



U.S. Steel Gary Works  
1 North Broadway  
Gary, IN 46402

description of each of these monitoring programs along with the associated data results can be found on the U. S. Steel web site referenced in this newsletter. The monitoring information is also located in the project public information repository in the Indiana Room of the Gary Public Library - Main Branch, which is located at 220 West 5th Avenue.

#### GARY WORKS ONLINE

U. S. Steel has set up a web site specifically to provide information about the Grand Calumet Sediment Remediation project. The web site can be accessed through the U. S. Steel Gary Works home page, or directly through the address below. The web site offers information about the Sediment Remediation program and other activities being conducted at Gary Works. It also provides access to meeting minutes and announcements for Community Involvement Team Effort (CITE).

The local Gary Public Library System has computers available for public use. Your librarian will be happy to assist you in accessing the Grand

Calumet Sediment Remediation Project web site.

#### PROJECT HOTLINE

If you have a concern about the impacts of the dredging project to your neighborhood, please call U. S. Steel at (219) 888-1094.

#### CITE

CITE is a community group whose goal is to facilitate a dynamic, open forum to communicate, educate, involve and interact with the public on issues related to RCRA Corrective Action activities and the Grand Calumet River Sediment Remediation Project.

CITE meetings are advertised on the Gary Works web site and in the local newspapers. **The next CITE meeting is scheduled for Wednesday, May, 21, 2003, from 5:30 PM to 7:30 PM.** The meeting will be held in the auditorium of the Gary Public Library - Main Branch, which is located at 220 West 5th Avenue. **The public is invited to attend.** The following CITE meeting is scheduled for Wednesday, July 23, 2003 from

5:30 PM to 7:30 PM in the auditorium of the Gary Public Library - Main Branch.

#### NEWSLETTERS

U. S. Steel will issue newsletters like this one to keep the Gary community informed of the GCR Sediment Remediation Project, and other related activities at Gary Works. To be added or removed from the mailing list for future newsletters, please call one of the contact numbers listed on this page.

#### FOR MORE INFORMATION PLEASE CONTACT:

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Visit the new U. S. Steel Grand Calumet Dredging Project Website:  
[http://www.ussteel.com/corp/rcra/grand\\_calumet\\_river\\_remediation\\_index.htm](http://www.ussteel.com/corp/rcra/grand_calumet_river_remediation_index.htm)

## U. S. STEEL GARY WORKS

# NEWSLETTER

## GRAND CALUMET RIVER SEDIMENT REMEDIATION PROJECT

GCR Issue 2- May 2003



#### GRAND CALUMET RIVER SEDIMENT REMEDIATION PROJECT

United States Steel Corporation (U. S. Steel) continues to remove non-native sediment to create a cleaner Grand Calumet River (GCR) through the Sediment Remediation Project at the Gary Works Facility. U. S. Steel is conducting this work pursuant to an agreement with the U.S. Environmental Protection

#### TOPICS INCLUDED IN THIS NEWSLETTER...

- First phase of Grand Calumet River dredging successfully completed
- Cleaning of Headwaters Culvert completed
- Operations begin at the Water Treatment Plant
- Community Involvement Team Effort (CITE) meeting, May 21, 2003

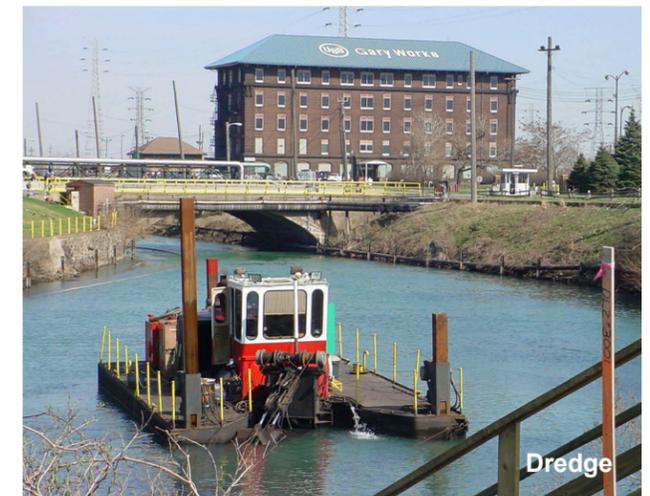
Agency (U.S. EPA), which is contained in a 1999 Clean Water Act Consent Decree (Decree) and a 1998 Resource Conservation and Recovery Act (RCRA) Corrective Action Order (Order).

The Grand Calumet Sediment Remediation Project is the largest of its kind to be undertaken in the United States. It involves dredging approximately 750,000 cubic yards of sediment from a 5-mile stretch of the GCR. The area being dredged begins at the headwaters of the GCR, approximately 1 mile upstream of Tennessee Street. The dredging project area ends approximately 1 mile below Bridge Street. The project also involves construction and operation of an on-site disposal area, designated as a Corrective Action Management Unit (CAMU), for placement of the sediments.

To date, approximately 1.5 miles of the 5-mile stretch of the GCR encompassed in the Sediment Remediation Project have been dredged.

The map on the inside of this newsletter shows the location of the 5 miles included in the project and the areas where dredging is complete. The Sediment Remediation Project continues ahead of schedule, and dredges are currently operating 24 hours a day, 6 days a week at two separate areas along the GCR.

U. S. Steel recognizes the importance of working with members of the Gary community to make the Grand Calumet River Sediment Remediation Project a success. We invite you to look through this newsletter to learn more about the progress of the Sediment Remediation Project, as well as how to find further information or get involved in the project through the

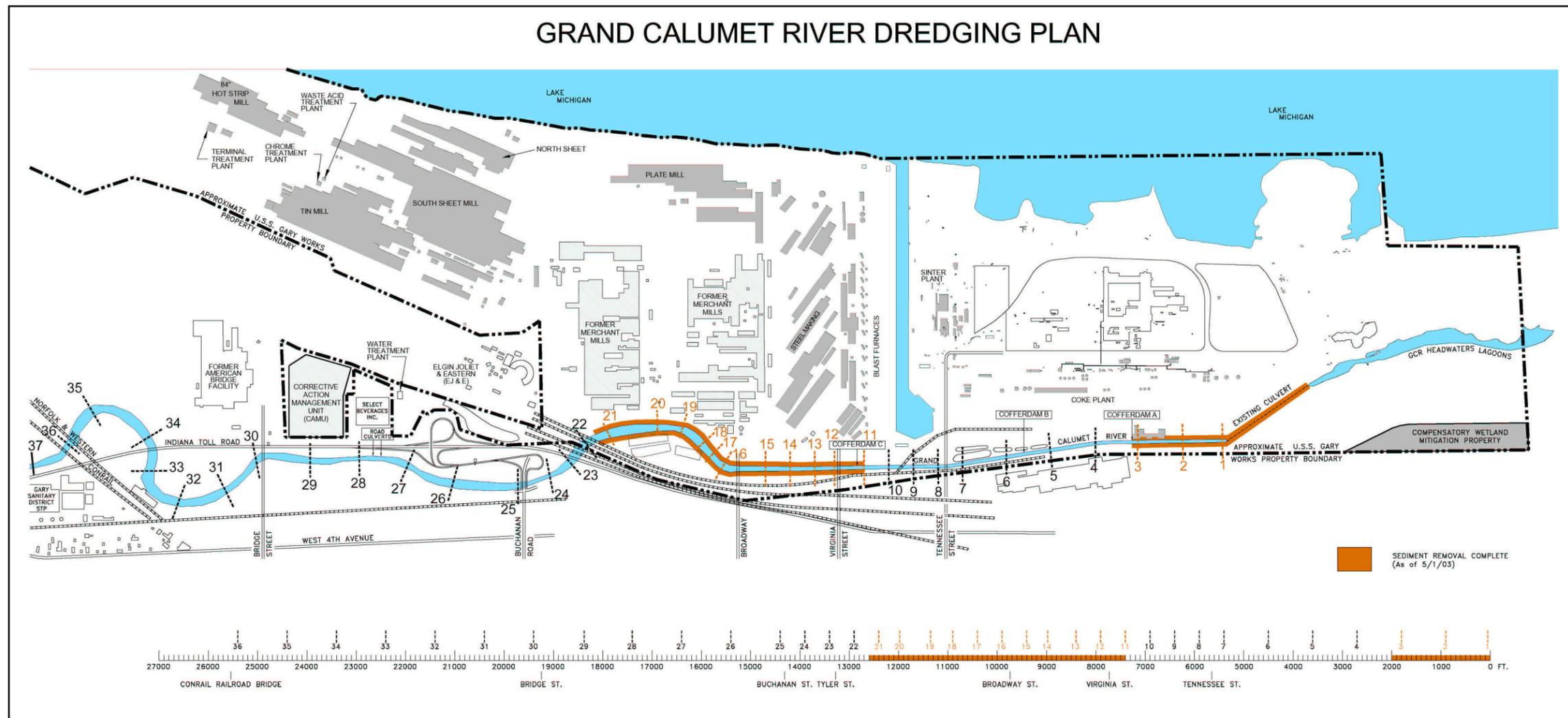


Dredge

Community Involvement Team Effort (CITE) group.

### UPDATE ON DREDGING ACTIVITIES

U. S. Steel began dredging the sediment in the GCR on December 4, 2002 in a section of the GCR downstream of Broadway. This phase of work was completed on December 18, 2002. Approximately 11,000 cubic yards of Polychlorinated Biphenyl (PCB)-impacted sediment were removed from this section of the river. U. S. Steel has confirmed that, in this portion of the GCR, PCBs have been removed to within U.S. EPA accepted concentrations.



On February 25, 2003, U. S. Steel resumed dredging, again in the open waters of the lower 3.5 miles of the GCR project area. The photograph on page 1 shows the 12" dredge being used in the open-water dredging. Since February, the dredging operation has advanced to a point approximately 3,000 feet downstream of Broadway or through approximately 1.4 miles of the GCR. In this portion of the river, an estimated 104,000 cubic yards of sediments have been removed.

On March 20, 2003, and concurrent with the open-water dredging operations downstream, dredging began in the upper 1.5 miles of the project area. Dredging in this area is being conducted within Cofferdam Containment Cell A. Cofferdam

Containment Cells are structures that have been constructed in the river to isolate areas that will be dredged and to allow the flow of the river to be temporarily diverted around these areas during dredging. Dredging in Containment Cell A was completed on April 26, 2003. Approximately 18,500 cubic yards of PCB-impacted sediment was removed from this portion of the river.

U. S. Steel conducted post-dredging PCB sampling and analysis in Containment Cell A, as required by the Decree and Order. The analytical results are currently being evaluated to confirm that, within Containment Cell A, PCBs have been removed to within U.S. EPA accepted concentrations.

U. S. Steel is pursuing an aggressive schedule for the dredging project. U. S. Steel plans to complete the dredging of hazardous sediments, those sediments from within the Containment Cells, by July 2003, one month prior to the compliance completion date of August 2003. The dredging of non-hazardous sediments is expected to be completed by September 2003, nearly a full year ahead of the compliance schedule.

### CLEANING OF THE HEADWATERS CULVERT

The Headwaters Culvert connects the Grand Calumet River with its headwaters lagoons (see map). Project stakeholders, including the CITE group, raised concerns about

contaminated sediments within the headwaters culvert. In response to these concerns, U. S. Steel developed a plan to remove these sediments as part of RCRA Corrective Action and in conjunction with the GCR dredging project. Following EPA approval of the plan, U. S. Steel began cleaning the culvert. On March 22, 2003, U.S. Steel completed this work after verifying removal of approximately 500 cubic yards of sediments.

### THE WATER TREATMENT PLANT

The water treatment component of the Grand Calumet Sediment Remediation Project utilizes two (2) separate water treatment processes to treat the dredged water and return it back to the river through an

existing U. S. Steel National Pollutant Discharge Elimination System (NPDES) permitted outfall. Both processes are housed in a newly constructed Water Treatment Plant built on U. S. Steel property to the east of the CAMU. The quality of the discharge water is monitored to assure compliance with the conditions of the NPDES permit.

The first water treatment system is the Chemically Assisted Clarification (CAC) system that treats water dredged from the lower 3.5 miles of the project area and stored in Unit 2 of the CAMU. This system draws the water from just below the surface of the CAMU to minimize the introduction of floating oil and sediment into the CAC process equipment.

The CAC system utilizes a clarifier and polymers to enhance the settlement of the suspended solids. This treated water is then returned to the river through the permitted outfall.

The second water treatment system is the Project Specific Water Treatment Plant (PSWTP). This system is initially being utilized for water dredged from the Containment Cells in the upper 1.5 miles of the project area and stored in Unit 1 of the CAMU. This system also draws the water from just below the surface of the CAMU. The PSWTP utilizes a clarifier, sand filter and activated carbon process equipment to remove suspended solids and contaminants from the dredge water.

The treated water is then returned to the river through the permitted outfall.

Once the dredging and subsequent dewatering at the CAMU is complete, the PSWTP will be converted into the Leachate Treatment Plant. The Leachate Treatment Plant will process the leachate, or waters that are in contact with the disposed sediments, prior to final closure of the CAMU. The PSWTP will also process the leak detection waters from the CAMU for the life of the CAMU.

### MONITORING

U. S. Steel continues to implement those measures necessary to ensure air and water quality is protected during the dredging project. A