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1		Legends: Type Action: Conserv = Conservation activity Edu = Educational task Reg = Create or Enforce a Regulation activity R & M = Research & Monitor Threat: 1 = Highest 10 = Lowest				Status updated on 12/04/2013.
2	Rank	Goal.Obj.Item Description	Type Action	Threat	Town(s) Effected	Status
3		1.1.A Develop and implement a septic system inspection program.	Reg	2	All	A Risk Analysis of all Meredith properties within 250' of Lake Waukegan has been completed including a Risk Criteria rating. See item 1.1.D; the same team is working toward an inspection system especially for properties that have no septic sytem on record. The town files of Meredith, Center Harbor and New Hampton were researched to identify lake front properties that had no septic system info on file.
4		1.1.B Educate homeowners about septic systems use and maintenance.	Edu	3	All	Robert Morency, RCAP Solutions, and Angela Labrecque have created a one page Septic System document titled <i>Caring for Lake Waukegan: It starts at home</i> . In August 2008, this Do's & Don'ts document along with an EPA booklet and return postcard was mailed to all properties in Meredith within 250 feet from Lake Waukegan who aren't on the Meredith sewer system. 8/9/2011 - Meredith held a Cyanobacteria presentation regarding the cause and seriousness of the toxic algae.
5		1.1.C Create a water quality monitoring program to identify failing septic systems along the shorelines.	R&M	4	M CH NH	8/2011 - With the help from the Water & Sewer Dept, Angela did a one-time water test at 9 points on Lake Waukegan in order to detect any failing septic systems. The results were inconclusive.
6		1.1.D Tie replacement of septic systems to the building permit process.	Reg	3	All	John Edgar is leading a team who is creating a proposal for this. WWAC received draft on 3/22/07. The plan is to create a Health Ordinance that would require all Meredith Building Permits for properties who use a septic system to have a certified septic system inspection done before issuing the permit. On 10/4/2010, the proposed regulation titled <i>Regulations to subsurface wastewater disposal systems in the Lake Waukegan Watershed</i> was discussed at the Meredith Selectmen's workshop; it was not acted on at that time. On 6/20/2011, the same proposed regulation was again discussed at a Meredith Selectmen's workshop; although time ran out before the discussion was complete. At the 12/3/2012 Meredith Selectmen meeting, the <i>Regulations Pertaining to Certain Subsurface Wastewater Disposal Systems in the Lake Waukegan Watershed</i> was passed with a 5-0 vote.
7		1.1.E Establish a finance program for cases of economic hardship.	Reg	6	All	The WWAC confirmed with Brenda Vittner on 3/10/09 that Meredith is continuing to maintain a fund to provide emergency financial assistance to Meredith property owners who require septic system repair or replacement but cannot afford to have the work done. The town would establish a lien on the subject property until the assistance money is repaid. USDA home repair loan fund (504) for low income and age restricted could be used to repair/replace septic. The Lake Winnepesaukee Watershed Association (LWWA) has applied and received two grants for financial assistance 1) to help offset the cost of certifying a septic systems operation and 2) help offset the costs of replacing a failed septic system.

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8		1.2.A Adopt a watershed overlay district which directs development away from ecologically sensitive areas, guides construction and development and prohibits high risk land uses.	Reg	2	All	Meredith: Increased minimum lot size to 2 acres in watershed. In 2009, the committee is working on adopting a more restrictive coverage requirement within the Waukegan Watershed Overlay District. Center Harbor: Already 5 acres min. New Hampton: In 2008, passed the requirement for a minimum of 2 acres in the Waukegan Watershed. Holderness: Adopted a "Waukegan Watershed Area" as an overlay for the zoning map.
9		1.2.B Identify and conserve key properties which protect drinking water supplies and sensitive ecological features in the watershed.	Conserv	2	Meredith CH NH H	Meredith: Feltham property was made a town forest. Center Harbor: Hawkins Pond Wetland Complex & Johnson/Monroe/Perkins Wildlife/Wetland Complex put in "Prime Wetland Status". New Hampton: In 2010, completed the acquisition of a 8.5 acre parcel that has about 1000' of Snake River shoreline in conservation. The Waukegan Shore Owners Association took the lead on this with support from the Meredith Conservation Committee, the New Hampton Conservation Commission and the WWAC. In 2013, a second parcel of land (Baird Property) in New Hampton on the Snake River has been acquired and put in conservation.
10		1.2.C Require erosion controls Best Management Practices(BMP) through the development review process, including construction inspection and site stabilization.	Reg	2	All	For Meredith, temporary and permanent BMPs are required with every site plan and subdivision town wide. Low impact development is promoted and encouraged, but not regulated.
11		1.2.D Adjust the Site Plan Review/Subdivision Review Processes to encourage designs which maintain existing hydrologic processes and functions.	Reg	4	All	Developing Meredith town-wide stormwater regulations are currently being worked on. The conservation district will be assisting with the technical drainage calculation requirements for small site development as part of Meredith, Laconia and Gilford subwatershed grant. This is something Meredith does in practice and required by Planning Board just not required by regulation.
12		1.2.E Encourage better site design for residential lot conversion which incorporates BMPs for stormwater management and erosion control. Update the Building Permit process and provide education to promote these changes.	Reg	2	All	
13		1.2.F Educate residents and contractors about the sensitivities of shoreline areas and the provisions of the NH Shoreland Protection Act.	Edu	3	All	The 2009 NH Lakes Association Demonstration project through the LCC Program will provide education on erosion control and shoreline protection. In 2011, this program was repeated; the LCC program improved 6 properties around Lake Waukegan. See video at http://www.youtube.com/watch?v=2MlrgtBC6XA
14		1.2.G Watershed communities which border the same water body should work cooperatively to protect this resource by employing a single code enforcement officer for purposes of permitting, inspection and compliance.	Reg	5	All	Bill Edney, Meredith Code Enforcement Officer, coordinates with the other towns.
15		1.3.A Implement a comprehensive stormwater management plan in the watershed which prevents potential harmful and destructive effects of stormwater runoff.	Reg	3	All	The Lake Winnepesaukee Watershed Association (LWWA) has applied for and received a grant titled <i>Development of a Watershed Restoration Plan for Lake Waukegan and Lake Winona</i> . This project will analyze the nutrient loading of in-flows to the lakes and develop a set of BMPs to minimize the negative effects of stormwater runoff. This project is expected to commence in late 2013 and complete in 2014.
16		1.3.B Review effectiveness of existing stormwater regulations and practices in the 5 watershed communities and update the regulations as necessary.	Reg	2	All	See item 1.2.D; Regulations from all three towns on Waukegan were looked at.
17		1.3.C Work cooperatively to ensure that stormwater BMPs are incorporated in all land use activities including land use planning, zoning and subdivision/site plan reviews.	Reg	2	All	

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18		1.3.D Ensure consistent application of the provisions of the Shoreland Protection Act to ensure watershed and lake protection and for ease and consistency of enforcement.	Reg	3	All	In 2008, Lakes Region Aerial Photography took high resolution, aerial photos of all the waterbody shorelines in the Waukegan Watershed. This will provide a reference baseline for the status of all the shorelines in Spring 2008 on Lake Waukegan, Lake Winona, Hawkins Pond, Otter Pond, Bear Pond and the Snake River. Photos are currently available at http://www.lakesregionaerials.com/lrap/Waukegan/ . Meredith has committed to make these photos available on the town's website.
19		1.3.E Protect natural areas that are essential for the control of stormwater runoff (see strategy 1.2.B)	Conserv	3	All	
20		1.3.F In locations throughout the watershed where stormwater inflows have been identified as transporting volatile organic chemicals, install mechanisms which absorb and/or separate petroleum based products from stormwater runoff.	Reg	2	All	PSU/Grant: Identified ~45 inflows. Monitoring 15 inflows in Lake Waukegan. Feb 2009, sent letter to the Meredith Hazard Mitigation Committee suggesting that an Oil Containment Boom be installed in Monkey Pond that would prevent most petroleum contaminants from entering Lake Waukegan. Upgrade catch basins to sand/oil separators. This would require DPW road projects to upgrade infrastructure as well as DOT. See 1.3.A
21		1.3.G Educate homeowners, contractors, business and local officials about stormwater and runoff issues.	Edu	2	All	In July 2011, a mailing to all Lake Waukegan shoreowners was made encouraging shoreowners to create lake front buffer areas to absorb rainwater and providing information on how this could be accomplished. See 1.2.F for more information.
22		1.3.H Correct existing stormwater problems and restore degraded areas (e.g. eroded stream banks.)	Reg	3	All	Grants required to do implementation projects. First management plan must be updated to include 9 criteria prior to state/feds considering grant applications. A proposal to include 9 criteria is being prepared for 319 grant.
23		1.3.I Get technical assistance and possible grant funding to implement these strategies while collaboratively involving planning boards from each of the 5 watershed communities.	Reg	4	All	Meredith is pursuing this and takes time as grants are competitive and not plentiful. Other towns would first need to be brought up to speed with the WWAC strategies, progress, etc before collaborating with the planning boards
24		1.4.A Implement a comprehensive and collaborative road maintenance management program in the watershed.	Reg	2	All	WWAC requested Meredith DPW to treat Water St & Waukegan St as a low salt area for snow removal/treatment. The request was accepted and implemented. Appropriate signage was also installed.
25		1.4.B Encourage new road designs that limit imperviousness and minimize environmental effects.	Reg	4	All	This is already done via road waiver standards with all new road construction projects.
26		1.4.C Dispose of material from street sweeping, cleaning catch basin sumps and snow collection in an environmentally sound manner.	Reg	4	All	The snow dump is only for snow. The street sweeping material is not considered hazardous and is disposed of at solid waste. Catch basin material is put in a DES approved retention basin.

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27		1.4.D Recommend that the State prohibit transport of hazardous material cargoes and petroleum transport trucks through the watershed (residential delivery not included)	Reg	5	All	Submitted letter to Meredith Town Management in 12/06. Met with them 1/24/07; attendees have action items. Awaiting Meredith Town Manager to call a follow-up meeting. Dec 2007 - Town of Meredith put up signs restricting weight limit of trucks on Waukewan Street which would include no Hazmat transport trucks. April, 2008 - the Town of Meredith stated it didn't want to pursue this at this time with the NHDOT. January 2009, request the acting Meredith Town Managers reconsider this action; objective is to ban pass through trucking of HazMat materials from using the Winona Road/Waukewan Road bypass. On 2/5/09, Angela Labrecque and Bruce Bond met with NHDES (Paul Susca) to garner support for the effort to get NHDOT to prohibit dangerous or hazardous cargoes on through transport trucking on Waukewan and Winona Roads for protection of Lake Waukewan and safety along this corridor. Subsequent to this meeting, NHDOT requested the WWAC address this request to NHDOT District 3 in Gilford. WWAC obtained support from both New Hampton and Center Harbor for this objective. On 4/20/09, the Meredith Selectmen unanimously approved sending a letter to NHDOT Gilford to open a dialog for the purpose of restricting these watershed secondary roadways for the size or type of thru transport trucking which could present a threat to the Waukewan Watershed. The letter will also propose a meeting with NHDOT Gilford. A March 2011 letter was drafted by the WWAC to be sent by the Meredith Town Manager to Mark Morrill, NHDOT Gilford requesting the trucking prohibition on Winona and Waukewan Roads. Reportedly the Town Manager wants to have this discussed at a future Meredith Selectmen's workshop. The Meredith BOS on 8/15/11 agreed to contact DOT with concerns. In 2013, the WWAC monitored three different weeks to get a true handle on this issue. One week in May to get a baseline, Motorcycle week in June and one week in July. We hired the Lakes Region Planning Commission to place vehicle counting strips on the road during those three weeks and we supplemented the monitoring with volunteers who sat next to the bridge recording the type of vehicles that passed by. During those three weeks, not one hazardous material carrying truck was observed. Our conclusion was to table this concern.
28		1.4.E Develop an emergency response spill plan for the watershed which protects Lake Waukewan as a source of public drinking water.	Reg	3	All	There is a Local Emergency Operations Plan dated May 2010 that addresses the operational response as well as the roles and responsibilities in the case of a hazardous material spill. Maps are printed to aid in the response. Following a meeting with the Fire Chief, Police Chief and Water and Sewer Superintendent, it was agreed that more detailed mapping of all drainage ways including each individual culvert depicting the water flow path would be very helpful, and should be prioritized for Waukewan. This could be a possible future project for the GIS person and DPW.
29		1.5.A Adopt an ordinance which requires that new installations for residential heating fuel storage and replacements must have either double-walled tanks or secondary containment, be weather protected and have encapsulated lines.	Reg	3	All	
30		1.5.B Ensure local enforcement of state code requirements for oil burning equipment installations and tank replacements (e.g. fill alarms with audible whistle, use of UL approved tanks, protected lines.)	Reg	3	All	Meredith Fire Chief say N/A for residential and quoted NFPA 211 as a code.
31		1.5.C Encourage or where necessary require inspection and testing of residential heating fuel tanks.	R&M	4	All	

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32		1.5.D With the assistance of local home heating fuel distribution companies, create a database of existing residential fuel tanks which is an inventory of tank age, type, volume, etc.	R&M	3	All	
33		1.5.E Educate homeowners about spill liability, methods of secure storage and spill prevention, how to get tanks inspected, changes in consumption rates, how sump pumps can contaminate water resources, what to do if a leak is found and code requirements.	Edu	5	All	Completed document "Home Heating Oil Tanks - A Hidden Threat?". The article was published in the June 2007 Waukegan ShoreOwners Assoc newsletter. It was also submitted to other local newspapers for publication.
34		1.5.F Educate local residential heating fuel distributors about the locations of public water supplies in the watershed and inform them about their susceptibility to spills. Remind companies about spill reporting requirements.	Edu	4	All	
35		1.5.G Encourage fire chiefs in the watershed to collaborate with others to develop education materials.	Edu	5	All	
36		1.6.A Educate homeowners and businesses about lawn care and landscaping techniques which minimize impacts on water resources.	Edu	3	All	In 2009/2010 a lawn care sub-committee was formed and created the " Don't P in the Lake " campaign. A press conference was held at Church Landing. Meredith town fields and lawns converted to low/no phosphorous and no pesticides. Education/Outreach was performed (BOS, Meredith Rotary, Kiwanis) and should continue on an ongoing basis.
37		2.1.A Implement a phased requirement prohibiting 2 Stroke carbureted engines on Lake Waukegan.	Reg	4	All	On hold. Monitoring VOC levels on a monthly basis during the summer on Lake Waukegan. To date, the levels have been below or at the minimum detectable level. See 4.1.C.
38		2.1.B Educate boaters who have inboard motors to use oil absorbing pillows or "bilge snakes" to prevent pollutants from entering the lake.	Edu	3	All	Summer 2007 - the WWAC purchased "bilge pillows" and gave one to every I/O boat on Lake Waukegan & Lake Winona with a note on how to use and where to purchase replacement pillows.
39		2.1.C Encourage enforcement of RSA 270-D:2 "General Rules for Vessels Operating on Water"	Reg	4	State	
40		2.1.D Provide temporary restrooms in appropriate access sites for boating enthusiasts.	Reg	4	Meredith	Portapotty at Lake Waukegan Boat Ramp is in place. 2009 - in an effort to reduce expenses, Meredith elected to no longer provide a Portapotty at the Public boat ramp. 2010 & 2011 - Funding by Meredith was reinstated for the portapotty at the boat ramp for the summer months.
41		2.1.E Educate boaters that Lake Waukegan is a public drinking water source, about safe fueling practices, use of MTBE-free gasoline, servicing and cleaning of boats and invasive species prevention.	Edu	3	All	This is being done as part of the Lake Host program. MTBE gasoline is no longer available in NH.
42		2.1.F Work with various event/activity sponsors to ensure that events associated with Lake Waukegan limit risks to this public drinking waters source.	Edu	4	Meredith	
43		2.1.G Maintain and support the Lake Host program.	R&M	3	All	Lake Waukegan Lake Host has been in place for 2006, 2007, 2008, 2009, 2010, 2011, 2012 & 2013 - Paid Hosts on weekends, volunteers on weekdays. Funding for the paid hosts is provided by NH Lakes, WSOA and WWAC.
44		2.2.A Provide permanent restroom facilities at the Meredith Town Beach on Lake Waukegan.	Reg	7	Meredith	Complete. Plan & Cost submitted for the 2006 Meredith Budget. Meredith has put this out for bid in 2007. Water Supply to this facility requires a well to be dug increasing the cost to build. April 2008 - intention is to complete this construction by summer 2008. On the selectmen's agenda for 4/28/08. In 2008, the permanent rest rooms were completed.
45		2.2.B Educate swimmers about the importance of Lake Waukegan as a public water supply and about healthy swimming etiquette (e.g. use of restrooms, no diapers allowed in the lake)	Edu	3	All	

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46		2.3.A Post prohibitions outlined by NH DES Administrative Rule Env-Ws 386.49 at public access points at the Meredith Town Beach, Meredith boat ramp and the boat ramps at Lake Winona and Hawkins Pond in Center Harbor.	Reg	3	Meredith	
47		2.3.B Update NH DES Administrative Rule Env-Ws 386.49 "Protection of the Purity of the Water of Lake Waukewan and its Watershed"	Reg	4	State	
48		2.4.A The Meredith Selectmen should write a letter to entities which provide aviation training in the watershed and request that they discontinue use of Lake Waukewan as a flight training area.	Reg	4	Meredith	Jeff Moody took this action and requested aviation training entities not use Lake Waukewan.
49		2.4.B Fueling of airplanes and establishment of commercial seaplane bases should be prohibited in the Waukewan Watershed.	Reg	5	M CH NH	
50		3.1.A Five facilities classified a "hazardous waste handlers" or Resource Conservation and Recovery Act sites are present in the Watershed. Two of these sites are "unassigned" by NH DES. Request that NH DES assign project managers to the sites.	R&M	4	Meredith	After speaking to DES, unassigned means not active as no additional action is required. There is a searchable database on the DES website under the hazardous waste program page. http://des.nh.gov/onestop/index.htm
51		3.1.B Meredith Water Dept to collaborate and facilitate BMPs for Commercial and Industrial Businesses.	Reg	2	Meredith	Water and Sewer Dept plans to contract individual property surveys for compliance with BMPs
52		3.1.C Determine where the two business' Floor Drains drain to. Develop a spill prevention plan if necessary to keep certain types of spills from entering the floor drain.	Reg	3	Meredith	In 2008, Bill Edney followed up on the floor drain issue and confirmed no toxic materials are entering the drains. One of the sites provided a test report certifying no toxic wastes.
53		3.1.D Meredith Water Dept will distribute educational packets to businesses and industries within the watershed providing information about safeguarding water quality and BMPs.	Edu	4	Meredith	Instructional handout for industrial and commercial BMP compliance will be handed out when surveys are conducted. Angela gathered information that could be summarized and distributed by the committee.
54		3.2.A Meredith should send a letter to the NH DOT Railroad bureau and owners of the railroad requesting that all stock piles of abandoned railroad ties along the railroad tracks be removed.	Reg	4	Meredith	Complete. Letter sent in 2006. Reportedly the abandoned railroad ties have been removed.
55		3.3.A Make appropriations for a feasibility study to examine expansion of the Meredith sewer system around the Southwest end of Lake Waukewan.	Reg	4	Meredith	Complete. Feasibility study to run the sewer line completely around Lake Waukewan was completed, presentation was made to committee. Not feasible due to the large price tag of millions of dollars.
56		3.3.B Coordinate wastewater planning with local agencies and boards to ensure that public sewers in the watershed are used to solve water pollution not to encourage further development.	Reg	4	All	
57		3.3.C Ensure that the Meredith sewer system is designed to minimize potential groundwater infiltration and pollution.	Reg	3	Meredith	A study of the system was completed. Town has prioritized and completed sewer replacement projects (Waukewan and Main st and Rt. 25)
58		3.3.D Refocus the sewer initiative to address Lake Waukewan concerns. Put the sewer main under the RR right-of-way and create a recreational path on top.	Reg	6	Meredith	In 2008, based on the study done by KV Partners, a sewer line under the RR tracks is not financially feasible.
59		4.1.A Develop a detailed drainage network map of streams and tributaries that can be used to guide water quality monitoring, road maintenance, stormwater management, development, review and emergency response planning.	Reg	4	All	Underway by PSU/Grant. Expect report in Spring 2007. In October 2008, Melissa Greenawalt-Yelle & Linda Madorma presented the findings of their study at the Meredith Community Center. Many tributaries were mapped as part of PSU graduate project. GIS files shared with the town. Culvert drainage map would still be needed. See 1.4.E and 1.4.D

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60		4.1.B Establish a long-term, comprehensive point testing protocol of all the tributaries leading to Lake Waukewan and Lake Winona.	R&M	3	All	
61		4.1.C Implement a monitoring program to assess concentrations of gasoline constituents including MtBE in Lake Waukewan from May to September.	R&M	2	Meredith	Began in Summer 2005. 2007 - Have monthly reports from June thru Oct; no issues found. 2008 - Have reports for June, July & Sept; no issues found. No VOC testing has been done at the lake's 4 points since 2008. MTBE is no longer in fuels sold in NH.
62		4.1.D Increase inspections and monitoring of aquatic invasive species.	R&M	3	All	Volunteer program (Weed Watchers) trained by the state in place for Lake Waukewan. See 2.1.G for Lake Host program also in place.
63		4.1.E Conduct a buildout analysis for the watershed.	Reg	4	All	Complicated and will be done for entire town to some degree for Master Plan Update.
64		4.1.F Determine current and future amounts of impervious cover by subwatershed, based upon zoning in the watershed.	R&M	4	All	In October 2008, Melissa Greenawalt-Yelle & Linda Madorma presented the findings of their study at the Meredith Community Center.
65		4.1.G Further research is needed to assess whether or not the drinking water intake in Lake Waukewan should have an isolation zone.	R&M	5	Meredith	Complete. Conclusion is not to create an isolation zone but instead to measure water quality at the intake of the Meredith Water Treatment Plant.
66		4.1.H Bring together town, county and state officials to clarify questions regarding jurisdiction of activities associated with Lake Waukewan. Investigate issues regarding authority, enforcement and compliance.	R&M	6	All	On going.
67		5.1.A Continue the Waukewan Watershed Advisory committee in order to help shepherd the implementation of the watershed management plan.	All	3	Meredith	Mission Statement for on-going WWAC activities approved by Meredith Selectmen in Dec 2005. WWAC continues to meet once a month and are seeking new members.
68		5.2.A Improve awareness of water quality and water resources protection in the watershed.	Edu	3	All	The Waukewan Watershed Management Plan has been presented to many groups by Bruce Bond, Randy Eifert & Bonnie Ireland. Some of the groups are: Meredith Selectmen, Center Harbor Selectmen, New Hampton Selectmen, Ashland Selectmen, Meredith Rotary Club, Kiwanis, Waukewan & Winona Shore Owners Associations, Lake Wicwas Shoreowners Assoc, Meredith Lions Club, Laconia Kiwanis and the Laconia Rotary..
69		New. Create a new section to the Meredith website that would provide educational type of information regarding the protection of the waterbodies in the Waukewan Watershed.	Edu			In 2008, some outlining and drafts for some of the topics had been created, but much more work needs to be done. The intent is to work with the Meredith website person to implement. No activity towards this has been done since 2008.