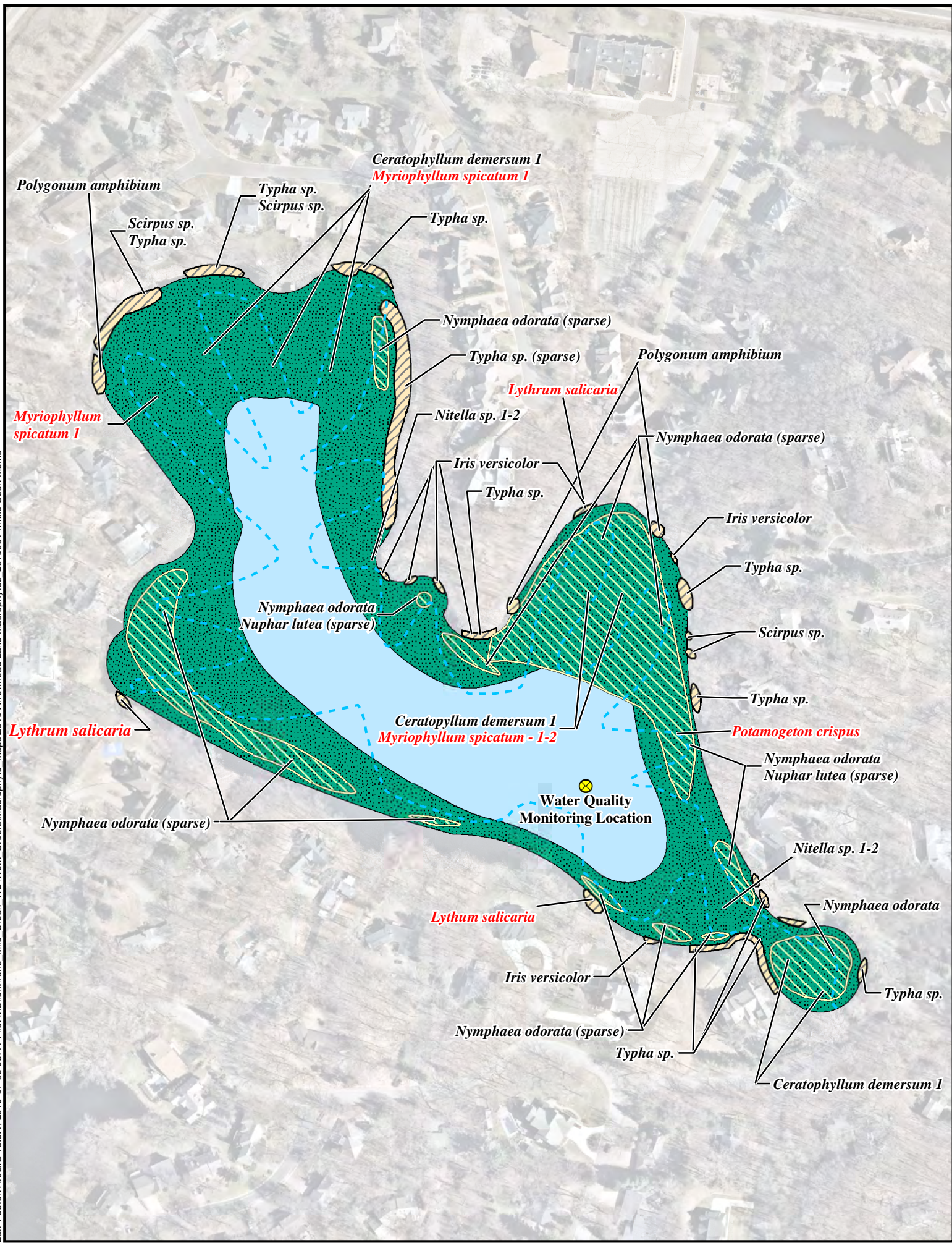


Appendix B

Aquatic Plant Survey Maps: Arrowhead Lake, Indianhead Lake, and Mirror Lake

Barr Footer: ArcGIS 10.6.1, 2019-07-08 08:41 File: I:\Client\Nine Mile Creek_WD\Work Orders\Macrophyte Maps\2019\Arrowhead Lake Macrophytes 20190614.mxd User: MJM3



Submerged Aquatic Plants

Common Name	Scientific Name
Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Stonewort	<i>Nitella sp.</i>
Coontail	<i>Ceratophyllum demersum</i>
Curlyleaf pondweed	<i>Potamogeton crispus</i>

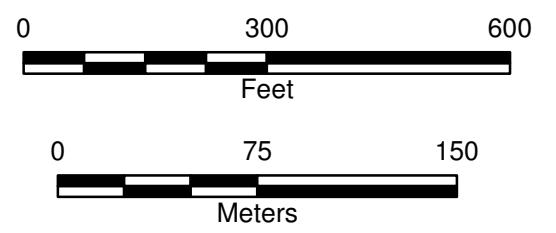
Floating Leaf Plants

Common Name	Scientific Name
White waterlily	<i>Nymphaea odorata</i>
Yellow waterlily	<i>Nuphar lutea</i>

Emergent Plants

Common Name	Scientific Name
Cattail	<i>Typha sp.</i>
Iris blueflag	<i>Iris versicolor</i>
Bullrush	<i>Scirpus sp.</i>
Purple loosestrife	<i>Lythrum salicaria</i>
Water smartweed	<i>Polygonum amphibium</i>

- Water Quality Monitoring Location
- Estimated Survey Route
- Emergent Plants
- Floating Leaf Plants
- Submerged Aquatic Plants
- No Aquatic Vegetation



Imagery Source: Nearmap 1ft imagery April, 2019

*Note: Bold red name indicates extremely aggressive/invasive introduced species.

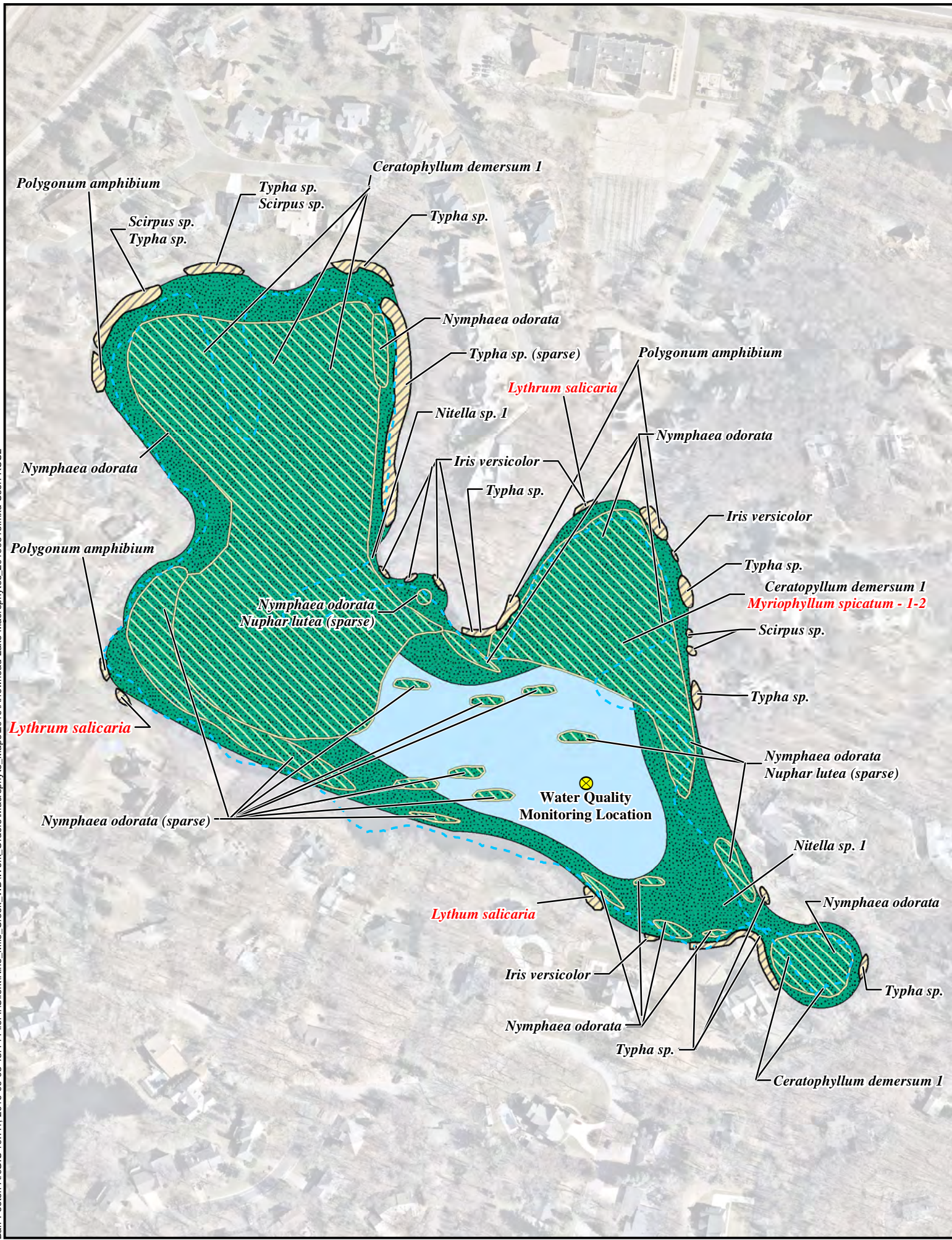


ARROWHEAD LAKE MACROPHYTE SURVEY

June 14, 2019
Nine Mile Creek Watershed District

FIELD NOTES:
 - No macrophytes found in water > 6.0 to 7.0'
 - Macrophyte densities estimated as follows:
 1=light; 2=moderate; 3=heavy
 - Ceratophyllum demersum observed - sporadic, light density
 - High water level
 - Iris versicolor sporadic along entire lake perimeter
 - Aerators on
 - Lake treated 5-14-18

Barr Footer: ArcGIS 10.7.1, 2019-09-03 13:14 File: I:\Client\Nine Mile Creek_WD\Work_Orders\Macrophyte_Maps\2019\Arrowhead Lake Macrophytes 20190815.mxd User: RCS2



Submerged Aquatic Plants

Common Name	Scientific Name
Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Stonewort	<i>Nitella sp.</i>
Coontail	<i>Ceratophyllum demersum</i>

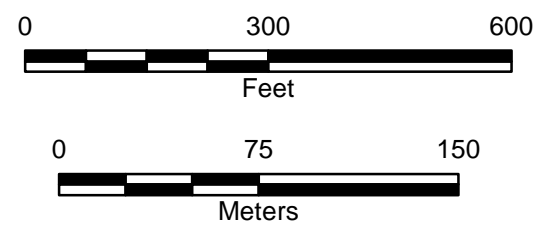
Floating Leaf Plants

Common Name	Scientific Name
White waterlily	<i>Nymphaea odorata</i>
Yellow waterlily	<i>Nuphar lutea</i>

Emergent Plants

Common Name	Scientific Name
Cattail	<i>Typha sp.</i>
Iris blueflag	<i>Iris versicolor</i>
Bullrush	<i>Scirpus sp.</i>
Purple loosestrife	<i>Lythrum salicaria</i>
Water smartweed	<i>Polygonum amphibium</i>

- Water Quality Monitoring Location
- GPS Survey Route
- Emergent Plants
- Floating Leaf Plants
- Submerged Aquatic Plants
- No Aquatic Vegetation



Imagery Source: Nearmap 1ft imagery April, 2019

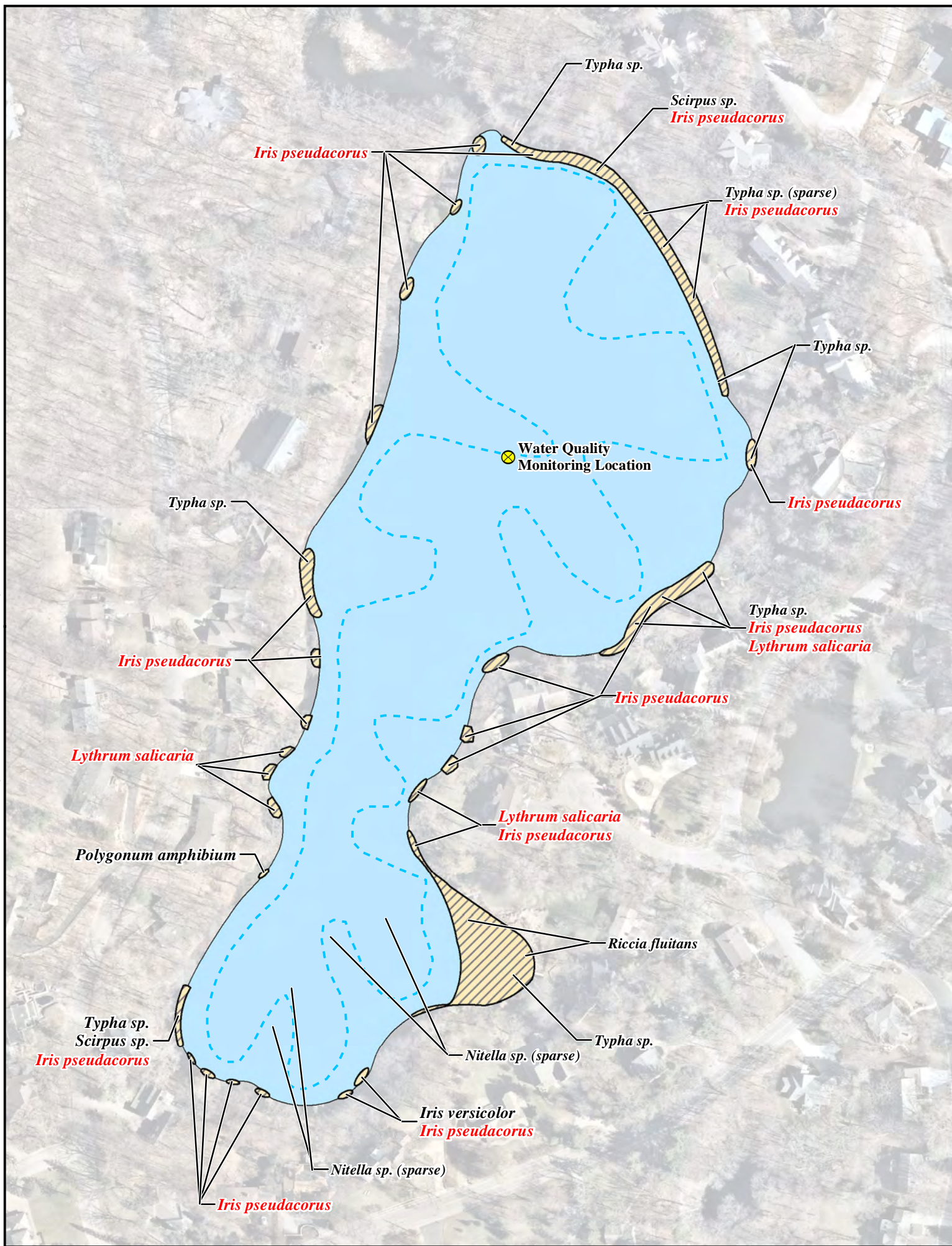
*Note: Bold red name indicates extremely aggressive/invasive introduced species.



ARROWHEAD LAKE MACROPHYTE SURVEY

August 15, 2019
Nine Mile Creek Watershed District

- FIELD NOTES:**
- No macrophytes found in water > 6.0 to 7.0'
 - Macrophyte densities estimated as follows:
1=light; 2=moderate; 3=heavy
 - *Ceratophyllum demersum* observed - sporadic, light density
 - High water level
 - *Iris versicolor* sporadic along entire lake perimeter
 - Aerators on
 - Lake treated 5-14-18



Submerged Aquatic Plants

Common Name	Scientific Name
Stonewort	<i>Nitella sp.</i>

Floating Leaf Plants

Common Name	Scientific Name
None Found	

Emergent Plants

Common Name	Scientific Name
Yellow iris	<i>Iris pseudacorus</i>
Cattail	<i>Typha sp.</i>
Bullrush	<i>Scirpus sp.</i>
Purple loosestrife	<i>Lythrum salicaria</i>
Northern blue flag	<i>Iris versicolor</i>
Water smartweed	<i>Polygonum amphibium</i>
Slender Riccia	<i>Riccia fluitans</i>

*Note: Bold red name indicates extremely aggressive/invasive introduced species.

⊗ Water Quality Monitoring Location

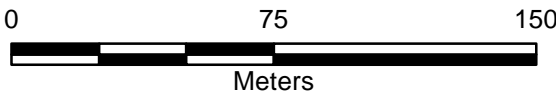
--- Estimated Survey Route

Emergent Plants

Floating Leaf Plants

Submerged Aquatic Plants

No Aquatic Vegetation



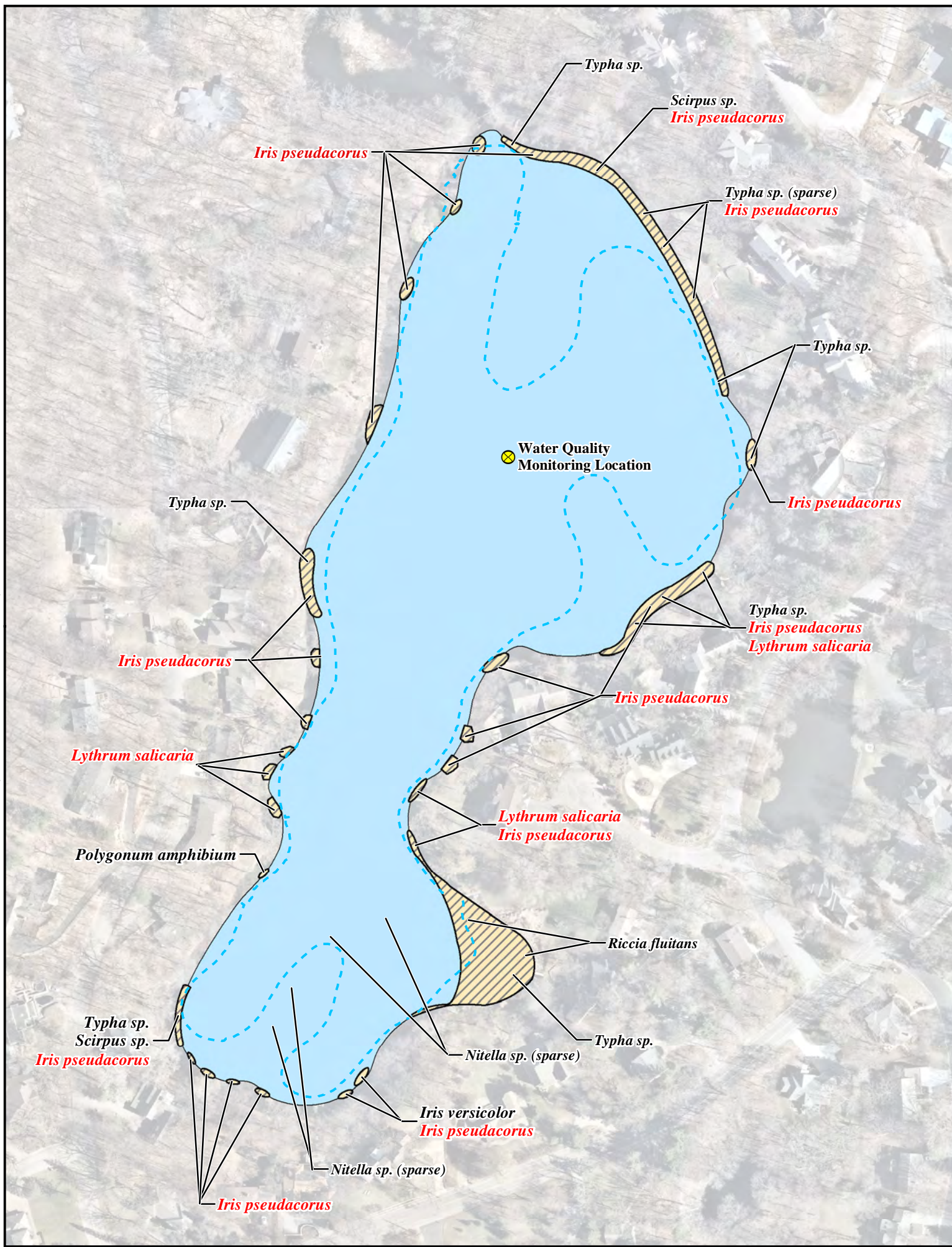
Imagery Source: Nearmap 1 ft imagery April, 2019



INDIANHEAD LAKE MACROPHYTE SURVEY

June 14, 2019
Nine Mile Creek Watershed District

FIELD NOTES:
 - Macrophyte densities estimated as follows:
 1=light; 2=moderate; 3=heavy
 - Aqua Shade has been added to lake.
 - High water level
 - Aerators on.
 - Lake was treated last year 5-14-2018
 - Submerged plants extremely sparse



Submerged Aquatic Plants

Common Name	Scientific Name
Stonewort	<i>Nitella sp.</i>

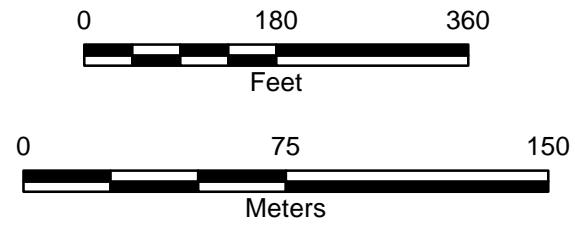
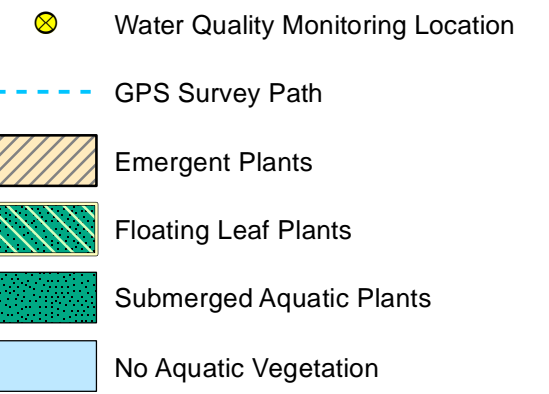
Floating Leaf Plants

Common Name	Scientific Name
Small duckweed	<i>Lemna minor</i>

Emergent Plants

Common Name	Scientific Name
Yellow iris	<i>Iris pseudacorus</i>
Cattail	<i>Typha sp.</i>
Bullrush	<i>Scirpus sp.</i>
Purple loosestrife	<i>Lythrum salicaria</i>
Northern blue flag	<i>Iris versicolor</i>
Water smartweed	<i>Polygonum amphibium</i>
Slender Riccia	<i>Riccia fluitans</i>

*Note: Bold red name indicates extremely aggressive/invasive introduced species.



Imagery Source: Nearmap 1 ft imagery April, 2019

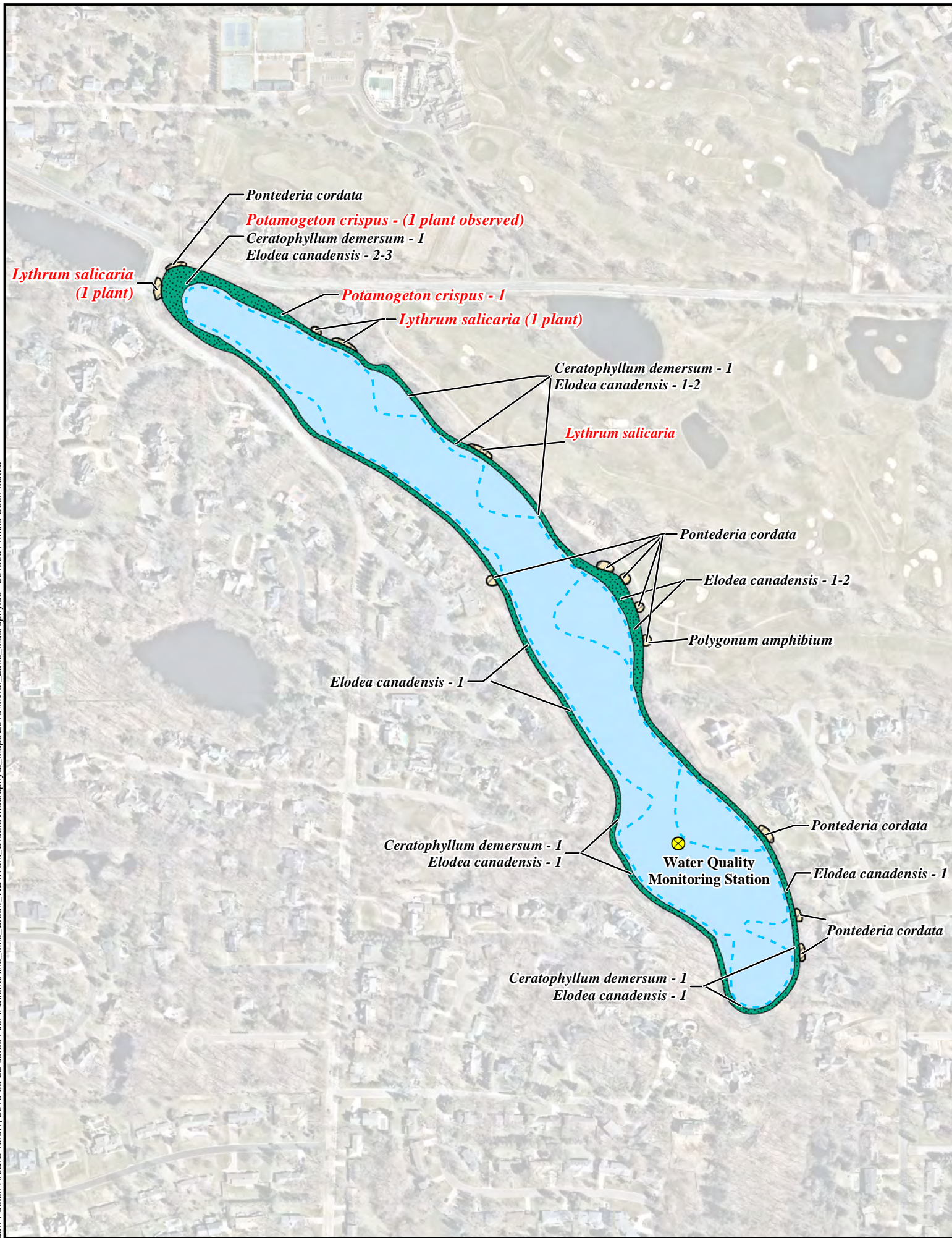


INDIANHEAD LAKE MACROPHYTE SURVEY

August 15, 2019
Nine Mile Creek Watershed District

FIELD NOTES:

- Macrophyte densities estimated as follows: 1=light; 2=moderate; 3=heavy
- Aqua Shade has been added to lake.
- High water level
- Aerators on.
- Lake was treated last year 5-14-2018
- Submerged plants extremely sparse
- **Potamogeton crispus** turions observed floating on water surface
- Lemna minor on water surface throughout lake



Submerged Aquatic Plants

Common Name	Scientific Name
Coontail	<i>Ceratophyllum demersum</i>
Canadian waterweed	<i>Elodea canadensis</i>
Curlyleaf pondweed	<i>Potamogeton crispus</i>

Floating Leaf Plants

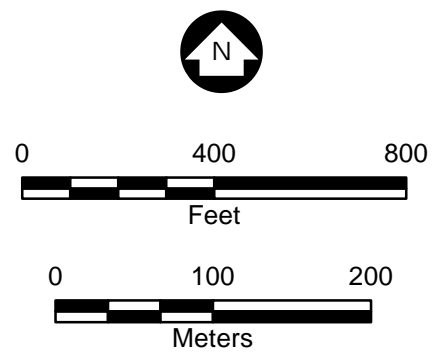
Common Name	Scientific Name
None Found	

Emergent Plants

Common Name	Scientific Name
Purple loosestrife	<i>Lythrum salicaria</i>
Pickrelweed	<i>Pontederia cordata</i>
Water smartweed	<i>Polygonum amphibium</i>

*Note: Bold red name indicates extremely aggressive/invasive introduced species.

- Water Quality Monitoring Location
- Estimated Survey Route
- Emergent Plants
- Floating Leaf Plants
- Submerged Aquatic Plants
- No Aquatic Vegetation



Imagery Source: Nearmap 1ft imagery April, 2019



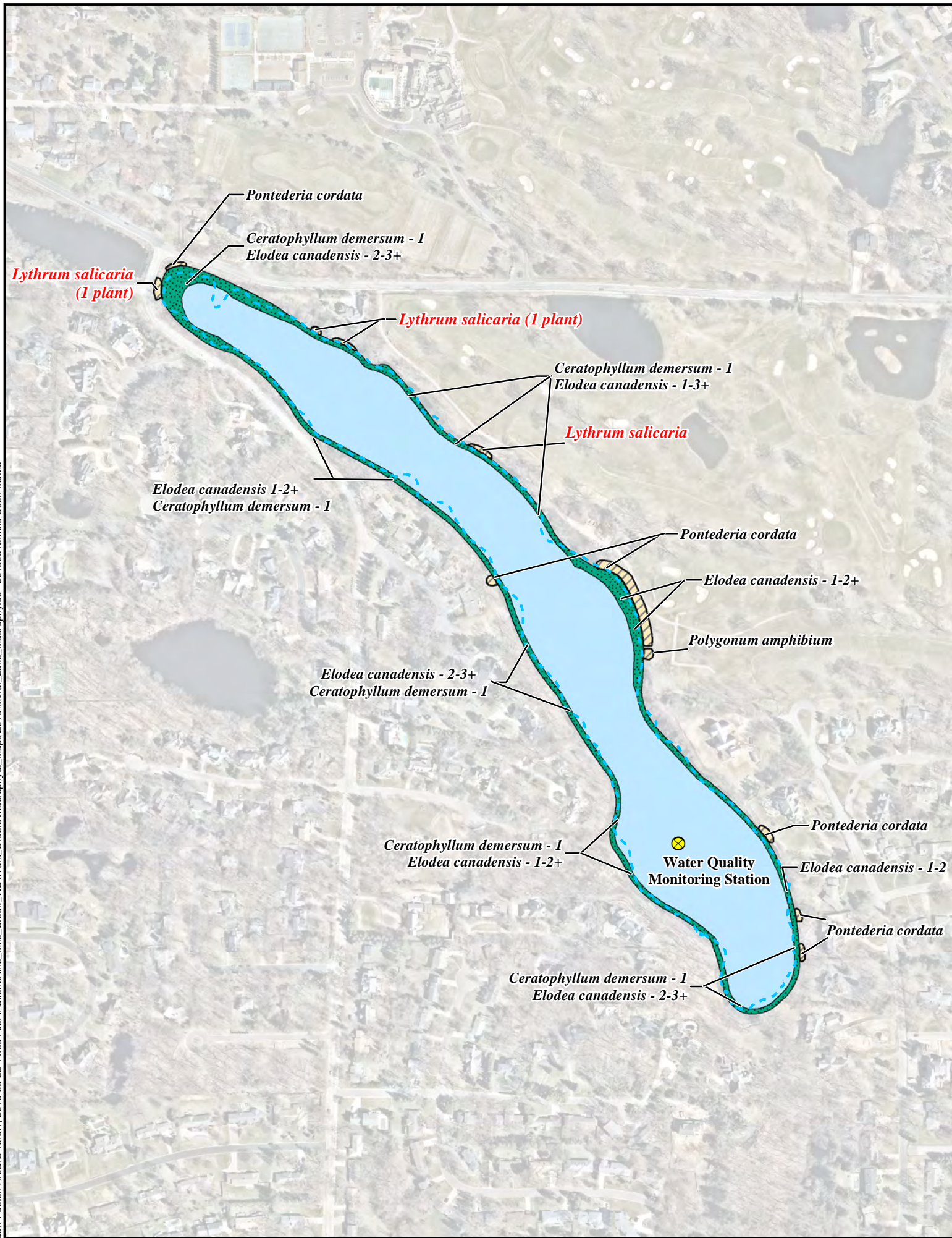
MIRROR LAKE MACROPHYTE SURVEY

June 14, 2019
Nine Mile Creek Watershed District

FIELD NOTES:

- No macrophytes found in water > 5'-6'
- Macrophyte densities estimated as follows: 1 = light; 2 = moderate; 3 = heavy
- All submerged species are less dense towards center of lake
- High water level
- Lake was treated last year - 2018

Barr Footer: ArcGIS 10.6.1, 2019-08-22 14:39 File: I:\Client\Nine Mile Creek_VD\Work Orders\Macrophyte Maps\2019\Mirror_Lake_Macrophytes - 20190815.mxd User: MJM3



Submerged Aquatic Plants

Common Name	Scientific Name
Coontail	<i>Ceratophyllum demersum</i>
Canadian waterweed	<i>Elodea canadensis</i>

Floating Leaf Plants

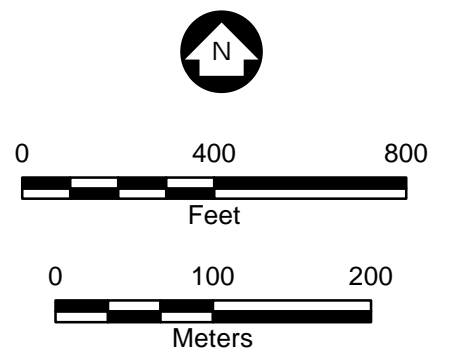
Common Name	Scientific Name
None Found	

Emergent Plants

Common Name	Scientific Name
Purple loosestrife	<i>Lythrum salicaria</i>
Pickrelweed	<i>Pontederia cordata</i>
Water smartweed	<i>Polygonum amphibium</i>

*Note: Bold red name indicates extremely aggressive/invasive introduced species.

- Water Quality Monitoring Location
- GPS Survey Route
- Emergent Plants
- Floating Leaf Plants
- Submerged Aquatic Plants
- No Aquatic Vegetation



Imagery Source: Nearmap 1ft imagery April, 2019



MIRROR LAKE MACROPHYTE SURVEY

August 15, 2019
 Nine Mile Creek Watershed District

FIELD NOTES:
 - No macrophytes found in water > 5'-6'
 - Macrophyte densities estimated as follows: 1 = light; 2 = moderate; 3 = heavy
 - All submerged species are less dense towards center of lake
 - High water level
 - Lake was treated last year - 2018