

Messer Pond Watershed Implementation Plan

Results:

Overall Source of Phosphorus:

Watershed	75%
Septic Systems	13%
Atmosphere	12%

Just looking within the Watershed:

Phosphorus Loading:

County Road Brook	50%
Forest Acres Side	35%

Sediment Loading:

County Road Brook	45%
Forest Acres Side	45%

No Single Source

Nutrient Loading Reduction Goal:

Current Deep Spot Phosphorus Average: 12ug/l

Target Deep Spot Phosphorus Average: 10 ug/l

Requires an annual reduction of about 21 lb. of Phosphorus (19%)

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Recommendations:

Storm Water Management:

Personal initiatives

Rain Gardens/Barrels

Shoreline buffers / Runoff (around pond, Burpee Hill, above pond, Upper County)

Maintaining current programs (culvert cleanup, trash pickup, VLAP water sampling)

Group meeting / contact colleges

Encouragement by MPPA outreach/education to Watershed

MPPA/Town Initiatives

Maintain settling and catch basins

Buffering on County and Forest Acres Roads

Forest Acres culverts

Buildout:

Expand overly district

Fertilizer ordinance (no Phosphorus)

Septic maintenance

Impervious surface target and LID's to mitigate impact

I-89 impacts:

Brown wetland – P and sediment

Chloride

LSPA/Other associations

Miscellaneous:

Expand testing

Wake ordinance

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2016-2017 Plans/Goals:

- a) **Maintain our efforts on our current watershed initiatives
lake hosting, weed watching and culvert clean out.**

- b) **Expand our water sampling in the watershed
Start acquiring data to monitor the effectiveness of any implemented BMP's
Address questions posed to us by DES and DOT**

- c) **Work with the Planning Board on the zoning proposals recommended by the Watershed Plan.**
 - 1. **update the overlay maps to include many of the wetlands and seasonal streams**
 - 2. **amending the stream set-back regulations such that the slope of the property be taken into account**
 - 3. **require that all fertilizers used in a watershed contain no Phosphorus.**
 - 4. **investigating ordinances that would allow for the proactive maintenance and inspection of septic systems.**
 - 5. **establishing a target on the growth of the effective impervious area in all town watersheds.**
 - 6. **requiring developers and homeowners to address the management of storm water runoff.**
 - 7. **developing a funding model for unexpected or ongoing watershed issues outside of the normal budget process.**

- d) **Expand our outreach efforts to members of the watershed
pull together a group of local lake associations
review recommendations from plan
deicing agent change on I-89
Continue to contact local colleges**

- e) **Submit a preproposal to DES for the County Road grant
work with the town on its implementation.**

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Other Odds and Ends

Repair Bog Road culvert

Scheduled for late September and will include repair of boat launch area

Boat Launch

reach out to the ownership of boat launch to formally specify access to launch

Annual Catch Basin Cleanup

Happened earlier this month - Some of them had a lot of material in them

Not on an annual schedule budget and priorities

Started conversations on outsourcing the work at a cost of \$2,000

Implications of a Dirt Road and winter maintenance

sand a gravel road about 4 times more than a paved road during a freezing rain event

sand a gravel road a couple more times after a snow storm than a paved road

Town-wide, put out about 5,000 yds. of sand a winter

pick up about 1,500 - 2000 yards of it in the spring

dirt roads will lose about an inch of road surface a year, if it has an annual traffic volume of about 200 cars a day

Volunteers Needed:

**Treasurer
Secretary
Vice-President**

Lake Hosts

**Water Quality
Folks to take samples**

Outreach newsletters