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Hudson River Natural Resource Damage Assessment

Hudson River Natural Resource Damage Assessment Links

In coordination with the EPA's Hudson River Reassessment, the Hudson River Natural Resource Trustees - the United States Department of the Interior (DOI), the National Oceanic and Atmospheric Administration (NOAA), and the New York State Department of Environmental Conservation (NYSDEC) - are conducting a Natural Resource Damages Assessment (NRDA) associated with General Electric's PCB contamination of the Hudson River below Hudson Falls.

The process has its origins in the natural resource damages (NRD) provisions of the Comprehensive Environmental

Page Applies To:



Related Links:

[NRDA Plan - Summary Factsheets \(pdf, 200 Kb\)](#)

[NRDA - 2003 Fact Sheet Update \(pdf, 33 Kb\)](#)

[NRDA - Quality Assurance Plan \(pdf, 325 Kb\)](#)

[NRDA - Analytic Quality Assurance Plan \(pdf, 398 Kb\)](#)

[NRDA Public Participation Plan - Phase I \(pdf, 248 Kb\)](#)

[NRDA Public Participation Plan - Phase II \(pdf, 451 Kb\)](#)

[Public Availability Sessions for the NRDA Plan \(pdf, 71 Kb\)](#)

[Restoration Proposal Form \(pdf, 6 Kb\)](#)

[Statewide NRD](#)

Response, Compensation and Liability Act, also known as CERCLA or the federal Superfund law.

The overall purpose of these NRD provisions is to compensate the public for natural resource losses they have suffered from the release of hazardous substances by restoring the injured resources and by enhancing natural resources and their use by people. Compensation may be in the form of monetary damages or, preferably, in actual restoration projects. The trustees have been and will continue following the Federal Regulations for Natural Resource Damages Assessments (43 CFR Part 11) to guide this process.

For additional offsite information from DEC co-trustees please see the links listed on the right column of this page under offsite links.

This page contains links to documents that outline the NRDA process as well as the studies conducted to support the natural resource damage assessment case ([Studies of the Assessment](#)). A complete description of the process can be found in the [Hudson River Natural Resource Damage Assessment - Description of Process](#).

Recent Additions- What's New

[Organochlorine and Metal Contamination of Hudson River Aquatic Insects](#) (PDF, 984 Kb)

Offsite Links:

[National Oceanic and Atmospheric Administration \(NOAA\)](#)

[United States Department of the Interior \(DOI\)](#)

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Contact for this Page:

Division of Fish, Wildlife and Marine Resources
625 Broadway
Albany, New York
12233-4756
518-402-8971

[Surface Water Injury Report 2008 \(1Mb, PDF\)](#) Injury Determination Report for Hudson River Surface Water Resources

[Sediment Factsheet 2008 \(PDF version, 88 Kb\)](#) Sediment Toxicity Study for the Hudson River NRDA

[Study Plan for Waterfowl Injury Assessment 2008 \(PDF, 1.12 Mb\)](#)

[Responsiveness Summary \(PDF, 157 Kb\)](#) Waterfowl Study Plan 2008 Public Responsiveness Summary

The NRDA Process: Screening and Assessment

[Hudson River Natural Resource Damage Assessment - Description of the Process](#)

[Facts about the Natural Resource Damage Assessment Process for the Hudson River](#)

[Summary of the Hudson River Preassessment Screen](#)

[Frequently Asked Questions about Hudson River Preassessment Screen](#)

[Draft Scope for the Hudson River Natural Resource Damages Assessment Plan](#)

[Response to Public Comments on the Draft Scope for the Hudson River Natural Resource Damages Assessment Plan June 1999](#)

[January 2000 Letter to Citizens Regarding Restoration Ideas for the Hudson River](#)

[Summary of the Draft Scope for the Hudson River Natural Resource Damage Assessment Plan](#)

[Response to Public Comments on the Draft Scope for the Hudson River Natural Resource Damage](#)

[Assessment Plan](#)

[Hudson River Natural Resource Damage
Assessment Plan](#)

[Invitation Letter to the Public](#)

Fact Sheets

[Preliminary Investigations for Frogs and
Sediments 2004](#)

Preassessment Screen

[Avian Investigations for the Hudson
River NRDA 2006](#)

[Preassessment Screen Determination
for the Hudson River](#)

Studies of the Assessment

[Assessment Studies](#)

[Preliminary Investigations of PCBs in
Hudson River Bats](#)

[Mink Investigations for the Hudson River
NRD- Fact Sheet 2006](#)

[Sediment Toxicity Pilot Study for the
Hudson River NRDA](#)

[2001 Status Report Fish Health](#)

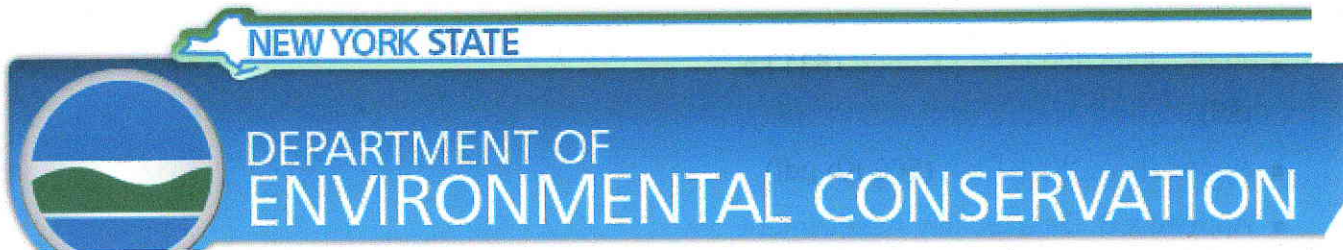
[2007 Amphibian Fact Sheet](#)

[2002 Fact Sheet - Preliminary
Investigations of Bird Injuries](#)

[Waterfowl Investigations 2007-2008](#)

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Assessment Studies

The Hudson River Natural Resource Damages unit has a number of studies which have been completed or which are under consideration:

Avian Studies

Fact Sheets:

[Spring 2002 Fact Sheet \(pdf version, 61 Kb\)](#) on the Status of the Hudson River Natural Resource Damages Assessment Preliminary Investigations of Bird Injuries
[December 2006 Fact Sheet \(pdf version, 68 Kb\)](#) Avian Investigations for the Hudson River Natural Resource Damages Assessment

Screening Level Studies:

Data Report For The Collection Of Eggs From Spotted Sandpipers, American Woodcock, Belted Kingfisher, American Robin, Red-Winged Blackbird, And Eastern Phoebe Associated With The Hudson River From Hudson Falls To Schodack Island, New York.

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[National Oceanic and Atmospheric Administration \(NOAA\)](#)

[United States Department of the Interior \(DOI\)](#)

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Division of Fish, Wildlife and Marine Resources
 625 Broadway
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 12233-4756
 518-402-8971
[email us](#)

- [April - June 2002 Data Report \(531 kb pdf\)](#)
- [Appendix A: Work Plan \(560 Kb pdf\)](#)
- [Appendix B: Data Quality Assessment Report \(362 Kb pdf\)](#)
- [Appendix C: Data Sheets \(1.2 Mb pdf\)](#)

Work Summary And Data Report for the Collection Of Eggs From American Peregrine Falcon, Hudson River, New York.

[May, June 2002 Data Report \(268 kb pdf\)](#)

The Collection Of Eggs From Eastern Screech Owl Associated With The Hudson River From Hudson Falls To Schodack Island, New York

[April-May 2003 Data Report \(833 Kb pdf\)](#)

Injury Investigations with USGS:

Avian Investigations For The Hudson River Hudson River Natural Resource
June 15, 2004

- [Study Plan For Year 2004 \(1.43 Mb pdf\)](#)
- Appendix A (1.14 Mb pdf) This appendix is available on request in hardcopy or can be obtained as part of the complete document from the USFWS or NOAA websites. (please see offsite links on the right side of this page).
- Appendix A - Technical Operating Procedures (565 Kb pdf) This appendix is available on request in hardcopy or can be obtained as part

of the complete document from the USFWS or NOAA websites (please see offsite links on the right side of this page).

[Responsiveness Summary For The Study Plan For Year 2004 \(195 Kb pdf \)](#)
Avian Investigations Hudson River
Hudson River Natural Resource Damage
Assessment

[2005 Modification To Study Plan \(297 Kb pdf\)](#)For Avian Investigations For The Hudson River Usgs Study Plan Amendment For 2005 Hudson River Natural Resource Damage Assessment

[2006 Modification To Study Plan \(104 Kb pdf\)](#) For Avian Investigations For The Hudson River Usgs Study Plan Amendment.

Egg Injection Studies:

Design And Preparation Of A Custom 58-Congener Pcb Mixture Dosing Solution For Avian Egg Injection Studies

- [Report \(175 Kb pdf\)](#)
- [Attachments: Certificate of Analysis \(654 Kb pdf\)](#)
- [Attachments: Certificate of Analysis cont'd \(923 Kb pdf\)](#)

[2006 draft Study Plan for Avian Egg Injection Study \(596 Kb pdf\)](#)

2006 Study Plan For Avian Egg Injection Study

- [2006 Study Plan For Avian Egg](#)

[Injection Study Report and Appendices \(536 Kb pdf\)](#)

- [2006 Study Plan For Avian Egg Injection Study Certificate of Analysis \(1.61 Mb pdf\)](#)

[2006 Responsiveness Summary For The Avian Egg Injection Study \(183 kb\) Plan Hudson River Natural Resource Damage Assessment Hudson River Natural Resource Trustees](#)

[Revised 2006 Study Plan For Avian Egg Injection Study Hudson River Natural Resource Damage Assessment](#)

- [Revised 2006 Study Plan For Avian Egg Injection Study Report \(196 kb pdf\)](#)
- [Appendix A \(399 kb pdf\)](#)
- [Appendix B \(195 kb pdf\)](#)
- [Attachments: Certificate of Analysis \(1061 kb pdf\)](#)
- [\(566 kb pdf\)](#)

[2007 Study Plan for Avian Injury Study Amendment for Year 2 \(399 Kb pdf\)](#)

Waterfowl Study:

[Draft Study Plan Waterfowl Injury Assessment Plan PCBs in Hudson River Resident Waterfowl \(41 Kb pdf\)](#)

[Waterfowl Investigations 2007-2008 \(pdf version 84 Kb\)](#)

Amphibian and Reptile Studies

Fact Sheets:

[Spring 2004 Amphibian Fact Sheet \(pdf version 125 Kb\)](#)
[2007 Amphibian Fact Sheet \(pdf version 120 Kb\)](#)

Screening Level Studies:

[Tadpoles: 2004 Data report \(1.4 Mb, pdf\)](#). The accumulation of sedimentary PCBs in bullfrog (*Rana catesbeiana*) tadpoles from the Upper Hudson River

Snapping Turtle Egg Report:

[Data Report For The Collection Of Eggs From The Common Snapping Turtle \(*Chelydra Serpentina Serpentina*\) From The Hudson River, New York \(740 Kb, pdf\)](#)

June 2002. Organochlorine And Metal Contaminant Levels In Hudson River, New York Reptiles And Amphibians

- [Quality Assurance Project Plan \(809 Kb pdf\)](#)
- [Quality Assurance Project Plan - Appendices \(845 Kb pdf\)](#)
- [Figure 1.1 Hudson River Watershed \(641 Kb pdf\)](#)
- [Figure 2.1 Project Organization Chart \(11 Kb pdf\)](#)
- [Figure 4.1 Specimen Collection Location - Coveville \(1.07 Mb pdf\)](#)
- [Figure 4.2 Specimen Collection Location - Stockport Creek \(1.11 Mb pdf\)](#)
- [Figure 4.3 Specimen Collection Location - Vanderburg Cove \(945 Kb pdf\)](#)

August 11, 1998

[Data Report For Screening For Organochlorine And Metal Contaminant Levels In Hudson River, New York Bullfrogs \(*Rana Catesbeiana*\) and Snapping Turtles \(*Chelydra Serpentina Serpentina*\) \(732 Kb pdf\) February 28,2005](#)

- [Figures \(1.30 Mb pdf\)](#)

[Data Report for the Collection of Bullfrog \(*Rana Catesbeiana*\) Tadpoles and Near Shore Sediment Samples from the Hudson River, New York May 2007 \(1 Mb, pdf\)](#)

Fishery Resource Studies

[Injury to Hudson River Fishery Resources : Fishery Closures and Consumption Restrictions June 2001 \(548 Kb, pdf\)](#)

Fish Studies

Fact Sheets:

[Fall 2001 Fact Sheet \(pdf version 351 Kb\)](#) on the status of the Hudson River Natural Resource Damage Assessment Assessing Fish Health October 2001

Screening Level Studies:

[Sampling and Analysis Plan Hudson River Fish Health Assessment Phase I: Field Sampling, Necropsy, Histopathology, Disease, Fish Age \(Field Version\) \(1.4 Mb pdf\)](#)

Hudson River Fish Health Assessment
Phase I: Field Sampling,
Necropsy, Histopathology, Disease, Fish
Age (Field Version)

- [Hudson River Fish Health Assessment Phase I: Report](#) (844 Kb pdf)
- [Hudson River Fish Health Assessment Phase I Appendices](#) (776 Kb pdf)

Floodplain Studies

Screening Level Studies:

[2001 SETAC presentation](#): (486 Kb pdf)
PCBs in Floodplain Soils and Shrews

[2001-2004 Floodplain Data Summary Presentation](#) (4.9 Mb pdf). This slide presentation is large and may take a few moments to download. For faster downloading, the file has been divided into smaller sections listed below.

- [Presentation - Part 1](#) (940 Kb pdf)
- [Presentation - Part 2](#) (743 Kb pdf)
- [Presentation - Part 3](#) (892 Kb pdf)
- [Presentation - Part 4](#) (569 Kb pdf)
- [Presentation - Part 5](#) (1.03 Mb pdf)
- [Presentation - Part 6](#) (752 Kb pdf)

Benthic Sediment Studies

[Sediment Fact Sheet 2008](#) (pdf version 88 Kb) [Sediment Toxicity Pilot Study for the Hudson River NRDA](#)

Mammal Studies

Mink and Otter

Fact Sheets:

[Mink and Otter Fact Sheet 2006 \(pdf version 591 Kb\)](#)

Screening Level Studies:

[Mink Progress Report 1998-2000 \(544 Kb pdf\)](#)

Study Plan for Mink Injury Investigations for the Hudson River, June 2006

- [Study Plan and Appendix A \(298 Kb pdf\)](#)
- [Appendix 1 \(1.87 Mb pdf\)](#)
- [Appendices 2, 3 and 4 \(938 Kb pdf\)](#)
This appendix is available on request in hardcopy or can be obtained as part of the complete document from the USFWS or NOAA websites (please see offsite links on the right side of this page).

[Responsiveness Summary For The 2006 Study Plan For Mink Injury Investigations \(189 Kb pdf\)](#)

Bats

Fact Sheets:

[Bat Fact Sheet 2007 \(pdf version 43Kb\)](#)

Screening Level Studies:

[2002 Data Report and Work Summary \(462 Kb pdf\)](#)

Navigation Service Loss Studies

[Navigational Services Loss Report 2006](#)
(370 Kb pdf)

Additional NRD studies will be added to this page in the future. In the meantime the documents from these efforts may also be obtained from the links to the right of the main Hudson River Natural Resource damages page.

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