

Current 1/2015

William W. Woessner
Chair of Thesis and Dissertation Committees

The following is a list of graduate geosciences and environmental studies theses completed at the University of Montana, Department of Geosciences under my direction:

AUTHOR	THESIS TITLE	DEGREE	DATE
1. DEWEY, MICHELLE B.	Effects of Reserve Pit Reclamation on Groundwater Quality at Selected Oil Well Sites in Eastern Montana and Western North Dakota (EVST)	M.S.	1984
2. CARTIER, KENN D. W.	Sediment, Channel Morphology, and Streamflow characteristics of the Bitterroot River Drainage Basin, Southwestern Montana	M.S.	1984
3. SHAPLEY, MARK D.	Hydrogeologic Behavior of the United States Antimony Corporation's Tailings Disposal Site, Sanders County Montana (EVST)	M.S.	1984
4. POPOFF, MARIN A.	A Case Study of the Hydrology and Groundwater Contamination of Milltown Valley, Montana (EVST)	M.S.	1985
5. CLARK, KENNETH W.	Interactions Between the Clark Fork River and Missoula Aquifer, Missoula County, Montana	M.S.	1986
6. FINSTICK-SMITH, SUE A.	Hydrogeology of the Victor and Bing Quadrangles, Bitterroot Valley, Montana	M.S.	1986
7. BRICK, CHRISTINE	A Model of Groundwater Response to Reservoir Management and the Implications for Kokanee Salmon Spawning, Flathead Lake, Montana (EVST)	M.S.	1986
8. BRIAR, DAVID W.	Water Resource Analysis of the Sullivan Flats area Near Niarada, Flathead Indian Reservation, Montana	M.S.	1987

9. VERHEY, MARGARET E.	Contributions to Potable Water Contamination from Septic System Effluent in Unsewered Areas Underlain by Coarse Sand and Gravel Substrates: Documentation of Treatment by the System and Vadose Zone and of Dispersion by the Aquifer (EVST)	M.S.	1987
10. WHEATON, JOHN	Hydrology and Probable Hydrologic Impacts Related to Coal Strip Mining at Big Sky Mine, Colstrip, Montana.	M.S.	1987
11. LAZUK, RAYMOND	The Relationship Between Electrical Resistivity and Hydraulic Conductivity in Fractured Bedrock Aquifers in Western Montana	M.S.	1988
12. THOMPSON, WILLIAM R.	Hydrogeology of the Jocko Valley, West-central Montana	M.S.	1988
13. UTHMAN, WILLIAM	Hydrogeology of the Hamilton North and Corvallis Quadrangles, Bitterroot Valley, Southwestern Montana	M.S.	1988
14. POTTINGER, MICHAEL H.	The Source, Fate and Movement of Herbicides in an Unconfined Sand and Gravel Aquifer in Missoula, Montana	M.S.	1988
15. WOGSLAND, KAREN L.	The Effect of Urban Storm Water Injection of Class V Wells on the Missoula Aquifer, Missoula, Montana	M.S.	1988
16. BAYUK, DANA S.	Hydrogeology of the Lower Hayes Creek Drainage Basin, Western Montana	M.S.	1989
17. ARMSTRONG, KEVIN	The Distribution and Occurrence of Perchloroethylene in the Missoula Valley Aquifer (EVST)	M.S.	1988
18. PERRY, WILLIAM M.	Migration and Degradation of Dissolved Gasoline in a Highly Transmissive, Unconfined Gravel and Cobble Aquifer: A Study of the Champion Missoula Sawmill Spill, Missoula, Montana	M.S.	1988

19. MAKEPEACE, SETH V.	Simulation of Ground Water Flow in a Coarse-Grained Alluvial Aquifer in the Jocko Valley, Flathead Indian Reservation, Montana	M.S.	1989
20. PAYNE, SCOTT M.	Modeling of Hydrogeologic Conditions and Ground Water Quality at an Oil Well Reserve Pit, Richland County, Montana	M.S.	1989
21. MILLER, ROSS D.	A Numerical Flow Model of the Missoula Aquifer: Interpretation of Aquifer Properties and River Interaction	M.S.	1991
22. WYLIE, ALLAN H.	Hydrologic Investigation of Durr and McDonald Swamps, Teton County, Montana	M.S.	1991
23. ANDERSON, ROBERT C.	Hydrogeology of the Swan River Oxbow Preserve Area, Lake County, Montana	M. S.	1992
24. SMITH, CLIFFORD ALLEN	The Hydrogeology of the Central and Northwestern Missoula Valley	M.S.	1992
25. BILLINGS, JAMES G.	Evaluating Methods of Determining the Hydraulic Conductivity Distribution in a Heterogeneous Unconfined Aquifer	M.S.	1992
26. MADISON, JAMES P.	Hydrologic Model of an Intermontane Basin, Helena Valley, Western Montana	M.S.	1993
27. FORD, JAMES F.	Transport and Fate of Dense Non-Aqueous Phase Liquids in an Alluvial and Karst/Fractured Aquifer, Valley and Ridge Province, Mid-Eastern United States	M.S.	1993
28. ENGINEER, VIRAF E.	Apparent Dispersion of a Contaminant Plume Under Transient Groundwater Flow Conditions	M.S.	1994
29. PHILLIPS, PERRI ANN	Surface Water and Groundwater Interactions in Pingo Ponds of the Mission Valley, Montana	M.S.	1994
30. CRAIG, WILLIAM H.	Groundwater-Surface Water Interactions Along the Beaverhead River, Near Dillon, Montana	M.S.	1994

31. GESTRING, SCOTT L.	The Interaction of the Clark Fork River and the Hellgate Valley Aquifer Near Milltown, Montana	M.S.	1994
32. SMART, ERIC W.	Surface Water and Groundwater Interaction in a Shallow Unconfined Alluvial Aquifer and Small Mountain Stream, Silver Bow Creek, Montana	M.S.	1995
33. McCAMANT, THOMAS	The Role of the Groundwater System in Controlling Nutrient Loading of a Pristine Trout Stream, Western Montana	M.S.	1996
34. LAMBERT, SEAN T.	Fate and Transport of Halogenated Aliphatic Compounds Associated with Septic System Effluent in an Unconfined Alluvial Ground Water System	M.S.	1996
35. KING, JEFFREY J.	The Cumulative Effects of Septic System Disposal on Groundwater Quality in Selected portions of Missoula County, Montana	M.S.	1996
36. SHAY, DEVIN T.	An Investigation of the Hydrogeology and Geochemistry of a Floodplain Aquifer System Impacted by Mine Tailings, Silver Bow Creek, Montana	M.S.	1997
37. KILEY, QUINN T.	Attenuated Poliovirus, Bacteriophage, and Bromide Transport through a Coarse-Grained Aquifer, Western Montana	M.S.	1997
38. STEWART, ANNE	Groundwater Quality and Quantity of the Eight Mile, Ravalli County, Montana (EVST)	M.S.	1998
39. LAUERMAN, BRUCE C.	Virus Occurrence and Transport in a Cold-Water, Sand and Gravel Aquifer, Frenchtown, Montana	M.S.	1999
40. FINK, JEFFREY A.	Characterization of the One-Dimensional Transport of Bacteriophage MS2 in a Coarse-Grained Vadose Zone Beneath a High School Septic Leach Field	M.S.	2000
41. TYRREL, CHRISTA-MARIE	Groundwater-Stream Interaction in a Placer-Mined Watershed: An Investigation of Elk Creek Montana	M.S.	2000

42. TROY, THOMAS L.	Affects of Ground Water Velocity on MS2 Transport through a Sand Matrix	M.S.	2000
43. BUSHUR, JENNIFER M.	Preliminary Analysis of Factors Controlling Virus Transport in a Floodplain Aquifer, Western Montana	M.S.	2001
44. MICHALEK, THOMAS E.	Quantifying Impacts to a Floodplain Groundwater System from Large-Scale Sand and Gravel Mining	M.S.	2001
45. PERRY, HEATHER L.	Sources and Pathways of Bacterial Contamination of Groundwater Resources Within a Rural Montana Subdivision	M.S.	2001
46. PRACT, KARL A.	Flow and Aquifer Parameter Evaluation Using Groundwater Age-Dating and Geochemical Tools: Missoula Aquifer, Western Montana	M.S.	2001
47. REEVES, DONALD M.	Hydrologic Controls on the Survival of Water <i>Howellia</i> (<i>Howellia aquatilis</i>) and Implications of Land Management, Swan Valley, Montana	M.S.	2001
48. BOER, BRIAN	Septic –Derived Nutrient Loading to the Ground Water and Surface Water in Lolo, Montana	M.S.	2002
49. JOHNSON, MOLLY M.	The Fate of Sewage Effluent and Nutrients Applied to Coarse-grained Soils by Sprinkler Irrigation	M.S.	2002
50. JOHNSON , ADAM N.	Preliminary Hydrogeological and Ground Penetrating Radar Investigations of Preferential Flow Zones in a Gravel Dominated Floodplain, Northwest Montana.	M. S.	2003
51. LOUSTAUNAU, P. KEVIN	Transport and Fate of Methyl Tertiary Butyl Ether (MTBE) in a Floodplain Aquifer and a Stream Interface, Ronan, Montana	M.S.	2003
52. PERINE, ADAM	Examination of Septic Effluent Denitrification in Natural and Sawdust Augmented Soils of the Missoula Valley, Western Montana	M.S.	2003
53. GODFREY, EMILY	Screening Level Study of Pharmaceuticals in Septic Tanks, Ground Water and Surface Water, In Missoula, Montana	M.S.	2004

54. DIEHL, J. CAIN	Hydrogeological Characteristics and Groundwater/ River Exchange in a Gravel-Dominated Floodplain Middle Fork for the Flathead River, Northwestern Montana	M.S.	2004
55. JOY, SUSAN E.	An Investigation of Groundwater Resources, and the Transport and Fate of Septic Effluent in a Fractured Rock Aquifer, Western Montana	M.S.	2005
56. COOK, ROBYN	Differentiating Sources of Recharge and Investigating the Fate of Arsenic in the Shallow Groundwater System Adjacent to a Losing River, Western Montana	M.S.	2005
57. TALLMAN, AMELIA T.	Identifying the Factors Controlling the Sources and Quantities of Water Captured by Municipal Supply Wells in the Highly Conductive Missoula Aquifer, Western Montana	M.S.	2005
58. MAGRUDER, IAN	Evaluation of an Ecohydrologic-Process Model Approach to Estimating Annual Mountain-Block Recharge	M.S.	2006
59. PETE, SHANDIN	Characterization of Pre and Post Re-naturalized Surface water/groundwater Exchange, Jocko River, Flathead Indian Reservation, Montana	M.S.	2006
60. FIACHETTI, AARON	Assessment of Ground Water Exchanger in Two Stream Channels and Associated Riparian Zones Jocko Valley, Western Montana	M.S.	2006
61. SUTHERLAND, MARY	Lithologic and Hydrologic Controls on the Occurrence Transport, and Fate of MTBE in Fine Grained Glacial- Lacustrine Sediments	M.S.	2009
62. FARINACCI, ANTHONY	Surface Water and Groundwater Exchanges in Fine and Coarse Grained River Bed Systems and Responses to Initial Stages of Dam Removal, Milltown, Montana	M.S.	2009
63. PAYNE, SCOTT	Classification of Aquifers	Ph.D.	2009
64. LYNCH, TABETHA	Forecasting the Transport and Fate of Pharmaceuticals In Coarse Grained Aquifers	M.S.	2010

65. JARED BEAN

Multi-scale Hydrogeomorphic Influences on Bull Trout
Spawning Habitat in Snowmelt-dominated Headwater
Streams

M.S. 2012

66. ANTONY BERTHELOTE

Forecasting Groundwater Responses to Dam Removal

Ph.D. 2013