PWA ASSESSMENT **Detailed On-Site Analysis by Specialist(s)**	Region/Area:
PWA Name:	Water Body:
City/Township:	County:
Category of water body (e.g. Natural Environment, Recreational Development, General Development)	
Ecological Region	
Watershed: Watershed Authority: Rural, Suburban, or Urban?	

Is this part of a Grant Application:

Materials to gather for site visit:

Lake Finder website: - Lake Level Info - Lake Map (assessing littoral slope, fetch distance to PWA, etc.) - Lake position of PWA site
Site plan Scaled print-out for on-site mark-up (1" = 20' scale) GIS map is useful

PWA Details:

Existing Gray Infrastructure:	
Contributing Area (note areas and runoff flow-path direction on plan/aerial photo)	
On-site Impervious (asphalt and gravel) - Direct: - Indirect: On-site Pervious	square feet square feet

Off-site Impervious (from outside the access site, streets, etc.) square feet - Direct: - Indirect: Off-site Pervious
Parking Lot Islands How many: curbed fenced mounded treed
Existing Storm Water Treatment and/or Conveyance Describe:
Boat Ramp - Width - Condition (eroding along edges?) Describe:
Ramp Width: linear feet
Shore Fishing Access pier rocks undefined
Comments:
Existing Nonshoreline Green Infrastructure:
Size of Vegetated Area square feet
Mowed turf square feet
Invasive species presence Describe:
Potential Retrofit Space Available for Storm Water Capture and Treatment - Parking lot edge square feet - Parking lot islands - Flow Diversions needed to redirect runoff for treatment Describe:
Do storm water best management treatment opportunities exist?
Comments:

Existing Soils and Subsoils at Potential Retrofit Locations:

How well would water soak in?

- Compaction Level
  (compaction meter, rebar, wire flag)

- Soil Moisture Indication:
  Shallow Groundwater
  Elevation Difference from Lake Level
  Vegetation Indicator

- Shallow Bedrock Visible:

- Geotechnical Assessment:
  Soil Boring Options: By Reviewer with soil auger and water settling test to determine soil compounds
  By Geotechnical Consultant soil-boring logs

Comments:

Shoreline Assessment:

Lake information

Biome: Coniferous Forest____ Deciduous Forest ____ Prairie Grasslands____

Slope or aspect faces: east____ west____ south____ north____

Steepness of Slope: Nearly vertical___ >45%angle___ <45% angle___ Relatively flat___

Wave action on Shoreline: Severe___ Moderate___ Infrequent___ Minimal____

Estimated wave energy: High___ Medium___ Low____

Source of wave action: Wind____ Boats____ other____

Water level fluctuation: Highly variable____ Moderately variable____ Relatively stable____
Difference between normal and high _____

Reasons for water level change: seasonal___ control at outlet___ change after most rains____

Ice ridge present: No___ Yes____ If yes, how high? _____

Fetch distance and direction across lake to PWA site:

Water Quality: Observed turbidity or clarity ____ TMDL-listed____

Nearby comparable reference site: (Stable slope, undisturbed vegetation, unique features etc.)
Describe:

Total shoreline length: linear feet

Provide a cross-section of the 'typical' shore land slope, and label Normal Water Level (NWL), High Water Level (HWL), etc.

Provide a plan-view of the shore land area, showing erosion, overland flow path, existing invasive species, native plants, etc.

Aquatic Zone (NWL to 18" depth):

Determine slope in shallow water (distance from shore to 18"depth)

Determine depth and length of aquatic zone square feet:____

Lake bottom material (muck, sand, gravel, cobble, rock)

Existing vegetation: none___ mostly native____ mostly invasive____ mix of both_____

Are emergent plant beds nearby? If yes, what species?:

Potential for emergent plant establishment?

Is there woody debris present?

Evidence of muskrat and or geese activity?

Transitional Zone (NWL to HWL):

Determine elevation difference and slope between NWL & HWL

Determine depth and length of transitional zone square feet____

Identify eroding/eroded areas: length ____ height ____ undercut depth_____ other_____

Likely cause of erosion:

Soil type: sandy ____ loam____ clay____

Existing vegetation: none___ mostly native____ mostly invasive____ mix of both_____

Evidence of muskrat and or geese activity?

Upland zone (area above HWL):
Determine slope of bank

Determine depth and length of upland zone square feet____

Potential to expand buffer:

Identify eroding/eroded areas: length _____ height_____

Likely cause of erosion:

Soil type: sandy ____ loam____ clay____

Existing vegetation: none___ mostly native____ mostly invasive____ mix of both_____

Evidence of muskrat and or geese activity?

Informal pathways by people

Light availability: full sun_____ part shade_____ shady _____

Riprap Shoreline:
Determine coverage of riprap:

Note average size and depth of rock:

Is there soil and debris amongst the rock?

Are there plants growing amongst the rock?

Is there potential to introduce soil and plants without substantial washout?

Comments:

Photos:	
Reviewer(s):	Date: