

List of Liberty Lake Research Studies

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REFERENCES

Adams, B. W., 2004, Liberty Lake Integrated Aquatic Weed Management Plan, Liberty Lake Sewer and Water District, Liberty Lake, Washington.

Adams, B. W., 2005, Liberty Lake Water Quality Monitoring Plan, Liberty Lake Sewer and Water District, Liberty Lake, Washington.

Adams, B. W., 2009, Liberty Lake Integrated Aquatic Weed Management Implementation Final Report, Liberty Lake Sewer and Water District, Liberty Lake, Washington.

Audin, L.J., 2004, Trophic Interactions in a Shallow, Mesotrophic Lake: An Enclosure Experiment in Liberty Lake, Washington, M.S. Thesis, Washington State University Program in Environmental Science, Pullman, Washington.

Bailey, G.C., 1982, In Situ Toxicity of Aluminum Sulfate to Rainbow Trout, Washington, Report to the Michael Kennedy Consulting Engineers, Department of Civil and Environmental Engineering, Washington State University, Pullman, Washington.

Brereton, M.A. and E.M. Foedish, 1951, *Memories of Liberty Lake, Bicentennial Edition*, Spokane Washington, 28pp.

Bucy, L.K., 1994, Intermediate and Long Term Effects of Restoration Efforts on Liberty Lake, Washington, M.S. Thesis, Washington State University Program in Environmental Science and Regional Planning, Pullman, Washington.

Century West Engineers, 1998, Liberty Lake Stormwater Management Plan, Funded by the Washington State Department of Ecology Centennial Clean Water Fund, Developed for the Liberty Lake Sewer and Water District, Project No. 30221.007.01.

Christensen, D.R., B. Moore, K. Anderson, and M. Biggs, 2007, Liberty Lake Water Quality Monitoring Report 2006, Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Christensen, D.R., B. Moore, K. Anderson, M. Biggs, and E. Gomez, 2008, Liberty Lake Water Quality Monitoring Report 2007, Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Copp, H., 1976, Investigation to Determine Extent and Nature of Nonpoint Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, Part 1-Hydrologic Characteristics of the Lake Basins, Report No. 26, Washington Water Research Center, Washington State University, Pullman, Washington.

Drake, B., 2007, Liberty Lake Watershed Analysis, Graduate Project, University of Texas Environmental and Water Resources Engineering, Austin, Texas.

Entranco Environmental Engineering (Michael Kennedy Engineers), 1975, Rehabilitation Project, Liberty Lake, Washington, Liberty Lake Sewer District Proposal to EPA.

Funk, *et. al.*, 1968, Report to the Liberty Lake Property Owner's Association on Water Quality, Annual report for Liberty Lake, Washington, State of Washington Water Research Center, Washington State University, Pullman, Washington.

Funk, W.H., G.C. Bailey, and P.J. Bennett, 1974, Water Quality Study of Liberty Lake with Special Reference to Sediment and Algae, Report to Futrell-Redford-Saxton Consulting Engineers, Spokane, Washington.

Funk, W.H., H.L. Gibbons, D.A. Morency, S.K. Bhagat, G.C. Bailey, J.E. Ongerth, D. Martin, and P.J. Bennett, 1975, Determination, Extent, and Nature of Nonpoint Source Enrichment of Liberty Lake and

Possible Treatment, Washington Water Research Center, Report No. 23, Washington State University, Pullman, Washington.

Funk, W.H., H.L. Gibbons, D.A. Morency, P.J. Bennett, R. Marcley, and G.C. Bailey, 1976, Investigation to Determine Extent and Nature of Nonpoint Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, Part II-Water Quality Study, Report No. 26, Washington Water Research Center, Washington State University, Pullman, Washington.

Funk, W.H., H.L. Gibbons, D.A. Morency, P.J. Bennett, R. Marcley, and G.C. Bailey, 1976, Investigation to Determine Extent and Nature of Nonpoint Source Enrichment and Hydrology of Several Recreational Lakes of Eastern Washington, Project Completion Report, Washington State University Department of Civil and Environmental Engineering, Pullman, Washington.

Funk, W.H. and H.L. Gibbons, 1977, Effectiveness of an Alum Treatment at Liberty Lake, Washington, Washington State University Environmental Engineering, Pullman, Washington.

Funk, W.H., H.L. Gibbons, G.C. Bailey, and P.J. Bennett, 1978, Liberty Lake Water Quality Assessment Interim Report, A Report to the Environmental Protection Agency, Washington State University Environmental Engineering, Pullman, Washington.

Funk, W.H., H.L. Gibbons, G.C. Bailey, and P.J. Bennett, 1978, Effect of Restoration Procedures upon Liberty Lake; First, Second, and Third Status Reports, Department of Civil and Environmental Engineering, Washington State University, Pullman, Washington.

Funk, W.H., H.L. Gibbons, and G.C. Bailey, 1979, Effect of Restoration Procedures upon Liberty Lake, First Status Report, In: Limnological and Socioeconomic Evaluation of Lake Restoration Projects, Approaches and Preliminary Results, U.S. EPA 600/3-79-0005, Corvallis Environmental Research Laboratory, Corvallis, Oregon.

Funk, W.H., 1979-1982, Progress reports to the USEPA on water quality and productivity of Liberty Lake, Washington (unpublished reports), Department of Civil and Environmental Engineering, Washington State University, Pullman, Washington.

Funk, W.H., H.L. Gibbons, G.C. Bailey, B. Moore, F. Woodwick, S. Mawson, M. Gibbons, R. Nelson, P. Bennett, S. Breithaupt, P. Bulson, G. LeCain, D. Lamb, and J. Hein, 1982, Preliminary Assessment of Multiphase Restoration Efforts at Liberty Lake, Washington, Report No. 43, State of Washington Water Research Center, Washington State University, Pullman, Washington.

Funk, W.H., H.L. Gibbons, M.V. Gibbons, B. Moore, J. Nyznyk, M. Starr, T. Belnick, T. McKarns, R. Nelson, F. Woodwick, C. Gernold, G. LeCain, B. LiMarzi, J. Eisenbeis, T. Nielson, A. Frankenfield, and T. Noyes, 1983, Post Treatment Investigation of a Multiphase Lake Restoration of Liberty Lake, Washington, State of Washington Water Research Center, Washington State University, Pullman, Washington.

Funk, W.H., 1985, Liberty Lake Post Restoration Study (1984-1985), Progress Report to Liberty Lake Sewer District, Liberty Lake, Washington.

Funk, W.H. and B.C. Moore, 1991, Water Quality Monitoring of Liberty Lake, Washington 1990-1991, Report to the Liberty Lake Sewer District, State of Washington Water Research Center, Pullman, Washington.

Funk, W.H., 1993, Water Quality Monitoring of Liberty Lake, Washington 1992-1993, Report to the Liberty Lake Sewer District, State of Washington Water Research Center, Pullman, Washington.

Funk, W.H., 1994, Water Quality Analysis of Liberty Lake, Washington 1993-1994, Report to the Liberty Lake Sewer District, State of Washington Water Research Center, Pullman, Washington.

Funk, W.H., L.K. Bucy, and D.L. Robison, 1996, Water Quality Annual Report for Liberty Lake, Washington 1995-1996, Report to the Liberty Lake Sewer District, State of Washington Water Research Center, Pullman, Washington.

Funk, W.H., 1997, Water Quality Annual Report for Liberty Lake, Washington 1996-1997, Report to the Liberty Lake Sewer District, State of Washington Water Research Center, Pullman, Washington.

Funk, W.H., 1999, Water Quality Annual Report for Liberty Lake, Washington 1997-1998, Report to the Liberty Lake Sewer and Water District, State of Washington Water Research Center, Washington State University, Pullman, Washington.

Funk, W.H., 2000, Water Quality Annual Report for Liberty Lake, Washington 1998-1999, Report to the Liberty Lake Sewer and Water District, State of Washington Water Research Center, Washington State University, Pullman, Washington.

Gibbons, H.L., 1976, The Primary Productivity and Related Factors of Liberty, Newman, and Williams Lakes in Eastern Washington, M.S. Thesis, Washington State University Program in Environmental Science, Pullman, Washington.

Gibbons, M.V., 1980, An Investigation of the Zooplankton Community of Liberty Lake, Washington with Special Regard to Seasonal Regression, M.S. Thesis, Washington State University Program in Environmental Science, Pullman, Washington.

Gibbons, H.L., 1981, Phytoplankton Production and Regulating Factors in Liberty Lake, Washington with Possible Implications of Restoration Activities on the Primary Production, Ph.D. Thesis, Washington State University, Pullman, Washington.

Gibbons, M.V. and W.H. Funk, 1982, Seasonal Patterns in the Zooplankton Community of a Eutrophic Lake in Eastern Washington Prior to Multiphased Restoration, *Journal of Freshwater Ecology*, 1(6): 616-628.

Gibbons, M.V., F.D. Woodwick, W.H. Funk, and H.L. Gibbons, 1984, Effects of Multiphase Restoration, Particular Aluminum Sulfate Application, on the Zooplankton Community of a Eutrophic Lake in Eastern Washington, *Journal of Freshwater Ecology*, Vol. 2: 393-404.

Hartman, G., 2001, The effect of Nutrient Loading and Residential runoff in the Liberty Lake Watershed, Whitman College, Walla Walla, Washington.

Howard, C.B., 1994, Hydrologic Modeling in the Liberty Lake Watershed Using Geographical Information Systems: A Land Use Perspective, M.S. Thesis, Washington State University Program in Environmental Science and Regional Planning, Pullman, Washington.

Kaufman, P.R., 1977, Littoral Primary Productivity and Related Factors in Liberty Lake, Washington With Special Reference to Periphyton, M.S. Thesis, Washington State University Program in Environmental Science, Pullman, Washington.

Kaun, S., 1986, A Report on the Lake Restoration Program to the Members of the Liberty Lake Property Owners Association, Liberty Lake Sewer and Water District. Liberty Lake, Washington.

Kennedy, M.A. Consulting Engineers, 1979, Liberty Lake Restoration Plan, Prepared for Liberty Lake Sewer District, Spokane, Washington, EPA Project No. S804487010, DOE Project No. 267601702.

Kennedy, M.A. Consulting Engineers, 1980, Contract Documents for Liberty Lake Restoration Plan, Prepared for Liberty Lake Sewer District, Spokane, Washington.

Kennedy, M.A. Consulting Engineers, 1983, Interim Report for the Stormwater Management Study, Prepared for Liberty Lake Sewer District, Spokane, Washington.

Kennedy, M.A. Consulting Engineers and Washington State University, S. Breithaupt and D. Lamb, Michael Kennedy Consulting Engineers, and W. Funk, B. Moore, and H. Gibbons, 1984, Extended Post-Restoration Evaluation of Liberty Lake, WA, Interim Report, Michael Kennedy Consulting Engineers, Spokane, Washington, and Environmental Engineering Section. Washington State University, Pullman, Washington.

Kennedy, M.A. Consulting Engineers, 1985, Final Report for the Stormwater Management Study with Watershed Stormwater Management Guidelines, prepared by Michael Kennedy Consulting Engineers, Spokane, Washington for Liberty Lake Sewer District.

Kennedy, M.A. Consulting Engineers, 1985, Liberty Lake Restoration Project Completion Report, prepared by Michael Kennedy Consulting Engineers, Spokane, Washington for Liberty Lake Sewer District.

Kennedy, M.A. Consulting Engineers and Washington State University, S. Breithaupt and D. Lamb, Michael Kennedy Consulting Engineers, and W. Funk and B. Moore, 1986, Extended Post-Restoration Evaluation of Liberty Lake, WA, Final Report, Michael Kennedy Consulting Engineers, Spokane, Washington, and Environmental Engineering Section. Washington State University, Pullman, Washington for Liberty Lake Sewer District as Partial Fulfillment of Washington State Department of Ecology Grant WGF 84003.

Kennedy, M.A. Consulting Engineers, 1986, Operations and Maintenance Manual for Marsh Flushing Controls at Liberty Lake, Washington, Michael Kennedy Consulting Engineers, Spokane, Washington, for Liberty Lake Sewer District as Partial Fulfillment of Washington State Department of Ecology Grant WGF 84003.

Kennedy, M.A. Consulting Engineers, 1988, Water Quality Summary Report for Summer 1987 Monitoring of Liberty Lake, Washington, Report Prepared for Liberty Lake Sewer District, Michael Kennedy Consulting Engineers, Spokane, Washington.

Kennedy, M.A. Consulting Engineers, 1989, Water Quality Summary Report for Summer 1988 Monitoring of Liberty Lake, Washington, Report Prepared for Liberty Lake Sewer District, Michael Kennedy Consulting Engineers, Spokane, Washington.

Kohler, A.E., S.T. Juul, and W.H. Funk, 1998, A Comparative Bioassessment of Liberty Creek and Thompson Creek, Washington Using Benthic Macroinvertebrates, A Report for the Liberty Lake Sewer District, State of Washington Water Research Center, Washington State University, Pullman, Washington.

Larsen, C.P., 1987, In Situ Diel Measurements of Filtering Rates of Zooplankter *Diaptomus Reighardi* in Liberty Lake, Washington, M.S. Thesis, Washington State University Program in Environmental Science, Pullman, Washington

LeCain, G.D., 1982, Groundwater Flow and Phosphorus Input to Liberty Lake, M.S. Thesis, Washington State University Program in Environmental Science, Pullman, Washington.

Liberty Lake Property Owners Association, 1981, Save Liberty Lake from Rotenone, Liberty Lake, Washington.

Liberty Lake Sewer District, 1989, Restoring Liberty Lake - A Record of Achievement - The first Sixteen Years 1973-1989, Liberty Lake, Washington.

Liberty, S., CIRCA 1875, Biographical Manuscript: Statement by Stephen E. Liberty, PNQ VII p. 118, Eastern Washington State Historical Society, M.S. Biog L61, Spokane, Washington.

Mawson, S.L., 1980, The Impact of the Sediments on the Phosphorus Loading of Liberty Lake as a Result of Diffusion, M.S. Thesis, Washington State University, Pullman, Washington.

Mawson, S.J., H.L. Gibbons, W.H. Funk, and K.E. Hartz, 1983, Phosphorus Flux Rates in Lake Sediments, Journal Water Pollution Control Federation, 55:1105-1110.

McKarns, T.C., 1985, Translocation of Phosphorus in Elodea Canadensis in Liberty Lake, Washington, M.S. Thesis, Washington State University, Pullman, Washington.

Montgomery, James M. Consulting Engineers, 1990, Liberty Lake Drainage Master Plan, submitted by James M. Montgomery Consulting Engineers, Boise, Idaho.

Moore, B.C., 1981, Release of Sediment Phosphorus by Elodea Canadensis, M.S. Thesis, Washington State University Program in Environmental Science, Pullman, Washington.

Moore, B.C., H.L. Gibbons, W.H. Funk, T. McKarns, J. Nyznyk, and M.V. Gibbons, 1984, Enhancement of Internal Cycling of Phosphorus by Aquatic Macrophytes, with Implications for Lake Management, Lake and Reservoir Management, EPA 440/5/84-001.

Moore, B.C., W.H. Funk, and J. Lafer, 1988, Long Term Effects of Dredging on Phosphorus Availability from Liberty Lake Sediments, Lake and Reservoir Management, 4(2):293-301.

Moore, B.C., 1995, Liberty Lake Aquatic Macrophyte Survey: September 1995, A Report to the Liberty Lake Sewer and Water District, Clearwater Company, LLC. Pullman, Washington.

Moore, B.C., 1996, Liberty Lake early Intervention Milfoil Control Project: Summer 1996, A Report to the Liberty Lake Sewer and Water District, Clearwater Company, LLC., Pullman, Washington.

Moore, B.C., 1998, Liberty Lake Milfoil Control Project 1998, Summary and Recommendations, A Report to the Liberty Lake Sewer and Water District, Clearwater Company, LLC., Pullman, Washington.

Moore, B.C., 1999, Milfoil Control Activities at Liberty Lake, Washington, Clearwater Company, LLC., Pullman, Washington.

Moore, B.C., 2000, Milfoil Control Activities at Liberty Lake, Washington, Clearwater Company, LLC., Pullman, Washington.

Moore, B.C., 2001, Milfoil Control Activities at Liberty Lake, Washington, Clearwater Company, LLC., Pullman, Washington.

Moore, B.C., L. Audin, L. Flaherty, E. Martinez, M. Rogers, and B. Southerland, 2001, Water Quality Indicators and Trends 2000 and 2001, A Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C., M. Ewing, K. Hanley, M. Marsh, P. Mosman, L. Newton, N. Porter, A. Roberts, J. Squeochs, and O. Magden, 2001, Analysis of the Liberty Lake Watershed, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C., L. Audin, L. Flaherty, E. Martinez, A. Richter, and M. Rogers, 2003, Liberty Lake Water Quality Monitoring 2002, A Status Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C., L. Audin, D. Christianson, L. Flaherty, M. Rogers, and A. Richter, 2003, Liberty Lake Hydrologic and Nutrient Budgets 2002 and 2003, A Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C., 2004, Liberty Lake Water Quality Report 2003, A Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C., M. Biggs, D. Christensen, and L. Flaherty, 2005, Water Quality Monitoring: Liberty Lake 2004 and 2005, Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C., D. Christensen, K. Anderson, and M. Biggs, 2007, Liberty Lake Water Quality Monitoring Report 2006, Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C. and D. Christensen, 2008, Liberty Lake Water Quality Monitoring Report 2007, Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C., D. Christensen, E. Preece, E. Wessels, S. Mead, and B. Lanouette, 2008, Liberty Lake Water Quality Monitoring Report 2008, Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C., E. Clegg, B. Lanouette, A. Martin, S. Mead and E. Preece, 2009, Liberty Lake Water Quality Monitoring Report 2009, Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Moore, B.C., S. Mead, E. Preece, A. Martin, B. Lanouette, and B. Cross, 2010, Liberty Lake Water Quality Monitoring Report 2010, Report to the Liberty Lake Sewer and Water District, Department of Natural Resource Sciences, Washington State University, Pullman, Washington.

Morency, D.A., 1979, Primary Productivity and General Ecology of Aquatic Macrophytes in Liberty Lake, Washington with Implications for Lake Restoration and Management, M.S. Thesis, Washington State University Program in Environmental Science, Pullman, Washington

Nelson, R.D., 1981, An Evaluation of the Relative Efficiencies of Benthic Invertebrate Samplers used at Liberty Lake, M.S. Thesis, Washington State University Department of Civil and Environmental Engineering, Pullman, Washington.

Nelson, R.D., 1982, An Evaluation of Macroinvertebrates Prior To and After Aluminum Sulfate Treatment, State of Washington Water Research Center, Pullman, Washington.

Nelson, R.D., 1982, The Response of the Liberty Lake Benthos to Lake Restoration Efforts and the Ashfall from the Eruption of Mt. St. Helens, M.S. Thesis, Washington State University Department of Civil and Environmental Engineering, Pullman, Washington

Noyes, T.K., 1981, Phosphorus and Nitrogen Loading to Liberty Lake by Waterbirds, M.S. Thesis., Washington State University Program in Environmental Science, Pullman, Washington.

Orsborn, J.F., Professional Engineer, 1973, Water Balance Analysis of Liberty Lake, Washington, Prepared for Futrell-Redford-Saxton Consulting Engineers, Spokane, Washington.

Phillips, L., M. Divens, and C. Donley, 1999, 1998 Warmwater Fisheries Survey of Liberty Lake, Warmwater Enhancement Program, Washington Department of Fish and Wildlife, Olympia, Washington.

Starr, M., 1984, Water and Nutrient Budgets of Liberty Lake Marsh, M.S. Thesis, Washington State University Program in Environmental Science, Pullman, Washington.

Washington Department of Ecology, 1979, Environmental Impact Statement, Liberty Lake Restoration Project, Office of Water Programs, Olympia, Washington.

Washington State Department of Ecology, 1993, Total Maximum Daily Load for Liberty Lake, Washington, TMDL number: 57-001, Recommendation for TMDL approval by the United States Environmental Protection Agency, Seattle, Washington.

Woodwick, F.D., 1983, The Effects of Aluminum Sulfate on the Zooplankton of Liberty Lake, Washington, M.S. Thesis, Program in Environmental Science, Washington State University, Pullman, Washington.

Wright, W. and W.H. Funk, 1974, Restoration Plan for Liberty Lake, in Liberty Lake Rehabilitation Project Proposed for Liberty Lake Sewer District, Entranco Engineers, Spokane, Washington.

Wu, Mei-Yin, 1995, The Effects of Restoration Efforts on the Zooplankton Populations of Liberty Lake, Washington, M.S. Thesis, Program in Environmental Science and Regional Planning, Washington State University, Pullman, Washington.