updated TRCA standards for assumed impervious values;
- Planning and conceptual design of the proposed restoration and enhancement works for the Rainbow Creek corridor;
- NHS Compensation analyses for the proposed Rainbow Creek corridor;
- Hydraulic modelling for the proposed Rainbow Creek corridor;
- Additional on-site meetings, analyses and discussions related to HDFs on the Gore Road Tributary;
- Additional meetings with the City, TRCA and Landowner representatives throughout the study to co-ordinate report updates reflecting the above items

3. TERMS OF REFERENCE

This Terms of Reference for a Phase II MESP sets out the tasks to be undertaken and the expected deliverables of the study. The results of the study will contribute to the development of a secondary plan in accordance with the requirements of Policy 5.4.6 of the Brampton Official Plan.

3.1 STUDY AREA AND RELEVANT BACKGROUND INFORMATION

The Highway 427 Industrial Secondary Plan lands consist of about 3,000 acres (1,200 hectares) and are generally bounded by Castlemore Road to the south, Mayfield Road to the north, The Gore Road to the west, and Region of Peel Rd. 50 to the east (see Appendix 1).

Most of the lands are currently occupied by active agricultural uses and drained by tributaries of the Humber River flowing generally southerly through the Area.

The Area 47 lands lie within portions of the Humber River watershed and the three tributaries are designated environmental features, as shown on the City of Brampton Official Plan Schedule A, General Land Use Designations, include two tributaries of the West Humber River known as the Gore Road and Clarkway Tributaries, and a tributary of the Humber River known as the Highway 50 Tributary (Rainbow Creek).

The MESP study area is the Area 47 lands, also defined as the “Study Area”. However, upstream and downstream aquatic conditions, natural heritage features on adjacent lands, upstream external surface drainage catchments and downstream watercourse conditions (the extent of which must be determined in consultation with City of Brampton and TRCA staff) must also be understood and considered during the preparation of environmental conservation and management and servicing strategies.

The West Humber Subwatershed Study was prepared for numerous subwatersheds within the Humber River watershed in 1998. Its recommendations remain valid today and guide requirements for the preparation of more detailed environmental and engineering review of the Area 47 lands in support of Secondary Planning. The TRCA have also prepared: the Humber River Hydrology Update, the Humber River Watershed Plan, the Humber River Fisheries Management Plan, the TRCA Terrestrial Natural Heritage System Study, the soon to be released TRCA Water Management Guidelines and HRWS Implementation Guide, June 2008. These studies will also provide input to the Area 47 MESP in terms of hydrology and hydraulics, and ecological protection, restoration and enhancement and environmental management, respectively. The TRCA’s MESP Requirement in Support of Secondary Plans June 2007 should be consulted as a guiding document for the MESP Report and the soon to be released TRCA “Water Management Guidelines” should be used as a guiding document for the development of the storm water management scheme in the MESP.

The City of Brampton Official Plan 2006 provides policies for preparation of MESP including:

- The identification, protection, restoration, enhancement and linkage of natural heritage system;
- Environmental management, including stormwater management and best management practices;
- Transportation;
- Cultural heritage conservation;
- Recreational open space; and,
- Urban design.

All of these policies will influence the planning and integration of the natural heritage system, the transportation-transit system and the sustainable development of residential and industrial communities of the secondary plan area.

The Region of Peel Official Plan provides policies for protecting significant features of the natural heritage system considered Core Greenlands. At this time, the Peel Region Official Plan Review (PROPR) for conformity with the Provincial Policy Statement, Greenbelt Plan and Places to Grow has identified the Clarkway Drive Tributary as Core Greenland.

3.2 STUDY PURPOSE

The purpose of the MESP is to provide input to the preparation of the Secondary Plan for Area 47 including:

a) Development of environmental goals, objectives and targets for the hydrologic, terrestrial and aquatic resources that are in conformance with current policies, watershed-subwatershed-environmental management plans and current best practices.

b) Opportunities and Constraints mapping identifying the environmental areas, features, functions and linkages within the Study Area (and to lands beyond the secondary plan), their approximate limits and preliminary buffering requirements. Opportunities to incorporate cultural landscape features and functions into a preliminary natural heritage system will be identified. This preliminary mapping will provide input to the planners to prepare preliminary development concepts for further review and analyses as part of the MESP.

c) A proposed Natural Heritage System (NHS) that addresses the defined environmental goals, objectives, targets and best practices through setting actual boundaries of natural features in the field, providing recommendations for ecological buffers and/or setback requirements and identifying potential uses in the NHS including passive recreational trails, roads, services crossings and stormwater management, headwater drainage feature conservation including opportunities for relocation, and other potential mitigative or restoration/enhancement opportunities within or adjacent to the NHS.

d) A Proposed Stormwater Management Plan identifying design criteria, water balance and Stormwater Management Practices (location, type, sizing) including sustainable best management practices to be incorporated into development plans.

e) Input to the Municipal Servicing Strategy and Transportation Study including assessing environmental implications of servicing and transportation needs and recommending, where appropriate, road crossing locations and designs, servicing crossing locations and construction practices and implications of servicing to groundwater levels and local use.

f) Identification of how the MESP recommendations meet requirements set out in the Provincial Policy Statement (PPS), Places to Grow, Regional and Local Official Plans, TRCA’s watershed environmental studies and strategies, and any other applicable documents.

g) An Implementation Strategy addressing implementation considerations and responsibilities associated with the MESP recommendations. This includes the identification of how the MESP recommendations will be implemented through secondary plan policies and what future study requirements for subsequent stages of the development process, e.g. Block Plans, are necessary.

The size of the area beyond the boundaries of Area 47 to be included in the MESP will be determined in consultation with City of Brampton and TRCA staff.

3.3 APPROACH

3.1 Phased Study Approach

MESPs have been prepared in support of developing areas within the City of Brampton TRCA watersheds for many years. As such, TRCA's "Draft Generic Requirements for Master Environmental Servicing Plans, February 2003", "MESP Requirements in support of Secondary Plans (September 2007), and "TRCA Draft Environmental Impact Statements Guidelines, May 2004" have been used to prepare the MESP Terms of Reference for Area 47. As well as using these generic requirements and the documents, the MESP will also reference and incorporate as appropriate, applicable recommendations and strategies from TRCA's: Humber River Watershed Plan, Humber River Fisheries Management Plan, Terrestrial Natural Heritage System Strategy complete with its "Target System". The requirements and recommendations from these documents were tailored to specific conditions within Area 47 to reflect specific MESP study needs outlined herein.

As well, TRCA's soon to be released "Water Management Guidelines" is to be used as a guideline for this MESP, particularly the storm water management scheme will be consistent with these guidelines.

Before any significant work takes place it is strongly recommended that the study include a staking exercise to be conducted in cooperation with City of Brampton and TRCA staff to delineate natural features especially considering the assumptions made during Phase I may be significantly different than what is defined on the ground.

Recent work conducted by the TRCA has identified fresh water mussels in the vicinity of Area 47. As part of the aquatic assessment, the MESP will conduct mussel sampling using appropriate protocols to determine the species and locations of any mussels within the boundaries of Area 47.

MESPs typically have two analytical and reporting phases:

<u>Phase I</u> - Characterization of Existing Conditions and Preparation of Opportunity and Constraints Mapping; and,

<u>Phase II</u> - Analysis and Preparation of Management Strategies and Implementation Recommendations

Included as Appendix "2" is the City of Brampton EIR/MESP Terms of Reference that was used as a guideline to develop this Terms of Reference and should be addressed in the MESP.

4.2 Integration with Planning Analyses

MESP studies cannot be prepared independently from planning analyses. The integration of MESP work with the planning of the Area 47 Community is essential. Environmental and engineering issues are two of several planning considerations to be assessed when making land use planning decisions and preparing secondary plans. An iterative process of sharing data and recommendations is important for an integrated community design. This MESP Terms of Reference also addresses study integration needs with other supporting technical reports and planning analyses.

4.3 Availability of Phase I Work

The MESP Phase I, Overview of Existing Conditions and Preparation of Opportunities and Constraints Mapping will provide input to Phase II work.

The Phase I work will include desktop review, and fieldwork and analyses to:

a) Identify environmental and drainage study area limits;
b) Compile and review existing studies, plans, mapping, etc.;
c) Summarize existing policies, guidelines, legislation affecting MESP study components;
d) Identify existing storm drainage patterns;
e) Identify/review existing hydrology, hydraulics, floodlines and where unavailable, calculate floodlines along watercourses for which there is a flooding hazard;
f) Characterization of all hydrologic features (watercourses, swales, natural areas providing flood storage attenuation, depressional storage, recharge areas, seepage areas or springs). This may include the initiation of regular monitoring of wetland water levels and using the Classification, Evaluation and Management of Headwater Drainage Features, Interim Guidelines, March 2007 (for headwater drainage features to be scoped by TRCA);
g) Identify soils within the study area;
h) Identify existing physiography, geology, groundwater flow system, groundwater recharge/discharge areas and aquifer vulnerability zones; assess linkages between groundwater and wetland features and watercourses;
i) Calculate existing water budget across the Study Area;
j) Assess fish community and aquatic habitats;
k) Assess vegetation communities, complete a botanical inventory and prepare Ecological Land Classification (ELC) mapping;
l) Complete amphibian habitat assessments and breeding bird surveys;
m) Identify significant landforms and cultural landscape resources;
n) Assess/characterize (to an extent sufficient to support the continuous erosion assessment in Phase II) channel morphology and streambank erosion including the identification of stream reaches, completion of ’rapid’ field assessments, calculation of planning level meander belt widths and erosion setbacks, identification of areas where detailed stable slope analysis is required, calculation of erosion thresholds. Establish fluvial geomorphology monitoring stations at appropriate locations;
o) Description of the relationship(s) and dependencies between natural features and Study Area hydrology;
p) Identification of limit of development criteria and preliminary buffer requirements as per the policies and/or practices of the province, City of Brampton and TRCA; and,
q) Preparation of Opportunities and Constraints mapping to illustrate:
    - opportunities for the protection, enhancement and rehabilitation of existing environmental features and functions including existing and potential linkages within the Study Area and offsite;
    - opportunities for development; and,
    - approximate development limits.

Fall of 2006 and Spring/Summer 2007 and 2008 environmental inventories were completed for Area 47 by Aquafor Beech Ltd. This consulting team gathered existing conditions data noted above as part of the preparation of MESP Phase I inventories and completed analyses to characterize existing conditions and prepare opportunities and constraints mapping. This mapping will identify

opportunities for the establishment of a preliminary natural heritage system. Mapping and recommended management approaches for various environmental areas will be provided to the planners for integration in other supporting technical reports (e.g. Transportation, Municipal Servicing Strategy, etc.), as appropriate, as well as the proposed development concept.

The Phase I MESP will identify the Opportunities and Constraints of existing environmental features, their functions and linkages, including their approximate limits and preliminary buffering requirements, both within and beyond the study area, as appropriate. The Opportunities and Constraints mapping will illustrate how these natural features and functions have been incorporated into a preliminary natural heritage system. This preliminary mapping will provide input to the planners to prepare preliminary development concepts for further review and analyses as part of Phase II of the MESP.

3.4 PHASE II MESP SCOPE OF WORK

Given the foregoing, the MESP Phase II work shall include analyses and preparation of:

a) Proposed Natural Heritage System;
b) Proposed Stormwater Management Plan;
c) Input to the Municipal Servicing Strategy and Transportation Study and the Community Design and Open Space Study;
d) Recommended Management Strategies; and,
e) Implementation Strategy.

The following sections discuss the scope of work to be completed for each of the above Phase II study components. These study components require a preliminary development proposal as input to the analyses to be completed.

Each of these study components will include an assessment of potential impacts of future land uses and develop related management and implementation strategies. In this regard, the preliminary land use concept must be assessed from hydrologic, hydrogeologic, fluvial geomorphologic, terrestrial and aquatic resource perspectives. On the basis of these impact analyses, the preliminary land use concept will be refined to include environmental protection and management strategies.

3.4.1 Proposed Natural Heritage System

Based on: the results of the Phase I environmental inventories and analyses, a description of natural heritage features and functions present within the Study Area, the opportunity and constraints mapping and input from planners, the preliminary natural heritage system should be defined. This includes establishing the existing physical boundaries of the natural features (i.e. top of bank, vegetation dripline, etc.) in the field and recommendations for buffer and setback requirements as well as confirming potential linkages between natural heritage features. These two activities will result in the identification of limits of development adjacent to the Natural Heritage System. The MESP will also identify, assess and define appropriate mitigative or restoration and enhancement requirements to address potential uses, encroachments and/or crossings of the Natural Heritage System, including trails/pathway linkages (possible creek crossings, etc.), roads, services, stormwater management, and headwater drainage feature relocation.

Hence, based upon the above, the following analyses will be completed.

3.4.1.1 Staking of Natural Heritage Features and the Establishment of Limits of Development

The Phase I Opportunities and Constraints Mapping identified the approximate boundaries of the natural features based on desktop analysis-estimation of a number of different factors including floodplains, meander belt widths, fisheries setbacks, top-of-bank, slope stability, significant vegetation, wetland areas and buffers. Along a valley or stream corridor for example, the governing factor is defined to be the factor that produces the limit farthest inland from a watercourse (i.e., the outermost limit from the watercourse). It is expected that the governing factor will vary depending upon site-specific conditions throughout the Study Area.

The limit or boundary of the various natural heritage features will be established as follows:

a) Assess each factor noted above to determine the governing factor that will define the limit-of-development throughout the Study Area;

b) On participating owners' lands, the limits of the various natural features (e.g., drip lines or top-of-bank, etc) must be staked and surveyed in the field with representatives of the TRCA and City. At the time of field stakings, the need for site-specific field investigations of slope stability should be determined. Should it be determined that there are areas of existing slope instability or steep slopes in any location, long-term slope stability assessment(s) must be undertaken. A survey crew should accompany the stake-out participants to expedite the survey of agreed upon boundaries. The survey plan should be submitted to the TRCA and City for their approval.

c) On non-participating owners' lands, where site access is not available and investigations cannot be undertaken at this time, all site surveys and drawings should indicate the approximate feature boundaries based on the Phase I desktop Constraints analyses, and clearly identify that field work and studies will be required to define the limit of development in accordance with City of Brampton and TRCA requirements. The MESP recommendations should also clearly state that field stakings of natural feature boundaries in combination with supporting technical reports (e.g. geotechnical), as appropriate, are essential, regardless of any desktop findings in order to finalize the limit of development.

In summary, a key product arising from this task will be the preparation of large-scale mapping (e.g. minimum 1:2000) that clearly identifies the boundaries of the various natural heritage features. These feature limit lines will assist in the ultimate formulation of limits of development. For the lands of non-participating owners the approximate feature boundaries will be shown with the clear requirement for detailed site assessment in the future to more accurately delineate the limit of development. These areas on the development limit drawings will use a dashed line or different color to differentiate it from the field-staked limits of natural features.

The Limits of Development line will then be integrated with the preliminary development, concept based upon the consideration of the various setback/buffer criteria. Based on current policies the minimum setback required by the TRCA is 10 (ten) metres from watercourses to be preserved with drainage areas of 50 Ha or more and vallley features. However, the City of Brampton requires a minimum 10 m buffer from the limit of a natural feature as defined by its environmental hazards and/or ecological sensitivities. The MESP may determine that greater buffers and/or setbacks are required for some natural features and/or areas.

Potential proposed uses with the Natural Heritage System shall be clearly described.

3.4.1.2 Finalization of Buffer and Setback Requirements

The above discussion speaks to the general establishment of limits of development and uses within the Natural Heritage System. While the MESP Phase II will define the formulation of limits of development, there may be a need to complete a site-specific Environmental Impact Study (EIS), including preliminary grading plan that would be used to finalize the buffer or setback requirements. The TRCA has advised that all buffers adjacent to valley and/or stream corridors must be a minimum of 10 m and buffers adjacent to any PSW (no PSW has been identified in the Area 47 through preceding studies) must be a minimum of 30 m. The City of Brampton Official Plan 2006, Sec. 4.5.13.7 requires a minimum 10 metre buffer from all environmental hazards and/or ecological sensitivities of natural features to define the limit of development. Sec. 4.5.3.18 notes that a buffer in excess of 10 m may be required based on the results of environmental studies.

TRCA will require the delineation of Regulatory Storm floodlines for all watercourses that are identified with drainage areas of 50 Ha or greater and potentially for smaller watercourses if a hazard is identified:

- The limits of any slope stability and erosion hazard must be delineated for all identified valley corridors in accordance with MNR guidelines; and
- The floodlines and stability-erosion hazard limits as identified must be incorporated into the determination of development limits.

For the majority of the Area 47 lands, the development limits will typically be established adjacent to one (or a combination) of woodlands, valley and/or watercourse corridors and wetlands, and based on the field review/staking of these features. The TRCA and/or City may request an EIS and/or additional specific feature review such as the completion of the Evaluation, Classification and Management of Headwater Drainage Features- Interim Guidelines, March 2007 for the review of headwater drainage features.

3.4.1.3 Coordination of Trail Locations within or Adjacent to Valleys

Conceptual trail locations will be identified in consultation with the City of Brampton and TRCA. The City's Pathways Master Plan identifies conceptual locations for pathways and the MESP Phase II will assess and refine the overall alignment of the pathways network. The alignment will be guided by the City's community design objectives to facilitate neighbourhood connectivity, transit and bike commuting, and recreational cycling.

The Phase II report will assess the potential for pathways, either identified in the Pathways Master Plan and/or considered necessary to develop a local trail network, that are proposed within the natural heritage system (i.e. valley and watercourse corridors, woodlands, etc.) and as may be required along the top of bank to achieve connection to tableland areas, in terms of defining their location, construction impacts and mitigative measures, etc.

3.4.1.4 Identification of Mitigation Measures or Restoration/Enhancement Opportunities

The MESP Phase II should identify opportunities to restore, enhance and link natural heritage features that are planned for protection and/or describe mitigation measures that are intended to offset potential impacts from proposed development adjacent to these areas.

It is recommended that the protection and mitigation of private wells be considered at every major stage leading to the area development and that an increasingly greater level of detail involving site specific information (i.e. gathered through private well survey and monitoring) are incorporated into the analysis. The work tasks related to groundwater use during the early stages involving development of the land use concepts may involve a single mail-out survey targeting all residents within the entire area and then, after the review of the responses, the work may involve selecting suitable locations for monitoring event(s) to be carried as appropriate to obtain representative information on water quality and water levels in private wells and screening/assessment should precede the design and construction stages involving infrastructure (i.e. water mains, sewer mains, roads, SWM ponds, etc.) and design necessary prior to, during, and post-construction as per the APPLICATION OF GUIDELINES FOR CLEARANCE OF STANDARD DRAFT CONDITIONS, NEW DEVELOPMENTS ON MUNICIPAL SERVICES, REGIONAL MUNICIPALITY OF PEEL.

Rationale:

- Gathering of information on groundwater conditions and use from the early planning stages would provide for a better understanding of the current practices concerning groundwater uses in the area, age and conditions of wells, pre-development water levels and water quality within various water bearing formations utilized by private wells, existing or potential issues concerning water quality and quantity; and the potential degree of buy-in in terms of future connection to municipal water and sewer as the development progresses.

- Monitoring during the construction stages will occur at higher frequency and a more local scale and would take place after all the development planning work is completed. It should be noted that at this stage mitigation would be the only form of dealing with the real or perceived impact if pre-existing conditions had not been adequately assessed and taken into account during the planning and design stages.

- In view of the above, groundwater use and potential impacts to private wells should be considered alongside all other environmental and engineering aspects including design and placement of the SWM facilities. The increased infiltration may help to mitigate some potential groundwater level decline issues but may also contribute to water quality deterioration in nearby shallow private wells.

The protection and mitigation of any remaining private wells (a large part of Area 47 is serviced by the Region of Peel water main system) shall be considered.

Phase II work will also assess development implications on existing groundwater users and ground water support of natural heritage features and areas make recommendations, as appropriate, for monitoring of groundwater wells and ground water in general through the construction period and post-construction period, as appropriate.

Should Phase I work identify vulnerable aquifers, assessments must be undertaken to identify how they will be protected and ground water quality maintained or improved.
Note: A procedure for the decommisioning of any existing water wells will be established in the study area.

3.4.2 Proposed Stormwater Management Plan

The proposed Stormwater Management Plan for the Study Area should be prepared to address the following:

a) Stormwater management design criteria for development were identified by the TRCA in hydrology studies including the Humber River Watershed Plan, the Humber River Fisheries Management Plan, the Water Management Guidelines, the Humber River Hydrology Update and the West Humber Subwatershed Study. These studies assumed urban development for the Area 47 lands. Stormwater management design criteria are set out in the West Humber Subwatershed Study; unit target flow rates for the design of stormwater management facilities are set out in the Humber River Hydrology Update.

b) Evaluation of alternative SWM practices including lot level, conveyance and end-of pipe solutions to recommend practices to be incorporated into development plans to minimize the overall volume of runoff generated from the Site via evapotranspiration or reuse. This is consistent with the recommendations of the Humber River Watershed and the soon to be released TRCA Water Management Guidelines.

c) Conceptual major and minor system design identifying drainage areas contributing to each SWM facility and external drainage areas.

d) Calculation of water balance components for post development conditions, reflecting the preliminary development concept provided by the planners for impact analyses. This will include the identification of stormwater management measures to be incorporated in the development concept to ensure the maintenance of the existing infiltration rate determined through Phase I water balance investigations and TRCA's recharge estimate for the area as determined through modeling initiatives. Seasonal water balance calculations may be completed for any hydrologically sensitive areas identified in the Phase I study, e.g. wetland water balance analysis will be completed to determine the requirements for infiltration and stormwater management for developing areas within wetland catchment areas, as necessary.

e) Complete Study Area hydrology modeling reflecting land uses in the preliminary development concept to identify preliminary facility sizing to meet target peak flows. This exercise should utilize SWMHYMO or Visual OTTHYMO2 modeling using the AES design storms as set out in the Humber River Hydrology Update.

f) Complete preliminary design of SWM practices, identifying the location, type, function and preliminary sizing of recommended measures including (in addition to end of pipe wetland and pond facilities) source control and conveyance measures as well as outfall locations to watercourses. This will include plans for each SWM facility presenting preliminary facility grading, side slopes, inlet and outlet locations and inverts, maintenance access,sediment drying areas and preliminary road grades to identify/demonstrate appropriate SWM block sizes. The City's urban design objectives to promote SWM facilities as "green " features in the community (in or adjacent to open space and with frontage on surrounding roads) should be addressed when locating SWM facilities in Area 47.

A continuous hydrological modelling assessment will be performed to assess the potential

impact of development on erosion in receiving water courses, and appropriate stormwater management measures will be developed to mitigate these impacts and confirmed with the continuous model.

Note: The criteria for location of stormwater management facilities will include geologic considerations as confirmed by a geotechnical borehole at the location of any potential stormwater management pond.

g) A continuous hydrological modelling assessment to assess the potential impacts of proposed Area 47 development on erosion in receiving water courses complete with the development of the appropriate storm water management measures to mitigate these impacts and confirmation with the continuous model.

Proposals should also address the principles established in the City of Brampton's Development Design Guidelines, Subdivision Design Manual and Subdivision Design Standards and minimize future maintenance requirements of Stormwater management facilities, where possible and provide preliminary details for source control and conveyance measures including the type, size and location of the proposed measures.

3.4.3 Input to Infrastructure Servicing Study and Transportation Study

The Infrastructure Servicing Study and Transportation Study terms of reference have been prepared for Area 47 to identify transportation, sanitary sewer and water servicing requirements in support of a Secondary Plan for the Area 47 Community. This will include the identification of existing infrastructure capacities, design criteria and flows, and proposed infrastructure needs. The preparation and finalization of the Infrastructure Servicing Study and MESP shall be iterative, wherein the MESP will assist the Infrastructure Servicing Study by defining opportunities for crossings of the natural features for servicing and transportation purposes, and by subsequently reviewing, assessing and identifying compensation and/or mitigative measures for these crossings.

The MESP Phase II work will include review and provide input to these studies with regard to assessment of:

Municipal services crossing locations of tributaries in the Study Area –
Based on input from the municipal servicing study, review servicing crossing alternative locations from terrestrial and aquatic resource perspectives and make recommendations on preferred locations and construction methodologies to ensure minimal impacts to valleys and watercourses;

Road crossing locations of tributaries in the Study Area –
Based on input from the transportation consultant on the need for road crossings of valleys, assess alternative road crossing locations from valley configuration, aquatic resources, terrestrial flora and fauna, hydrology, hydraulics and fluvial geomorphologic perspectives. Based on this analysis, recommendations will be made on road crossing locations and construction methodologies to minimize impacts to valleys and watercourses.

These assessments should include road crossing design based on analysis of floodplain hydraulics, fluvial geomorphology, wildlife passage and aquatic conditions, as well as pedestrian pathways, as feasible (and identified in Sec. 5.2.1.3). Reference should be made to the *TRCA Planning and Development Procedure Manual and* TRCA will be consulted to determine Authority objectives for the valley and stream corridors potentially subject to transportation crossings, and these will be recorded to be incorporated at the crossing design stage.

Note: Consideration will be given to minimizing the transportation crossings of watercourses in general with focus on elimination of crossings over sensitive watercourses, as feasible.

Servicing implications to groundwater –
Based on an understanding of groundwater levels and preliminary servicing routes and profiles, assess whether servicing will affect groundwater levels; if so, measures shall be identified to be incorporated in construction practices to minimize impacts to groundwater.
Note: Consideration will be given to reducing the total number of crossings of water courses with specific focus on minimizing or eliminating crossings of sensitive water courses, as feasible.

3.4.4 Recommended Management Strategies

The study will summarize/consolidate recommendations from all discipline-specific investigations. It will include discussion of the proposed natural heritage system, limits of development, permitted uses and proposed modifications to the natural heritage system, stormwater management, short and long-term monitoring strategies based on the principles of Adaptive Environmental Management, trail planning, municipal servicing implications, restoration/enhancement opportunities and any other mitigative measures recommended. This summary should include discussion on how the recommended strategies meet requirements set out in the PPS, Regional and Local Official Plans, TRCA watershed-environmental studies and strategies, and any other applicable documents.

3.4.5 Implementation Strategy

An Implementation Strategy must be prepared to identify implementation considerations and responsibilities associated with various MESP recommendations. This includes the identification of:

- how the MESP recommendations will be implemented through secondary plan policies; and,
- study requirements for subsequent stages of the development process, e.g. Block Plans.

3.4.5.1 Input to Secondary Plan Policies

This portion of the Phase II MESP study will summarize MESP recommendations that should be reflected in secondary plan policies. This should address recommendations relating to the protection, management, restoration, enhancement and linkage of the Natural Heritage System, groundwater recharge/discharge,groundwater wells, stormwater management and future study needs, including input to secondary plan schedules, as appropriate.

3.4.5.2 Identification of Future Study Requirements

Following approval of the Secondary Plan, Block Plan areas, draft plans of subdivision and supporting environmental and engineering studies must be prepared reflecting recommendations of the MESP. The MESP will identify study requirements in support of the Block Plan and draft plans of subdivision for both participating and non-participating owners.

3.5 STUDY MANAGEMENT

3.5.1 Financing

Payment of consultant's invoices will be subject to a 45-day term. A maximum of 75% of the study cost will be paid as work progresses, with the balance paid upon approval of the final study and receipt of the final study report by the Steering Committee.

3.5.2 Steering Committee

The Terms of Reference will be administered by a Steering Committee comprised of Councilors, staff from the City of Brampton and representatives from the landowners group and may include staff from the Region of Peel, the Toronto Region Conservation Authority, the Town of Caledon and the City of Vaughan.

The work program to be submitted by the consultant will be subject to final review and adjustment by the Steering Committee during the start up meeting. The consultant selected to undertake this work will meet with and receive direction from the Steering Committee at key stages of the study. A Technical Sub-Committee may be formed, if deemed necessary, to provide input on detailed technical analyses to be completed as part of the MESP. The City, in consultation with the Steering Committee, will issue final approval for key components of the study.

3.5.3 Study Coordination and Timing

The City will retain a consultant or team of consultants with significant experience in the fields of fisheries, wetland ecology, terrestrial biology, fluvial geomorphology, hydrology, hydrogeology and stormwater management.

City staff time will be concentrated in the area of project management, co-ordination of responses to consultant requests and assisting to gather the required statistical information for the consultant when required.

A minimum of five Steering Committee meetings are scheduled throughout the MESP study process as follows:

- Steering Committee Meeting #1 – Start-Up Meeting to discuss study terms of reference, schedule, 2005/2006 environmental inventories, Phase I MESP Report;

- Steering Committee Meeting #2 – Presentation and discussion of Phase I Report; receipt of agency comments

- Steering Committee Meeting #3 – Presentation of analyses and recommendations regarding environmental impact analyses, SWM Plan and municipal servicing strategy; circulation of draft Phase II report

- Steering Committee Meeting #4 – Receipt and Discussion of Agency comments on environmental impact analyses, SWM Plan and input to municipal servicing and transportation studies and Phase II Report

- Steering Committee Meeting #5 – Presentation of MESP Phase II Report

In collaboration with City staff, the consultant is expected to make presentations as may be required and facilitate discussions at any of the required meetings. Consultants may be required to attend informal open houses and statutory public meetings at the request of the City. Interim reports and

discussion materials shall be prepared and made available by the consultant to the Steering Committee prior to each of these meetings.

It is expected that the study shall be completed within twelve (12) months from the day the selected consultant is authorized to proceed.

3.5.4 Consultant Deliverables

The consultant is expected to meet with the City of Brampton Planning, Design and Development staff as part of the initial Steering Committee meeting prior to starting the study to obtain instructions, standards and guidelines to be followed during the course of this study.

The consultant shall submit draft and final reports consisting of the following:

- An executive summary;
- A description of the report methodology;
- An explanation of the various assumptions, considerations, alternative servicing strategies, evaluation criteria and overall assessment that lead to the conclusions and recommendations of the study;
- All relevant maps and tables as required to illustrate data, analytical findings; and,
- Recommendations respecting all the key issues identified in the Terms of Reference.

The consultant shall provide fifteen (15) copies of the draft report as required for review by the Steering Committee and fifteen (15) copies of the final report to the City of Brampton. In addition, the consultant shall provide a digital copy of the final report in Microsoft Word and PDF format including all figures and drawings. All mapping and related data must be submitted in a compatible Geographic Information Systems (GIS) format. Preferred formats include Environmental Systems Research Institute (ESRI) ArcView shapefiles and Microsoft Access geo-databases. The City of Brampton (referred to hereafter as The City) uses the following map projections:

1. All mapping shall be compiled using the 6-degree Universal Transverse Mercator Projection Northern Hemisphere Zone 17 expressed in meters. The datum to be used for this contract must be North American Datum, 1983. A City of Brampton 2nd Order Horizontal Control network based on this projection & Datum is available and all mapping shall be tied into it.

2. The vertical datum to be used in the mapping shall be mean sea level as Bench Marks established by the North American Datum, 1927 with the 1978 Southern Ontario Adjustment. A City of Brampton 2nd Order Vertical Control network based on this Datum is available and any DEM shall be based on this.

All submitted map data must conform to a pre-approved data model / layer (level) structure as provided by The City, or be developed in conjunction with the Vendor. Similarly, a metadata document will also be provided by The City or developed in conjunction with the Vendor. Any modifications to the above noted items must be reviewed and approved by The City's Planning, Design and Development Department.

The City will provide the base mapping and related data as required for the project. The specific mapping and data layers to be provided will be decided upon in discussions with the Vendor and City staff. The Vendor will be expected to use this base mapping as the foundation upon which the

applicable project mapping and data will be created. Prior to receiving this data the Vendor must sign and return The City of Brampton End User License Agreement document to the GIS Services Section of the Information Technology Division. This agreement will govern the use of any base data provided by The City.

Data must be submitted on CD or DVD media. Any questions regarding GIS Standards and required documentation can be addressed to The City's Planning, Design and Development Department, Business Services Section. All materials submitted become the property of the City of Brampton.

3.5.5 Background Information

The consultant shall be responsible for obtaining for their use all recently completed background information including innovative approaches related to servicing, stormwater management and the environment. City staff will assist the consultant in providing available information and in assembling, upon request, copies of all relevant studies in the City's possession.

APPENDIX N:

CORRESPONDENCE WITH THE MINISTRY OF NATURAL RESOURCES AND FORESTS

Ministry of Natural Resources
Aurora District Office
50 Bloomington Road
Aurora, Ontario L4G 0L8

Ministère des Richesses naturelles

Telephone: (905) 713-7368
Facsimile: (905) 713-7360

Ontario

Sent by email: Malik.Majeed@brampton.ca

November 21, 2013

Malik Majeed,
Policy Planner, Planning Design and Development Department
City of Brampton
2 Wellington Street West
Brampton, ON L6Y 4R2

Dear Malik Majeed:

Subject: Block 47 Master Environmental Servicing Plan
City of Brampton, Regional Municipality of Peel

The Ministry of Natural Resources (MNR) has reviewed the May 2013 Draft Report: Master Environmental Servicing Plan: Highway 27 Industrial Secondary Plan Area ("Area 47") hereafter referred to as "Block 47 MESP". Our review is based primarily on impacts to threatened and endangered species under the Endangered Species Act, 2007. We provide the following comments:

MNR recommends that additional Bobolink and Eastern Meadowlark surveys be completed in subsequent years within all areas of the subject land that offer suitable habitat for either species at that point in time (to account for annual crop rotation). Any area that had been previously surveyed following approved MNR survey protocols (see attachment) will not need to be re-surveyed for these two species. It is recommended that targeted Bobolink and Eastern Meadowlark surveys adhere to MNR's Draft Bobolink Survey Protocol titled "Survey Methodology under the Endangered Species Act, 2007- Dolichonyx oryzivorus (Bobolink). The MESP only discusses the 2012 surveys that were completed as a follow-up to a 2007 study and may not reflect the total area of habitat that may become available as part of the annual crop rotations.

MNR will require an estimate of the total area that is considered to be habitat for Bobolink and Eastern Meadowlark, once all appropriate field surveys have been completed.

MNR will require more information on any species at risk recorded on the subject lands so that this information can be incorporated into the Aurora District species at risk (SAR) database (species name, observation date, observer name(s), biological details, habitat description, search effort, UTM coordinates). All field survey data should be submitted to this office.

The Block 47 MESP noted that botanical surveys were not competed in some areas because the consultants were denied permission to enter certain properties. These areas will need to be surveyed for SAR prior to any development plans. It is recommended that these areas be

surveyed during the next field season to avoid potential for delays in obtaining future planning approvals.

The MESP does not appear to provide any consideration for SAR habitat with respect to the section 2.1.3 of the Provincial Policy Statement as it relates to Threatened and /or Endangered species (Bobolink, Eastern Meadowlark and Barn Swallow). As a first principle, opportunities to maintain habitat for these species within the Block 47 lands are to be considered.

Groundwater inputs to the watercourses should be quantified in terms of the Redside Dace habitat / contributing habitat requirements. The report only notes TRCA targets for Level 1 protection of 80% sediment removal and does not consider the higher standards recommended in MNR's "Guidance for Development in Redside Dace Protected Habitat." This will be important to consider for SWM Ponds discharging to Rainbow Creek.

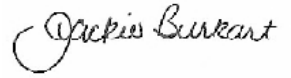
Limited discussion was provided on thermal objectives of the stormwater management (SWM) pond designs. The report recommends designing pond outfalls to minimize thermal impacts on the receiving stream, but does not go into any further detail on what this might include (e.g., bottom-draw outlets, cooling trenches, depths of ponds). While it is recognized that this is a conceptual plan at this point, some high level assessment should be carried out to determine if such measures are feasible.

The MESP recommends that no development/site alterations occur within the regulated habitat for Redside Dace around the main branch of the West Humber River. MNR is pleased to see that this area is also identified as a suitable location for future restoration works (vegetation planting).

Please note that the legislative provisions under the Endangered Species Act, 2007 may be subject to change, as new species are continuously being updated and species habitat may become "regulated". It is for this reason that open communication with MNR is strongly encouraged throughout the review process.

Should you have any questions regarding these comments please do not hesitate to contact me at 905-713-7368.

Sincerely,



Jackie Burkart
District Planner

1 attachment – Bobolink Survey Protocol

Copy: Michael Hoy, Planner, City of Brampton - Michael.Hoy@brampton.ca
David Denyes, Species at Risk Biologist – MNR Aurora
Mark Heaton, Area Biologist – MNR Aurora