

PATRICK BAYOU
Deer Park, Harris County, Texas

EPA Region 6
EPA ID# TX0000605329
Site ID: 0605329
Contact: Philip Allen, P.E. (214) 665-8516



State Congressional District: 29
Updated: October 2009

Current Status

The U.S. Environmental Protection Agency (EPA) and the Potentially Responsible Parties (PRPs) have completed negotiations, and have entered into an Administrative Order on Consent (AOC) to conduct the Remedial Investigation and Feasibility Study (RI/FS) for the Site. The purpose of the RI/FS is to determine the nature and extent of contamination and to gather sufficient information about the Site to support an informed risk management decision regarding which remedy is the most appropriate for the Site. Shell, Lubrizol Corp., and Occidental Chemical Corp, are the PRPs and have agreed to perform the RI/FS at the site. Sampling results from the first "round" of sampling have been received and are being reviewed by the EPA and TCEQ, and another sediment sampling event is planned for the week of November 17th, 2008. Plans are underway for additional sampling activities during the summer 2009.

Benefits

The investigation and cleanup of the Site will ensure the protection of human health and the environment. Specific cleanup benefits will be identified during the Remedial Investigation and Feasibility Study currently being planned for the Site.

National Priorities Listing (NPL) History

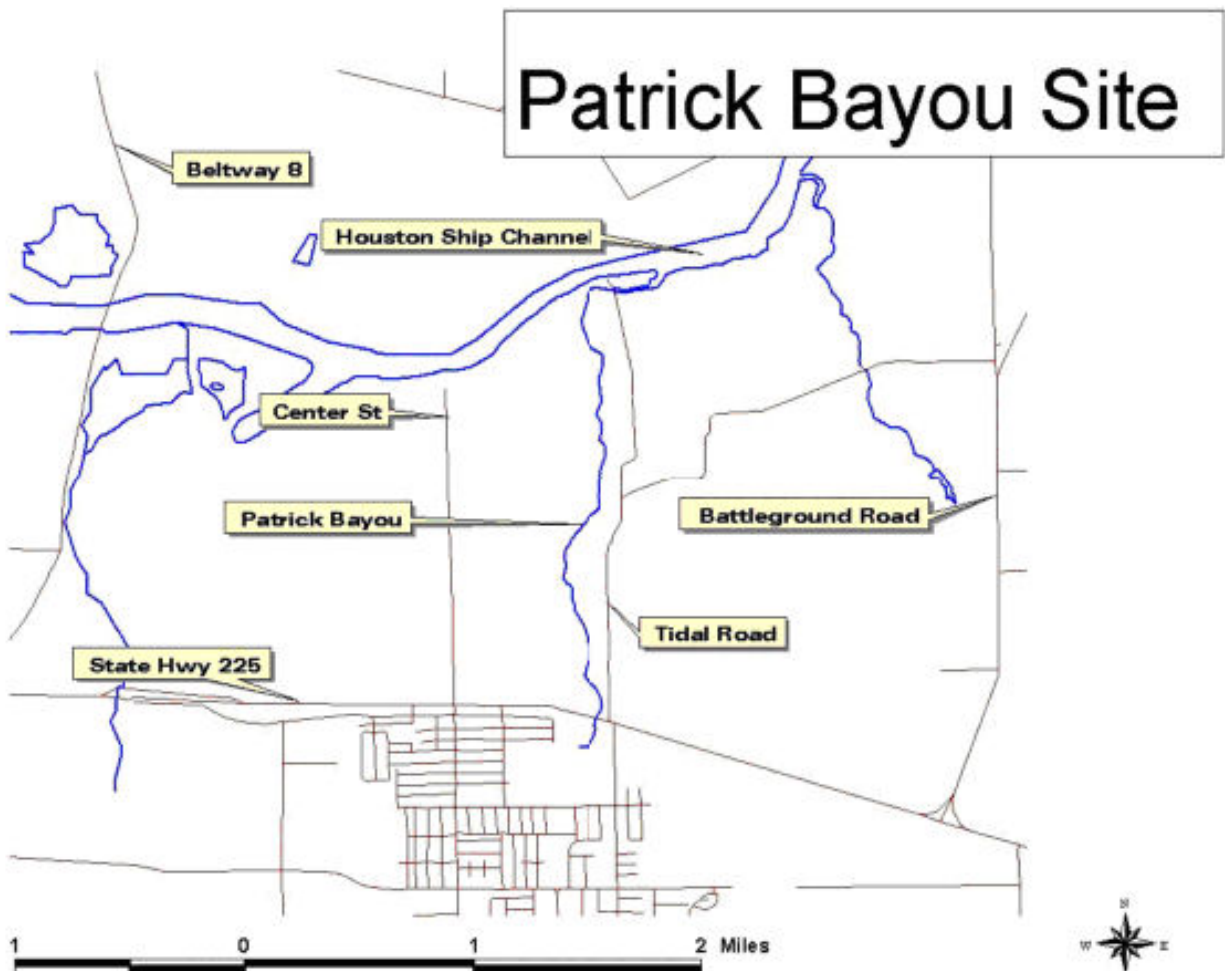
Proposal Date: June 14, 2001
Final Listing Date: September 5, 2002

Site Description

Location: The site is located in a mixed urban, highly industrialized petrochemical area in southeast Harris County north of Deer Park, Texas (population 27,652-1990 Census).

Setting: Patrick Bayou is one of several small bayous of the Houston Ship Channel (HSC) located within the lower portion of the San Jacinto River Basin. This 3-mile tidal bayou is on the south side of the HSC about 2 miles upstream of its confluence with the San Jacinto River. The Site consists of contaminated sediments within Patrick Bayou, a portion of the East Fork tributary, and associated wetlands. Patrick Bayou is bounded by Occidental Chemical, Shell Refinery, Shell Chemical, and Lubrizol Corporation. The bayou also receives effluent via ditches from the City of Deer Park wastewater treatment plant and an air separation plant, Praxair, Inc.

Site Map



Wastes And Volumes

Principal Pollutants: Previous investigations confirmed the presence of the following chemicals in Patrick Bayou sediments: chromium, copper, lead, mercury, nickel, selenium, zinc, hexachlorobenzene (HCB), bis-2-ethylhexyl phthalate, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs).

Volume: The volume of pollutants will be determined during the RI/FS.

Health Considerations

A risk assessment will be performed to determine whether site contaminants pose a current or future risk to human health and the environment in the absence of any remedial action. Included in this assessment will be an identification of contaminants of concern, an assessment of exposure to those contaminants through finalization of the site conceptual model, an assessment of the toxicity of those contaminants, and a characterization of risk. This characterization will provide a basis for determining whether remedial

action is necessary at the site, describe for which exposure pathways remediation is necessary, and provide justification for performance of remedial actions. Included in this assessment will be characterization of risks to both human and ecological receptors.

Record Of Decision

The final remedy (cleanup alternative) for a site is published in a Record of Decision (ROD). The ROD is the official documentation of how the EPA considered the remedial alternatives and why the EPA selected the final remedy.

A ROD Has Not Been Signed For The Site

Community Involvement

Community Relations Plan: Not yet developed
Open houses and workshops:
Formal Proposed Plan Public Meeting:
Citizens on site mailing list:
Constituency Interest:
Site Repository: Patrick Bayou
Deer Park Public Library
3009 Center St.
Deer Park, TX 77536

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Site Contacts

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