

U.S. Fish and Wildlife Service documents, published studies, and scholarly presentations from the Green Bay natural resource damage assessment.

Document Type	Title
Agency index	FWS. 2008a. Green Bay natural resource damage assessment reading room index of documents.
Agency index	FWS. 2008b. Green Bay natural resource damage assessment reading room index of documents.
Agency index	FWS. 2008c. Green Bay natural resource damage assessment reading room index of documents.
Agency planning	FWS. 1994. Preassessment screen and determination, Lower Fox River and Green Bay, Wisconsin.
Agency planning	FWS. 1996. Assessment plan: Lower Fox River/Green Bay NRDA.
Agency planning	FWS. 1997. Assessment plan addendum: Lower Fox River/Green Bay NRDA.
Agency planning	FWS. 1998a. Lower Fox River/Green Bay NRDA initial restoration and compensation determination plan.
Agency planning	FWS. 2000a. Lower Fox River/Green Bay NRDA, third assessment plan addendum.
Agency determination	FWS. 1998b. Fish consumption advisories in the Lower Fox River/Green Bay assessment area.
Agency determination	FWS. 1999a. PCB pathway determination for the Lower Fox River/Green Bay natural resource damage assessment.
Agency determination	FWS. 1999b. Injuries to avian resources, Lower Fox River/Green Bay natural resource damage assessment.
Agency determination	FWS. 1999c. Injuries to fishery resources, Lower Fox River/Green Bay natural resource damage assessment.
Agency determination	FWS. 1999d. Injuries to surface water resources, Lower Fox River/Green Bay natural resource damage assessment.

Agency determination	FWS. 1999e. Recreational fishing damages from fish consumption advisories in the waters of Green Bay.
Agency determination	FWS. 2000b. Restoration and compensation determination plan, Lower Fox River/Green Bay natural resource damage assessment.
Agency settlement or resolution	DOJ. 2019. \$0.5 million natural resource damages settlement with P.H Glatfelter Company.
Agency settlement or resolution	DOJ. 2015. Withdrawal of claim for natural resource damages.
Agency settlement or resolution	DOJ. 2014a. \$46 million natural resource damages settlement with Menasha Corp., Wisconsin Tissue Mills, U.S. Paper, City of Appleton, Neenah-Menasha Sewerage Commission, and State of Wisconsin.
Agency settlement or resolution	DOJ. 2014b. \$0.25 million natural resource damages settlement with Kimberly-Clark.
Agency settlement or resolution	DOJ. 2014c. \$0.25 million natural resource damages settlement with NewPage Wisconsin System.
Agency settlement or resolution	DOJ. 2010. \$4.44 million natural resource damages settlement with Brown County, City of Green Bay, and federal agencies.
Agency settlement or resolution	DOJ. 2009a. \$0.52 million natural resource damages settlement with 12 de minimis parties.
Agency settlement or resolution	DOJ. 2009b. \$0.04 million natural resource damages settlement with City of De Pere and George Whiting Company.
Agency settlement or resolution	DOJ. 2003. \$4.2 million natural resources damages settlement with Wisconsin Tissue Mills and P.H. Glatfelter.
Agency settlement or resolution	DOJ. 2002. \$16.4 million natural resources damages settlement with Fort James and Georgia Pacific.
Agency settlement or resolution	DOJ. 2001. \$34.3 million natural resource damages settlement (\$40 million total settlement) with Appleton Papers and NCR.

Agency settlement or resolution	FWS. 2016. Lower Fox River and Green Bay natural resource damage assessment and restoration, update to the restoration plan and environmental assessment.
Agency settlement or resolution	FWS 2013. Restoration progress report for the Lower Fox River and Green Bay natural resource damage assessment.
Agency settlement or resolution	FWS. 2003. Joint restoration plan and environmental assessment for the Lower Fox River and Green Bay area.
Published paper	Allen II, P. D. 2009. Valuing natural resource damages: how to use empirical data and estimation techniques to build positions, claims, and leverage. Proceedings of the 38th Annual Conference on Environmental Law. American Bar Association, Section of Environment, Energy, and Resources.
Published book chapter	Allen II, P.D., D.J. Chapman, and D. Lane. 2005. Scaling environmental restoration to offset injury using habitat equivalency analysis. Chapter 8 in <i>Economics and Ecological Risk Assessment, Applications to Watershed Management</i> , R.J.F. Bruins and M.T. Heberling (eds.). CRC Press, Boca Raton, FL, pp. 165-184.
Published paper	Allen, D. and J. Lipton. 2002. Environmental restoration through natural resource damage assessments. <i>Southwest Hydrology</i> 1(4):12-13.
Published paper	Barron, M. G., et al. 2000. PCBs, liver lesions, and biomarker responses in adult walleye (<i>Stizostedium vitreum vitreum</i>) collected from Green Bay, Wisconsin. <i>Journal of Great Lakes Research</i> 26.3 (2000) 250-271.
Published paper	Breffle, W. S., E. R. Morey, and J. A. Thacher. 2011. A joint latent-class model: combining Likert-scale preference statements with choice data to harvest preference heterogeneity. <i>Environ. Resource Econ.</i> 50:83-110.
Published book chapter	Breffle, W. S., et al. 2006. Combining stated-choice and stated-frequency data with observed behavior to value natural resource damage assessment compensable damages: Green Bay, PCBs, and Fish Consumption Advisories. <i>Handbook on Contingent Valuation</i> (2006) 371.
Published paper	Breffle, W. S., and R. D. Rowe. 2002. Comparing choice question formats for evaluating natural resource tradeoffs. <i>Land Economics</i> 78.2 (2002) 298-314.
Published paper	Cacela, D., D. J. Beltman, and J. Lipton. 2002. PCB source attribution in Green Bay, Wisconsin, USA, using multivariate similarity among congener profiles in sediment samples. <i>Environmental toxicology and chemistry</i> 21.8 (2002) 1591-1599.
Published paper	Custer, T. W., C. M. Custer, R. H. Hines, S. Gutreuter, K. L. Stromborg, P. D. Allen, and M. J. Melancon. 2001. Reply to letter to the editor by de Voogt et al. <i>Environmental Toxicology and Chemistry</i> 20:1149-1151.

Published paper	Custer, T. W., C. M. Custer, R. H. Hines, K.L. Stromborg, P. D. Allen, M. J. Melancon, and D. S. Henshel. 2001. Organochlorine contaminants and biomarker response in double-crested cormorants nesting in Green Bay and Lake Michigan, Wisconsin, USA. <i>Archives of environmental contamination and toxicology</i> 40.1 (2001) 89-100.
Published paper	Custer, T. W., C. M. Custer, R. K. Hines, S. Gutreuter, K. L. Stromborg, P. D. Allen, and M. J. Melancon. 1999. Organochlorine contaminants and reproductive success of double-crested cormorants from Green Bay, Wisconsin, USA. <i>Environmental Toxicology and Chemistry</i> 18.6 (1999) 1209-1217.
Published paper	Custer, C. M., T. W. Custer, P. D. Allen, K. L. Stromborg, and M. J. Melancon. 1998. Reproduction and environmental contamination in tree swallows nesting in the Fox River drainage and Green Bay, Wisconsin, USA. <i>Environmental Toxicology and Chemistry</i> 17.9 (1998) 1786-1798.
Published paper	Custer, T. W., C. M. Custer, and K. L. Stromborg. 1997. Distribution of organochlorine contaminants in double-crested cormorant eggs and sibling embryos. <i>Environmental toxicology and chemistry</i> 16.8 (1997) 1646-1649.
Published paper	Dykstra, C. R., et al. 2001. Association of low reproductive rates and high contaminant levels in bald eagles on Green Bay, Lake Michigan. <i>Journal of Great Lakes Research</i> 27.2 (2001) 239-251.
Published paper	Larson, J. M., et al. 1996. Reproductive success, developmental anomalies, and environmental contaminants in double-crested cormorants (<i>Phalacrocorax auritus</i>). <i>Environmental Toxicology and Chemistry</i> 15.4 (1996) 553-559.
Published book chapter	Lazo, J. K., P. D. Allen II, R. C. Bishop, D. Beltman, and R. D. Rowe. 2005. Determining economic trade-offs among ecological services: planning for ecological restoration in the Lower Fox River and Green Bay. Chapter 14 in <i>Economics and Ecological Risk Assessment, Applications to Watershed Management</i> , R.J.F. Bruins and M.T. Heberling (eds.). CRC Press, Boca Raton, FL, pp. 371-399.
Published paper	Morey, E. R., and W. S. Breffle. 2006. Valuing a change in a fishing site without collecting characteristics data on all fishing sites: a complete but minimal model. <i>American Journal of Agricultural Economics</i> 88.1 (2006) 150-161.
Published paper	Morey, E. R., J. Thacher, and W. Breffle. 2005. Using angler characteristics and attitudinal data to identify environmental preference classes: a latent-class model. <i>Environmental & Resource Economics</i> 34: 91-115.
Published paper	Powell, D. C., et al. 1998. Effects of 3, 3', 4, 4', 5-pentachlorobiphenyl and 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin injected into the yolks of double-crested cormorant (<i>Phalacrocorax auritus</i>) eggs prior to incubation. <i>Environmental toxicology and chemistry</i> 17.10 (1998) 2035-2040.
Published paper	Powell, D. C., et al. 1998. A photographic guide to the development of double-crested cormorant embryos. <i>Colonial Waterbirds</i> (1998) 348-355.

Published paper	Powell, D. C., et al. 1997. Effects of 3, 3', 4, 4', 5-pentachlorobiphenyl (PCB 126), 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin (TCDD), or an extract derived from field-collected cormorant eggs injected into double-crested cormorant (<i>Phalacrocorax auritus</i>) eggs. <i>Environmental toxicology and chemistry</i> 16.7 (1997) 1450-1455.
Published paper	Powell, D. C., et al. 1997. Organochlorine contaminants in double-crested cormorants from Green Bay, Wisconsin: II. Effects of an extract derived from cormorant eggs on the chicken embryo. <i>Archives of environmental contamination and toxicology</i> 32.3 (1997) 316-322.
Published paper	Powell, D. C., et al. 1996. Effects of 3, 3', 4, 4', 5-pentachlorobiphenyl (PCB 126) and 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin (TCDD) injected into the yolks of chicken (<i>Gallus domesticus</i>) eggs prior to incubation. <i>Archives of environmental contamination and toxicology</i> 31.3 (1996) 404-409.
Published paper	Powell, D. C., et al. 1996. Effects of 3, 3', 4, 4'-tetrachlorobiphenyl, 2, 3, 3', 4, 4'-pentachlorobiphenyl, and 3, 3', 4, 4', 5-pentachlorobiphenyl on the developing chicken embryo when injected prior to incubation. <i>Journal of toxicology and environmental health</i> 49.3 (1996) 319-338.
Published paper	Powell, D. C., et al. 1996. Incubation of double-crested cormorant eggs (<i>Phalacrocorax auritus</i>). <i>Colonial Waterbirds</i> (1996) 256-259.
Published paper	Tillitt, D. E., et al. 2005. Thiamine and thiaminase status in forage fish of salmonines from Lake Michigan. <i>Journal of Aquatic Animal Health</i> 17.1 (2005) 13-25.
Scholarly presentation	Allen, P. D, J. Lipton, and D. Beltman. 2005. A Comprehensive review of field studies on PCB impacts to birds in Green Bay, Lake Michigan, USA. Presented at the 12th Annual Conference of The Wildlife Society, Madison, WI, September.
Scholarly presentation	Allen II, P. D. 2003. The Green Bay natural resource damage assessment: opening significant environmental cases by the government to public and scientific scrutiny. Presented at the Tenth Annual Meeting of The Wildlife Society, Burlington, VT. September 10.
Scholarly presentation	Allen, P. D. 1999. The Intergovernmental Partnership, the Green Bay NRDA, and the PCB release and pathway Evidence. Presented to the National Academy of Science, National Research Council, River Dredging Committee, Green Bay, WI, September.
Scholarly presentation	Allen, P. D. 1999. How NRDA can achieve RAP, LaMP, and IJC Goals, with the Green Bay NRDA as an example. Presented to the International Joint Commission, Science Advisory Board, Milwaukee, WI, September.
Scholarly presentation	Allen, P. D. 1998. The Green Bay NRDA and why CERCLA liability makes sense for the private sector. Presented to the Appleton Rotary, Appleton, WI, October.
Scholarly presentation	Allen, P. D. 1998. History of investigations in Green Bay leading to the Green Bay NRDA. Presented to the Wisconsin Academy of Arts, Sciences, and Letters, De Pere, WI, May.

Scholarly presentation	Allen, P. D., 1998. Key elements of the Green Bay NRDA. Presented to the Green Bay Chamber of Commerce, Green Bay, WI, April.
Scholarly presentation	Allen, P. D. and K. Stromborg. 1994. The Applicability of the NRDA program and the Green Bay NRDA to ecosystem management. Presented to the White House Ecosystem Management Committee, Chicago, IL, August.
Scholarly presentation	Allen, P. D. 1993. The NRDA program and potential applicability at sites like Fox River/Green Bay. Presented to the Society of Environmental Toxicology and Chemistry, Midwest Chapter, Twin Cities, MN, March.
Scholarly presentation	Anderson, M. et al. 1999. Association between PCBs, liver lesions, and biomarker response in adult walleye (<i>Stizostedium vitreum vitreum</i>) collected from Green Bay. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Philadelphia, PA, November 14-18.
Scholarly presentation	Beltman, D. J., P. David Allen II, J. Lipton, and D. Mills. 2001. Environmental Restoration of PCB Injuries in Green Bay, Lake Michigan, USA. Presented at SETAC-Europe, Madrid, Spain, May 6-10.
Scholarly presentation	Beltman, D., J. Lipton, and S. Bickel. 2000. Evaluation of adverse effects of PCB exposure on fish health and reproduction in Green Bay, Lake Michigan. Presented at the 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN, November 12-16.
Scholarly presentation	Beltman, D., J. Lipton, D. Cacela, and S. Bickel. 1999. Spatial and temporal PCB patterns in Green Bay, Wisconsin. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Philadelphia, PA, November 14-18.
Scholarly presentation	Cacela, D., D. Beltman. and J. Lipton. 1998. Determining similarity among PCB congener profiles from sediment samples using a simple multivariate distance sample. Presented at the 19th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Charlotte, NC, November 15-19.
Scholarly presentation	Cacela, D. D. Beltman, and J. Lipton. 1998. Using PCB congener patterns to identify PCB sources. Presented at the 19th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Charlotte, NC, November 15-19.
Scholarly presentation	Lipton, J., A. Grêt, D. Cacela, and D. J. Beltman. 2001. Evaluation of biomarker responses of smallmouth bass collected from a PCB-contaminated river. Presented at 11th Annual Meeting of SETAC-Europe, Madrid, Spain. May 6-10.