APPENDIX B. TABLE OF PREVIOUS STUDIES & RECOMMENDATIONS

Number	Citation	Recommended Action	Further Description of Recommendation	Results
1	SEH, 1996	NW Diversion and Treatment System: settling pond and pump	Constructing the NW Diversion and Treatment System would reduce Phosphorus loading by 53 pounds, or 51.5% for the goal.	Complete
2	SEH, 1996	Churchill Street Diversion and Treatment System	Diversion of stormwater from Churchill through a storm pipe under Greeley to new settling pond by Brick pond.	Settling pond complete. Churchill drainage will be treated with future BMPs
3	SEH, 1996	Brick Pond Treatment or Diversion	Brick pond chemical treatment system or a diversion. The study estimated alum treatments for Brick Pond would remove 27 lbs. of Phosphorus loading	Deferred until adequate control of stormwater P inputs is achieved
4	SEH, 1996	Olive Street Diversion	Diversion of stormwater from Olive Street out of the Lily Lake watershed	Not pursued. Drainage will be treated with future BMPs.
5	SEH, 1996	Phosphorus fertilizer prohibition ordinance		Complete
6	SEH, 1996	Alum treatments for Lily Lake	To remove internal phosphorus out of the lake water column	Deferred until adequate control of stormwater P inputs is achieved.
7	SEH 1997	NW Stormwater Diversion Detention Pond	NW Stormwater Diversion Detention Pond	Complete
8	SEH, 1997	Churchill Street Diversion South	Churchill Street Diversion South (\$97,100)	
9	SEH, 1997	Erosion control and extension of the existing 24	Provide erosion control and extension of the existing 24	Complete

		inch diameter outlet on Lake Street from Greeley Street to Lily Lake	inch diameter outlet on Lake Street from Greeley Street to Lily Lake (\$49,900)	
10	SEH, 1997	Comprehensive educational program for lakeshore homeowners		Complete and Ongoing
11	Save Lily Lake, 1998	Sediment removal from the west side of Lily Lake		Not pursued.
12	Save Lily Lake, 1998	Sedimentation basin construction at the stormwater outlet at Brick Street		Complete
13	Save Lily Lake, 1998	Ravine stabilization A ravine which has been carrying large amounts of sediment into the lake will be filled in. The storm water will be diverted to a new holding pond and then into the Brick Pond. Brick Pond		Complete
14	Save Lily Lake, 1998	Diverting stormwater to a new holding pond before entering Brick Pond		Complete
15	Bonestroo, 1999	Diversion of runoff from Hwy 36 right-of-way and Oak Park Heights	Diversion of runoff from Hwy 36 right-of-way and Oak Park Heights out of Lily Lake Watershed would achieve a 13 lbs. load reduction of phosphorus.	Complete
16	Bonestroo, 1999	Diversion of stormwater at West Olive Street from Brick Street storm sewer	Diversion of stormwater at West Olive Street from Brick Street storm sewer	Not pursued
17	Bonestroo, 1999	Developing an aquatic plant management strategy to minimize herbicide use		Complete
18	Bonestroo, 1999	Completing an internal nutrient cycling potential assessment		Complete
19	Bonestroo, 1999	Carrying out an alum treatment for Lily Lake and/or the Brick Pond		Deferred until adequate control of stormwater P

		system	inputs is achieved.
20	Bonestroo, 1999	Implementing street sweeping in the spring and fall in the Lily Lake watershed	Complete
21	Bonestroo, 1999	Continuing to monitor Lily Lake	Complete and ongoing
22	Bonestroo, 1999	Stabilize the Lake Street Ravine	Complete
23	Bonestroo, 1999	Increase capacity of Everett Drive catch basin by adding a second basin	Complete
24	Bonestroo, 1999	Resolve ponding conditions at Linson Circle	Complete
25	Bonestroo, 1999	Stabilize Trotter Court Ravine	Complete
26	Bonestroo, 1999	Stabilize Benson Ravine	Complete
27	Bonestroo, 1999	Remove impending vegetation to allow for discharge from Feeley's pond	Complete
28	Wenck, 2007	Parking lot improvements to reduce phosphorus loading	Complete
29	Wenck, 2007	Rain garden installations to reduce phosphorus loading	Complete and ongoing
30	Wenck, 2007	Wet pond excavations to reduce phosphorus loading	Complete and ongoing
31	Wenck, 2007	In-Lake Alum treatments to reduce phosphorus loading	Deferred until adequate control of stormwater P inputs is achieved.
32	Wenck, 2007	Infiltration basins to reduce phosphorus loading	Complete and ongoing

33	Wenck, 2007	Shoreline restoration to reduce phosphorus loading		Due to the bounce of Lily Lake, non-woody shoreline restorations have been unsuccessful.
34	Lily Lake Stormwater Retrofit Analysis, 2012	Targeted projects from 9 catchments.		32 projects installed. Retrofit Analysis updated in 2018.
35	Lily Lake Aquatic Management Plan, Wenck, 2013	Minimizing nuisance algae blooms, mats, foul odors, trash, and nuisance plant abundance by reducing nutrient loading and build up in the sediment		Ongoing
36	Lily Lake Aquatic Management Plan, Wenck, 2013	Improving the recreational use of the lake by creating access to open water areas through mechanical plant control		Not pursued
37	Lily Lake Aquatic Management Plan, Wenck, 2013	Improving and maintaining a healthy fishery by working with the DNR		Not pursued
38	Lily Lake Aquatic Management Plan, Wenck, 2013	Maintaining the wildlife habitat of the lakes through increased plant diversity by minimizing the nutrient build up in the sediments		Ongoing
39	Lily Lake Aquatic Management Plan, Wenck, 2013	Protecting the lake from invasive species through education and outreach, monitoring, and signage		Ongoing
40	Lily Lake Aquatic Management Plan, Wenck,	Access paths created through mechanical harvesting (up to 9.8 acres which is the DNR permit	Contract harvesting was found to be the cheapest option, followed by City Run harvesting, and finally	Herbicide treatment was ongoing, but halted in 2018

2013	limit of 50% of the littoral	Herbicide treatment. The	due to
2013			
	zone) or herbicide	focus would be on creating	potential
	applications (to an area of	access paths to open water	negative
	1.5 acres or up to 2.9 acres	from residences. Past	impacts to Chl-
	in navigation channels)	management has included	a and secchi
	could be done twice a year	herbicide application parallel	depths.
	between late May and early	to the shoreline to create a	Vegetation
	August with alternative	navigation channel. This	control will
	logistics for the operations	would need to be approved	require closer
	and funding	by the DNR as it is not	analysis to
		traditionally a permitted	avoid
		activity. Diquat is a contact	negatively
		herbicide and is an industry	impacting the
		standard for controlling	recovery of
		aquatic vegetation.	water quality.