

**NEW YORK STATE
DEPARTMENT OF**



**ENVIRONMENTAL
CONSERVATION**

Dear Interested Citizen:

This fact sheet provides you with information about the investigation at Bloody Brook in the Town of Salina, Onondaga County. If you have any questions or would like more information, please do not hesitate to contact:

Mr. Richard Mustico
Project Manager
NYSDEC
625 Broadway
Albany, NY 12233-7016
(518) 402-9767

Mr. James Burke
Regional Hazardous Waste
Engineer
NYSDEC
615 Erie Blvd.
Syracuse, NY 13204
(315) 426-7403

For site-related health questions, please contact the following New York State Department of Health (NYSDOH) representative:

Ms. Henriette Hamel
Regional Toxics Coordinator
NYSDOH
217 South Salina Street
Syracuse, NY 13202
(315) 477-8163

or the following Onondaga County Health Department representative:

Ms. Lisa Letteney, P.E.
Director, Environmental Risk
Assessment
Onondaga County Health
Department
Division of Environmental Health
P.O. Box 15190
Syracuse, NY 13215-0190
(315) 435-6600

FACT SHEET

Bloody Brook Voluntary Cleanup Program Site Investigation

Site No. V00501-7
Town of Salina, Onondaga County
May 2004

INTRODUCTION

In July 2002, the New York State Department of Environmental Conservation (NYSDEC) and Lockheed Martin Corporation (Lockheed Martin) entered into a Voluntary Cleanup Program agreement for the investigation and any remediation of Bloody Brook. The area of interest is located from just south of the New York State Thruway to the Onondaga Lake Parkway in the Town of Salina, Onondaga County (area location map attached).

BACKGROUND

Bloody Brook flows through a residential area, which includes both single family homes, duplexes and an apartment complex; commercial and light industrial areas; and ultimately discharges to Onondaga Lake. The area is served by public water and sewer.

PREVIOUS INVESTIGATIONS AND FIELDWORK

In April 1997, Lockheed Martin, with NYSDEC oversight, commenced a sediment removal project in the West Branch of Bloody Brook. The project included sediment removal from within a 200-foot long culvert beneath the New York State Thruway and sediment removal along a 750-foot segment of the stream beginning at the end of the culvert. The work was documented in the West Branch of Bloody Brook Sediment Removal Certification Report, dated November 1997. This report was approved by NYSDEC in December 1997, however, it was agreed that additional data was needed.

From 1994 to 2004, sampling has occurred in and adjacent to Bloody Brook. Cadmium concentrations in soil range from non-detect to 5,350 parts per million (ppm) and in sediment from 2.6 to 174 ppm. Typically, the greatest concentrations of Cadmium in soil were found at depths greater than one foot. Cadmium compounds were not detected in the water of Bloody Brook. Concentrations of cadmium in soil and sediment, however, are above NYSDEC guidance values. The most recent soil sampling events occurred in October 2003 and April 2004. The results of the recent soil sampling, as well as past sampling events, conducted by Lockheed Martin with NYSDEC, may be accessed at any of the document repositories set up for the Bloody Brook Voluntary Cleanup Program Site (see the "Document Repositories" section below). These investigations will aid in defining the extent of cadmium in the soil and sediment and provide information to the NYSDEC for remedy selection at the site.

Cadmium is a naturally occurring metal, usually found in rocks and soil as a mineral, combined with other elements such as oxygen, chlorine, or sulfur. In

Prof. # LMC Bloody Brook
File Code: JB-1

Bloody Brook Voluntary Cleanup Program Fact Sheet - May 2004

industry and consumer products, it is used for batteries, pigments, metal coatings, and plastics. It is present at low levels in foods and in cigarette smoke. Eating food or drinking water containing very high levels of cadmium can severely irritate the stomach. Long term exposure by consumption may lead to a buildup of cadmium in the kidneys and possible kidney disease. Skin contact with cadmium is not known to cause health effects. The EPA has determined that cadmium may be carcinogenic by inhalation. (ATSDR, 1997. For more information go to www.atsdr.cdc.gov.)

The exposure pathway of concern at Bloody Brook is accidental ingestion of contaminated soil or sediment carried to the mouth by dirty hands. Much of the area on the banks is well vegetated with grass and brush which constitutes a barrier decreasing potential contact with soil. The Onondaga County Health Department has advised the public to avoid playing in the Brook or on the banks until remediation is complete.

UPCOMING ACTIVITIES

The most recent investigation results are currently being evaluated, and along with the information previously collected, the data will be used to determine what cleanup work may be necessary to protect both human health and the environment. A remedial work plan (a document which will lay out potential cleanup options) is expected to be submitted by Lockheed Martin to the NYSDEC within the next several months. Following the submittal of a remedial work plan, the NYSDEC will distribute a fact sheet and hold a public meeting in order to discuss the proposed remedial action for Bloody Brook with the public. As part of the public participation process, a public comment period will follow, during which the public may submit comments on the proposed plan to NYSDEC, which will be taken into account for the selection of the final remedy.

DOCUMENT REPOSITORIES

Public understanding and involvement are important to the success of New York's Voluntary Cleanup Program. As the project progresses, the NYSDEC will distribute fact sheets, like this one, to keep you informed. In addition, the Department has also placed site documents in repositories for you to read.

The NYSDEC has established document repositories for the Bloody Brook Voluntary Cleanup Site at:

NYSDEC
615 Erie Boulevard
Syracuse, NY 13204-2400
(315) 426-7403
Hours: M-F 8:30am-4:45pm
Please call for an appointment

Liverpool Public Library
310 Tulip Street
Liverpool, NY 13088
(315) 457-0310
Hours: M-Th 9:00am-9:00pm
Fri 9:00am-6:00pm
Sat 10:00am-5:00pm
Sun 12:00pm-5:00am

Atlantic States Legal Foundation
658 West Onondaga
Syracuse, NY 13204
(315) 475-1170
Please call for an appointment

NYSDEC
625 Broadway
Albany, NY 12233-7016
(518) 402-9767

ABOUT THE VOLUNTARY CLEANUP PROGRAM

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal, and financial barriers that often hinder the cleanup of contaminated properties. The VCP was developed to enhance private sector cleanups. Under the program, a volunteer agrees to investigate and remediate a site to a level which is protective of public health and the environment for the present or intended use of the property. Investigation and remediation is carried out under the oversight of NYSDEC and NYSDOH. When the volunteer completes the work, the State provides a release from certain State liability for site contaminants. For more information regarding New York State's Voluntary Cleanup Program, please visit the Department's web site at: <http://www.dec.state.ny.us/der/vcp/vcpfs.html>.

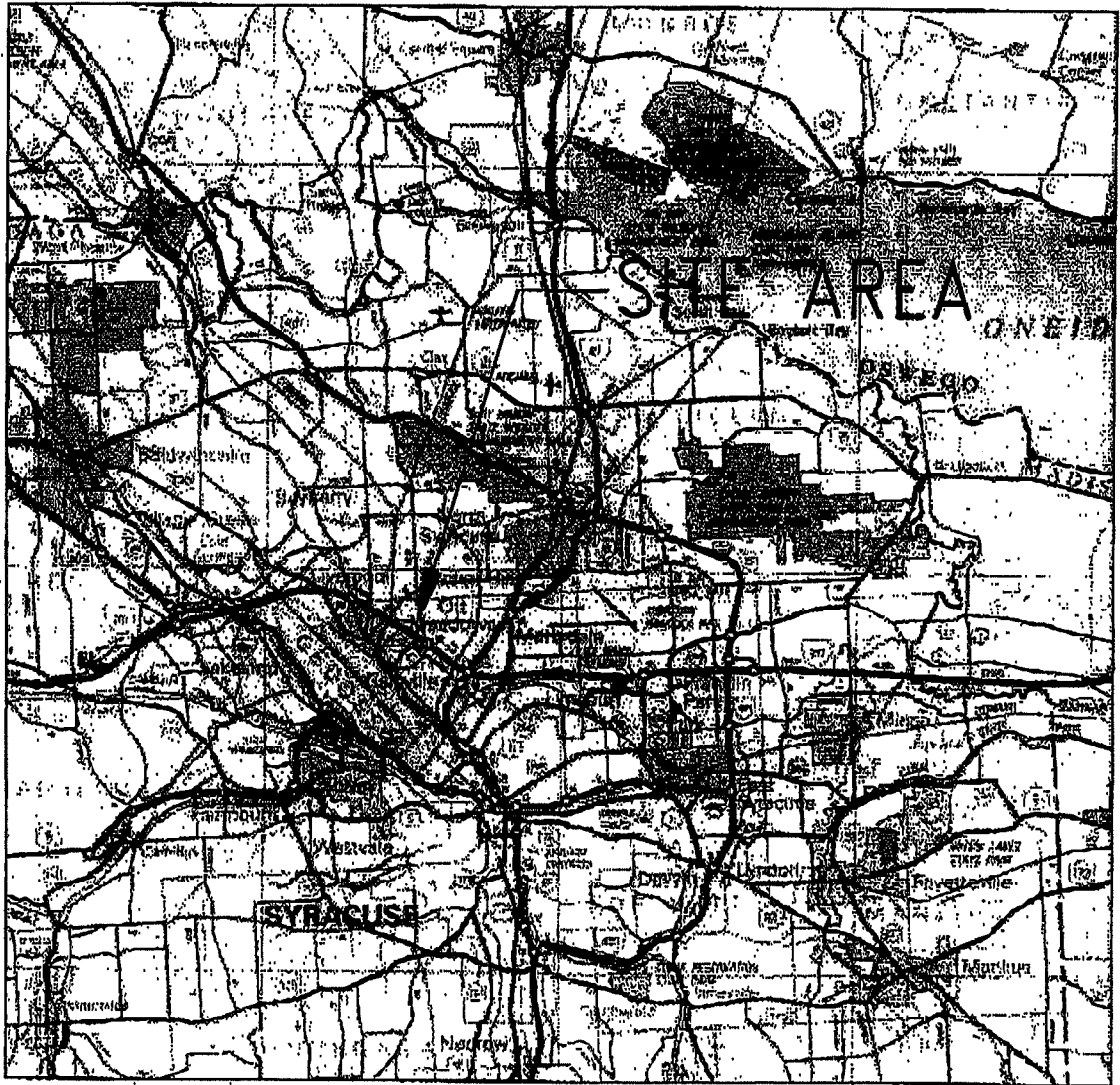
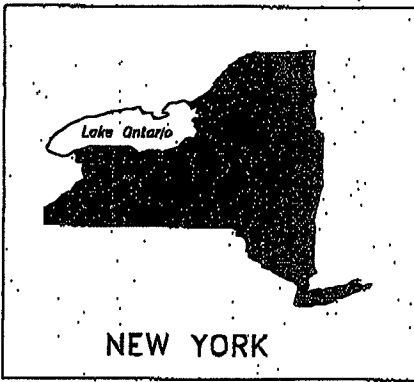
DRAWING NUMBER 824446A9

APPROVED BY

CHECKED BY

DRAWN BY

OFFICE ALBANY, NY



L:\project\824446\824446A9.dwg
 Plot Date/Time: 06/09/04 01:21pm
 Format Revised: 12/15/99
 image: pbs22
 Xref:

REFERENCE:

NYS DOT NEW YORK STATE MAP, CENTRAL SHEET, 1995.
 SCALE: 1:250,000, 1 INCH = 3.95 MILES.



BLOODY BROOK
 ONONDAGA COUNTY, NEW YORK

AREA LOCATION MAP

DRAWING NUMBER 824446A13

APPROVED BY

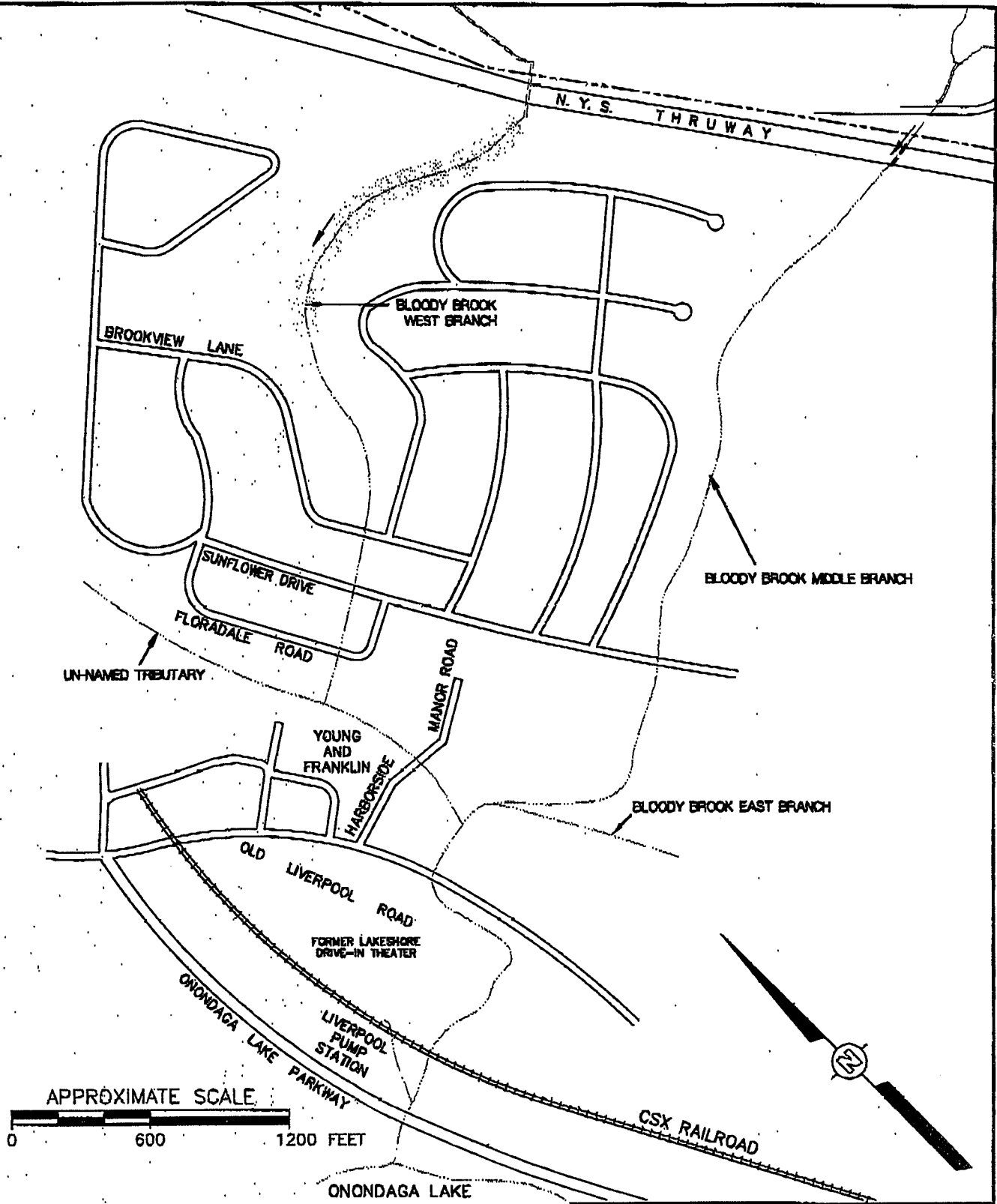
CHECKED BY

DRAWN BY

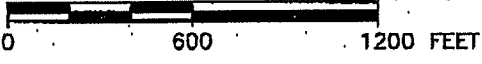
OFFICE ALBANY, NY

SSR/DWG 06-08-04



L:\project\LOCKHEED\BLOODY\824446A13.dwg
Plot Date/Time: 06/08/04 04:50pm
Format revised: 03/13/03



APPROXIMATE SCALE



LEGEND

-  SURFACE WATER
-  APPROXIMATE LIMITS OF 1997 SEDIMENT REMOVAL



BLOODY BROOK
ONONDAGA COUNTY, NEW YORK

BLOODY BROOK SITE DETAIL