

The McTurk Property

1046 Heney Lake Road, Muskoka River

Planting plan created by The District Municipality of Muskoka

Survey Date: 07/27/2020

Funded by •





Schedule A:

Plants & Property

Land Characteristics

This planting plan is designed based on the land characteristics identified during the day of the site visit. Plants are chosen according to the soil and light conditions on your property. The number of plants chosen for each planting compartment takes into account the square metre area of the space, as well as the amount of current vegetation cover. **Your property is part of ecoZone: 4b**

Land Characteristics by Compartment

	Length	Width	Area	pH	Soil	Moisture	Light	Height
A	5.7m	5m	28.5m ²	acidic	sandy	normal, moist	partial sun	
B	8.2m	8.9m	73m ²	acidic	sandy	normal	partial sun	
C	9.2m	2m	18.4m ²	acidic	sandy	normal, moist, wet	full sun, partial sun	
D	13.3m	2m	26.6m ²	acidic	sandy	moist, wet	full sun, partial sun	
	36.4m	4.48m	146.5m ²					

Plant Selection Summary

The following shrubs and trees are chosen for their suitability and survivability given the current soil and light conditions in each compartment on your property, as well as preferable features.

Plant Species	A	B	C	D	Potted	Bareroot	Wildflower
Black Cherry	1				1		
Ninebark	2	4			6		
Witch Hazel	1	1			2		
Narrow Leaved Meadowsweet	3	4	4	5	16		
Shrubby St. John's wort	5				5		
Bush Honeysuckle	4	3			7		
Gray Dogwood	1	1			2		
Black Chokeberry	2	2			4		
Ostrich Fern	9						9
Oswego Tea (Red Bergamot)	10						10
Yellow Birch		1		1	2		
Fragrant Sumac		4			4		
Red Osier Dogwood		2			2		
Sweet Fern		2			2		
Swamp Rose		1	1		2		
Canadian Serviceberry		1			1		
Pussy Willow		1	1		2		
Chokecherry		2			2		
Black Spruce		1			1		
Christmas Fern		3					3

Cinnamon Fern	9			9			
Sensitive Fern	6				6		
Sweet Gale	4		2	6			
Steeplebush	4		3	7			
Eastern White Cedar	1			1			
Blue Flag Iris	3				3		
Marsh Marigold	3			3			
Blue Vervain	3				3		
Swamp Milkweed	3			3			
White Turtlehead	3				3		
Royal Fern	6			6			
Shining Willow			1	1			
Buttonbush	2			2			
Silky Dogwood			1	1			
Spotted Joe-Pye Weed	5			5			
Subtotal	38	48	36	20	79	0	63
Totals	142						

Plant Information

The following table summarizes key information about each plant selected for your property.



Black Cherry

Height: 20-30m

The Black Cherry is a medium-sized deciduous tree typically 20-30m in height and can tolerate a wide variety of light, soil and moisture conditions. This species is native to North America. The Black Cherry is commonly found in mixed, broad-leaved forests. This cherry species produces a slender trunk and a narrow, irregular crown with arching branches and drooping tips. Leaves are simple and grow alternately along the branch. Small, white flower clusters appear in May and turn to reddish cherries during early summer and ripen by late August. These cherries provide a food source for songbirds and small mammals. Black Cherry Roots are shallow and wide-spreading.



Ninebark

Height: 2-3m

The Common Ninebark is a very hardy, large (2-3m in height), deciduous shrub naturally occurring within riparian zones. This species is often planted as an ornamental shrub for its exfoliating bark which reveals reddish-light brown inner bark. This shrub is multi-stemmed with numerous horizontal and ascending branches creating a full, round shape. The Common Ninebark produces dull green, ovate to round shaped leaves with three to five lobes per leaf. During the fall the leaves turn brilliant yellow or dark purple. Between May and June, showy, bell-shaped flowers bloom in clusters on the terminal ends of the branches. During the summer, these flowers give way to small green or green-yellow berries which turn a bright red upon ripening.



Witch Hazel

Height: 4-9m

The Witch Hazel is a deciduous understory shrub, with a broad and rounded crown which typically grows 5-9m. This species can sometimes take on the form of a tree. Witch Hazel is most recognizable for its 2 cm long, spidery, bright yellow flowers, which bloom during late fall. Leaves produced are alternate, simple, 6-15 cm in length, and obovately shaped. These leaves are dark green on top with paler undersides and turn yellow during the autumn. Witch Hazel leaves produce hairs on their principal veins, are asymmetrical at their base, scalloped, and sometimes coarsely toothed. In addition, the leaves contain 5-7 straight, parallel, ascending veins per side. The twigs are slender, zigzagged, tawny, and smooth when mature. Witch Hazel fruiting bodies are short, thick, light brown capsules that become woody upon maturation. This species is typically multi-stemmed with two or more trunks, which are crooked and 10-15 cm in diameter.



Narrow Leaved Meadowsweet

Height: 1-2m

The Narrow Leaved Meadowsweet is an erect, deciduous shrub, which grows in the shape of a mound to a height of 1-2m. This species develops numerous branches and branchlets, giving it a sparse appearance. Leaves produced are simple and narrow with sharply toothed borders growing alternately along the branches. These bright, light green leaves appear crowded, as they grow close together on the stocks and branches. During the fall, leaves turn a yellow-red or yellow-orange colour. Small white to light pink flower clusters appear in the spring growing in a dense, narrow pyramid at the terminal ends of the branches. During late summer to early fall, these flowers produce smooth, papery seed pods.



Shrubby St. John's wort

Height: 1 m

The Shrubby St. John's Wort is a small 1m tall, round, deciduous shrub which grows stiff, erect branches with red to purple bark. Leaves produced are blue-green, simple, elliptical-shaped, 3-7 cm long and oppositely arranged along the branch. During the fall, the leaves turn a deep red colour. This species yields large bright yellow flowers which grow in clusters of at the terminal end of branches during late June to August. By September, the flowers become brown seed pods and release small black seeds throughout October. Shrubby St. John's Wort produces fibrous, spreading roots, making it an ideal species for bank stabilization applications.



Bush Honeysuckle

Height: 1m

The Bush Honeysuckle is a small, hardy, deciduous shrub that rarely grows taller than 1 m in height. The leaves are simple, oppositely arranged, ovate shaped, and have finely toothed margins. During the spring and summer, the leaves are dark green in colour, then in the fall they take on a variety of colours ranging from a deep purple to light yellow. The flowers are small, showy, yellow to orange colored, trumpet shaped, appear in clusters on the tips of branches, and bloom between June and July. The flowers are beneficial to pollinator species, including hummingbirds and butterflies. The roots of the Bush Honeysuckle are fibrous, giving it the ability to form thickets and making it an ideal shrub to plant for erosion control.



Gray Dogwood

Height: 2-3m

The Gray Dogwood, also referred to as Northern Swamp Dogwood or Panicle Dogwood, is a medium-sized, deciduous shrub which typically grows 2-3m. This species is multi-stemmed, with a full, round form. The leaves are green and arranged alternately along the branches. During the fall, leaves turn a bright red to deep purple colour. Between May and June, showy clusters of small white flowers bloom. These flowers turn into white fleshy berries late in the summer. The reddish-pink stems hold the berries throughout the winter, creating an artful contrast to the gray bark and snowy scenery. The Gray Dogwood is tolerant of a variety of environmental conditions and its complex, fibrous root system make it an ideal plant to use for controlling erosion.



Black Chokeberry

Height: 1-3m

The Black Chokeberry is a medium sized deciduous shrub that typically grows between 1-3m with edible fruit. This species requires full sun to partial shade and can tolerate soil conditions from loamy and moist to rocky and dry. Naturally, Black Chokeberry is found in wet wooded areas such as; swamps, along shorelines, and within forest understory. This species is multi-stemmed, and forms thickets from stems which arise from the roots. Leaves are simple, growing alternately along the branch turning a bold red to orange during the fall. During spring, clusters of showy, white flowers appear turning into dark purple berries by fall. This species is resistant to drought, insects, pollution, and disease. The Black Chokeberry is often cultivated as an ornamental plant and food product. Additionally, this species is useful for bank stabilization and erosion control applications.



Ostrich Fern

Height: 1.5 m

The Ostrich Fern is a coarse, erect to arching perennial fern, that can grow up to 1.5 m in height. The stems are clustered and arching while the leaves are ostrich-plume shaped, widest near top, and very gradually narrowed to the base. The size of the leaves grow up to 1.5 m long and 12-40 cm wide, with around 40 pairs of leaflets or pinnae. The leaflets are long, narrow-pointed, and ascending. The leaves are fertile, with spore clusters on the undersides of sub-leaflets.



Oswego Tea (Red Bergamot)

Height: 50 cm

Oswego Tea is a showy perennial wildflower species that typically grows about 50 cm in height. This plant may also be known by the common names Red Bergamot or Scarlet Beebalm. The leaves are dark green, oval shaped, have a minty fragrance. The unique flowers are bright red and grow in dense rounded clusters, with individual tubular flowers that bloom between May and October. The beautiful flowers of Oswego Tea attract various pollinator species like hummingbirds, butterflies, and bees. The Oswego Tea plant is susceptible to a common fungal disease, called powdery mildew, when planted in dry soils. Historically, the leaves of the plant have been used for antiseptic purposes, as well as poultices to heal minor wounds and skin infections.



Yellow Birch

Height: 25 m

Yellow Birch is a native deciduous tree species that can grow up to 25 m in height. The bark is thin, flaky, shiny, and can be brownish-yellow, bronze, or silvery colored. The leaves are deep greenish-yellow, simple, alternately arranged, oval shaped, have doubly serrated edges, and are about 8-11 cm long. This tree species produces catkins in April-May, which are slim, cylinder shaped, yellowish brown flower clusters. In the Fall, seed pods are produced that are brown colored, cone shaped, and break apart easily. Yellow Birch is a slow growing tree but can live up to 150 years. This tree species is beneficial to wildlife species like birds and mammals.



Fragrant Sumac

Height: 1-2m

The Fragrant Sumac is a medium-sized deciduous shrub within the Cashew family. This species grows between 1-2 meters in height, is multi-stemmed, and produces a round, dense crown composed of erect and spreading branches. Between March and April, small yellow flower clusters bloom on the terminal ends of the branches prior to leaf development. Fruit development begins during late summer. Small, red, hairy berries are produced and can remain on the plant throughout the winter. Male catkins develop on the plant in September. Fragrant Sumac leaves are simple and arranged alternately along the branch. Leaves produced are simple and trifoliate with a large center lobe, appearing similar to Poison Ivy. During the spring and summer, the leaves are light green to green-yellow in colour turning a bright yellow to red or dark purple in autumn. Crushed leaves and stems of the Fragrant Sumac produce a fragrant citrus aroma, hence the common name. The aroma of this shrub is attractive to butterfly species, making it the perfect addition to any butterfly garden. The roots of the Fragrant Sumac are shallow, fibrous, and spread rapidly, making it an ideal choice for stabilizing shorelines and mitigating erosion on steep slopes. Unlike other Sumac species, Fragrant Sumac is significantly less aggressive and easily maintained.



Red Osier Dogwood

Height: 1.5-4m

The Red Osier Dogwood is a medium-sized, deciduous shrub native throughout Northern and Western North America which typically grows to 1.5-4m. This species is multi-stemmed with numerous erect and ascending bright red branches that create a loose and spreading form. Leaves produced are simple, two-toned with a dark green upper side and light green underside. They are arranged opposite each other along the branches. During the fall, the foliage turns a brilliant red to dark purple. Clusters of small, creamy white flowers form on the terminal ends of the branches between June and July. The Red Osier Dogwood produces blueish-white fruiting bodies during late summer, which may persist throughout the winter. This shrub's berries provide an important winter food source for numerous species, from large deer to small wintering birds.



Sweet Fern

Height: 1 m

Sweet Fern is a deciduous shrub species that typically grows 1 m in height. The leaves are dark green coloured, alternately arranged, narrow, lance shaped, have entire margins, rounded lobes, and are deeply notched, giving the appearance of a fern. The leaves are also aromatic when rubbed or crushed. The flowers are small, yellowish green catkins, which bloom between May and June. The fruits are greenish brown, burr like nutlets. This plant fixes its own nitrogen, which allows it to grow in poor soil and benefit nearby plants. This plant spreads well to produce small colonies. It is useful for controlling erosion and stabilizing shorelines.



Swamp Rose

Height: 2m

The Swamp Rose is a beautiful perennial shrub species that typically grows 2m in height and spreads 2m. It is visually appealing with large pink flowers that last about 6-8 weeks. These flowers have five pink petals, a yellow center, and a pleasant fragrance. This species produces oblong shaped, compound leaves comprised of seven leaflets with serrated edges. The Swamp Rose produces red, round, fleshy fruit called rose hips, which remain on the bush throughout winter. These fruiting bodies provide a winter food source for wildlife, such as Grouse, Black Bears, Deer, and Rabbits. Swamp Rose may be confused with Prickly Wild Rose, which has a similar appearance. However, Swamp Rose can easily be distinguished by the presence of curved thorns, which appear at the nodes of the twigs without any occurring between the nodes. Swamp Rose grows best in moist, rich soils such as swamps and marshy shorelines. However, this species can also tolerate drier, loamy soils.



Canadian Serviceberry

Height: 3-5 m

The Canadian Serviceberry is a multi-stemmed shrub or small tree which grows from 3-5 m in a dense round form. This plant may also be known by the common names: Juneberry, Shadblow, or Shadbush. Early in the spring, prior to leaf development, clusters of fragrant, showy white flowers bloom along the branches. By July, these flowers give way to the fruiting bodies. The fruits are initially small, green berries, which grow to the size of blueberries and turn a deep purple-blue upon maturation during the fall. Leaves produced are finely toothed and spear-shaped. Throughout the summer, leaves are dark green and turn a dramatic orange-red during the fall.



Pussy Willow

Height: 6m

The Pussy Willow is a fast growing, deciduous shrub or small tree found reaching heights of 6m, and is from British Columbia to Newfoundland. This species grows from shoots extending from the base of the trunk, creating a multi-stemmed, tall, round bush. The Pussy Willow is an ideal species for bank stabilization and erosion control due to its large, fibrous root system and love of water. This species branches extend from the main shoots and are usually hairy and reddish-brown in colour. The main shoots of Pussy Willow are smooth and greyish-brown, becoming scaly with age. It produces simple, narrow, lance-shaped leaves alternately arranged along the branch. The Pussy Willow yields purple-brown fuzzy catkins which will form long-beaked and finely haired capsules during May and June.



Chokecherry

Height: 6-9 m

The Chokecherry is a large deciduous shrub or small tree which grows between 6 and 9 m tall and is a member of the Rose family. It produces a twisted or crooked trunk as well as a narrow, oval to round crown composed of many slender branches. Leaves are alternately arranged, simple, have a deep green upper surface, and light matte green undersides with tufts of hair at the vein axils. During the fall, foliage turns a vibrant deep red to fire yellow or orange. Between May and June, small showy white flowers grow in cylindrical clusters on the terminal ends of branches. By mid-August, flowers turn into shiny deep red or black cherries, which hang in elongated clusters. The fruit is ripe by September and provides a food source for birds and small mammals. The Chokecherry is often found as pure stands forming thickets, or mixed with other early succession shrub and tree species. This fast-growing plant can quickly invade logged land, abandoned farms, and exposed shorelines. The fibrous and wide-spreading root system of this shrub make it an ideal plant for erosion control and bank stabilization. This species possesses the ability to withstand moderate flooding and drought.



Black Spruce

Height: 20-30 m

The Black Spruce varies in size depending on soil conditions. On poorly drained sites, the trees are typically grow smaller and slower, up to 20m high and 30cm in trunk diameter. However, on well-drained upland sites, these trees can grow up to 30 m high and 60 cm in trunk diameter. The branches of the Black Spruce are comparatively shorter than other spruce species, and lower branches can appear extremely weighted and droopy. The crown of the tree is often very dense, and oddly shaped with many cones. The needles are short, single, and straight with blunt points, ranging from 8-15 mm in length. They are a dull grayish-green colour with lines of white spots on the under surface of the needle. Seed cones are broadly ovoid and egg shaped, 2-3 cm in length, and have a dark purplish-brown colour. The scales are brittle and tight fitting with an irregularly toothed margin. The cones mature around September and can remain on the tree for up to 30 years, gradually releasing seeds in normal conditions, while quickly releasing seeds following traumatic events, like forest fires. Open cones are almost spherical, brittle and toothed. The bark is reddish or grayish brown in colour when young, becoming darker, and boasting more prominent scales with age.



Christmas Fern

Height: 0.5 m

The Christmas Fern is a hardy evergreen fern which can withstand a variety of environmental conditions. It is one of the most common ferns within North America. This species produces robust, leathery, lace-like leaves which grow in a fountain like clump and persist throughout the winter. Silvery and scaled fiddleheads emerge early in the spring. This fern rarely exceeds heights of half a meter and is a popular fern species to utilize in landscaping due to its year-round colour. This fern is often planted for restoration applications due to its ability to conserve soil and control erosion.



Cinnamon Fern

Height: 1 m

Cinnamon Fern is a perennial fern species that typically grows less than 1 m in height. Fiddleheads appear from the base of the plant and unfurl into large, green, arching, pinnately compound leaves. Erect, spore-bearing fronds appear out of the center of the leaves in the early spring and quickly turn a cinnamon brown color.



Sensitive Fern

Height: 1 m

Sensitive Fern is a perennial fern species that typically grows less than 1 m in height. The leaves of this fern are light green, narrow, spaced out, have descending lower leaflets, and ascending upper leaflets. Erect, spore-bearing fronds appear out of the center of the leaves in the early spring and turn brown in the late summer. The fronds of this fern have a woody, segmented bead appearance.



Sweet Gale

Height: 1-2m

Sweet Gale is a medium-sized shrub which grows into a thick bush about 1-2 m tall. This species produces 1-8 cm long, oblong-lanceolate leaves which are finely toothed at the tip and are spirally arranged. When bruised, these leaves give off a pleasant aroma. Male and female catkins are produced on separate plants. The seeds are dispersed from the female plants via water, as they float on two corky bracts. This shrub also provides a good food source for bird species that eat the seeds including Grouse, Chickadees, and Bluebirds. Mammal species like Beavers and White-Tailed Deer also browse on the twigs and leaves of this plant.



Steeplebush

Height: 1 m

The Steeplebush is a deciduous shrub species that typically grows about 1 m in height. This plant may also be known by the common names: Rose Spiraea or Hardhack. The leaves are dark green, about 7 cm long, elliptic to ovate shaped, have toothed margins, and have dense yellowish brown hairs on the undersides. The flowers are tiny, rose pink to purplish coloured, bloom in late summer, and appear on tall, dense, steeple shaped clusters. This plant is useful for controlling erosion and stabilizing shorelines. The flowers are also beneficial for pollinator species, like bees and butterflies.



Eastern White Cedar

Height: 15m

Eastern White Cedar is a small evergreen tree which can usually live up to 300 years, although some individuals reaching 700 years old have been found. White Cedar produces unique green, opposite, scale-like leaves, which can take a fan-shaped form. They typically grow 15m in height. The bark is also distinguishable as it is reddish-brown, stringy and flaky, making it easy to peel off into long strips. White Cedars are also prone to heart-rot, leaving many trees with hollow centres. However, dried cedar bark is decay resistant making it a great option for use as fence posts or cedar-strip canoes. In addition, this species was historically used by indigenous people to prevent scurvy, earning the name 'tree of life'.



Blue Flag Iris

Height: 0.5 m

The Blue Flag Iris is a showy perennial wildflower that typically grows about 0.5 m in height. This plant may also be known by the common name Harlequin Blue Flag. The leaves are light green, sword-shaped, slightly arched or erect, and appear growing out as a cluster around the base of the plant. The attractive blue flowers start to bloom in the early spring, emerging from a tall flowering stalk that can reach up to 1 m. The flowers are beneficial to pollinator species, like bees and butterflies. The seeds are also beneficial to wildlife species, like birds and small mammals.



Marsh Marigold

Height: 30-45 cm

Marsh Marigold is an attractive perennial wildflower that grows between 30-45 cm tall. The leaves are mostly basal, heart or round shaped, shiny, dark green in colour, and have toothed margins. The flowers are showy, yellow, buttercup-like, have 5-9 petal like sepals, grow on the ends of hollow stems, and bloom between April and June. The flowers are beneficial to pollinator species, like bees and butterflies. Marsh Marigold is actually not related to the Marigold, but belongs to the Buttercup family.



Blue Vervain

Height: 1.5 m

Blue Vervain is a perennial wildflower species that grows about 1.5 m in height. It has a slender, upright form with reddish-green coloured, rough-haired stems. Its leaves are oppositely arranged, lance-shaped, and on short petioles with large serrations along the edge. Occasionally, there are two lobes present at the base of the leaves. The flowers are showy, blueish purple coloured, have five petals, appear on dense spikes at the top of flowering stems, and bloom between July and September. The flowers bloom first at the bottom of the spike, travelling upwards and blooming in bands. This plant spreads well and can form small colonies. The flowers are beneficial to pollinator species, like bees and butterflies. The seeds are also beneficial to wildlife species, like birds and small mammals.



Swamp Milkweed

Height: 1 m

Swamp Milkweed is a beautiful wildflower species that typically grows about 1 m tall. The leaves are light green coloured, narrow, lance shaped, and oppositely arranged. The flowers are showy, fragrant, bright pink, appear in clusters on flowering stems, and bloom between July and August. The flowers give way to large, long and narrow, brown seed pods, which produce an abundance of seeds with tufts of long, white hairs. The flowers are beneficial to pollinator species, like bees and butterflies. As with all Milkweeds, the stem exudes a milky sap when broken, however the sap of the Swamp Milkweed is less milky than other species. This sap is critical for caterpillars of the endangered Monarch Butterfly to deter predators.



White Turtlehead

Height: 1 m

White Turtlehead is a beautiful wildflower species that can grow up to 1 m in height and spreads about 0.5 m. The leaves are oppositely arranged, dark green coloured, short-stalked, lance-shaped, and have sharply toothed margins. The flowers are whitish pink coloured, shaped like a turtle's head, made of two lips creating a tube, appear in dense spikes at the tip of erect stems, and bloom between August and October. The flowers are beneficial to pollinator species, like bees and butterflies.



Royal Fern

Height: 1 m

Royal Fern is a perennial fern species that typically grows less than 1 m in height. This plant may also be known by the common name Flowering Fern. Fiddleheads appear from the base of the plant and unfurl into green, arching, pinnately compound leaves. The leaves of this fern are well separated, broader, and more rounded than other ferns, giving it the appearance of a pea plant. Erect, spore-bearing fronds grow out of the center of the leaves in the early spring and turn brown in the fall. The fronds of this fern have a flower like appearance.



Shining Willow

Height: 10m

The Shining Willow is a relatively large deciduous shrub, which grows up to 10 m in height. The shiny leaves are 5-11 cm long and 1-5 cm wide, which are what give this Willow its name. They are lance shaped, with dark green color on the top, and light green on the bottom. Flowers bloom from May to June and range in colour from yellow to a green/brown.



Buttonbush

Height: 2 m

Buttonbush is a small to medium-sized deciduous shrub species which typically grows about 2 m in height. This plant may also be known by the common name Button Willow. Twigs are slender to stout and dark red-brown in colour with white speckling. The leaves are bright green coloured, shiny, ovate shaped, oppositely arranged, and have entire margins. The flowers are tiny, tubular, white, fragrant, and appear densely on distinctive, spherical clusters in June. These flowers turn into a dense cluster of seeds, which remain on the plant throughout the winter. The flowers are beneficial for pollinator species, including hummingbirds and butterflies. This is a hardy, adaptable species and an excellent choice for planting on wet shoreline sites.



Silky Dogwood

Height: 2-4m

The Silky Dogwood is a large, deciduous shrub species native to Eastern North America that reaches a height of 2-4m. This species produces a rounded shape due to its numerous upright branches stemming from a central, multi-stemmed base. Branches which grow touching the ground can develop their own root system, often creating thickets. During the spring and summer, branches are a shiny, light green colour and change to a red colour during the fall and winter. This species produces simple, lance-shaped leaves arranged oppositely along the branches. During the spring and summer, the foliage is a deep green colour and turns dark red-purple during the fall prior to dropping. Small, yellow-white flowers bloom during mid-June, maturing into bright blue berries in September. This species of Dogwood grows best alongside Willow when being planted to mitigate erosion and stabilize shorelines.



Spotted Joe-Pye Weed

Height: 1.5 m

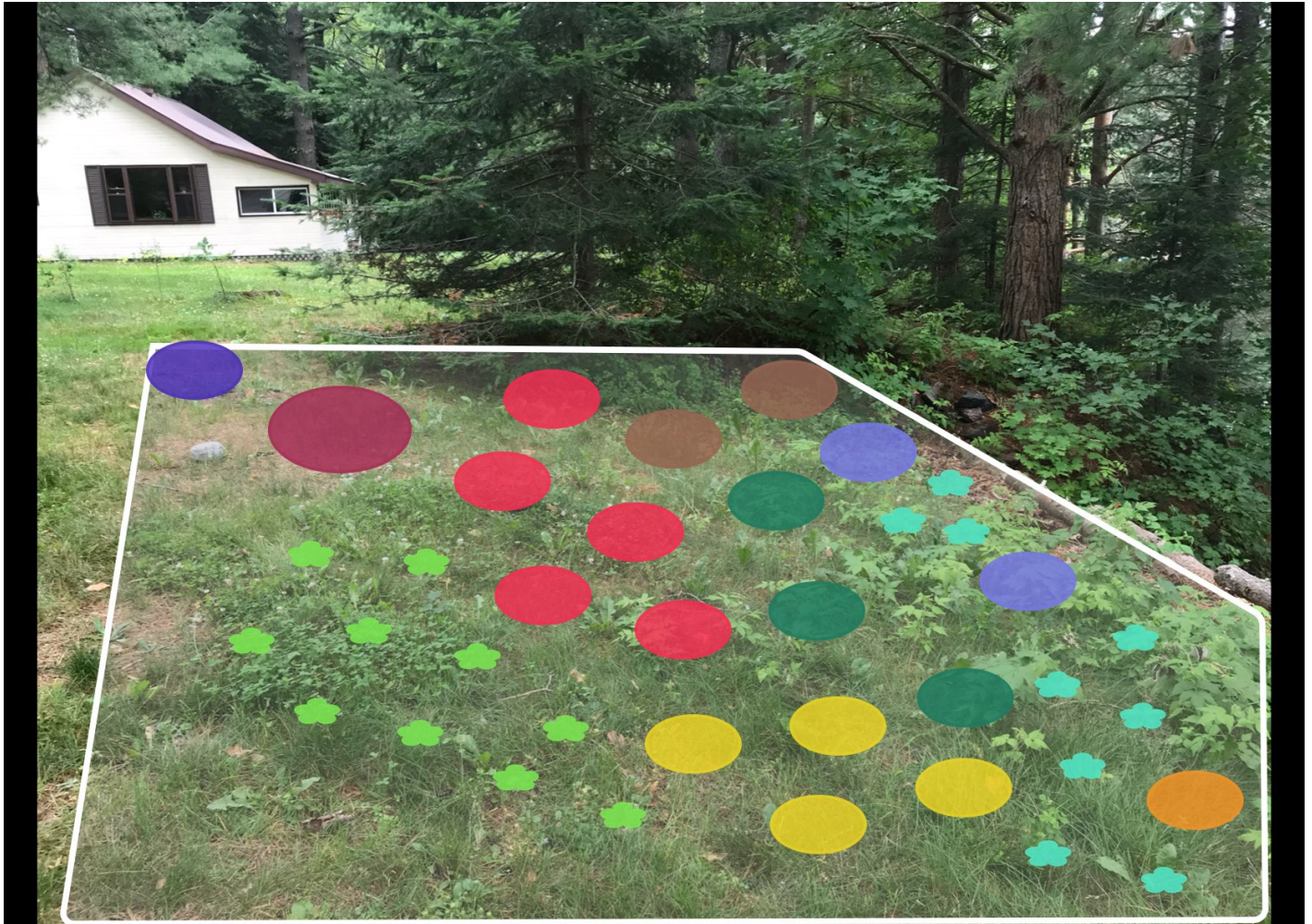
Spotted Joe-Pye Weed is a colourful wildflower species that can grow up to 1.5 m tall and can spread about 1 m. It has a plain or spotted purple stem, which is sometimes covered in fine hairs. The leaves are large, lanceolate shaped, have serrated edges, and appear in whorls of 3-5. The flowers are showy, fragrant, bright pink/purple coloured, have 8-20 disk florets, appear in clusters at the top of a flowering stem, and bloom in mid to late summer. The flowers are beneficial to pollinator species, like bees and butterflies. This plant spreads well and can form small colonies. The roots can be useful for controlling erosion and stabilizing shorelines.

Compartment A

Naturalization Area

Erosion concerns

- ⚖ PH: acidic
- 🌱 DEPTH: potted
- 💧 MOISTURE: normal, moist
- 🌀 SOIL TYPE: sandy
- ☀ LIGHT CONDITIONS: partial sun



Black Cherry

1



Witch Hazel

1



Shrubby St. John's wort

5



Gray Dogwood



Ninebark

2



Narrow Leaved Meadowsweet

3



Bush Honeysuckle

4



Black Chokeberry



1



Ostrich Fern

9

2



Oswego Tea (Red Bergamot)

10

Compartment B

Naturalization Area

Erosion issues

- ⚖️ PH: acidic
- 🌱 DEPTH: potted
- 💧 MOISTURE: normal
- 🌀 SOIL TYPE: sandy
- ☀️ LIGHT CONDITIONS: partial sun



Ninebark

4



Narrow Leaved Meadowsweet

4



Gray Dogwood

1



Yellow Birch



Witch Hazel

1



Bush Honeysuckle

3



Black Chokeberry

2



Fragrant Sumac



1



Red Osier Dogwood

2



Swamp Rose

1



Pussy Willow

1



Black Spruce

1



Cinnamon Fern

9

4



Sweet Fern

2



Canadian Serviceberry

1



Chokecherry

2



Christmas Fern

3



Sensitive Fern


6


Compartment C


Naturalization Area

- ⚖️ PH: acidic
- 🌱 DEPTH: potted
- 💧 MOISTURE: normal, moist, wet
- 🌀 SOIL TYPE: sandy
- ☀️ LIGHT CONDITIONS: full sun, partial sun





 Narrow Leaved Meadowsweet
4


 Pussy Willow
1

 Steeplebush
4

 Blue Flag Iris

 Swamp Rose
1

 Sweet Gale
4

 Eastern White Cedar
1

 Marsh Marigold



3



Blue Vervain

3



White Turtlehead

3

3



Swamp Milkweed

3



Royal Fern


6


Compartment D


Naturalization Area

- ⚖️ PH: acidic
- 🌱 DEPTH: potted
- 💧 MOISTURE: moist, wet
- 🌾 SOIL TYPE: sandy
- ☀️ LIGHT CONDITIONS: full sun, partial sun





 Narrow Leaved Meadowsweet
5


 Sweet Gale
2


 Shining Willow
1

 Silky Dogwood

 Yellow Birch
1

 Steeplebush
3

 Buttonbush
2

 Spotted Joe-Pye Weed



1

5



Schedule B

Financial Summary

Project by: The District Municipality of Muskoka

Shoreline Re-Naturalization Starter Kit includes: free site visit, customized re-naturalization planting plan for your shoreline property, native plants including free bare root (small) and potted (large) plants and wildflowers, coconut fibre pads to deter grass from growing around new plantings, tree guards for all deciduous trees, mulch for your wildflowers, Plant Care Guide with instructions on how to take care of your new plants, Habitat Creation Guide and a Wildflower Garden Guide.

Our planting plans are created onsite with you and provide detailed information and plans to re-naturalize your shoreline property. We take photos of areas for planting and overlay native plants that are well suited to your property based on site conditions such as soil type and sunlight availability.

We will work with you to create a plan that works for you including options for low growing plants in areas where views are important.

Item	Quantity	Cost/Item	Subtotal
Starter Kit fee			\$300
Free potted plants	20	\$0	\$0
Paid potted plants	59	12.00	708.00
Free bareroot plants	0	\$0	\$0
Free wildflowers	30	\$0	\$0
Paid wildflowers	33	6.00	198.00
Total costs			1206.00



Schedule C

Project Agreement

Stewardship Agreement

Please indicate your agreement to this proposed plan by signing the following Stewardship Agreement and submitting it, along with your financial contribution, to:

The District Municipality of Muskoka

70 Pine Street Bracebridge, Ontario P1L 1N3

Plant Availability

Please note that plant species may need to be changed based on plant stock availability at the time of ordering.

Project Completion

Upon receiving your signed stewardship agreement and financial contribution, a date will be booked for you to pick up your Natural Edge Kit. The District Municipality of Muskoka will supply all plants and materials. If you are paying for the planting to be completed for you, a date will be arranged for The District Municipality of Muskoka to plant your shoreline, bringing the plants and materials with them. If there are particular dates that you would prefer, we will do our best to accommodate your requests.

The Natural Edge Stewardship Agreement with The District Municipality of Muskoka

Agreement made this **28th** Day of the Month of **July** in the Year **2020**.

BETWEEN Fraser McTurk 1046 Heney Lake Road Ontario
(Hereinafter called the **OWNERS**)

AND **The District Municipality of Muskoka** 70 Pine Street
Bracebridge, Ontario P1L 1N3 (Hereinafter called **DMM**)

WHEREAS the Owners and DMM have met and discussed plans for shoreline naturalization on the specified area(s) in Schedule A existing on the Owners' land;

WHEREAS the Owners indicate approval of the project as proposed; and

WHEREAS the project is, or will be for the benefit of the Owners and others;

NOW THEREFORE THE PARTIES AGREE AS FOLLOWS:

1. This Agreement shall be in effect for a period of 5 years, commencing with the date of this Agreement.
2. The Owners and DMM agree that the areas where the work is to be performed is as described in Schedule A.
3. The Owners agree to pick up their Natural Edge Starter Kit from DMM's office and plant their shoreline within two days of receipt. The Owners will provide "after" photos of the work completed to be used for reporting purposes. If the Owners wish to have the planting completed for them, then DMM or its contractors, employees and agents will complete the planting at cost, as indicated in Schedule B.
4. If the planting is to be completed by DMM, then the Owners grant DMM, its contractors, employees and agents, the right to enter the property to perform the work agreed upon as outlined in Schedule A. In addition, DMM, its contractors, employees and agents may inspect the work performed for the purposes of monitoring the project and survival assessment, with prior agreement with Owners for date and time of inspection.
5. The Owners agree to contribute the "Landowner contribution" and pay the costs indicated in Schedule B.
6. In instances where the Owners are to pay DMM for work to be performed (outlined in Schedule A), the Owners agree to provide payments to DMM prior to the commencement of that operation. Failure of payment shall constitute a breach of this Agreement and the Owners agree that this Agreement will be terminated and thereupon the Owners agree to pay DMM the estimated costs of the operations of the project completed to date, if any.
7. The Owners agree, if necessary, to perform a reasonable amount of maintenance, which is described in the Native Plant Care Guide, available at naturaledge.watersheds.ca.
8. If a contractor is required to perform the work outlined in Schedule A, then the contractor carrying out the work on the land described will be required to take out and furnish evidence of a comprehensive policy of public liability and property damage coverage. The contractor and their workers will be required to be in good standing with the Workplace Safety and Insurance Board (WSIB) prior to performing the work.
9. The Owners agree not to remove, destroy or alter the project without prior consultation and approval of DMM. Pruning and trimming planted nursery stock, or adding replacement native nursery stock is exempt.
10. The Owners agree not to mow the planted area.
11. The Owners do acknowledge that DMM, its contractors, employees and agents, having performed said works, are not under further obligation with respect to survival of nursery stock, inspection, or maintenance.
12. The Owners, in the absence of negligence, hereby remise, release and forever discharge DMM, its contractors, employees and agents from all claims and demands for injuries, including death, loss, damages and costs in any way related to or connected with installation and maintenance of the work described or resulting from any deleterious effects of the work to the land or to the lands and buildings thereon retained by the Owners.

IN WITNESS WHEREOF the parties have agreed to the contents of this plan; SIGNED:

The District Municipality of Muskoka

Fraser McTurk

Representative Signature:

Owner Signature:





About this program

About The District Municipality of Muskoka

The District of Muskoka is an upper-tier municipality that has monitored water quality in Muskoka area lakes since 1980. Since 2002, the Muskoka Water Strategy has provided integrated and strategic initiatives for the protection of Muskoka's water resources. The purpose of the strategy is to guide and minimize the impact of human activities on water resources; ensure human and environmental health; and preserve the quality of life in Muskoka.

This program was created by Watersheds Canada

We believe that every person has the right to access clean and healthy lakes and rivers in Canada. At Watersheds Canada, we work to keep these precious places naturally clean and healthy for people and wildlife to continue using for years to come. We love working with others to meet the needs of local communities, whether you're a concerned citizen, a landowner, a lake association looking for help, or a coalition of groups interested in activating your local community.