

## Section 6: References

- Allen, A. W. (1983) *Habitat suitability index models: Beaver*. U.S. Fish Wildl. Serv. FWS/OBS-82/10.30 Revised 20 pp.
- Allen, A. W. (1986) *Habitat suitability index models: mallard (winter habitat, Lower Mississippi Valley)*. U.S. Fish Wildl. Serv. Biol. Rep. 82 (10.132). 37 pp.
- Allen, A. W. (1986) *Habitat suitability index models: Mink, revised*. U.S. Fish Wildl. Serv. FWS/OBS-82/10.61 Revised 19 pp.
- Allen, A. W., and R. D. Hoffman. (1984) *Habitat suitability index models: Muskrat*. U.S. Fish Wildl. Serv. FWS/OBS-82/10.46. 27 pp.
- American Mud and Musk Turtles, Natural History Information. Accessed at: <http://members.aol.com/TheWyvernsLair/turtles/MudMusk-1.html>. Last updated July 31, 2001.
- Arrigo, M.A. (1996) *Reproduction and recruitment of fishes in a hypereutrophic system (Onondaga Lake, New York)*. Master's thesis. SUNY College of Environmental Science and Forestry. Syracuse, NY.
- ASTM D 2487-06 (2007) Practice for Classification of Soils for Engineering Purposes. *Annual Book of ASTM Standards*, Philadelphia, PA
- Auer, Martin T; Steven W. Effler, Michelle L. Storey, Susan D. Connors, and others (1996). Biology. In *Limnological and Engineering Analysis of a Polluted Urban Lake*. Edited by Steven W. Effler. Springer-Verlag: New York. p. 384-534.
- B&L [Barton and Loguidice] (2001) *Wetland Delineation Report for the Onondaga Lake West Shore Trail*. Prepared for Onondaga County Department of Transportation.
- Barko, J. W. and R. M. Smart. (1986) Sediment-related mechanisms of growth limitation in submersed macrophytes. *Ecology* 67:1328-1340.
- Barko, J. W., M. S. Adams, and N. L. Clesceri. (1986) Environmental factors and their consideration in the management of submersed aquatic vegetation: A review. *Journal of Aquatic Plant Management* 24:1-10.
- BBL [Blasland, Bouck, & Lee] (2001) *Ninemile Creek/Geddes Brook sediment IRM investigation report*. Prepared on the behalf of Honeywell.
- Beauchamp, W. M. 1869 (ed.) *Journal of a Botanical Excursion in the Northeastern Part of the State of Pennsylvania and New York during the year 1807 by Federick Pursh*. Ira Friedman, Inc., Port Washington, NY.

- Beauchamp, W.W. (1908) *Past and Present of Syracuse and Onondaga County, New York*. S.J. Clarke Publishing Company: New York.
- Blasland & Bouck (1989) *Hydrogeologic Assessment of the Allied Waste Beds in the Syracuse Area*. Prepared for AlliedSignal.
- Bottomley, E. Z. and I. L. Bayley. (1984) A sediment porewater sampler used in root zone studies of the submerged macrophyte, *Myriophyllum spicatum*. *Limnology and Oceanography* 29:671-673.
- British Columbia Ministry of Environment. Green frog Factsheet. B.C. Frogwatch Program. Environmental Stewardship Division. Accessed November 27, 2007 at <http://www.env.gov.bc.ca/wld/frogwatch/whoswho/factshts/greenrog.htm>.
- British Columbia Ministry of Environment. Wood frog Factsheet. B.C. Frogwatch Program. Environmental Stewardship Division. Accessed November 27, 2007 at <http://www.env.gov.bc.ca/wld/frogwatch/whoswho/factshts/woodfrog.htm>.
- Bye, R.A. and F.W. Oettinger (1969) *Vascular flora of Onondaga County, New York*. State University of New York, College of Environmental Science and Forestry. Department of Forest Botany and Pathology. Syracuse, NY.
- C&S (1986) *Revised Landfill Closure Plan, Volumes 1 and 2*. C&S Companies (2001) *Transmittal to Ms. Susan Benjamin of the NYSDEC with copies of an August 3, 2000 memorandum titled "Summary of Wetland Subsurface Investigation Analytical Data"* Prepared by C&S. C&S, Syracuse, New York.
- Casselmann, J. M. and C. A. Lewis. (1996) Habitat requirements of northern pike (*Esox lucius*). *Canadian Journal of Fisheries and Aquatic Sciences* 53 (Suppl. 1):161-174.
- Chambers, P. A., and J. Kalf. (1985) Depth distribution and biomass of submersed aquatic macrophytes communities in relation to Secchi depth. *Canadian Journal of Fisheries and Aquatic Sciences* 42:701-709.
- Charbonneau, P. and L. Hare. (1998) Burrowing behavior and biogenic structures of mud-dwelling insects. *Journal of the North American Benthological Society* 17:239-249.
- Chiotti, T.L. (1981) *Onondaga Lake Survey Report, 1980 and 1981*. NYSDEC: Albany, NY.
- Cornell Lab of Ornithology. (2003) All About Birds Bird Guide. Retrieved from <http://www.birds.cornell.edu/AllAboutBirds/BirdGuide>.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe (1979) *Classification of Wetlands and Deepwater Habitats of the United States*. Office of Biological Services, USFWS, U.S. Department of the Interior. Washington, D.C.

- Crumb, D. *et al.* (2002) *City Cemeteries to Boreal Bogs Where to go Birding in Central New York* Second Edition. Onondaga Audubon Society, Syracuse, NY.
- David, J.D. and A.J. McDonnell (1997) Development of a partitioned-biomass model for rooted macrophyte growth. *Aquatic Botany* 56:265-276.
- de Laubenfels, David (1977) Syracuse. In *Geography of New York State*, ed. John H. Thompson. Syracuse University Press: Syracuse, New York. p. 469-479.
- Ducey, P. K. (1997) *Final Report for 1996: Wetland-lake Connections and Amphibian Communities of the Onondaga Lake Ecosystem*. State University of New York at Cortland. Department of Biological Sciences, Cortland, NY.
- Ducey, P.K., W. Newman, K. Cameron, and M. Messere (1998) Herpetofauna of the highly-polluted Onondaga Lake ecosystem, Onondaga County, New York. *Herpetological Review* 29:118-119.
- Ducey, P.K and L. West. (2004) *Populations of Amphibians and Reptiles within the Onondaga Lake Ecosystem*. Poster presentation at the Upstate Freshwater Institute Sixth Annual Onondaga Lake Scientific Forum. Liverpool, NY.
- EcoLogic (2001) *Onondaga Lake Ambient Monitoring Program, 2000 Annual Report*. Prepared for Onondaga County, New York.
- EcoLogic (2006) *Onondaga Lake Ambient Monitoring Program, 2005 Annual Report*. Prepared for Onondaga County, New York.
- Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt and A.M. Olivero (2002) *Ecological Communities of New York State*. Draft Second Edition. New York Natural Heritage Program. NYSDEC, Albany, NY.
- Edwards, E. A., G. Gebhart, and O. E. Maughan. (1983) *Habitat suitability information: Smallmouth bass*. U.S. Dept. Int., Fish Wildl. Serv. FWS/OBS-82/10.26. 47 pp.
- Effler, Steven W. and Gena Harnett (1996) Background. In *Limnological and Engineering Analysis of a Polluted Urban Lake*. Edited by Steven W. Effler. Springer-Verlag: New York. p. 1-31.
- Effler, Steven W. and Keith A. Whitehead (1996) Tributaries and Discharges. In *Limnological and Engineering Analysis of a Polluted Urban Lake*. Edited by Steven W. Effler. Springer-Verlag: New York. p. 97-199.
- Effler, Steven W., Martin T. Auer, Ned Johnson, Michael Penn, and H. Chandler Rowell (1996) Sediments. In *Limnological and Engineering Analysis of a Polluted Urban Lake*. Edited by Steven W. Effler. Springer-Verlag: New York. p. 600-666.

- Effler, Steven W., S.M O'Donnell, D.A. Matthews, C.M. Matthews, D.M. O'Donnell, M.T. Auer, and E.M. Owens (2002) Limnological and loading information and a phosphorus total maximum daily load analysis for Onondaga Lake. *Lake and Reservoir Management* 18:87-108.
- Environment Canada. Habitat Rehabilitation in the Great Lakes Techniques for Enhancing Biodiversity. Retrieved from <http://www.on.ec.gc.ca/wildlife/docs/habitat-rehabilitation4-e.html>.
- Environment Canada. Retrieved from <http://wildspace.ec.gc.ca/life.cfm?ID=BCNH&Page=More&Lang=e#BH>.
- Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Farrell, J. M. (2001) Reproductive success of sympatric northern pike and muskellunge in an upper St. Lawrence River bay. *Transactions of the American Fisheries Society* 130:796-808.
- Fernald, M. L. (1950) *Gray's Manual of Botany, 8<sup>th</sup> Edition*. American Book Company, New York, NY
- Ferrante, John G. (2005) Onondaga Lake: A Changing Ecosystem. *Clearwaters*. 35(2):10-16.
- Finger, T.R (1982) Fish Community—Habitat Relations in a Central New York Stream. *Journal of Freshwater Ecology* 1(4):343-352.
- Flora of North America Editorial Committee. (2002) Flora of North America North of Mexico Volume 23 *Magnoliophyta: Commelinidg* (in part): *Cyperaceae*. Oxford University Press, New York, NY.
- G.M. Hopkins, Co. (1938) *Atlas of the City of Syracuse, NY and Suburbs*. Philadelphia, PA.
- Gandino, C. J. (1996) *Community structure and population characteristics of fishes in a recovering New York lake*. Master's thesis. SUNY College of Environmental Science and Forestry. Syracuse, NY.
- Garrison, B. A. (1999) Bank swallow (*Riparia riparia*). No. 414. In A. Poole and F. Gill, editors. *The Birds of North America*. The Academy of Natural Sciences, Philadelphia, Pennsylvania and the American Ornithologists' Union, Washington, D.C.
- Geraci, Robert (2009) Personal communication with representative from the Habitat Technical Work Group.
- Gibbs, J. P. (2007) *The amphibians and reptiles of New York State*. Oxford University Press. New York, New York.
- Gleason, H. A. (1952) *The New Britton and Brown Illustrated Flora of the United States and Adjacent Canada*. Hafner Press, New York, NY (3 vols).

- Gleason, H. A. and A. Cronquist (1998) *Manual of Vascular Plants of Northeastern United States and Adjacent Canada*. The New York Botanical Garden, Bronx NY.
- Golubic, S. and A.G. Fischer (1975) Ecology of calcareous nodules forming in Little Connestoga Creek near Lancaster, Pennsylvania. *Verh. Int. Ver. Limnol.* 19:2315-2323.
- Goodrich, L. L. (1912) *Flora of Onondaga County as collected by the Members of the Syracuse Botanical Club*. McDonnell Co., Syracuse, NY.
- Graves, B. M., and S. H. Anderson. (1987) Habitat suitability index models: snapping turtle. U.S. Fish Wildl. Serv. Biol. Rep. 82 (10.141). 18 pp.
- Harding, A. (1973) *An Annotated Key to the Woody Plants of Onondaga County, New York*. Master's Thesis. State University of New York, College of Environmental Science and Forestry. Syracuse, NY.
- Hasse, J. J. and E. C. Stegemann (1992) Retrieved from <http://www.dec.ny.gov/animals/7040.html>  
<http://www.fishbase.org>.
- Hennigan, Robert D. (1991) America's Dirtiest Lake. *Clearwaters* 19:8-13.
- Hilsenhoff, W. (1966) The biology of *Chironomus plumosus* (Diptera: Chironomidae) in Lake Winnebago, Wisconsin. *Annals of the Entomological Society of America* 59: 465-473.
- Hohman, Christopher D. (2004) *Cultural Resource Management Report: Phase 1A Cultural Resource Assessment*. Public Archaeology Facility, Binghamton University: Binghamton, New York. Prepared for Parsons (and Honeywell). Draft.
- Inskip, P. D. (1982) Habitat suitability index models: northern pike. U.S. Dept. Int., Fish Wildl. Serv. FWS/OBS-82/10.17. 40 pp.
- Johnson, N.A. (1989) *Surficial Sediment Characteristics and Sediment Phosphorus Release Rates in Onondaga Lake, NY*. Master's Thesis, Department of Civil Engineering, Michigan Technological University, Houghton, MI.
- Johnson, S.L. (2009) *The littoral zone macroinvertebrates in Onondaga Lake and the influence of invertebrate drift*. MS thesis. State University of New York, College of Environmental Science and Forestry. Syracuse, NY.
- Kappel, W.M. (2003) Hydrogeology of the Onondaga Aquifer -- The Good, the Bad, and the Brine: Proceedings of the Fifth annual Onondaga Lake Scientific Forum, November 21, 2003, LeMoyne Manor Inn & Banquet Center, Liverpool, New York, p. 11
- Kappel, W.M. (2004) Personal communication with member of the Habitat Technical Work Group.

- Kappel, W.M. and W.S. McPherson (1998) *Remediation of Mudboil Discharges in the Tully Valley of Central New York*. USGS Fact Sheet.
- Kirby, L. (2009) *Nesting and recruitment of centrarchid fishes and the oligotrophication of Onondaga Lake, New York*. MS thesis. State University of New York, College of Environmental Science and Forestry. Syracuse, NY.
- Kirst, Sean (2009) Eagles in all their glory on Onondaga Lake. In *Syracuse Post-Standard* p.A1, p.A4.
- Knauss, Tim (2009) Data from the Upstate Freshwater Institute helped solve tough pollution problem. *Post –Standard*. February 9. Retrieved from [http://www.syracuse.com/progress/index.ssf/2009/02/data\\_from\\_the\\_upstate\\_freshwat.html](http://www.syracuse.com/progress/index.ssf/2009/02/data_from_the_upstate_freshwat.html)
- Lehmann, A., E. Castella, J.-B. Lachavanne (1997) Morphological traits and spatial heterogeneity of aquatic plants along sediment and depth gradients, Lake Geneva, Switzerland. *Aquatic Botany* 55:281-299.
- Lemmon, Dave (2009) Personal communication with Dr. Margaret Murphy, AnchorQEA.
- Lizlovs, Sandra. (2005). Industrial Waste Contamination: Past, Present, and Future. *Clearwaters*. 35(2):25-29.
- Madsen, John D. (2006) *Changes in the Littoral Aquatic Plant Community of Onondaga Lake from 1991 to 2006*. Presented at the Eighth Annual Onondaga Lake Scientific Forum, September 26.
- Madsen, J.D. and M.S. Adams. (1988) The seasonal biomass and productivity of the submerged macrophytes in a polluted Wisconsin stream. *Freshwater Biology* 20:41-50.
- Madsen, John D., Jay A. Bloomfield, James W. Sutherland, Lawrence W. Eichler, and Charles W. Boylen (1996) The Aquatic Macrophyte Community of Onondaga Lake: Field Survey and Plant Growth Bioassays of Lake Sediments. *Lake and Reservoir Management* 12(1):73-79.
- Madsen, J. D., P. A. Chambers, W. F. James, E. W. Koch, and D. F. Westlake. (2001) The interaction between water movement, sediment dynamics, and submersed macrophytes. *Hydrobiologia* 444:71-84.
- Madsen, John D., L.W. Eichler, J.W. Sutherland, J.A. Bloomfield, R.M. Smart, and C.W. Boylen (1992) *Submersed Littoral Vegetation Distribution: Field Quantification and Experimental Analysis of Sediment Types from Onondaga Lake, New York*. Report submitted to Onondaga Lake Management Conference. U.S. Army Engineer Waterways Experiment Station, Lewisville Aquatic Ecosystem Research Facility, Lewisville, TX.

- Madsen, J. D., R. M. Stewart, K. D. Getsinger, R. L. Johnson, and R. M. Wersal. (2008) Aquatic plant communities in Waneta Lake and Lamoka Lake, New York. *Northeastern Naturalist* 15:97-110.
- Mazerolle, M. J., and M. Cormier. (2003) Effects of peat mining intensity on green frog (*Rana clamitans*) occurrence in bog ponds. *Wetlands* 23:709-716. Retrieved from <http://www.theses.ulaval.ca/2004/21842/ch03.html>.
- McFarland, D. (2006) Reproductive ecology of *Vallisneria americana* Michaux. *SAV Technical Notes Collection* (ERDC/TN SAV-06-4). Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- McMahon, T. E., J. W. Terrell, and P. C. Nelson. (1984) *Habitat suitability information: Walleye*. USFWS FWS/OBS-82/10.56. 43 pp.
- McMullen, J.M. (1993) *Plant Species Recorded in the Botanical Literature From in or near Onondaga Lake, Onondaga County, New York*. Terrestrial Environmental Specialists, Inc. Phoenix, NY.
- Merritt, R. W., and K. W. Cummins. (1984) *An introduction to the aquatic insects of North America. Second Edition*. Kendall/Hunt Publishing Co. Dubuque, IA.
- Middleboe, A. L and S. Markager. (1997) Depth limits and minimum light requirements of freshwater macrophytes. *Freshwater Biology* 37:553-568.
- Mills, E.L. and J.L. Forney, M.D. Clady, and W.R. Schaffner (1978) Oneida Lake. In *Lakes of New York State*. Vol. 2. J.A. Bloomfield (ed.) Academic Press: New York.
- Mitsch and Gosselink (2003) *Wetlands*
- National Audubon Society. (2007) The Christmas Bird Counts Historical Results. Retrieved from [http://www.audubon.org/bird/cbc/July\\_16](http://www.audubon.org/bird/cbc/July_16)
- National Geographic's Northern Leopard Frog Profile (2007) Retrieved from <http://animals.nationalgeographic.com/animals/amphibians/northern-leopard-frog.html>.
- National Inventory of Dams (2009) [nid.usace.army.mil](http://nid.usace.army.mil) (accessed 11/20/09)
- NatureServe Explorer Database. (2007) Retrieved from <http://www.natureserve.org/explorer/servlet/NatureServe>.
- Nemerow, N.L. (1964) Onondaga Lake- a lake that was. In D.F. Jackson (ed.). *Some aquatic resources of Onondaga County*. Onondaga Co. Dept. Publ. Works, Div. Parks and Conserv., Onondaga County, NY.
- Niver, R. (2007) *Personal Communication. Endangered Species Biologist*. U.S. Fish and Wildlife Service. New York Field Office. Cortland, NY.

- NYFA. (2005) New York Flora Association Online Database. Retrieved from <http://atlas.nyflora.org/main>.
- New York State Breeding Bird Atlas 2000*. (2007) Release 1.0. Albany (New York): New York State Department of Environmental Conservation. [updated 2007 Jun 11; cited 2008 Oct 20]. Retrieved from <http://www.dec.ny.gov/animals/7312.html>.
- New York State Breeding Bird Atlas 2000* [Internet]. 2000 - 2005. Release 1.0. Albany (New York): New York State Department of Environmental Conservation. [updated 2007 Jun 11; cited 2008 Oct 20]. Retrieved from <http://www.dec.ny.gov/animals/7312.html>.
- NYSDEC (1995) *Freshwater Wetland Delineation Manual*. NYSDEC (2004) *Coldwater Fisheries Rehabilitation and Management in the Onondaga Lake Watershed*. Region 7 Fisheries Office draft position statement to EPA.
- NYSDEC (2002) *New York State River Otter Project, Records of river otter sightings around Onondaga Lake from 1984 to 2002*. New York State Department of Environmental Conservation.
- NYSDEC (2007) Freshwater wetlands, Onondaga County. Retrieved from <http://cugir.mannlib.cornell.edu/>.
- NYSDEC. 2009. Bog Turtle Fact Sheet. Accessed on the NYSDEC website: <http://www.dec.ny.gov/animals/7164.html>.
- NYSDEC (2009) *Citizens Participation Plan, Onondaga Lake Bottom Subsite of the Onondaga Lake Superfund Site*.
- NYSDEC and USEPA (2005) *Record of Decision. Onondaga Lake Bottom Subsite of the Onondaga Lake Superfund Site*.
- NYSDEC and USEPA (2008). *Proposed Plan. Operable Unit 1 of the Geddes Brook/Ninemile Creek Site, Onondaga County, New York*. November 19, 2008.
- NYSDEC and USEPA (2009) *Record of Decision. Operable Unit 1 of the Geddes Brook/Ninemile Creek Site, Onondaga County, New York*. April 29, 2009.
- NYSDOH (2007) *Chemicals in Sportfish and Game: 2007-2008 Health Advisories*. Retrieved from <http://www.health.state.ny.us/environmental/outdoors/fish/fish.htm>, June 1, 2007.
- Noble, R.L. and J.L. Forney (1969) *Fishery Survey of Onondaga Lake—Summer, 1969*. Department of Conservation and Cornell University: Ithaca, NY.
- Northeast Partners in Amphibian and Reptile Conservation; Species Data matrices Version 1.0. Retrieved from <http://www.pwrc.usgs.gov/neparc/Products/riskassessment.htm>.
- O'Brien & Gere (1995). *Letter to Mr. Charles Branagh of the NYSDEC regarding wetlands mitigation sampling in SYW-12 dated October 20, 1995*. Prepared on the behalf of Honeywell, Syracuse, New York.

- O'Brien & Gere (2001) *BERA Work Plan: Former IFG Facility and Ley Creek Deferred Media*. Syracuse, New York. Prepared on behalf of General Motors Corporation. June.
- O'Brien & Gere (2002) *East Flume Interim Remedial Measure, Syracuse, New York*. Prepared on the behalf of Honeywell.
- O'Brien & Gere (2003) *Jurisdictional Wetland Delineation, Harbor Brook Site, Geddes, New York*. Prepared on the behalf of Honeywell.
- O'Brien & Gere (2004a) *Harbor Brook Site Remedial Investigation/Feasibility Study*. Prepared on the behalf Honeywell.
- O'Brien & Gere (2004b) *Harbor Brook Site Baseline Ecological Risk Assessment* (draft report). Prepared on the behalf of Honeywell.
- O'Brien & Gere (2004c) *Willis Avenue Chlorobenzene Site Baseline Ecological Risk Assessment* (draft report) Prepared on the behalf of Honeywell.
- O'Brien & Gere (2004d) *95% Basis of Design Report for the East Flume IRM*. Prepared on the behalf of Honeywell.
- O'Brien & Gere (2005a) *Wastebeds 1 through 8 Focused Remedial Investigation Work Plan*. Prepared on the behalf of Honeywell.
- O'Brien & Gere (2005b) *Preliminary Site Assessment-Data Summary Report, Ninemile Creek Dredge Spoils Area*. Geddes, New York. Prepared on the behalf of Honeywell International, Syracuse, New York.
- O'Brien & Gere (2006) *Wetland Delineation and Floodplain Assessment for the Wastebeds 1 through 8 Site*. Prepared on the behalf of Honeywell.
- O'Brien & Gere (2009). *Wetland Delineation and Floodplain Final Report for the Wastebeds 1 through 8 Site*. Syracuse, New York.
- O'Brien & Gere and Parsons (2004) *Final Work Plan for Wetlands/Floodplain Assessment Report, Onondaga Lake*. Prepared on the behalf of Honeywell.
- O'Brien & Gere and Parsons (2004b) *Wetlands/Floodplain Assessment for Onondaga Lake* (draft report). Prepared on the behalf of Honeywell.
- O'Brien & Gere and Parsons (2009) *Wetlands / Floodplain Assessment, Onondaga Lake, Revised Report*. Geddes and Syracuse, New York. Prepared on the behalf of Honeywell.
- OCDWEP (Onondaga County Department of Water Environment Protection) (2001) *Ambient Monitoring Program Report*. Onondaga County Department of Water Environment Protection. Syracuse, NY.
- OCDWEP (2003) *Ambient Monitoring Program Report*. Onondaga County Department of Water Environment Protection. Syracuse, NY.

- OCDWEP (2004) *Ambient Monitoring Program Report*. Onondaga County Department of Water Environment Protection. Syracuse, NY.
- OCDWEP (2005) *Ambient Monitoring Program Report*. Onondaga County Department of Water Environment Protection. Syracuse, NY.
- OCDWEP (2006) *Ambient Monitoring Program Report*. Onondaga County Department of Water Environment Protection. Syracuse, NY.
- OCDWEP (2009) <http://www.ongov.net/lake/ol32.htm>
- Ourlake.org (2007) *System Description: Onondaga Creek*. Retrieved from [http://www.ourlake.org/html/onondaga\\_creek1.html](http://www.ourlake.org/html/onondaga_creek1.html), June 11, 2007.
- Pagano, A. M. and J. E. Titus. (2004) Submersed macrophyte growth at low pH: Contrasting responses of three species to dissolved inorganic carbon enrichment and sediment type. *Aquatic Botany* 79:65-74.
- Parsons (2004). *Onondaga Lake Feasibility Study Report, Onondaga County, New York*. Prepared for Honeywell, in association with Anchor Environmental and Exponent. May 2004.
- Parsons (2004a). *Final (100%) Design Report for the LCP Bridge Street Site (OU-1)*. Solvay, New York. Prepared on the behalf of Honeywell, March 2004. Revised September 2004.
- Parsons (2005) *Geddes Brook/Ninemile Creek Feasibility Study Report, Onondaga County, New York*. Draft Final. Prepared on the behalf of Honeywell.
- Parsons (2006) *Onondaga Lake Pre-Design Investigation: Phase II Work Plan*. Prepared for Honeywell.
- Parsons (2008). *Draft Final Geddes Brook/Ninemile Creek Operable Unit 1, Supplemental Feasibility Study Report*. Prepared on the behalf of Honeywell, Inc. November 2008.
- Parsons (2009). *Draft Final Geddes Brook/Ninemile Creek Operable Unit 2, Supplemental Feasibility Study Report*. Prepared on the behalf of Honeywell, Inc. May 2009.
- Parsons (2009a) *Onondaga Lake Phase IV PDI Preliminary Draft Data Summary Report*. Appendix K: Habitat Investigation Data Summary Report. Prepared on the behalf of Honeywell. (In review)
- Parsons (2009b) *Draft Capping and Dredge Area and Depth Technical Document* (in progress).
- Parsons (2009c) *Willis Avenue Lakeshore Barrier Wall RIM (Site No.:734026 Restoration/Mitigation Design)*.
- Parsons (2009d) *Draft Remedial Action Report and Certification, LCP Bridge Street Site*. Prepared on the behalf of Honeywell.

- Parsons (2009e) *Draft Onondaga Lake Baseline Monitoring Report for 2008*, Prepared on the behalf of Honeywell, June 2009.
- Parsons (2009g) *Capping and Dredge Area and Depth Initial Design Submittal*, December 2009.
- Parsons (2009f) *Draft Work Plan for Onondaga Lake Nitrate Application Field Trial*, Prepared on the behalf of Honeywell, June 2009.
- Peckarsky, B. L., P. R. Fraissinet, M. A. Penton, and D. J. Conklin, Jr. (1990) *Freshwater macroinvertebrates of Northeastern North America*. Cornell University Press, Ithaca, New York.
- Penfound, W.T., T.F. Hall, and D. Hess (1945) The spring phenology of plants in and around the reservoirs in north Alabama with particular reference to malaria control. *Ecology* 26:332-352.
- Peterson, D. L., P. Vecsei, and C. A. Jennings. (2007) Ecology and biology of the lake sturgeon: a synthesis of current knowledge of a threatened North American Acipenseridae. *Abstracts from Update on Lake Sturgeon in NYS Waters, January 2000*.
- Prestigiacomio, A. R., S. W. Effler, J. M. Hassett and E. M. Michelanko. (2006) Remote Robotic Monitoring of Suspensoid Water Quality in Onondaga Creek, NY. *Journal of the American Water Resources Association* (in review).
- PTI (1993) *Onondaga Lake RI/FS Ecological Effects Investigation Data Report*. Prepared for AlliedSignal, Inc.
- Purcell, B. (2004) Region 5 – Oneida Lake Basin *Kingbird* 54: 71-77.
- Purcell, B. (2005) Region 5 – Oneida Lake Basin *Kingbird* 55: 68-73.
- Purcell, B. (2006) Region 5 – Oneida Lake Basin *Kingbird* 56: 162-166.
- Raleigh, R. F., L. D. Zuckerman, and P. C. Nelson. (1986) Habitat suitability index models and instream flow suitability curves: Brown trout, revised. *USFWS Biol. Rep.* 82(10.124). 65 pp. [First printed as: FWS/OBS 82-10.71, September 1984].
- Rea, T. E., D. J. Karapatakis, K. K. Guy, J. E. Pinder III, and H. E. Mackey, Jr. (1998) The relative effects of water depth, fetch and other physical factors on the development of macrophytes in a small southeastern US pond. *Aquatic Botany* 61:289-299.
- Rhodes, C.A. and M.M Alexander (1980) *Wetlands of Onondaga County, 1976-1978*.
- Ringler, N.H., C. Gandino, P. Hirethota, R. Hanahey, P. Tango, M. Arrigo, C. Morgan, C. Millard, M. Murphy, R.J. Sloan, and S.W. Effler (1996) Fish Communities and Habitats in Onondaga Lake, Adjoining Portions of the Seneca River, and Lake Tributaries. In *Limnological and Engineering Analysis of a Polluted Urban Lake*. Edited by Steven W. Effler. Springer-Verlag: New York. p.453-493.
- Rowell, H. Chandler (1996) Paleolimnology of Onondaga Lake: the History of Anthropogenic Impacts on Water Quality. *Lake and Reservoir Management*. 12(1):35-45.

- Scott, W.B., and E.J. Crossman. (1979) *Freshwater Fishes of Canada*. Fisheries Research Board of Canada, Ottawa. 966 pp.
- Service Engineering Group (2002) *Data Gap Report*. St. Louis River/Interlake/Duluth Tar Site, Duluth Minnesota. Appendix GT2.
- Sheldon, R. B., and Boylen, C. W. (1977). Maximum depth inhabited by aquatic vascular plants. *American Midland Naturalist* 97, 248-254.
- Shine, R., G. P. Brown, and M. J. Elphick. (2004) Field experiments on foraging in free-ranging water snakes *Enhydryis polylepis* (Homalopsinae). Retrieved from <http://www.bio.usyd.edu.au/Shinelab/publications/reprints/418fiel dexps.pdf>.
- Short, H. L. (1985) Habitat suitability index models: Red-winged blackbird. *U.S. Fish Wildl. Serv. Biol. Rep.* 82 (10.95). 20 pp.
- Short, H. L. and R. J. Cooper. (1985) Habitat suitability index models: Great blue heron. *U.S. Fish Wildl. Serv. Biol. Rep.* 82 (10.99). 23 pp.
- Sibley, D.A. (2000) *National Audubon Society The Sibley Guide to Birds*. Chanticleer Press, Inc. New York
- Siniscal, A.C. (2009) *Characterization of the fish community of a recovering ecosystem, Onondaga Lake, New York*. MS thesis. State University of New York, College of Environmental Science and Forestry. Syracuse, NY. 108 pp.
- Sousa, P. J. (1985) Habitat suitability index models: Red-spotted newt. *U.S. Fish Wildl. Serv. Biol. Rep.* 82 (10.111). 18 pp.
- Spada, M.E., N.H. Ringler, S.W. Effler and D.A. Matthews (2002) Invasion of Onondaga Lake, New York, by the Zebra Mussel (*Dreissena polymorpha*) Following Reductions in N Pollution. *Journal of the North American Benthological Society* 21(4):634-650.
- Spencer, D.F. and G.G. Ksander. (2005) Root size and depth distribution for three species of submersed aquatic plants grown alone or in mixtures: Evidence for nutrient competition. *Journal of Freshwater Ecology* 20(1):109-116.
- Spencer, D.F., G.G. Ksander, J.D. Madsen, and C.S. Owens (2000) Emergence of vegetative propagules of *Potamogeton nodosus*, *Potamogeton pectinatus*, *Vallisneria americana*, and *Hydrilla verticillata* based on accumulated degree-days. *Aquatic Botany* 67:237-249
- Ste Marie among the Iroquois (2006) *Into the Unknown*. The Phoenix Press: Phoenix, New York.
- Stearns and Wheler (1994) *Onondaga Lake Cooperative Monitoring Program, 1992 Annual Report*.
- Stiles, W. (2001) *Personal communication via telephone conversation with Rebecca Quail, NYSDEC, regarding species of mammals and birds confirmed to be around Onondaga Lake*. NYSDEC, Albany, NY.

- Stuber, R. J., G. Gebhart, and O. E. Maughan. (1982a) Habitat suitability index models: Largemouth bass. U.S. Dept. Int. Fish Wildl. Serv. FWS/OBS-82/10.16. 32 pp.
- Stuber, R. J., G. Gebhart, and O. E. Maughan. (1982b) Habitat suitability index models: Bluegill. *U.S.D.I. Fish and Wildlife Service*. FWS/OBS-82/10.8. 26 pp.
- TAMS (2002a) *Onondaga Lake Remedial Investigation Report*. Onondaga Lake Project. Prepared for NYSDEC.
- TAMS (2002b) *Onondaga Lake, Baseline Ecological Risk Assessment*. Onondaga Lake Project. Volumes 1 and 2. Prepared for NYSDEC.
- TAMS (2003a) *Geddes Brook/Ninemile Creek Baseline Ecological Risk Assessment*. Prepared for NYSDEC.
- TAMS (2003b) *Geddes Brook/Ninemile Creek Remedial Investigation Report*. Prepared for NYSDEC.
- Tango, Peter J. and Neil H. Ringler (1996) The Role of Pollution and External Refugia in Structuring the Onondaga Lake Fish Community. *Lake and Reservoir Management* 12(1):81-90.
- Tango, P.J. (1999) *Fish community ecology of a hypereutrophic urban lake*. Ph.D. dissertation. SUNY College of Environmental Science and Forestry. Syracuse, NY.
- Taylor, Alan (1995) The Great Change Begins: Settling the Forest of Central New York. *New York History*. LXXV (3). Pp. 265-290.
- Terres, J. (1991) *The Audubon Society Encyclopedia of North American Birds*. Wings Books - Outlet Book Company, Inc. New York, New York.
- TES (2003) *Wetland Delineation Report: Lower Reach of Ninemile Creek and Geddes Brook at the West Flume*. Town of Geddes, Onondaga County, New York. Prepared for Parsons.
- Thiebaut, G. 2005. Does competition for phosphate supply explain the invasion pattern of *Elodea* species? *Water Research* 39:3385-3393.
- Thom, R.M. and K.F. Wellman (1996) *Planning aquatic ecosystem restoration monitoring programs, IWR Report 96-R-23*. Prepared for Institute for Water Resources, U.S. Army Corps of Engineers, Alexandria, Virginia and Waterways Experimental Station, U.S. Army Corps of Engineers, Vicksburg, Mississippi.
- USACE (1987) *Field Guide for Wetland Delineation*. Prepared by Wetland Training Institute, Inc. Glenwood, NM.
- USSCS (1977) *Soil Survey of Onondaga County, New York*. United States Department of Agriculture.
- USEPA (1977) *Clean Water Act*.
- USEPA (1985) *Policy on Floodplains and Wetlands Assessment for CERCLA Actions*.

- USEPA (2008) Wetland Restoration and Creation Completes Remedy Construction Near Buzzards Bay. *Technology News and Trends*. Issue 39, December.
- USEPA (n.d.) Species Profile: Great Blue Heron. Retrieved from [http://www.epa.gov/NE/ge/thesite/restofriver/reports/final\\_era/B%20-%20Focus%20Species%20Profiles/EcoRiskProfile\\_great\\_blue\\_heron.pdf](http://www.epa.gov/NE/ge/thesite/restofriver/reports/final_era/B%20-%20Focus%20Species%20Profiles/EcoRiskProfile_great_blue_heron.pdf).
- USFWS (1978) *National Wetland Inventory Map*.
- USFWS (1983) *Biology Report 82 (10.127)* Page 23. October 1983.
- USFWS (2009) *National Wetlands Inventory, Wetlands Mapper*.
- USFWS (2007) *Indiana Bat (Myotis sodalis) Draft Recovery Plan: First Revision*. U.S. Fish and Wildlife Service, Fort Snelling, Minnesota. 258 pp.
- University of Michigan Museum of Zoology. (2006) Animal Diversity Web - Osprey. Retrieved from [http://animaldiversity.ummz.umich.edu/site/accounts/information/Pandion\\_haliaetus.html](http://animaldiversity.ummz.umich.edu/site/accounts/information/Pandion_haliaetus.html)
- University of Michigan Museum of Zoology. (2006) Animal Diversity Web - Spotted Salamander, Mudpuppy, Northern Leopard Frog, Wood Frog and Green Frog. Retrieved from <http://animaldiversity.ummz.umich.edu/site/index.html>.
- University of Michigan Museum of Zoology. (2006) Animal Diversity Web - Common Musk turtle. Retrieved from [http://animaldiversity.ummz.umich.edu/site/accounts/information/Sternotherus\\_odoratus.html](http://animaldiversity.ummz.umich.edu/site/accounts/information/Sternotherus_odoratus.html).
- University of Michigan Museum of Zoology. (2006) Animal Diversity Web - Snapping turtle. Retrieved from [http://animaldiversity.ummz.umich.edu/site/accounts/information/Chelydra\\_serpentina.html](http://animaldiversity.ummz.umich.edu/site/accounts/information/Chelydra_serpentina.html).
- USDA Forest Service Species Database; retrieved from <http://www.fs.fed.us/database/feis/animals/mammal/luca/all.html>.
- Vana-Miller, S. L. (1987) Habitat suitability index models: osprey. *U.S. Fish Wildl. Serv. Biol. Rep.* 82 (10.154). 46 pp.
- Vandruff, L.W., and M.A. Pike (1992) *Wildlife and Habitats of the Onondaga Lake Area*. State University of New York, Environmental Science and Forestry. Syracuse, NY.
- Vanner, M. (2005) *The Complete Encyclopedia of North American Birds*. Parragon Publishing. Bath, United Kingdom.
- Voshell, J. Reese, Jr. (2002) *A Guide to Common Freshwater Invertebrates of North America*. McDonald & Woodward Publishing Company, Blacksburg, VA.

- Warkentin, K. M. (1992) Effects of Temperature and Illumination on Feeding Rates of Green Frog Tadpoles (*Rana clamitans*). Retrieved from [http://links.jstor.org/sici?sici=0045-8511\(19920818\)3%3A1992%3A3%3C725%3AEOTAIO%3E2.O.CO%3B2-O](http://links.jstor.org/sici?sici=0045-8511(19920818)3%3A1992%3A3%3C725%3AEOTAIO%3E2.O.CO%3B2-O).
- Watson, W.C., Editor (1856) *Memoirs of Elkanah Watson*. Dana and Company: New York.
- Webster, D.A. (1982) Early History of the Atlantic Salmon in New York. *New York Fish Game Journal* 29:26-44.
- Weisner, S. E. B. (1991) Within-lake patterns in depth penetration of emergent vegetation. *Freshwater Biology* 26:133-142.
- Wiegand, K. M. and A. J. Eames. (1926) *The Flora of the Cayuga Lake Basin, New York*. Cornell University, Agricultural Experiment Station, Memoranda No. 92, Ithaca, NY.
- Wigand, C., J.C. Stevenson, and J.D. Cornwell. (1997) Effects of different submersed macrophytes on sediment biogeochemistry. *Aquatic. Boonyt.* 56:233-244.
- Wiley, M.J., P.D. Tazik, S.T. Sobaski (1987) *Controlling aquatic vegetation with triploid grass carp*. Circular 57, Illinois Natural History Survey, Champaign, IL.
- Wurth, G. C. (1934) *Studies on the Vegetation of the Syracuse Salt Flats*. Master Thesis. Graduate School of Syracuse University; Syracuse, New York.
- Young, S. M. and T. W. Weldy. (eds). (2007) New York Rare Plant Status List: June 2007. New York Natural Heritage Program. Albany, New York.
- Young, Steve. (2007). Personal communication between Steve Young and Joe McMullen, TES.
- Young, Stephen M. (2000) *The Loss of the Onondaga Lake Salt Marshes*. Poster presented at the New York Natural History Conference, Albany, New York. New York Natural Heritage Program, Albany, NY 12233-4757.

## **Appendix A**

### **Amphibians and Reptiles Recorded in the Vicinity of Onondaga Lake, Onondaga County, New York**

**APPENDIX A**

**AMPHIBIANS AND REPTILES RECORDED  
IN THE VICINITY OF ONONDAGA LAKE,  
ONONDAGA COUNTY, NEW YORK**

<b>SALAMANDERS</b>		<b>ATLAS<sup>(b)</sup></b>	<b>STATUS<sup>(c)</sup></b>
<b>Standard English Name<sup>(a)</sup></b>	<b>Scientific Name</b>		
Common Mudpuppy	<i>Necturus maculosus</i>	ADJ	
Jefferson Salamander	<i>Ambystoma jeffersonianum</i>	ADJ	SPEC
Blue-spotted Salamander	<i>Ambystoma laterale</i>	ADJ	SPEC
Spotted Salamander	<i>Ambystoma maculatum</i>	IN	
Red-spotted Newt	<i>Notophthalmus v. viridescens</i>	IN	
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	IN	
Allegheny Mountain Dusky Salamander	<i>Desmognathus ochrophaeus</i>	IN	
Northern Red-backed Salamander	<i>Plethodon cinereus</i>	IN	
Northern Slimy Salamander	<i>Plethodon glutinosus</i>	IN	
Four-toed Salamander	<i>Hemidactylium scutatum</i>	ADJ	
Northern Spring Salamander	<i>Gyrinophilus p. porphyriticus</i>	ADJ	
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	IN	

<b>TOADS AND FROGS</b>		<b>ATLAS<sup>(b)</sup></b>	<b>STATUS<sup>(c)</sup></b>
<b>Standard English Name<sup>(a)</sup></b>	<b>Scientific Name</b>		
Eastern American Toad	<i>Bufo a. americanus</i>	IN	
Gray Treefrog	<i>Hyla versicolor</i>	IN	
Northern Spring Peeper	<i>Pseudacris c. crucifer</i>	IN	
American Bullfrog	<i>Rana catesbeiana</i>	IN	
Northern Green Frog	<i>Rana clamitans melanota</i>	IN	
Wood Frog	<i>Rana sylvatica</i>	IN	
Northern Leopard Frog	<i>Rana pipiens</i>	IN	
Pickerel Frog	<i>Rana palustris</i>	ADJ	

<sup>(a)</sup> Common and scientific names according to Crother (2000), and updates through 2003.

Crother, B. I. (2000) Scientific and standard English names of amphibians and reptiles of North America north of Mexico, with comments regarding confidence in our understanding. *Soc. Stud. Amph. Rept.* St. Louis. Circular 29.

<sup>(b)</sup> NY Herpetological Atlas records (1990-1999). IN = Recorded in Camillus or Syracuse West Quadrangles, ADJ = Recorded in one or more of 10 adjacent quadrangles. (<http://www.dec.ny.gov/animals/7140.html> accessed 11-01-09)

<sup>(c)</sup> NY State Listed: END = Endangered, THR = Threatened, SPEC = Special Concern.

<sup>(d)</sup> The status column is left blank if a species is not listed.

<b>TURTLES</b>			
<b>Standard English Name<sup>(a)</sup></b>	<b>Scientific Name</b>	<b>ATLAS<sup>(b)</sup></b>	<b>STATUS<sup>(c)</sup></b>
Eastern Snapping Turtle	<i>Chelydra s. serpentina</i>	IN	
Stinkpot	<i>Sternotherus odoratus</i>	IN	
Spotted Turtle	<i>Clemmys guttata</i>	ADJ	SPEC
Wood Turtle	<i>Glyptemys insculpta</i>	IN	SPEC
Redbellied Cooter	<i>Pseudemys rubiventris</i>	IN	
Eastern Painted Turtle	<i>Chrysemys p. picta</i>	ADJ	
Midland Painted Turtle	<i>Chrysemys picta marginata</i>	IN	

<b>SNAKES</b>			
<b>Standard English Name<sup>(a)</sup></b>	<b>Scientific Name</b>	<b>ATLAS<sup>(b)</sup></b>	<b>STATUS<sup>(c)</sup></b>
Northern Watersnake	<i>Nerodia s. sipedon</i>	IN	
Northern Brownsnake	<i>Storeria d. dekayi</i>	IN	
Northern Red-bellied Snake	<i>Storeria o. occipitamaculata</i>	IN	
Common Gartersnake	<i>Thamnophis sirtalis</i>	IN	
Eastern Hog-nosed Snake	<i>Heterodon platirhinos</i>	ADJ	SPEC
Northern Ring-necked Snake	<i>Diadophis punctatus edwardsii</i>	IN	
Smooth Greensnake	<i>Opheodrys vernalis</i>	ADJ	
Eastern Ratsnake	<i>Elaphe spiloides</i>	IN	
Eastern Milksnake	<i>Lampropeltis t. triangulum</i>	IN	
Eastern Massasauga	<i>Sistrurus c. catenatus</i>	ADJ	END

## **Appendix B**

### **New York State Breeding Birds Atlas Results**

#### **Map**

List of Species Breeding in Atlas Block 3977C

List of Species Breeding in Atlas Block 39770

List of Species Breeding in Atlas Block 3976B

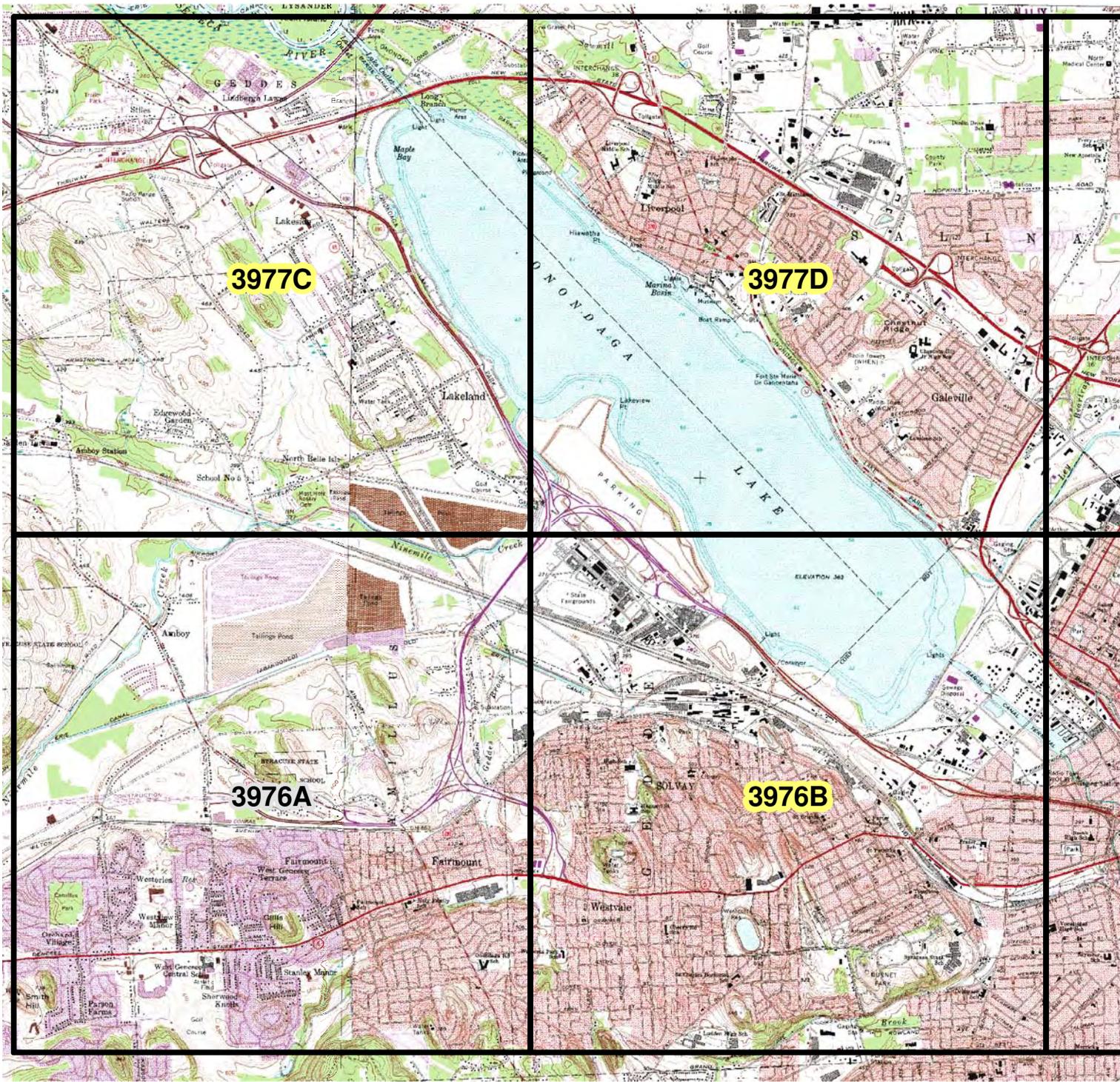


FIGURE 1



LEGEND

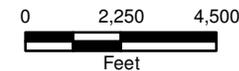
 ATLAS BLOCK

- NOTES:  
 1. BLOCKS HIGHLIGHTED IN YELLOW HAVE DATA REFERENCED IN THIS REPORT.  
 2. ATLAS BLOCKS APPROXIMATED FROM "NEW YORK STATE BREEDING BIRD ATLAS 2000 [INTERNET]."

HONEYWELL  
 ONONDAGA LAKE  
 SYRACUSE, NEW YORK

NEW YORK STATE  
 BREEDING BIRD  
 ATLAS

2000-2005



MAY 2009  
 1163.43776

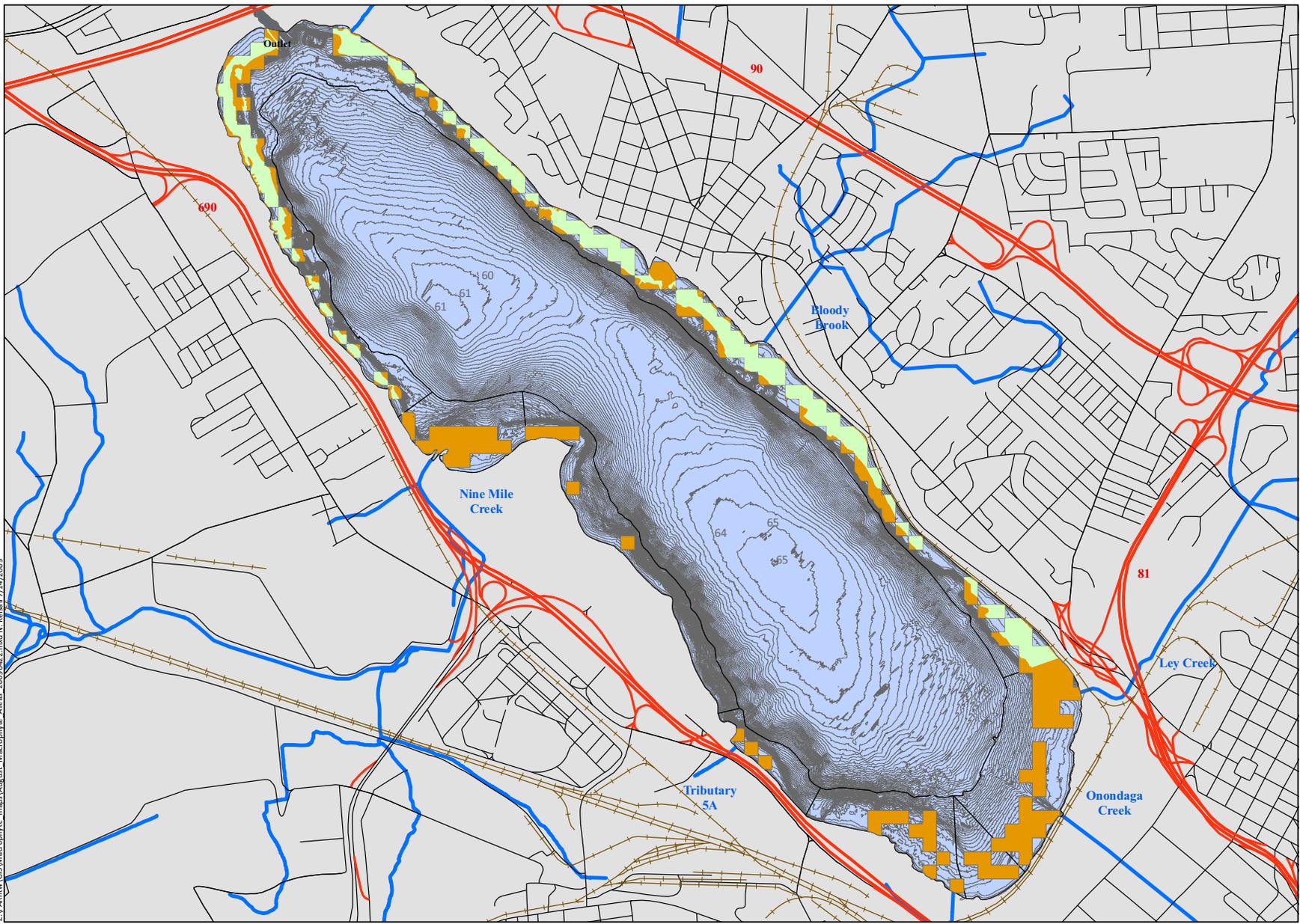


## **Appendix C**

### **Macrophyte Coverage Figures from the Habitat Preliminary Design Investigation Report**



Z:\PARhtw\GIS\Map\Map\August\_Macrophyte\_Areas\_2008\022.mxd N. Kellogg 7/14/2009



LOCATOR



SCALE



LEGEND

- Total Macrophyte Distribution**
- SMU 5 2-7 ft
  - All areas
  - SMU Boundaries
  - Lake Contours (ft)
  - Railroad
  - Road
  - Highway/Interstate
  - Tributaries

*Note: The macrophyte sample grid was clipped to the 7-m depth contour. Macrophytes were sampled at the center of the grid cell.*

**Figure 17.**  
 Macrophyte distribution  
 in Onondaga Lake:  
 August 2008.  
 Honeywell Inc./PARhtw:141  
 July 14, 2009

