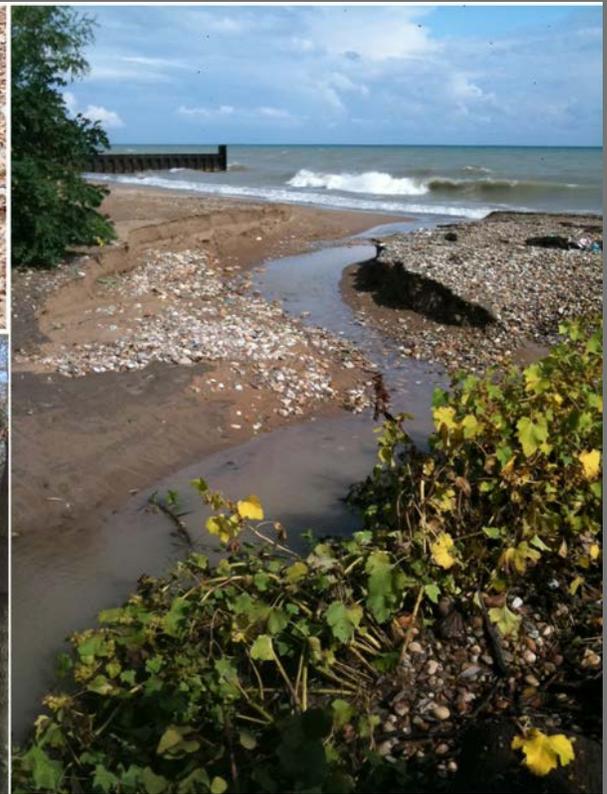


2013

# Ravine 8 Ecosystem Restoration

## Appendix E – HTRW Report

Alternative Formulation Briefing Document



Chicago District  
US Army Corps of Engineers  
04/29/2013





## MEMORANDUM FOR CELRC-PM-PL-E (Veraldi)

SUBJECT: HTRW and non-HTRW Report for Ravine 8 Section 506

1. Enclosed is the HTRW investigation report for the Ravine 8 Section 506, Great Lakes Fisheries and Ecosystem Restoration Project. The investigation was performed as part of the Planning phase of the project. The investigation was based on a database search, review of historical images and existing information, and a site visit. The significant findings and necessary actions recommended in this investigation are summarized below.
2. The database search identified three LUSTs in the area of the project site. Further investigation revealed that one had a non-LUST determination letter, and the remaining two had NFA/NFR letters. Due to the status of these sites and their distance from the project, these sites are not a concern for this project.
3. The City of Highland Park maintains a sanitary sewer line under the ravine. The Ravine 8 Project will ensure the protection of the City of Highland Park's work.
4. No environmental site assessment can wholly eliminate uncertainty regarding the potential for Recognized Environmental Conditions (RECs) associated with a project area. Performance of the assessment is intended to reduce, but not eliminate, uncertainty regarding the potential RECs in connection with a project area, while recognizing time and cost constraints.
5. The results of this investigation suggest that it is unlikely that RECs exist on or adjacent to the project site. If there are any questions regarding this investigation, please contact Margaret Rauwerdink at (312) 846-5502, margaret.a.rauwerdink@usace.army.mil.

SEMMLER.JAY  
A.1230562241

Digitally signed by  
SEMMLER.JAY.A.1230562241  
DN: c=US, o=U.S. Government,  
ou=DoD, ou=PKI, ou=USA,  
cn=SEMMLER.JAY.A.1230562241  
Date: 2013.01.25 15:00:37 -06'00'

JAY A. SEMMLER, P.E.  
Chief, Hydraulic & Environmental  
Engineering Section

RAUWERDINK.MA  
RGARET.A.129320  
5155

Digitally signed by  
RAUWERDINK.MARGARET.A.1293205155  
DN: c=US, o=U.S. Government, ou=DoD,  
ou=PKI, ou=USA,  
cn=RAUWERDINK.MARGARET.A.1293205155  
Date: 2013.01.25 10:14:50 -06'00'

Rauwerdink/x5502

TS-DH-E

MILLER.JENNIFER  
.A.1239560950

Digitally signed by  
MILLER.JENNIFER.A.1239560950  
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,  
ou=USA, cn=MILLER.JENNIFER.A.1239560950  
Date: 2013.01.25 14:15:35 -06'00'

**Hazardous, Toxic, and Radioactive Waste (HTRW)  
And Non-HTRW Investigation  
Ravine 8 Section 506  
Great Lakes Fishery & Ecosystem Restoration Project**

---

**Table of Contents**

**INTRODUCTION .....5**

**AUTHORITY .....5**

**GUIDANCE .....5**

    HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE .....5

    NON-HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE .....6

**LAWS AND REGULATIONS .....6**

    FEDERAL .....6

    STATE .....6

**SITE DESCRIPTION .....7**

**PROJECT DESCRIPTION .....8**

**GENERAL METHODS .....9**

**EXISTING INFORMATION REVIEW .....9**

    WATER QUALITY .....9

    WETLANDS .....10

**DATABASE SEARCH .....10**

    RAVINE 8 RESULTS .....11

    CERCLIS .....13

    RCRA INFO .....13

    ERNS .....13

    SSU .....13

    SWF/LF .....14

    LUST/UST .....14

    SITE REMEDIATION PROGRAM .....14

    OTHER DATABASES .....14

    ORPHAN SITES .....14

**AERIAL PHOTOGRAPH REVIEW .....14**

**SANBORN MAP REVIEW .....15**

**TOPOGRAPHIC MAP REVIEW .....15**

**SITE VISIT .....15**

**FINDINGS AND CONCLUSIONS .....19**

**REFERENCES .....21**

## List of Tables

Table 1 - Minimum Search Distances for Federal and State Database Searches .....	11
Table 2 - EDR Database Search Summary of Results .....	13

## List of Figures

Figure 1- Ravine 8 Site Location .....	7
Figure 2 - Project Site Map .....	8
Figure 3 - Proposed Site Layout .....	9
Figure 4 – EDR Overview Map .....	12
Figure 5 - View of Ravine looking east from Lake Avenue .....	16
Figure 6 - Close-up of Storm Water Outlet into Ravine .....	17
Figure 7 - Storm Water Outlet, City Sewer Project, and Erosion Control Measures .....	18
Figure 8 - Temporary Erosion Control Measure .....	18
Figure 9 - Mouth of the Ravine looking towards the Beach .....	19
Figure 10 - Mouth of the Ravine from the Beach .....	19

## **INTRODUCTION**

The purpose of this report is to discuss the hazardous, toxic, and radioactive waste (HTRW) investigation for the Ravine 8 Section 506, Great Lakes Fisheries and Ecosystem Restoration Project. This report identifies Recognized Environmental Conditions (RECs), and presents appropriate measures to resolve the issues. The methods used in performing the investigation are described in detail. Conclusions and recommendations regarding potential impacts due to RECs associated with the project site are provided.

No investigation can wholly eliminate uncertainty regarding the potential for encountering a REC associated with a project area. Performance of this investigation is intended to reduce, but not eliminate, uncertainty regarding the potential for encountering a REC in connection with a project area.

## **AUTHORITY**

Engineer Regulation (ER) 1165-2-132, Hazardous, Toxic, and Radioactive Waste (HTRW) Guidance for Civil Works projects, requires that a site investigation be conducted as early as possible to identify and evaluate potential HTRW problems. According to ER 1165-2-132, non- HTRW issues that do not comply with the federal, state, and local regulations should be discussed in the HTRW investigation along with HTRW issues. Therefore HTRW and non- HTRW issues identified are discussed in this report.

The investigation presented in this report was conducted during the feasibility phase of the project. The report was performed at the level of detail required and relies on existing information, observations made through database research, Sanborn map review, historical topography map review, a site visit, and a historical aerial photograph review.

## **GUIDANCE**

Supplemental guidance was provided by the Standard Practice for Environmental Assessments: Phase I Environmental Site Assessment Process (Designation: E 1527-05) prepared by the American Society for Testing of Materials (ASTM). The guidance defines a standard of good commercial and customary practice for conducting an environmental site assessment of a parcel of property; the goal of the process established by this practice is to identify Recognized Environmental Conditions (RECs) through a records review, site visit, interviews, and report preparation. This report followed many of the ASTM E 1527-05 guidelines but not to the same level of detail described by the ASTM E 1527-05 guidance.

## **Hazardous, Toxic, and Radioactive Waste**

The objective of ER 1165-2-132 is to outline procedures to facilitate early identification and appropriate consideration of HTRW problems. This investigation therefore identifies potential

HTRW problems and discusses resolutions and/or provides recommendations regarding the problems identified.

## **Non-Hazardous, Toxic, and Radioactive Waste**

According to ER 165-2-132, non-HTRW environmental issues that do not comply with federal, state, and local regulations should be discussed in the HTRW investigation along with HTRW issues. For example, solid waste is a non-HTRW issue considered. In addition, petroleum releases from Leaking Underground Storage Tanks (LUSTs) are not considered HTRW, but are considered because of the potential to impose environmental hazards. Non-HTRW problems identified during the investigation are also discussed in this report, along with resolutions and/or recommendations for resolving any issues.

## **LAWS AND REGULATIONS**

### **Federal**

The definition of HTRW according to ER 1165-2-132, page 1, paragraph 4(a) is as follows: “Except for dredged material and sediments beneath navigable waters proposed for dredging, for purposes of this guidance, HTRW includes any material listed as a ‘hazardous substance’ under the Comprehensive Environmental Response, Compensation and Liability Act 42 U.S.C. 9601 et seq (CERCLA). (See 42 U.S.C. 9601(14).) Hazardous substances regulated under CERCLA include ‘hazardous wastes’ under Sec. 3001 of the Resource Conservation and Recovery Act, 42 U.S.C.6921 et seq; ‘hazardous substances’ identified under Section 311 of the Clean Air Act, 33 U.S.C. 1321; ‘toxic pollutants’ designated under Section 307 of the Clean Water Act, 33 U.S.C.1317; ‘hazardous air pollutants’ designated under Section 112 of the Clean Air Act, 42 U.S.C.7412; and ‘imminently hazardous chemical substances or mixtures’ on which EPA has taken action under Section 7 of the Toxic Substance Control Act, 15 U.S.C. 2606; these do not include petroleum or natural gas unless already included in the above categories. (See 42 U.S.C. 9601(14).)”

As stated in the definition of hazardous substance in the Environmental Statutes, 1988 Edition, the term does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a hazardous substance under the definition. Underground Storage Tanks (USTs) are federally regulated under 40 CFR Part 280, which includes technical standards and corrective action requirements for owners and operators of USTs.

### **State**

The Illinois State regulations were examined to determine which regulations governed the state specific hazardous waste disposal, release, and cleanup requirements. Illinois regulates USTs under Illinois Administrative Code, Title 35, Subtitle G, Chapter I, Subchapter D, Part 731, Underground Storage Tanks. The definition of a regulated substance under this regulation means any “hazardous substance” or “petroleum”. Hazardous substance UST is defined as an UST

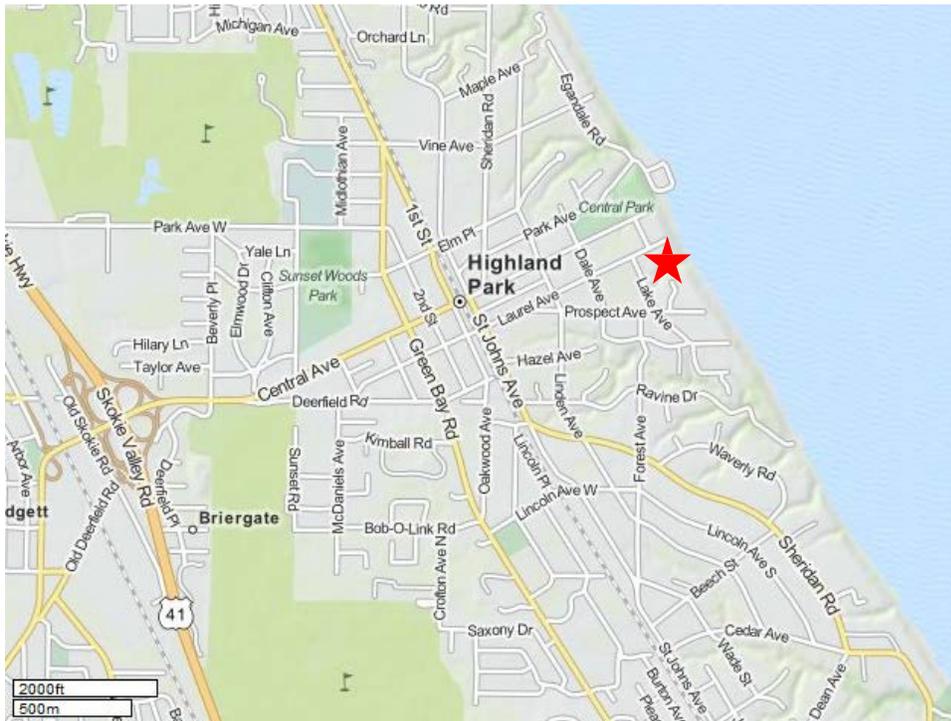
system that contains a “hazardous substance”, or any mixture of “hazardous substances” and “petroleum” which is not a petroleum UST system. Petroleum UST means any UST system that contains petroleum or a mixture of petroleum with minimal quantities of other regulated substances. Owners and operators of petroleum or hazardous substance UST systems must comply with the requirements of Part 731 except for USTs excluded under Section 731.110(b) and UST systems subject to RCRA corrective action requirements under 35 Ill. Adm. Code 724.200, 724.296, 725.296, or 725 Subpart G.

Other Illinois hazardous waste regulations included in 35 Illinois Administrative Code Subtitle G, Chapter I, Waste Disposal include Subchapter b, Permits; Subchapter c, Hazardous Waste Operating Requirements; Subchapter d, Part 738, Hazardous Waste Injection Restrictions; Subchapter e, Specific Hazardous Waste Management Standards; and Subchapter h, Illinois “Superfund” Program.

## SITE DESCRIPTION

The study area is located in Lake County, Illinois within the City of Highland Park (Figure 1). Ravine 8 is positioned east of Lake Avenue between Laurel Avenue to the north and Crescent Court to the south. The restoration project is located along the ravine itself and the adjacent bluff and foredunes of Lake Michigan. The project footprint is approximately 5 acres (Figure 2). The area surrounding the ravine is residential. The ravine itself consists of undeveloped steep slopes, with native and non-native plants. The City of Highland Park maintains a sanitary sewer line under the ravine.

**Figure 1- Ravine 8 Site Location**



**Figure 2 - Project Site Map**



## **PROJECT DESCRIPTION**

The Ravine 8 Project is intended to restore the natural features of the ravine and adjacent bluff. The objectives of this project include restoring altered hydrology and hydraulics, native plant community preservation, and addressing invasive species. The proposed restoration project may include the following measures:

- Using a storm water pipe to connect the main discharge culvert at the top of the ravine to the bottom, removing storm water from the ravine.
- Recontouring the mouth of the ravine at the beach.
- Installing riffles along the ravine.
- Invasive species removal.
- Native species seeding and plugging.

The proposed site layout is shown in Figure 3 below.

**Figure 3 - Proposed Site Layout**



## GENERAL METHODS

The following sections contain information that was requested and gathered in accordance with ER 1165-2-132 for this assessment. The information was obtained from:

- Existing information review
- Database search performed by Environmental Data Resources, Inc. (EDR)
- Historical aerial photographs
- Historical topography maps
- Historical Sanborn maps
- Site visit

This information was used to determine if the restoration measures for the project will have an impact on any RECs that may exist in the surrounding areas, and if these will have an impact on the implementation of the project. The information gathered from the above list of sources is detailed in the following sections.

## EXISTING INFORMATION REVIEW

### Water Quality

Any water body that does not meet or is not expected to meet the State's water quality standards is considered impaired and is placed on the 303(d) list in accordance with the Clean Water Act. Impaired

waterways include waters that fail to meet any narrative, numeric, chemical, physical, or biological standard/criteria.

No information is available on the ravine itself, or the beach adjacent to it. The ravine is not listed on the Illinois EPA 303(d) list of impaired waterways. See Attachment A for results of water quality information available through USEPA My Waters Mapper online information service.

Three water monitoring stations appear in Lake Michigan north of the project site on the map of the project area. However, stations QJ-05 and QJ-06 (the most northerly) have no available information. Station 21ILBCH\_WQX-PARKAVE, closest to shore, is seasonally active and part of the beach *E. coli* monitoring program. The Highland Park Boating Beach/Park Ave Beach had no closings listed in 2012 and had some listed for previous years. This section of beach north of the project site is also assessed under the Illinois EPA's 303(d) listings. It was listed in 2008 for Fish Consumption and Primary Contact Recreation. The causes of this listing were given as *E. coli* for Primary Contact Recreation, and as mercury and PCBs for Fish Consumption. The status of the Highland Park Boating Beach/Park Ave Beach will not affect the Ravine 8 project.

Within the ravine, the City of Highland Park has recently removed and replaced the sanitary sewer line. The new system is buried in the bottom of the ravine and is joined to the Lake Michigan sewage interceptor. No sewage is discharged into the ravine. The Ravine 8 project will ensure the protection of the City of Highland Park's work.

## **Wetlands**

The United States Fish and Wildlife Service (FWS) is the principle Federal agency that provides wetland information to the public and other agencies. In 1986, the Emergency Wetlands Resources Act mandated that the FWS complete the mapping and digitizing of the Nation's wetlands. The result of this effort is the Wetlands Geospatial Data Layer. This data layer houses all of the Service digital geospatial wetlands data, and forms the Wetlands Spatial Data Layer of the National Spatial Data Infrastructure (NSDI). The NSDI is a way of enhancing the accessibility, communication, and use of geospatial data to support a wide variety of decisions at all levels of society.

A review of the information available online using the FWS wetland mapper suggests there are no areas of wetlands along the project site. See Attachment B for results of wetland mapper information.

## **DATABASE SEARCH**

A search of available environmental records was conducted utilizing Environmental Database Resources, Inc. (EDR) online. EDR searched federal and state databases using the minimum search distances issued in the ASTM E 1527-05 guidelines. Table 1 notes the recommended ASTM search distances for federal and state databases.

**Table 1 - Minimum Search Distances for Federal and State Database Searches**

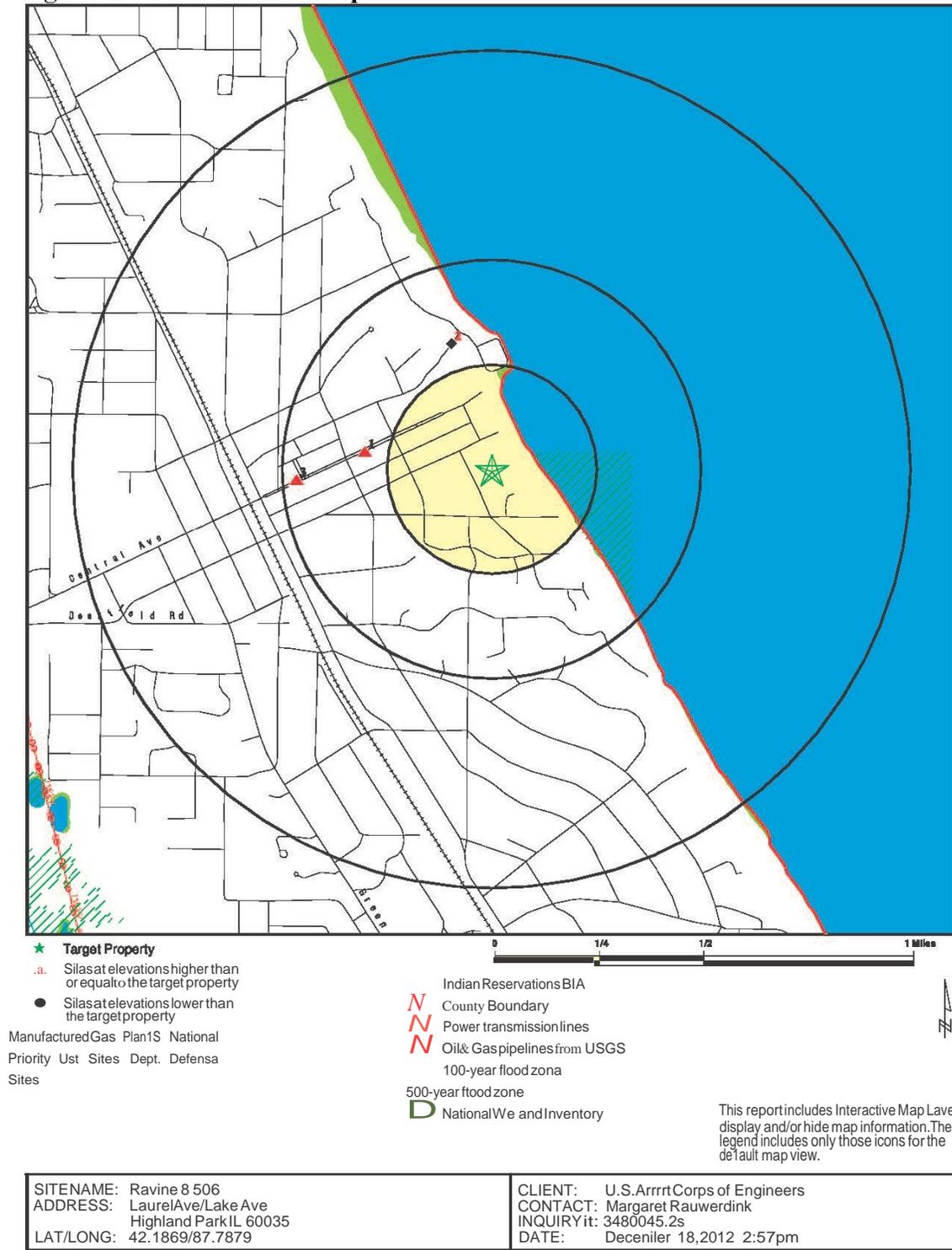
<b>Database</b>	<b>Minimum Search Distance (mi)</b>
Federal NPL Site List	1.0
Federal CERCLIS List	0.5
Federal CERCLIS NFRAP site list	Property and Adjoining Properties
Federal RCRA CORRACTS Facilities List	1.0
Federal RCRA non-CORRACTS TSD Facilities List	0.5
Federal RCRA Generators List	Property and Adjoining Properties
Federal ERNS List	Property Only
State Equivalent NPL	1.0
State Equivalent CERCLIS	0.5
State Landfill/Solid Waste Disposal Site Lists	0.5
State LUST Lists	0.5
State registered UST List	Property and Adjoining Properties

## **Ravine 8 Results**

The EDR overview map displaying the project area and the search results can be seen in Figure 4. The comprehensive EDR database report is provided as Attachment C. Very few sites were returned in the database search. Results of the EDR database search for Ravine 8 are summarized in Table 2.

**Figure 4 – EDR Overview Map**

**Figure 4: EDR Overview Map**



**Table 2 - EDR Database Search Summary of Results**

<b>Database</b>	<b>EDR Map ID</b>	<b>Site Name</b>	<b>Address</b>	<b>Status</b>
LUST	1	Fishbane, Mike	294 Central Ave. (W of site)	Non-LUST Determination letter: 12/27/2001
LUST	3	City of Highland Park	445 Central Ave. (W of site)	NFA/NFR letter: 3/05/2010
LUST	2	Central Park	31 Park Ave. (NNW of site)	NFA/NFR letter: 2/17/1995

## **CERCLIS**

The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) contains data on any potential hazardous waste site that has been reported by states, municipalities, private companies, or private persons pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLIS database indicates the stages of evaluation and remediation that have been completed for any given site. The CERCLIS database includes the National Priority List (NPL), which identifies over 1,200 sites for priority cleanup under the Superfund program, and the CERCLIS-No Further Remedial Action Planned (NFRAP) List, which includes a listing of sites that have been removed from CERCLIS, for various reasons. The database search located no NPL, CERCLIS, or CERCLIS- NFRAP sites within the search distance.

## **RCRA Info**

The Resources Conservation and Recovery Information System (RCRIS) lists sites which generate, transport, store, and/or dispose of hazardous waste defined by the Resource Conservation and Recovery Act (RCRA). The RCRIS database includes RCRA Corrective Action Reports (CORRACTS), which identify hazardous waste handlers with RCRA corrective action activity; RCRA treatment, storage, and disposal facilities (TSDFs); and RCRA conditionally exempt small quantity generators (CESQGs), small quantity generators (SQGs), and large quantity generators (LQGs) facilities. The database search located no RCRA sites within the search distance.

## **ERNS**

The Emergency Response Notification System (ERNS) database lists information on reported releases of oil and hazardous substances. The database search found no ERNS sites within the search distance.

## **SSU**

The Illinois EPA's State Sites Unite (SSU) is the state equivalent to the CERCLIS list. These sites may or may not have already been listed on the federal CERCLIS list. The State Response Action Program database identifies that status of all sites under the responsibility of the SSU. The database search yielded no SSU sites within the search distance.

## **SWF/LF**

The Illinois EPA records the state's Solid Waste Facilities/Landfill sites (SWF/LF). These sites may be active or inactive facilities or open dumps that do not meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites. The database search located no SWF/LF sites within the search distance.

## **LUST/UST**

The Illinois State Fire Marshall maintains a listing of registered underground storage tanks (USTs), as required by RCRA Subtitle I. The Illinois Environmental Protection Agency maintains a listing of leaking underground storage tank (LUST) reports. The database search located 3 LUST facilities within the recommended search distances.

Further investigation shows that one site (Fishbane, Mike) had a Non-LUST determination letter recorded on 12/27/2001. Both of the remaining two sites, City of Highland Park and Central Park, have NFA/NFR letters. Due to the status of these sites and their distances from the project, it is not anticipated that they will affect the project.

## **Site Remediation Program**

The Site Remediation Program (SRP) database lists all voluntary remediation projects administered through the pre-notice site clean-up program (1989 to 1995) and the site remediation program (1996 to present). The Brownfields database lists sites that have received grants under the Illinois Municipal Brownfields Redevelopment Grant Program for site investigation and cleanup activities. The database search located no sites within the search distance.

## **Other Databases**

Various other databases are searched by EDR that include supplemental information to the above databases, including: CERCLA consent decrees, National Priority list deletions, Nuclear Regulatory Commission's database of sites possessing radioactive materials, Superfund Liens, PCB Activity Database, Department of Defense sites, Toxic Chemical Release Inventory, FIFRA/TSCA tracking system, oil and gas pipelines, DOD, FUDS, and Navy Land Use Control, open dump and mine inventory, electric transmission lines, sensitive receptors, flood zone data, the national wetlands inventory, and others. The search of these databases did not return any sites with the search distance.

## **Orphan Sites**

Only three orphan sites were given in the EDR database search. These were reviewed but none are of concern. Two orphan sites had intersections listed. The addresses were easily located and are far away from the project site. The remaining orphan site is a mine pit. An internet search shows that the most likely location of the Lake County Pit is 30 miles NW of the project site. None of these sites will affect the project.

## **AERIAL PHOTOGRAPH REVIEW**

Historic aerial photographs of the site were obtained from EDR for review and comparison. Aerial photographs of the site can help identify potential RECs. Potential RECs can be possibly determined by identifying the past land use and site activities at the project area and surrounding areas. For

instance, identifying industrial and residential areas, observing any evidence of dumping activities, and locating extensive areas that lack vegetation can determine indications of potential RECs.

Aerial photographs from the years 1939, 1951, 1962, 1972, 1978, 1986, 1988, 1994, 1999, 2005, and 2007 were provided. See Attachment D for images of the site. Aerial photographs show little change in land use over the years, with most the residential streets and the water intake and treatment facilities near Highland Park Boating Beach/Park Ave Beach predating the 1939 photographs. According to the City of Highland Park website, the lakefront pump-station was built in 1893-1894. The area is consistently residential, with many trees. The ravines in the area are more or less visible depending on the time of year of the photograph. No likely RECs were identified from the aerial photographs.

## **SANBORN MAP REVIEW**

A Sanborn Map search was used as a resource for this investigation (Attachment E). Sanborn fire insurance maps can be used to help track historical property usage. Maps covering the project site for the years 1918, 1924, 1933, 1947, and 1972 were found.

Already in the 1918 Sanborn map the area is residential, showing Lake and Laurel Avenues and some houses. Nothing is drawn east of Lake Ave., so it is unclear if those houses nearest the ravine also exist at this time. Starting with the 1924 Sanborn map, the ravine itself is included. There are additional houses along Lake Ave and Crescent Ct., and a small bridge is drawn over the ravine. This bridge is drawn through the last map available, 1972. It cannot be seen in the aerial photographs due to scale and dense trees. During the project site visit, no bridge was seen so it was removed at some point. The Sanborn maps show houses being built or remodeled, but overall the area remains residential. No likely RECs were identified from the Sanborn map review.

## **TOPOGRAPHIC MAP REVIEW**

The historical USGS topographic maps provided by EDR are included as Attachment F. Historical topographic maps from the years 1900, 1948, 1951, 1963, 1972, 1980, 1993, and 2000 are provided.

Review of the historical topographic maps indicates that Lake and Laurel Avenues, as well as some of the homes near the project site predate 1900. Although the area is residential, it is not very developed. By the 1948 topographic map, the area is highly developed and the rest of the homes and smaller streets are seen. Although the lakefront water intake was built in 1893-1894 according to the City of Highland Park website, it is not on the topographic maps until 1951. No significant land use changes are shown in the years covered by the historical topographic maps. Past and existing land uses surrounding the project site do not likely pose any RECs based on the data presented.

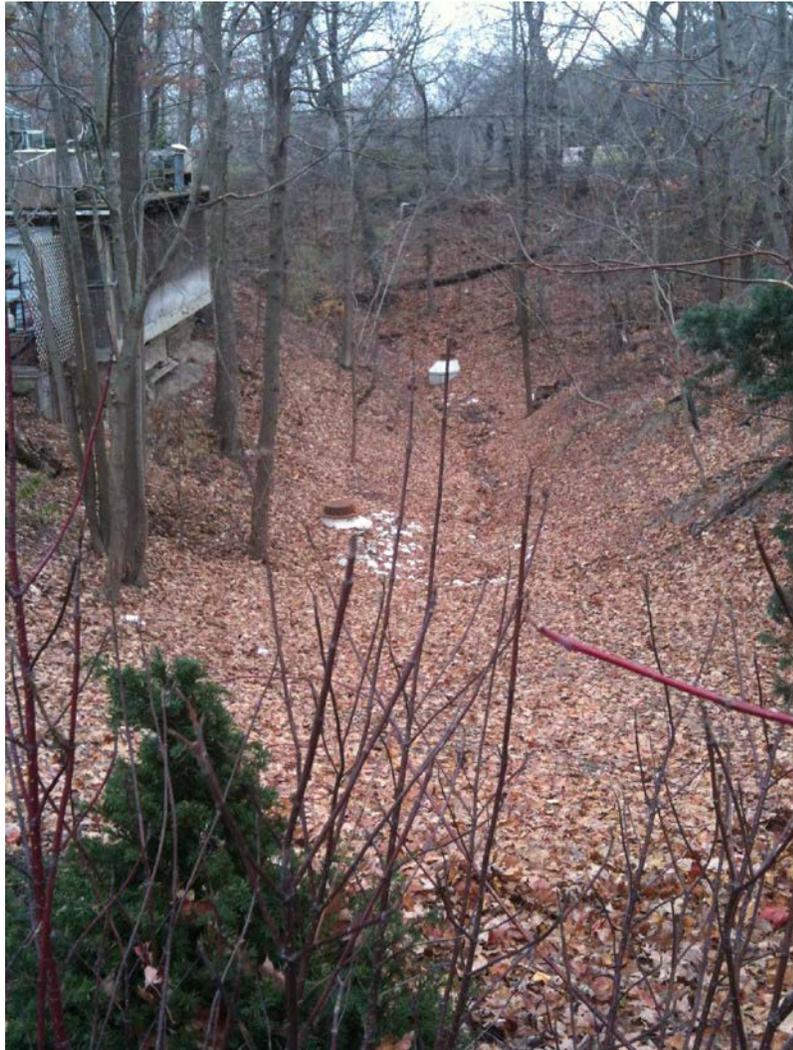
## **SITE VISIT**

A site visit was conducted on November 11, 2012 by staff members from TS-DH (J. Fuller and M. Rauwerdink), PM-PL-E (F. Veraldi), and TS-DG (D. Ferris). The purpose of the visit was to become acquainted with the site and examine the site for evidence of any RECs that may not have been previously revealed. Photos from the site visit can be seen below in Figures 5 – 10.

The length of the ravine from Lake Ave to the beach was walked. Overall the top of the ravine was dry, as no rainfall had occurred in the recent weeks. The bottom of the ravine was wet, probably from groundwater discharge. Although most plants and trees were dormant for the winter, it was apparent the area is typically lush with vegetation. Very little garbage was seen in or near the ravine. This is a residential area, and appeared very clean and well-maintained.

The above-ground portions of the City of Highland Park sewer line project were visible along the ravine. This project will not negatively affect the City's work. Additionally, some temporary erosion control measures were seen along the ravine. These are an attempt to deal with storm water runoff. This project would contain the storm water and prevent future channel incision from storm water. No potential RECs were identified on the site visit.

**Figure 5 - View of Ravine looking east from Lake Avenue**



**Figure 6 - Close-up of Storm Water Outlet into Ravine**



**Figure 7 - Storm Water Outlet, City Sewer Project, and Erosion Control Measures**



**Figure 8 - Temporary Erosion Control Measure**



**Figure 9 - Mouth of the Ravine looking towards the Beach**



**Figure 10 - Mouth of the Ravine from the Beach**



## **FINDINGS AND CONCLUSIONS**

This investigation was performed to determine if the selected measures for the Ravine 8 project will have an impact on any RECs that may exist in the surrounding areas, and if any RECs will have an impact on the implementation of the project. According to ER 1165-2-132, non-HTRW issues that do not comply with federal, state, and local regulations should be discussed in the HTRW evaluation along with HTRW issues.

Historical aerial photographs, USGS topographic maps, and Sanborn fire insurance maps of the site were obtained from EDR. These imagines generally reflected little change in land use over

the years. The area has remained primarily residential. No sites were identified in the historical images that would likely impact the project area.

Data presented in the EDR Database Report did not indicate any surrounding sites that are likely to pose concerns to the project resulting from federal or state regulated facilities within the ASTM established search distances. Three LUSTs were identified in the area according to the database search, however further investigation showed that 1 had a non-LUST determination letter and the remaining two had NFA/NFR letters. Due to the status of these sites and their distance from the project, it is not anticipated that they will affect the project. No other issues were identified in the database review.

A site visit was conducted along the project area which revealed that the ravine and its slopes within the project area are generally clean and free of garbage. The site visit revealed no RECs at the project site. The City of Highland Park maintains a sanitary sewer line under the ravine. The Ravine 8 project will ensure the protection of the City of Highland Park's work.

No investigation can wholly eliminate uncertainty regarding the potential for encountering RECs associated with a project area. Performance of this investigation is intended to reduce, but not eliminate, uncertainty regarding the potential for encountering a REC in connection with a project area. As a result of this analysis, TS-DH has concluded that there is sufficient information to demonstrate that the work proposed for the Ravine 8 project has little potential for encountering a REC.

## REFERENCES

35 Illinois Administrative Code. Environmental Regulations for the State of Illinois.

American Society for Testing of Materials. Publication E 1527-05. Standard Practice for Environmental Assessments: Phase I Environmental Site Assessment Process.

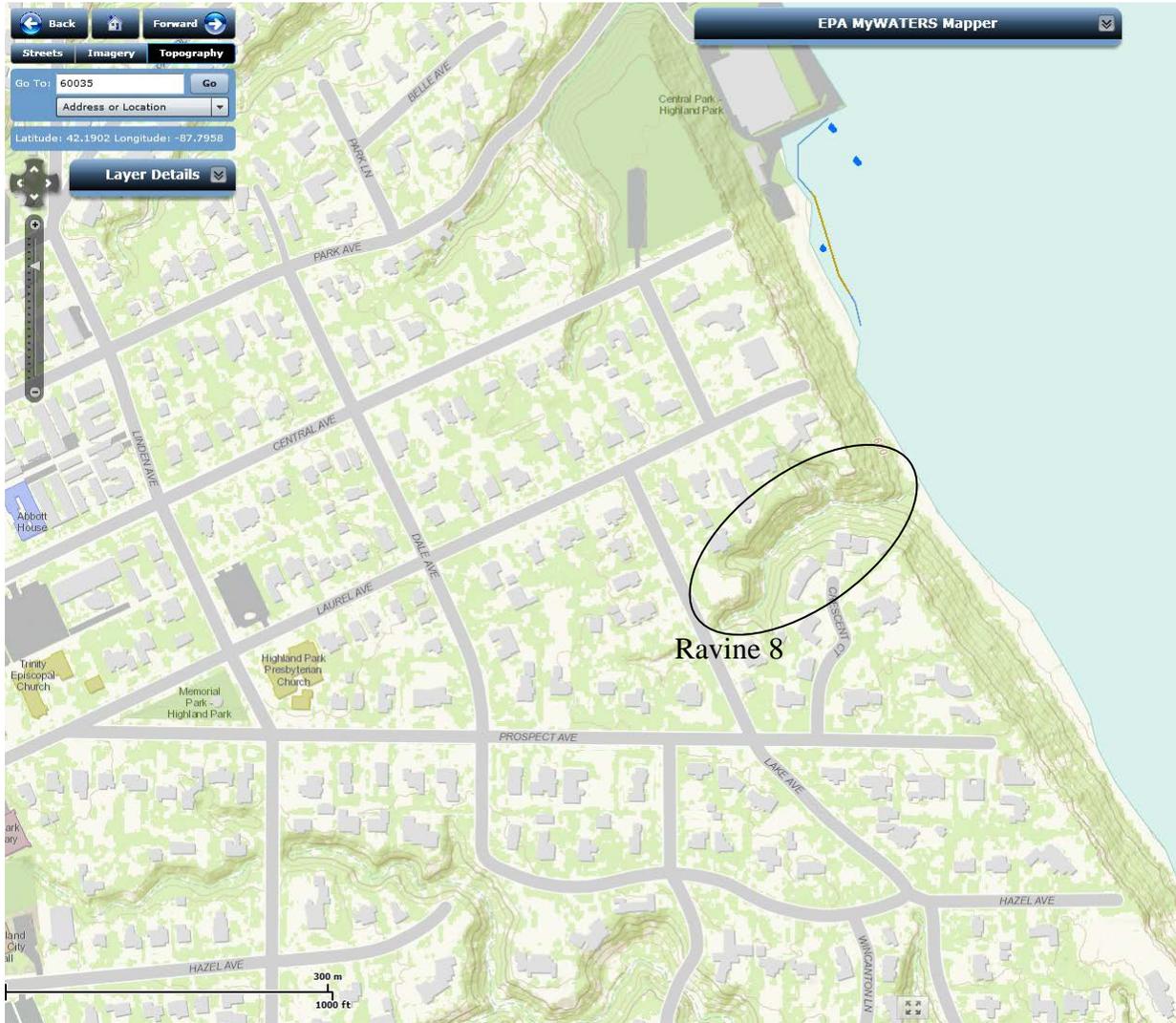
Department of the Army. U.S. Army Corps of Engineers. ER 1165-2-132. Hazardous, Toxic, and Radioactive Waste (HTRW) Guidance for Civil Works Projects. June 1992.

**HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE (HTRW)  
AND NON-HTRW INVESTIGATION**

**Ravine 8 Section 506  
Great Lakes Fisheries & Ecosystem Restoration Project  
Lake County, IL**

Attachment A  
USEPA My Waters Mapper

# EPA MyWATERS Mapper



Printed: January 15, 2013



**U.S. ENVIRONMENTAL PROTECTION AGENCY**

BEACON - Beach Advisory and Closing On-line Notification

[Recent Additions](#) | [Contact Us](#) | [Print Version](#) Search:  **GO**

[EPA Home](#) > [Water](#) > [Water Science](#) > [Beaches](#) > [BEACON](#) > [IL](#) > [Lake](#) > Local Beach

# Beach Profile for Highland Park Avenue Boating Beach



[Beach Watch Home](#)

[Back to National Map](#)

[Back to State Map](#)

[Back to County Map](#)



[Location Disclaimer](#) [Go to MyWATERS Mapper](#)

**Data for:** [Click here for Historical Data](#)  
2012

**Beach Advisories and Closings:** 0

**Beach Contact Information:**  
**Name:** Mark Pfister  
**Agency:** Lake County Health Department  
**Phone:** 847-377-8028  
**Email:** Mpfister@co.lake.il.us  
**URL:** <http://www.lakecountyil.gov/Health/want/SwimCast.htm>

- [Beach Profile](#)
- [Water Quality](#)
- [Advisories and Closings](#)
- [Local Contacts](#)

**This page lists General Beach Information.**

*Beach Location*

**Nearest City or Town:**  
**State:** Illinois  
**County:** Lake  
**Beach Waterbody Name:**  
**Beach Waterbody Location:**  
**Beach Waterbody Type:** Still Water

*Beach Characteristics*

**Public or private beach:**  
**Beach Length:** 0.13 MI  
**Number of Months in the Swimming Season:** 90

---

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

Last updated on Tuesday, January 15th, 2013  
URL: [http://ofmpub.epa.gov/tmdl\\_waters10/BEACON\\_BEACH\\_PAGE.main?  
p\\_beach\\_id=125230&p\\_county\\_fips=097&p\\_state\\_fips=17&p\\_tab=1](http://ofmpub.epa.gov/tmdl_waters10/BEACON_BEACH_PAGE.main?p_beach_id=125230&p_county_fips=097&p_state_fips=17&p_tab=1)



## Watershed Assessment, Tracking & Environmental

**Results:** [EPA Home](#) [Water](#) [WATERS](#) [Water Quality Assessment and TMDL Information](#) Waterbody Quality Assessment Report

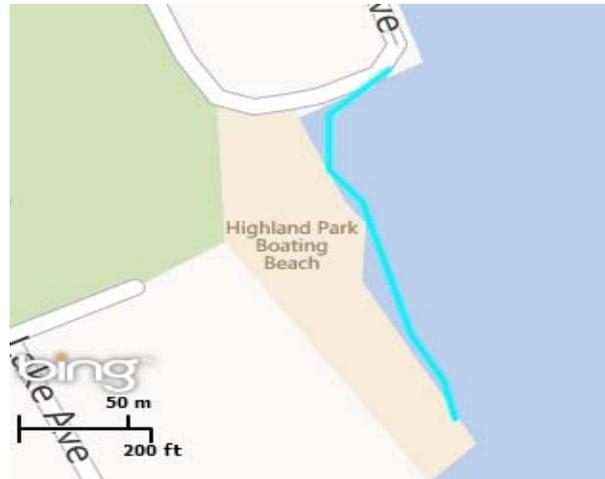
[Return to home page](#)

### On This Page

- [Causes of Impairment](#)
- [Probable Sources Contributing to Impairments](#)

**State:** [Illinois](#)  
**Waterbody ID:** IL\_QJ-05  
**Location:** 04060200, 1, Lake Co  
**State Waterbody Type:** Great Lakes Shoreline  
**EPA Waterbody Type:** Great Lakes Shoreline  
**Water Size:** 1  
**Units:** miles  
**Watershed Name:** [Lake Michigan](#)

## 2008 Waterbody Report for Park Ave. Beach



Click on the waterbody for an interactive map

### Features

- [About This Database \(Integrated Report\)](#)
- [Assessing Water Quality \(Questions and Answers\)](#)
- [Integrated Reporting Guidance](#)
- [Previous National Water Quality Reports](#)
- [EnviroMapper for Water](#)
- [AskWATERS](#)
- [EPA WATERS Homepage](#)
- [Exchange Network](#)
- [Assessment Database](#)
- [Statewide Statistical Surveys](#)
- [How's My Waterway Local Search tool](#)
- [Pollution Categories Summary Document](#)

## Water Quality Assessment Status for Reporting Year 2008

The overall status of this waterbody is Impaired.

[Description of this table](#)

<a href="#">Designated Use</a>	<a href="#">Designated Use Group</a>	<a href="#">Status</a>
Aesthetic Quality	Aesthetic Value	Not Assessed
Aquatic Life	Fish, Shellfish, And Wildlife Protection And Propagation	Not Assessed
Fish Consumption	Aquatic Life Harvesting	Impaired
Primary Contact Recreation	Recreation	Impaired
Secondary Contact	Recreation	Not Assessed

**Causes of Impairment for Reporting Year 2008**

[http://ofmpub.epa.gov/waters10/attains\\_waterbody.control?p\\_au\\_id=IL\\_QJ-05&p\\_cycle=2008](http://ofmpub.epa.gov/waters10/attains_waterbody.control?p_au_id=IL_QJ-05&p_cycle=2008)

Last updated on Tuesday, January 15, 2013

Description of this table

<u>Cause of Impairment</u>	<u>Cause of Impairment Group</u>	<u>Designated Use (s)</u>	<u>State TMDL Development Status</u>
Escherichia Coli (E. Coli)	Pathogens	Primary Contact Recreation	TMDL needed
Mercury	Mercury	Fish Consumption	TMDL needed
Polychlorinated Biphenyls (PCBs)	Polychlorinated Biphenyls (PCBs)	Fish Consumption	TMDL needed

**Probable Sources Contributing to Impairment for Reporting Year 2008**Description of this table

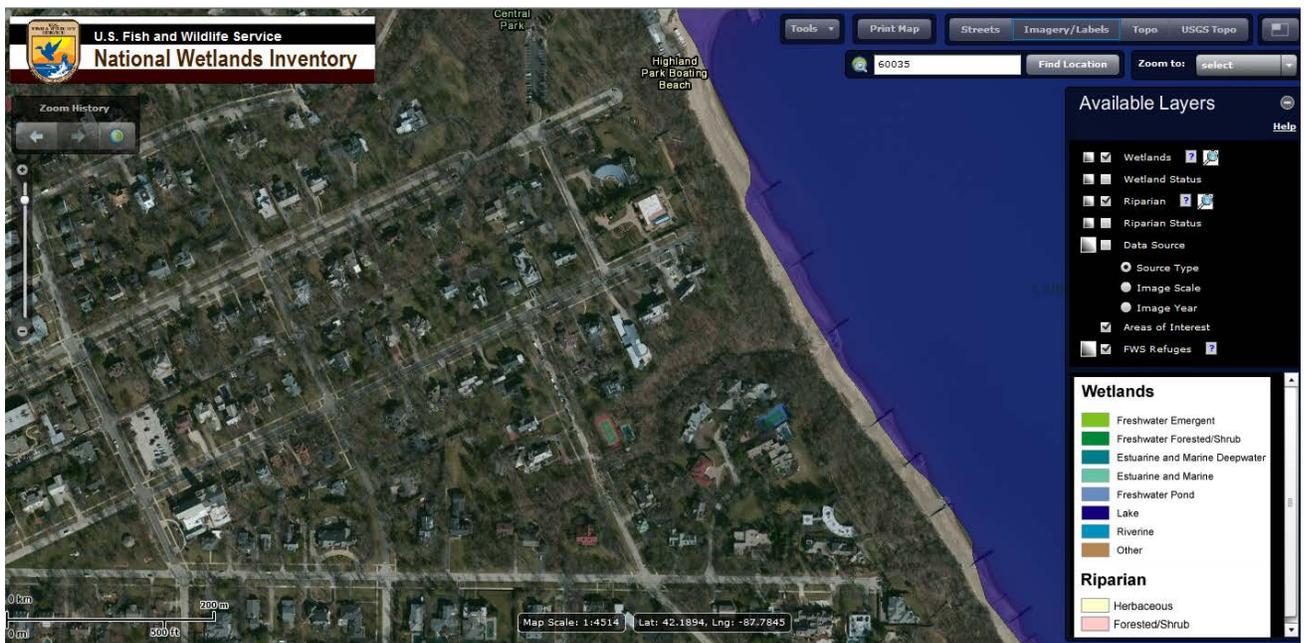
<u>Probable Source</u>	<u>Probable Source Group</u>	<u>Cause(s) of Impairment</u>
Atmospheric Deposition - Toxics	Atmospheric Deposition	Mercury
Source Unknown	Unknown	Escherichia Coli (E. Coli); Mercury; Polychlorinated Biphenyls (PCBs)

**HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE (HTRW)  
AND NON-HTRW INVESTIGATION**

**Ravine 8 Section 506  
Great Lakes Fisheries & Ecosystem Restoration Project  
Lake County, IL**

Attachment B  
US FWS Wetlands Spatial Data Layer – NSDI Database Results

# USFWS – National Wetlands Inventory Map



Printed: January 16, 2013

**HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE (HTRW)  
AND NON-HTRW INVESTIGATION**

**Ravine 8 Section 506  
Great Lakes Fisheries & Ecosystem Restoration Project  
Lake County, IL**

Attachment C  
EDR Database Report

(double click paperclip icon to see attachment)



**HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE (HTRW)  
AND NON-HTRW INVESTIGATION**

**Ravine 8 Section 506  
Great Lakes Fisheries & Ecosystem Restoration Project  
Lake County, IL**

Attachment D  
Historical Aerial Photographs

(double click paperclip icon to see attachment)



**HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE (HTRW)  
AND NON-HTRW INVESTIGATION**

**Ravine 8 Section 506  
Great Lakes Fisheries & Ecosystem Restoration Project  
Lake County, IL**

Attachment E  
Historical Sanborn Maps

(double click paperclip icon to see attachment)



**HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE (HTRW)  
AND NON-HTRW INVESTIGATION**

**Ravine 8 Section 506  
Great Lakes Fisheries & Ecosystem Restoration Project  
Lake County, IL**

Attachment F  
Historical Topographic Maps

(double click paperclip icon to see attachment)

