

GENERAL SITE INFORMATION, CHARACTERISTICS, AND STATUS

Project Name	<u>SHEBOYGAN RIVER/HARBOR - PROJECT 2</u> <u>(River/Harbor)</u>	ProjectID: 05-30
Last Updated:	09/06/04	
City:	Sheboygan Falls, Kohler, and Sheboygan	
County:	Sheboygan	
State:	WI	
Country:	USA	
Bodies of Water:	Sheboygan River and Harbor (a tributary to Lake Michigan)	
US EPA Region:	V	
Status (Active, Complete, or Monitoring Only):	Active	
Date On NPL:	1986	
ROD/ESD Date:	2000	
Operable Unit:	N/A	
Areas of Concern (length or acres):	Lower 14 miles of the Sheboygan River from the Sheboygan Falls Dam downstream to and including the Inner Harbor.	
Other Characteristics of Water Body:	<p>280 sq. mi. drainage basin; average flow is 250 cfs.</p> <p>Upper 3.2 miles of River (extends from the Sheboygan Falls Dam downstream to the Waelderhaus Dam in Kohler): rocks and cobbles cover a majority of the riverbed; discrete sediment pockets (avg. 2 ft. deep) are located intermittently along banks; average river width is 100 to 120 ft.; average water depths are 2 to 4 ft. Approximately 22,500 cy of sediment (including a volume of cap/armor material) currently present in the Upper River.</p> <p>Middle 7 miles of River (extends from the Waelderhaus Dam downstream to the railroad bridge): relatively rapid flow, shallow water depths, gravel/rocky bottom (mostly riffles and runs); average river width is 100 ft.; typical water depths 0.5 to 2 ft. Sediment is present (approximately 30,000 cy) in thin/shallow layers intermittently along river banks.</p> <p>Lower River (extends about 3 miles from the railroad bridge to the Pennsylvania Avenue bridge) and Inner/Outer Harbor (IH/OH) (IH includes the river from the Pennsylvania Avenue bridge to the river's outlet to the OH; OH is the area formed by two breakwalls): deeper, slower moving water, somewhat more continuous sediment distribution along Lower River banks and continuous over Harbor bottom; average Lower River width is 150 ft. and widens to 300-plus ft. as it approaches the Harbor. Avg. IH width is 250 ft. and water depth ranges from 1 to 20 ft. (avg. 6-12 ft.). Avg. OH width is 900 ft. (max. width of commercial navigation channel); OH water depth is 1 to 28 ft. (avg. of 12-23 ft.). Approximate sediment volumes in the Lower River, Inner Harbor and Outer Harbor are 200,000 cy, 960,000 cy and 1.3 million cy, respectively.</p>	
Contaminants of Concern:	PCBs (1248/1254); metals; PAHs. PCBs throughout; metals and PAHs primarily in the lower river and harbor, only.	
Source of Contamination:	Four named PRPs - multiple sources, but likely Upper River source is Tecumseh Products Company's die casting facility.	
Contaminated Area Physical Characteristics:	Sediment sampling in the Upper River in 1989-1990 showed PCB concentrations ranging from 1.4 to 4,500 ppm in 48 discrete sediment areas (based on 1987 RI probing). Seventeen areas were excavated during ASRI Pilot Study and Removal Action (Project ID 05-14). Five other areas were capped and armored. Water depths were in the range of 2 to 3 feet. Sediment samples collected from the same Upper River areas in 1997 exhibited PCB concentrations	

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ranging from <0.065 to 170 ppm (duplicate 220 ppm) (full-core composites); arithmetic avg. of 10.4 ppm. Surface sediment concentrations (0-6") ranged from 0.2 to 38 ppm; arithmetic avg. of 3.7 ppm. Sediment and river bank soil samples collected in 1999 exhibited PCB concentrations as high as 840 ppm and 1,100 ppm, respectively. Middle River sediment PCB concentrations have ranged from nondetect to 8.8 ppm (1989-1990 data) and from 0.6 to 37 ppm (1997 data). In the Lower River, initial site investigations exhibited maximum PCB levels of 67 ppm at about two feet below the sediment surface. Sediment trap samples, collected by WDNR from 1994 to 1996, exhibited PCB concentrations ranging from 1.9 to 4.2 ppm.

Maximum Inner Harbor sediment PCB concentrations were reportedly 220 ppm from 1979 data and were located in the 8- to 12-foot depth interval. 1987 surface sediment samples exhibited PCB concentrations ranging from 0.17 to 5.8 ppm and from 1999 ranging from 0.38 to 5.3 ppm. The following summarizes 1999 sediment PCB data results by depth: top one foot, nondetect to 117.4 ppm (average 5.6 ppm); one to two feet, nondetect to 89.1 ppm (average 7.9 ppm); two to four feet, nondetect to 103.2 ppm (average 10.7 ppm); and four to six feet, nondetect to 82.5 ppm (average 13.6 ppm).

In 1992, fillets from Sheboygan River smallmouth bass exhibited PCB concentrations ranging between 0.4 and 17 ppm. Smallmouth bass and white sucker samples collected from 1990 to 1998 exhibited PCB concentrations ranging from 1.3 ppm to 23.1 ppm. Composite samples of whole carp exhibited PCB levels between 10.5 and 200 ppm.

Type of Regulatory Action: Superfund. Final.

Overall Status Summary: Pilot Study and Removal Action work were implemented in 1989-1991. Removal was by mechanical dredging of 3,800 in-situ cy. Removed Pilot Study sediment was placed in a Confined Treatment Facility (CTF) for biodegradation study purposes, and Removal Action sediment was placed in a Sediment Management Facility (SMF), both on PRP property, until a final disposal location was identified. In 2001, the CTF and SMF sediments were removed and transported to a TSCA landfill in Oklahoma. Also, nine discrete sediment areas totaling 1,200 square yards were capped/armored during the Pilot Study. This Pilot Study and Removal Action work is described in Project ID 05-14.

The revised FS submitted in April 1998 was accepted by the Agency. A Proposed Remedial Action Plan (PRAP) was issued for public comment in May 1999. The public comment period ended July 30, 1999. The PRAP defined the primary health concern as consumption of PCB-contaminated fish containing levels of 1 ppm PCBs or higher. USEPA's cleanup goal is to remove enough contaminated sediment to reach an average river PCB sediment concentration of 1 ppm in soft sediment within 30 years. Further, USEPA concluded that this cleanup goal, along with a cleanup goal of 10 ppm in floodplain soil, would adequately protect fish and wildlife.

A ROD was released in May 2000 which describes five separate remedial components: 1) Upper River sediment; 2) Middle River sediment; 3) Lower River and Harbor sediment; 4) floodplain soil adjacent to the river; and 5) groundwater near the Tecumseh plant site. The selected remedy includes:

- Upper River sediment: Recharacterize, remove, and dispose offsite 20,774 cy of sediment to achieve a soft sediment surface-weighted average concentration (SWAC) of 0.5 ppm, such that the entire river will achieve an average PCB concentration of 0.5 ppm or less (vs. the 1 ppm noted in the PRAP) over time. Long-term monitoring (30 years) consisting of annual fish sampling and sediment sampling every five years. (Total Present Value: \$23.8 million)

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- Middle River sediment: Recharacterize and remove sediment if necessary to achieve a soft sediment SWAC of 0.5 ppm in the Middle River and fish and sediment sampling to document natural processes and ensure that over time the entire river will reach an average PCB sediment concentration of 0.5 ppm or less. Long-term monitoring (30 years) consisting of annual fish sampling and sediment sampling every five years. (Total Present Value: \$2.0 million)
- Lower River and Inner Harbor sediment: Lower River and Inner Harbor sediment will be recharacterized and sediment with PCB concentrations greater than 26 ppm within the top foot will be removed where water depths are greater than five feet and within the top two feet will be removed where water depths are less than five feet. These sediments are considered likely to impair this portion of the River and Harbor from achieving a PCB soft sediment SWAC of 0.5 ppm, or less, over time. Pending further characterization, USEPA estimates that approximately 53,000 cy of sediment will require removal from the Inner Harbor to achieve an average PCB concentration of 0.5 ppm, or less, in these sections of the River and Harbor. Areas where sediment is removed will be backfilled with clean sediment.

A 30 year long-term monitoring program will be implemented and will consist of the annual collection of fish samples until fish consumption advisories are lifted. Sediment samples will be taken at least once every five years to document natural processes and ensure that over time the Lower River and Inner Harbor reach an average PCB sediment concentration of 0.5 ppm, or less. Fish and waterfowl consumption advisories will remain in place until monitoring indicates that they can be dropped. The outer harbor breakwalls will be maintained to keep contaminated sediments at depth. (Total Present Value: \$10.0 million)

- Floodplain soil: Remove soil containing PCBs > 10 ppm and dispose offsite. However, in some areas, contaminated soil with more than 10 ppm PCBs may be left in place to prevent negative impacts to high-quality habitat. Areas of excavation will be revegetated. Long-term (30 years) monitoring also will be performed (not specified). (Total Present Value: \$4.5 million)
- Tecumseh plant site groundwater: Investigation/Source Identification and Control/Natural Attenuation. (Total Present Value: \$594,000) If natural attenuation is determined to be inappropriate to cleanup groundwater, a collection trench will be installed and the collected groundwater will be treated in the existing water treatment system on-site for an additional cost.

In May 2003, a Consent Decree was signed by USEPA, U.S. Department of Justice, and Tecumseh Products Company. The Consent Decree requires Tecumseh to implement the remedial actions specified in the 2000 ROD for the Upper River. Separate agreements will be issued for the Middle River and Lower River Harbor. Actions to be taken include (1) ground water and additional source control at the Tecumseh site; (2) soft sediment removal; (3) floodplain soil removal and (4) fish monitoring. As of May 2003, a proposed schedule included:

- submitting a work plan to USEPA - Fall 2003
- selecting contractors - Fall 2003
- starting pre-design work - Winter 2003-04
- submittal of final design document to USEPA - Winter 2003-04
- beginning cleanup - Summer 2004

As of August 2004, work is targeted to commence in September 2004 on cleanup of contaminated soil, floodplain soil, and groundwater at the former Tecumseh facility in an effort to control sources of PCBs to the river prior to beginning in-water work. Work on upper river

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sediments is scheduled to start in 2005. Subsequent phases to clean up the middle river, lower river, and inner harbor will be implemented separately in an upstream-to-downstream fashion.

Remedial Action Planned:



Risk Assessment:



Remedial Action Implemented:



Status of Dredging



PRPs:



Contacts:



References:



Modeling:



Fishing Advisory:



Key Conditions:

commercial landfill, dredging, extended (>1 mile) river, floodplains targeted, Great Lakes AOC, more-harm-than-good, natural recovery, navigational dredging component, post monitoring, property access issues

REMEDIAL ACTION PLANNED

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Target Sediment Cleanup Standards (TSCS): Average of 0.5 ppm PCBs for all soft river/harbor sediments, achieved within 30 years.

How TSCS Established: Evaluation of human health and ecological risks.

Target Bank and Floodplain Cleanup Levels (if applicable): 10 ppm PCBs.

Other Target:

Environmental Sample Data References:

- **Sediment:**
- **Water:**
- **Fish:**

Estimated Target Volume: Based on May 2000 ROD: Upper River: 20,774 cy; Middle River: Monitoring (volume based on sediment recharacterization); Lower River and Inner Harbor: 53,000 cy (volume could change based on sediment recharacterization); Floodplain Soil: not defined.

Planned Disposal Method: Commercial landfills.

Estimated Calendar Time to Implement Remedy: 2002-2010

Estimated Time to Implement Remedy: Eight construction seasons.

Estimated Cost to Implement Remedy: Based on present value costs from ROD: Upper River: \$23.8 million; Middle River: \$2.0 million; Lower River and Inner Harbor: \$10.0 million; Floodplain Soils: \$4.5 million; Tecumseh Plant site groundwater: \$0.6 million.

Stated Remedial Action Objectives (and Source): (Source: May 2000 ROD, Reference A-669)

- “Protect human health and the environment from imminent and substantial endangerment due to PCBs attributed to the site;”
- “Mitigate potential PCB sources to the Sheboygan River/Harbor system and reduce PCB transport within the river system;” and
- “Remove and dispose of confined Treatment Facility/Sediment Management Facility (CTF/SMF) sediments and previously armored/capped PCB-contaminated soft sediment deposits.”

Measures of Success to be Used:

- Less than or equal to 1×10^{-4} human health carcinogenic risk level over time through fish consumption;
- Less than or equal to 0.5 ppm PCBs in soft sediment based on surface-weighted avg. concentration (SWAC);
- Less than or equal to 0.31 ppm PCBs in smallmouth bass;

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06/29/01

- Less than or equal to 0.63 ppm PCBs in walleye;
- Less than or equal to 0.09 ppm PCBs in trout;
- Less than or equal to 2.58 ppm PCBs in carp;
- Less than or equal to 2.53 ppm PCBs in catfish;
- 10 ppm PCB average floodplain soil concentration.

Planned Monitoring and Restoration:

For the three river sediment components, a long-term monitoring plan that includes annual fish sampling for 30 years (or until river-wide fish advisories are lifted) and sediment sampling at least once every five years. Annual bathymetric surveys will be performed and, for the Outer Harbor, the breakwall will be maintained on a regular basis.

Agency Position on Sediment Removal (and Source):

(Source: May 2000 ROD, Reference A-669):

“In evaluating the alternatives, USEPA considered the level of protection that would satisfy the concern of the natural resource trustees that future natural resource injuries be minimized. The natural resource trustees have concluded that, given the proposed cleanup level of 0.5 ppm PCBs in soft sediment and 10 ppm PCBs in floodplain soil, the natural resources will continue to incur injuries. These additional injuries will be factored into the resolution of the natural resource liability. USEPA also considered the extent to which implementing the alternatives could bring about additional adverse impacts to natural resources.”

RISK ASSESSMENT

<i>Project Name</i>	<i><u>SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)</u></i>	<i>ProjectID:</i> 05-30
<i>Last Updated:</i>	08/27/02	
<i>RA Type:</i>	Ecological	
<i>RA Status:</i>	Complete	
<i>RA Objectives:</i>	Aquatic: 1) To evaluate risk posed to aquatic organisms and piscivorous birds and mammals exposed to toxic substances in the Sheboygan River and Harbor; and 2) To derive concentrations of PCBs and other constituents of concern in sediment that would be protective of the Sheboygan River ecosystem as assessed through surrogate receptor species. Terrestrial: 1) To measure earthworm PCB levels in contaminated floodplain sections for use in robin dose calculations to determine the likelihood of adverse ecological effects; and 2) To derive a site-specific bioaccumulation factor (BAF) for PCB uptake by earthworms for use, if appropriate, in setting ecologically protective cleanup goals.	
<i>Company Performing RA:</i>	Aquatic: EVS Environmental Consultants, National Oceanic and Atmospheric Administration (NOAA) for USEPA. Terrestrial: USEPA (J. Chapman, Ph.D., Ecologist)	
<i>RA Reference Report:</i>	Sheboygan River and Harbor Aquatic Ecological Risk Assessment (AERA); Sheboygan River and Harbor Draft Terrestrial (Floodplain) Ecological Risk Assessment (TERA)	
<i>RA Summary and Conclusions:</i>	(Source: AERA, Reference A – 670): Sediment: “For the protection of benthic invertebrates in depositional areas, two avenues for protective sediment concentration derivation were evaluated: 1) protective sediment concentrations based on the results of the Triad study, and 2) comparison of measured toxicity and chemistry data to sediment quality guidelines. For most stations investigated, correlation among the three Triad legs was not sufficient to use the total Triad data set to evaluate protective sediment concentrations. Instead, three available freshwater sediment quality guidelines were evaluated to determine the likelihood of Type I or Type II errors if the guidelines were used as protective sediment concentrations for metals, PAHs, and PCBs. Site data were used to evaluate whether or not existing sediment quality guidelines could be used to correctly predict toxicity in short-term lethality test endpoints in two species of test organisms.” “Interpretation of risk to benthic invertebrates in depositional areas and whether this risk is attributable to constituents of concern (COCs) was complicated by uncertainty in at least one of the Triad legs. Three site stations showed clear evidence of adverse effects in all three Triad legs, while 9 of the other 11 site stations showed evidence of adverse effects in the toxicity and chemistry measurements. Statistical comparison of toxicity-test acute lethality endpoints to the negative control samples indicates that toxicity is widespread, including at 3 of the 4 reference stations. The toxicity in the reference area combined with the relatively low contaminant concentrations suggest the possible importance of unmeasured contaminants.” “For the protection of fish, the Gobas (1993) bioaccumulation model was used to back-calculate protective	

sediment concentrations for PCBs from no effects concentrations of specific congeners in juvenile smallmouth bass fish tissue. Based on the consistent PCB congener composition observed in sediment and juvenile smallmouth bass tissue within each segment (excluding the reference area), protective sediment concentrations for dioxin-like effects from total PCBs were estimated for Segments 2, 3, and 5 and ranged from 3.7 to 5.6 mg/kg.”

“The results for all three approaches used to calculate hazard quotients (HQs) for PCBs --- based on total PCB concentrations in eggs, total PCB concentrations in whole-body adult fish, and TEQ concentrations in eggs -- indicate potential reproductive effects in fish, particularly in Segments 2 and 3, where the PCB concentrations are most elevated and HQs are greater than 1 using all three analysis methods. The risk appears to be greater for smallmouth bass than for either the white sucker or longnose dace, probably because smallmouth bass are at a higher trophic level and have higher relative lipid content in their eggs. The large range in HQ values derived from the three approaches reflects the high degree of uncertainty in the tissue residue effects benchmarks. Potential risks to fish from PAHs were also evaluated since Segment 6 contained elevated concentrations of PAHs in sediment and a 1997 study reported elevated PAH metabolites in white suckers collected from Segment 6 as well as hematological, biochemical, and histological alterations. Elevated concentrations of PCBs and DDE were also reported in the Segment 6 white suckers in the report. Assigning causal relationships to the chemical alterations is not possible with the data available because PCBs and pesticides may also cause these alterations. Concentrations of PAHs measured in the sediment were below those correlated with elevated tumor frequencies in fish. Although elevated tumor frequencies were observed, cause and effect relationships are not clear. The ecological significance of these effects is unknown. Fish community studies indicate that fish populations and habitat are generally good for the area. Risks to salmonids from PCBs originating from the Sheboygan River, however, do not currently appear to be higher than risks to salmonids in Lake Michigan in general. This conclusion is based on an analysis of fish tissue of returning adult salmonids that indicates that PCB concentrations are no higher in adult salmonids returning to the Sheboygan River than in adult salmonids returning to other rivers in the Lake Michigan basin.”

“For the protection of piscivores, the food web model and the bioaccumulation model were used in combination to calculate a range of protective sediment concentrations for mink and great blue heron based on NOAELs and LOAELs derived from the literature. In general, the congener-specific protective sediment concentrations for mink and great blue heron were similar, although the LOAEL-based protective sediment concentrations for great blue heron were somewhat lower for PCB Congeners 105 and 118. Most of the average congener concentrations measured in Segments 2, 3, and 5 were much higher than the protective sediment concentration range, indicating a high likelihood of risk to mink and great blue heron, especially near Segment 2. Congener concentrations were lower than or equal to protective sediment concentrations in the reference area, indicating that this area is unlikely to pose risks to mink and great blue heron. Using the same model discussed above for fish, total PCB protective sediment concentrations were estimated for mink and great blue heron; these concentrations ranged from 0.05 to 0.7 mg/kg for mink and from 0.1 to 0.7 mg/kg for great blue heron.”

“Mink and great blue heron represented the piscivorous wildlife community in this ERA. The assessment endpoint presented for mink and great blue heron focused on the potential for reduced reproduction due to dietary exposure to PCBs. Adverse effects on the reproductive success of mink and great blue heron appear highly probable based on a comparison of predicted dietary doses for mink and great blue heron to TRVs (toxicological reference values) derived from two studies in the literature. In Segments 2/3 and 5/6, HQs for mink based on TEQs (toxic equivalencies) ranged from 6.2 to 290 and HQs based on total PCBs ranged from 15 to 1,000. The absence of mink from the study area corroborates this finding, indicating that reproductive impacts are likely occurring since habitat within the study area does not appear to be a limiting factor. In Segments 2/3 and 5/6, HQs for great blue heron based on TEQs ranged from 14 to 290 and HQs based on total PCBs ranged from 4.9 to 65. Although great blue heron are not nesting within or

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near the site, a breeding colony of black-crowned night heron --- another piscivorous heron species --- is present near New Jersey Avenue. Great blue herons and black-crowned night herons have a similar natural history. Because of this, the black-crowned night heron colony is likely experiencing adverse reproductive effects as indicated by the high HQs for the great blue heron.”

“Therefore, based on the analyses presented in this risk assessment, cleanup goals similar to background sediment concentrations of PCBs in the Sheboygan River would be protective of ecological health (i.e., 0.050 mg/kg dw of total PCBs). This result corroborates work previously conducted for the site and the conclusion previously stated by USEPA that recommended cleanup to background concentrations is appropriate for PCBs.”

(Source: TERA [Draft], Reference A-668):

“The TERA was based on PCB congener-specific analyses of co-located earthworm and soil samples collected November 3-5, 1997. The worm congener data were extrapolated to robin's egg concentrations, which were compared with egg toxicity data on three bases: total PCBs, specific congeners, and dioxin toxic equivalents (TEQs). The egg HQs based on hatchability and malformations ranged from 13 to 48 for no observed adverse effect concentrations (NOAEC), and from 6 to 22 for lowest observed adverse effect concentrations (LOAEC) for the central tendency scenarios of the various approaches. For the 95 percent upper confidence limit scenarios, NOAEC-HQs ranged from 22 to 80, and LOAEC-HQs ranged from 9 to 36. HQs were also developed on the basis of dose to adult birds, but the results varied by as much as an order-of-magnitude: central tendency 30-280 NOAEL-HQs and 3-120 LOAEL-HQs.”

“Since egg-based risk estimates were less variable than oral dose-based estimates, the egg bioaccumulation models were used to back-calculate ecologically protective earthworm concentrations separately for total PCBs and on a congener-specific basis. Ecologically protective soil preliminary remedial goals (PRGs) were back calculated from earthworms by use of site-specific soil-to-earthworm bioaccumulation factors (BAFs). Soil PRGs are 1 - 2 ppm total PCBs based on NOAECs, and 3 - 5 ppm based on LOAECs.”

“Area use effects were assessed by comparing robin foraging ranges (126 x 126 ft while caring for nestlings, and 295 x 295 ft for fledglings) with the horizontal distribution of PCBs in 1992 soil samples collected in floodplain sections with previously identified elevated levels (mean concentrations of 25 ppm at 0 - 100 ft from the nearest river bank, 3 ppm at > 100 - 200 ft, and 0.3 ppm at > 200 ft). The nesting-stage foraging area fits almost within the 100-ft wide strips of elevated floodplain soil contamination. This means robins with nestling-stage foraging areas bordering the Sheboygan River are at risk of reproductive impairment where the floodplain soil mean PCB concentration exceeds 4 ppm. Adverse reproductive effects are unlikely where the floodplain soil mean PCB concentration is under 2 ppm.”

“Robins with nestling-stage foraging areas located further than 100 ft from the river, but with fledging-stage foraging areas that extend to the river bank, are at risk of reproductive impairment where the 0 - 100 ft floodplain soil mean PCB concentration exceeds 9 ppm. Adverse reproductive effects are unlikely where the floodplain soil mean PCB concentration is under 2 ppm.”

POTENTIALLY RESPONSIBLE PARTIES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

PRP Name: PRP INFORMATION NOT RELEASED

PRPID:

Street Address:

City:

State:

KEY CONTACTS

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Last Name: KEY CONTACT INFORMATION NOT RELEASED

Contact ID:

First Name:

Title:

Company:

Address:

City:

State:

Postal Code:

Work Phone # :

Other Phone #:

Fax # :

Email Address:

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type: A

ReferenceID: 432

Title: ***Proposed Plan for Cleanup of the Sheboygan River and Harbor Superfund Site***

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: US EPA Region V

Preparer/Author Address: Office of Public Affairs
77 West Jackson Blvd.
Chicago, IL 60604

Prepared For: General Public

Date Published: May 1999

Key Words and Phrases:

Reference Type: A

ReferenceID: 668

Title: ***Sheboygan River and Harbor Draft Terrestrial (Floodplain) Ecological Risk Assessment***

Location: BBL

Category: Risk Assessment

Prepared by/Author: J. Chapman

Preparer/Author Address: US EPA Region V

Prepared For:

Date Published: April 7, 1999

Key Words and Phrases:

Reference Type: A

ReferenceID: 669

Title: ***Record of Decision: Sheboygan River and Harbor***

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: US EPA HQ

Preparer/Author Address:

Prepared For: General Public

Date Published: May 2000

Key Words and Phrases:

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type: A

ReferenceID: 670

Title: *Sheboygan River and Harbor Aquatic Ecological Risk Assessment*

Location: BBL

Category: Risk Assessment

Prepared by/Author: EVS Environmental Consultants, Inc. and
National Oceanic and Atmospheric Administration (NOAA)

**Preparer/Author
Address:**

Prepared For:

Date Published: November 1998

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 1026

Title: *Consent Decree for the Upper River Work on the Sheboygan River*

Location: AEM

Category: Legal

Prepared by/Author: U.S. District Court (Plaintiff)

**Preparer/Author
Address:**

Prepared For: Tecumseh Products (Defendant)

Date Published: May 2003

**Key Words and
Phrases:**

Reference Type: A

ReferenceID: 1033

Title: *Aquatic Ecological Risk Assessment*

Location: AEM

Category: Risk Assessment

Prepared by/Author: EVS Environmental Consultants, Inc. and
National Oceanic and Atmospheric Administration (NOAA)

**Preparer/Author
Address:** Seattle, WA

Prepared For: US EPA Region V, Chicago, IL

Date Published: November 1998

**Key Words and
Phrases:**

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type:

A

ReferenceID: 1034

Title:

Sheboygan River Food Chain and Sediment Contaminant Assessment

Location:

AEM

Category:

Contaminated Sediments: Investigation/Delineation

Prepared by/Author:

Marsha Burzynski

Preparer/Author

Address:

Wisconsin Department of Natural Resources
Southeast Region
Milwaukee, WI

Prepared For:

Dr. Marc Tuchman, USEPA GLNPO, Chicago, IL

Date Published:

April 2000

Key Words and Phrases:

Reference Type:

B

ReferenceID: 443

Title:

EPA Selects Clean-Up Plan for Sheboygan River and Harbor Site

Location:

AEM

Category:

Site Update

Prepared by/Author:

US EPA Region V

Preparer/Author

Address:

Prepared For:

General Public

Date Published:

May 17, 2000

Key Words and Phrases:

Reference Type:

B

ReferenceID: 445

Title:

Fact Sheet: Feasibility Study Completed for Sheboygan River and Harbor Superfund Site

Location:

AEM

Category:

Site Update

Prepared by/Author:

US EPA Region V

Preparer/Author

Address:

Prepared For:

General Public

Date Published:

January 1999

Key Words and Phrases:

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type: B

ReferenceID: 446

Title: ***The Sheboygan River and Harbor Proposed Plan is still available and the Comment Period has been extended***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: 1999 circa

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 843

Title: ***Realizing Remediation II - Updated Summary:
Sheboygan River and Harbor Superfund Site (Project 2)
(see Reference A-907)***

Location: AEM

Category: Dredging: Remedial (Contaminated Sediments)

Prepared by/Author: US EPA Great Lakes National Program Office (GLNPO)

**Preparer/Author
Address:** 77 West Jackson Boulevard (G-17J)
Chicago, IL 60604

Prepared For: General Public

Date Published: July 2000

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 953

Title: ***e-mail re: Sheboygan ROD***

Location: AEM

Category: ROD/Proposed Plan/Action Memo/Decision Document

Prepared by/Author: Janet Briot, BBL

**Preparer/Author
Address:**

Prepared For: Distribution

Date Published: May 18, 2000

**Key Words and
Phrases:**

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type: B

ReferenceID: 1000

Title: ***United States EPA Public Meeting (Minutes)***

Location: AEM

Category: Meeting Minutes

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: August 4, 2003

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 1001

Title: ***EPA Signs Agreement for Upper River Cleanup***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: May 2003

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 1002

Title: ***U.S. EPA Makes Final Decision on Sheboygan River and Harbor Cleanup***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: May 2000

**Key Words and
Phrases:**

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type: B

ReferenceID: 1003

Title: ***Feasibility Study Nears Completion for Sheboygan River and Harbor Superfund Site***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: November 1998

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 1106

Title: ***First Phase of Upper River Cleanup to Begin Soon***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: August 2004

**Key Words and
Phrases:**

Reference Type: B

ReferenceID: 1107

Title: ***NPL Fact Sheet for Wisconsin: Sheboygan Harbor & River
(EPA ID# WID980996367)***

Location: AEM

Category: Site Update

Prepared by/Author: US EPA Region V

**Preparer/Author
Address:**

Prepared For: General Public

Date Published: January 2003

**Key Words and
Phrases:**

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type: C

ReferenceID: 258

Title: ***Sheboygan Gets Huge \$65.9M Plan; Major Sediment Dredging Included***

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Superfund Week

Date Published: June 4, 1999

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 553

Title: ***Changes Under Sheboygan ROD Chop Cleanup Cost Nearly in Half***

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: Superfund Week

Date Published: May 26, 2000

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 725

Title: ***Miscellaneous News: Sheboygan River and Harbor Superfund Site***

Location: AEM

Category: Site Update

Prepared by/Author:

**Preparer/Author
Address:**

Prepared For: HazTECH News

Date Published: May 11 and 25, 2000

**Key Words and
Phrases:**

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type: C

ReferenceID: 1058

Title: **Wis.: Company to Clean River**

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Hazardous Waste/Superfund Week

Date Published: May 26, 2003

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 1076

Title: **Consent Decrees: United States v. Tecumseh Products Co.**

Location: AEM

Category: Legal

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Hazardous Waste/Superfund Week

Date Published: June 23, 2003

**Key Words and
Phrases:**

Reference Type: C

ReferenceID: 1153

Title: **Wisconsin: EPA to begin Upper River Cleanup**

Location: AEM

Category: Site Update

Prepared by/Author:

Preparer/Author

Address:

Prepared For: Hazardous Waste/Superfund Report

Date Published: September 6, 2004

**Key Words and
Phrases:**

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type: D

ReferenceID: 113

Title: ***Risk Factors: The U.S. Environmental Protection Agency may have different standards for cleaning PCBs from the Sheboygan and Fox Rivers***

Location: AEM

Category: Risk Assessment

Prepared by/Author: Ed Culhane

**Preparer/Author
Address:**

Prepared For: The Appleton (WI) Post-Crescent

Date Published: August 8, 1999

**Key Words and
Phrases:**

Reference Type: D

ReferenceID: 521

Title: ***Environmentalists question Sheboygan River cleanup***

Location: AEM

Category: Site Update

Prepared by/Author: Emmitt B. Feldner

**Preparer/Author
Address:**

Prepared For: The Sheboygan(WI) Press

Date Published: August 5, 2003

**Key Words and
Phrases:**

Reference Type: E

ReferenceID: 126

Title: ***Sediment Management Seminar 2000 Proceedings (Reference E-121)***

Location: AEM

Category: Dredging: Remedial (Contaminated Sediments)

Prepared by/Author: Blasland, Bouck & Lee, Inc.

**Preparer/Author
Address:** 6723 Towpath Road
P.O. Box 66
Syracuse, NY 13214

Prepared For: Attendees

Date Published: February 10-11, 2000

**Key Words and
Phrases:**

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type:

H

ReferenceID: 10

Title:

Site Components (Map)

Location:

AEM

Category:

Contaminated Sediments: Investigation/Delineation

Prepared by/Author:

US EPA Region V

Preparer/Author

Address:

Prepared For:

General Public

Date Published:

Undated (circa 1999)

**Key Words and
Phrases:**

Reference Type:

H

ReferenceID: 11

Title:

Floodplain and Groundwater Issue Areas (Map)

Location:

AEM

Category:

Contaminated Sediments: Investigation/Delineation

Prepared by/Author:

US EPA Region V

Preparer/Author

Address:

Prepared For:

General Public

Date Published:

Undated (circa 1999)

**Key Words and
Phrases:**

Reference Type:

H

ReferenceID: 12

Title:

1997 Sediment Data (Map)

Location:

AEM

Category:

Contaminated Sediments: Investigation/Delineation

Prepared by/Author:

US EPA Region V

Preparer/Author

Address:

Prepared For:

General Public

Date Published:

Undated (circa 1999)

**Key Words and
Phrases:**

REFERENCES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)**

ProjectID: 05-30

Reference Type:

H

ReferenceID: 13

Title:

***PCB Concentrations by Depth
Max. PCB Regardless of Depth ('79-'97 data) (Maps)***

Location:

AEM

Category:

Contaminated Sediments: Investigation/Delineation

Prepared by/Author:

US EPA Region V

**Preparer/Author
Address:**

Prepared For:

General Public

Date Published:

Undated (circa 1999)

**Key Words and
Phrases:**

Reference Type:

L

ReferenceID: 144

Title:

Maximum Baseline Cancer Risks for Contaminated Sediment Sites

Location:

AEM

Category:

Risk Assessment

Prepared by/Author:

AEM, Inc.

**Preparer/Author
Address:**

Prepared For:

Distribution

Date Published:

October 22, 2001

**Key Words and
Phrases:**

Reference Type:

M

ReferenceID: 218

Title:

Sheboygan River, Wisconsin

Location:

AEM

Category:

Site Update

Prepared by/Author:

Beth A. Millemann

**Preparer/Author
Address:**

Prepared For:

Muddy Waters - The Toxic Wasteland Below America's Oceans, Coasts,
Rivers and Lakes (Reference M-220)

Date Published:

August 1999

**Key Words and
Phrases:**

FISH ADVISORIES

Project Name ***SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)***

ProjectID: 05-30

Advisory: Sheboygan River

AdvisoryID: 725

Extent: From the dam at Sheboygan Falls to the mouth

Pollutant: PCBs (total)

Species: bass-rock

Population: NCGP

Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River

Advisory Number: 890

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Candy Schrank

Contact Number: 608-267-7614

Advisory: Sheboygan River

AdvisoryID: 726

Extent: From the dam at Sheboygan Falls to the mouth

Pollutant: PCBs (total)

Species: bass-rock

Population: NCSP

Population Definition: No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.

Advisory Type: River

Advisory Number: 890

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Candy Schrank

Contact Number: 608-267-7614

Advisory: Sheboygan River

AdvisoryID: 727

Extent: From the dam at Sheboygan Falls to the mouth

Pollutant: PCBs (total)

Species: bass-smallmouth

Population: NCGP

Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River

Advisory Number: 890

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Candy Schrank

Contact Number: 608-267-7614

FISH ADVISORIES

Project Name ***SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)***

ProjectID: 05-30

<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 728
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	bass-smallmouth	
<i>Population:</i>	NCSP	
<i>Population Definition:</i>	No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614
<hr/>		
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 729
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	carp-common	
<i>Population:</i>	NCGP	
<i>Population Definition:</i>	No Consumption-General Population: Advise against consumption by the general population.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614
<hr/>		
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 730
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	carp-common	
<i>Population:</i>	NCSP	
<i>Population Definition:</i>	No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614

FISH ADVISORIES

Project Name ***SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)***

ProjectID: 05-30

Advisory: Sheboygan River ***AdvisoryID:*** 731
Extent: From the dam at Sheboygan Falls to the mouth
Pollutant: PCBs (total)
Species: catfish
Population: NCGP
Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River ***Advisory Number:*** 890

Status (Active or Rescinded): Active ***Date Rescinded:***

Contact Name: Candy Schrank ***Contact Number:*** 608-267-7614

Advisory: Sheboygan River ***AdvisoryID:*** 732
Extent: From the dam at Sheboygan Falls to the mouth
Pollutant: PCBs (total)
Species: catfish
Population: NCSP
Population Definition: No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.

Advisory Type: River ***Advisory Number:*** 890

Status (Active or Rescinded): Active ***Date Rescinded:***

Contact Name: Candy Schrank ***Contact Number:*** 608-267-7614

Advisory: Sheboygan River ***AdvisoryID:*** 733
Extent: From the dam at Sheboygan Falls to the mouth
Pollutant: PCBs (total)
Species: crappie-black
Population: NCGP
Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River ***Advisory Number:*** 890

Status (Active or Rescinded): Active ***Date Rescinded:***

Contact Name: Candy Schrank ***Contact Number:*** 608-267-7614

FISH ADVISORIES

Project Name ***SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)***

ProjectID: 05-30

<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 734
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	crappie-black	
<i>Population:</i>	NCSP	
<i>Population Definition:</i>	No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614
<hr/>		
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 735
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	pike-northern	
<i>Population:</i>	NCGP	
<i>Population Definition:</i>	No Consumption-General Population: Advise against consumption by the general population.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614
<hr/>		
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 736
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	pike-northern	
<i>Population:</i>	NCSP	
<i>Population Definition:</i>	No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614

FISH ADVISORIES

Project Name ***SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)***

ProjectID: 05-30

<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 737
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	salmon-chinook	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 738
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	salmon-chinook	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 739
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	salmon-coho	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614

FISH ADVISORIES

Project Name ***SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)***

ProjectID: 05-30

<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i>	740
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth		
<i>Pollutant:</i>	PCBs (total)		
<i>Species:</i>	salmon-coho		
<i>Population:</i>	RSP		
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.		
<i>Advisory Type:</i>	River	<i>Advisory Number:</i>	890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>	
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i>	608-267-7614
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i>	741
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth		
<i>Pollutant:</i>	PCBs (total)		
<i>Species:</i>	trout-brown		
<i>Population:</i>	RGP		
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.		
<i>Advisory Type:</i>	River	<i>Advisory Number:</i>	890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>	
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i>	608-267-7614
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i>	742
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth		
<i>Pollutant:</i>	PCBs (total)		
<i>Species:</i>	trout-brown		
<i>Population:</i>	RSP		
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.		
<i>Advisory Type:</i>	River	<i>Advisory Number:</i>	890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>	
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i>	608-267-7614

FISH ADVISORIES

Project Name ***SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)***

ProjectID: 05-30

<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 743
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	trout-lake	
<i>Population:</i>	RGP	
<i>Population Definition:</i>	Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 744
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	trout-lake	
<i>Population:</i>	RSP	
<i>Population Definition:</i>	Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614
<i>Advisory:</i>	Sheboygan River	<i>AdvisoryID:</i> 745
<i>Extent:</i>	From the dam at Sheboygan Falls to the mouth	
<i>Pollutant:</i>	PCBs (total)	
<i>Species:</i>	trout-lake	
<i>Population:</i>	NCGP	
<i>Population Definition:</i>	No Consumption-General Population: Advise against consumption by the general population.	
<i>Advisory Type:</i>	River	<i>Advisory Number:</i> 890
<i>Status (Active or Rescinded):</i>	Active	<i>Date Rescinded:</i>
<i>Contact Name:</i>	Candy Schrank	<i>Contact Number:</i> 608-267-7614

FISH ADVISORIES

Project Name **SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)** **ProjectID:** 05-30

Advisory: Sheboygan River **AdvisoryID:** 746
Extent: From the dam at Sheboygan Falls to the mouth
Pollutant: PCBs (total)
Species: trout-lake
Population: NCSP
Population Definition: No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.
Advisory Type: River **Advisory Number:** 890
Status (Active or Rescinded): Active **Date Rescinded:**
Contact Name: Candy Schrank **Contact Number:** 608-267-7614

Advisory: Sheboygan River **AdvisoryID:** 747
Extent: From the dam at Sheboygan Falls to the mouth
Pollutant: PCBs (total)
Species: trout-rainbow
Population: RGP
Population Definition: Restricted Consumption-General Population: Advises the general population to restrict the size of the organisms and/or the frequency of meals consumed.
Advisory Type: River **Advisory Number:** 890
Status (Active or Rescinded): Active **Date Rescinded:**
Contact Name: Candy Schrank **Contact Number:** 608-267-7614

Advisory: Sheboygan River **AdvisoryID:** 748
Extent: From the dam at Sheboygan Falls to the mouth
Pollutant: PCBs (total)
Species: trout-rainbow
Population: RSP
Population Definition: Restricted Consumption-Subpopulation(s): Advises subpopulations potentially at greater risk, e.g., pregnant or nursing women, and/or small children, to restrict the size of the organism and/or frequency of meals consumed.
Advisory Type: River **Advisory Number:** 890
Status (Active or Rescinded): Active **Date Rescinded:**
Contact Name: Candy Schrank **Contact Number:** 608-267-7614

FISH ADVISORIES

Project Name ***SHEBOYGAN RIVER/HARBOR - PROJECT 2 (River/Harbor)***

ProjectID: 05-30

Advisory: Sheboygan River

AdvisoryID: 749

Extent: From the dam at Sheboygan Falls to the mouth

Pollutant: PCBs (total)

Species: walleye

Population: NCGP

Population Definition: No Consumption-General Population: Advise against consumption by the general population.

Advisory Type: River

Advisory Number: 890

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Candy Schrank

Contact Number: 608-267-7614

Advisory: Sheboygan River

AdvisoryID: 750

Extent: From the dam at Sheboygan Falls to the mouth

Pollutant: PCBs (total)

Species: walleye

Population: NCSP

Population Definition: No Consumption-Subpopulation(s): Advises against consumption for populations that are potentially at greater risk, e.g., pregnant or nursing women, and small children.

Advisory Type: River

Advisory Number: 890

Status (Active or Rescinded): Active

Date Rescinded:

Contact Name: Candy Schrank

Contact Number: 608-267-7614
