

DOCUMENTING AN ENVIRONMENTAL DISASTER: THE RIVER VALLEY COLLECTION AT MARION (OHIO) PUBLIC LIBRARY

Ian Fairclough
George Mason University
Dawn McCleery
Marion Public Library
December 2009

Location of Marion, Ohio



THE RIVER VALLEY COLLECTION

A local repository

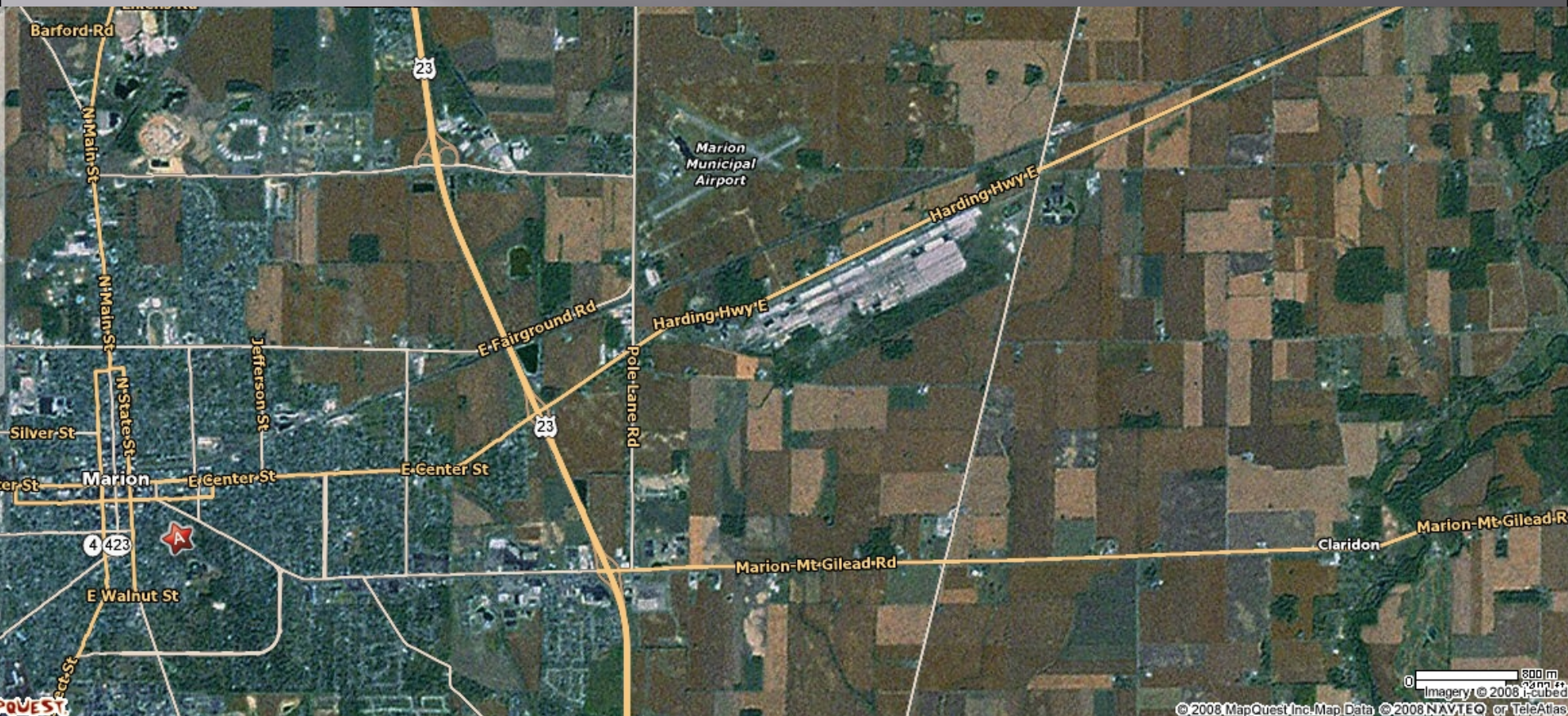
Marion Public Library the sole
location

Contents: documents related to
two formerly used defense sites

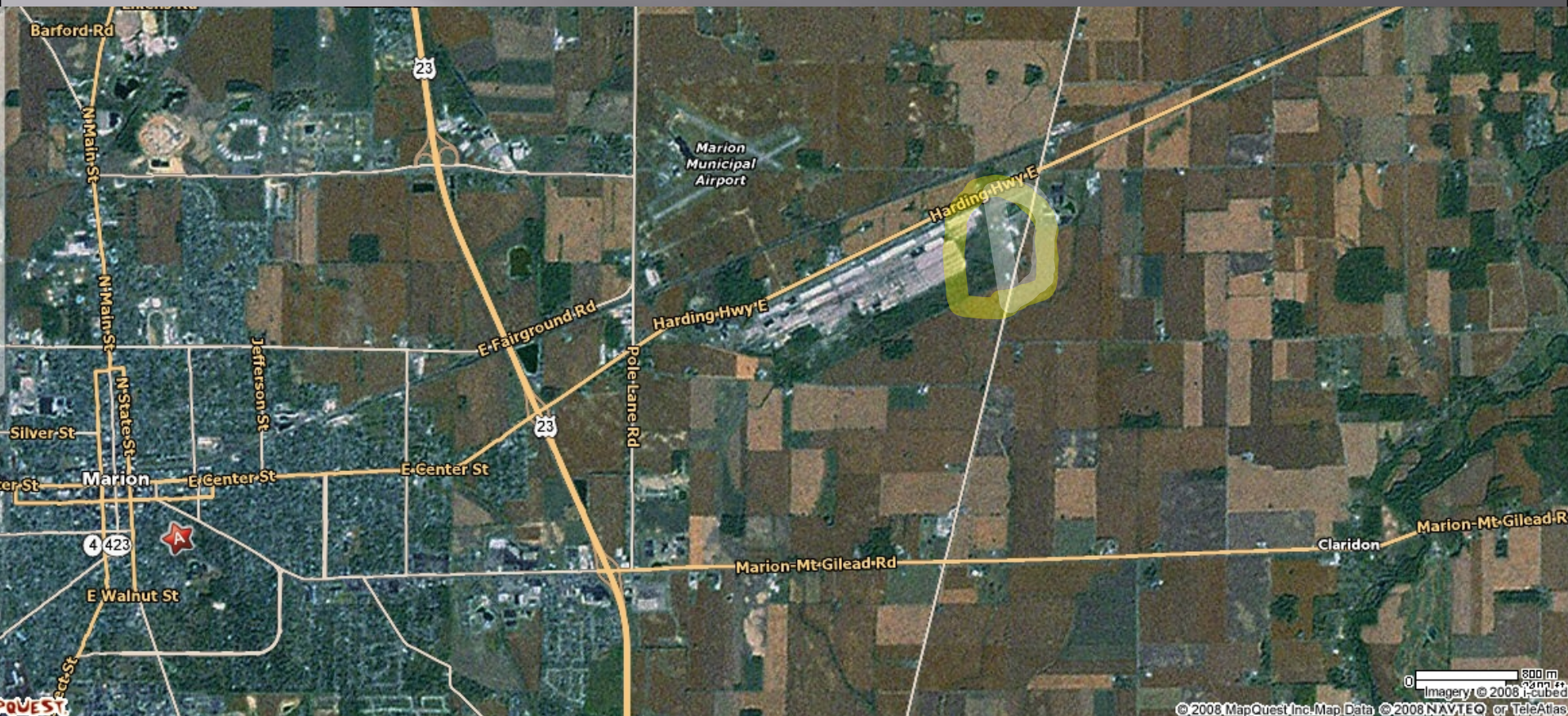
Scioto Ordnance Plant (1942-43)

Marion Engineer Depot (1942-60)

Site of Marion Engineer Depot



Site of Marion Engineer Depot



River Valley High School (closed)



Former Marion Engineer Depot - River Valley School District Environmental Investigation Timeline

<http://www.lrl.usace.army.mil/p3md-me/article.asp?id=316&MyCategory=211>

November 1942 During WWII, the Marion Engineer Depot was constructed on 640 acres. The Depot employed 47 military personnel and over 1,400 civilians. It operated for 19 years and was best known for its ability to handle and store the heaviest type of engineering equipment.

1961-1962 River Valley Local School District purchases 78 acres and builds middle and high schools and sports facilities.

Former Marion Engineer Depot - River Valley School District Environmental Investigation Timeline

September 1997 U.S. Army Corps of Engineers begins environmental investigation on property.

August 1998 Restoration Advisory Board is formed, consisting of community members and agency representatives.

September 1998 Corps completes radiological survey on River Valley School property.

April 2000 Arsenic removed from ditches on River Valley School property; Final Closure Report completed.

July 2000 Corps begins monthly outdoor air monitoring in Operable Unit 1, the former disposal area, and on roof of River Valley Middle School, which continues for three years.

Former Marion Engineer Depot - River Valley School District Environmental Investigation Timeline

December 2000 Cooperative Agreement and Memorandum of Understanding signed by Department of the Army, River Valley Schools, and the State of Ohio sharing the costs of relocating schools.

May 2001 Baseline Risk Assessment and Remedial Investigation Report completed for Operable Unit 1.

July 2001 Final Report by Ohio Department of Health on Case Review of Leukemia Among Marion County Residents and Graduates of River Valley School.

December 2001 Expanded Site Inspection Report completed for River Valley School property.

Former Marion Engineer Depot - River Valley School District Environmental Investigation Timeline

August 2003 River Valley Schools open at new location.

November 2003 Focused Feasibility Study and Proposed Plan outlining cleanup alternatives finalized.

December 2003 Public Comment Period held on Proposed Plan.

June 2004 Decision Document selecting cleanup alternative for Operable Unit 1 finalized.

December 2004 Preparation begins for remediation of Operable Unit 1.

January 2005 Remediation begins at Operable Unit 1 to cleanup property to industrial/commercial standards.

Associated Press Report (excerpted)

<http://www.ohiocitizen.org/campaigns/marion/inconclusive.htm>

Published Saturday, July 28, 2001, in the Akron Beacon Journal and other regional newspapers

The Ohio Health Department study turned up 83 leukemia cases in Marion County, including nine high school graduates

A total of 47 leukemia victims participated in the study, including all nine graduates. Two people refused to participate, and health officials weren't able to interview 34 others.

The leukemia study looked at high school graduates from 1963 to 2000.

The study later was expanded to look at all leukemia cases in Marion County between Jan. 1, 1992, and Dec. 31, 1999, using data from the state cancer registry.

Associated Press Report (excerpted)

The report made three conclusions:

The most common factor among the leukemia victims was direct or secondhand exposure to tobacco smoke.

Six of the River Valley graduates had extensive contact with school grounds through sports or agricultural activities, but it is not known whether it included exposure to potential cancer-causing contaminants.

Continued study of leukemia among Marion County residents and River Valley graduates is unlikely to identify additional factors that caused the leukemia.

The River Valley Collection





Total Environmental Restoration
Contract - Vol. III

Total Environmental Restoration
Contract - Vol. IV

KEMRON

15448 C-228
15448 C-228
15448 C-228

General Decisions for Processing

- Full cataloging (Anglo-American Cataloging Rules, 2nd edition Revised)
- Library of Congress Subject Headings
- Dewey Decimal Classification numbers
- DDC number prefixed with special notation
- Series entry for River Valley collection
- Local subject entries for the schools
- Make the records available internationally

Names of Agencies

US Army Reserve Marion Local Training Area

U.S. Army Corps of Engineers, Louisville District

Montgomery Watson

a.k.a. Montgomery Watson Harza

a.k.a. MWH Americas

Marion Engineer Depot & Scioto Ordnance Plant

Restoration Advisory Board

Ohio Dept. of Health

Ohio Environmental Protection Agency,

Northwest District Office

U.S. Environmental Protection Agency

Names of Agencies

GEO Consultants

Quanterra Environmental Services

KEMRON Environmental Services

Science Applications International
Corporation

JAYCOR Environmental

Floyd Browne Associates

Lawhon & Associates

SELECTED DOCUMENT TITLES

- 1994 Ordnance and explosive waste, archives search report for the former Scioto Ordnance Plant, Marion, Ohio
- 1995 Final limited site investigation report for radiological contamination at the former Scioto Ordnance Plant, Marion, Ohio
- 1997 Documents prepared for preliminary investigation of former Marion Engineer Depot site, River Valley schools, Marion County, Ohio
- 1997 River Valley High School, Marion, OH, sampling ... in response to public concerns about leukemia and cancer incidence.
- 1997 Environmental investigation at the River Valley local school property : final report
- 1997 Work plan for River Valley local schools

SELECTED DOCUMENT TITLES

- 1998 Montgomery Watson remedial investigation final work plan
- 1998 Final Test pit trench work plan, River Valley school grounds, Marion Engineer Depot, Marion, Ohio
- 1998 Test trenching report : TERC task order no. 0005, River Valley school grounds, former Marion Engineer Depot, Marion, Ohio
- 1998 Final site specific safety and health plan, RI/FS activities, Marion Engineer Depot and Scioto Ordnance Plant, Marion, Ohio
- 1998 Remedial investigation workplan addendum, River Valley school, former Marion Engineer Depot, Marion, Ohio

SELECTED DOCUMENT TITLES

- 2002 Marion Engineer Depot and Scioto Ordnance Plant Restoration Advisory Board agenda. Transcripts provided by Hammond Reporting Services.
- 2001 Soil, air and particulate monitoring data package : River Valley school site investigation, former Marion Engineer Depot, Marion, Ohio
- 2001 Draft revisions to the River Valley school property, operable unit 1 - former disposal area, draft remedial investigative report, Marion, Ohio.
- 2002 Analytical report for 204087 for DLZ Laboratories, Inc. Accompanying CD-ROM has text of base report (file: lims.pdf) plus other files.
- 2003- Public hearing held at the ... Marion, Ohio on ... at ... / Marion Engineer Depot, Scioto Ordnance Plant and Army Reserve Local Training Area Restoration Advisory Board. Transcripts provided by Florine I. Varner & Associates, Inc.

Library of Congress Subject Headings used with River Valley Collection

Environmental impact analysis--Ohio--Marion County.

Hazardous substances--Ohio--Marion County.

Hazardous wastes--Ohio--Marion County.

Hazardous waste sites--Ohio--Marion County.

Hazardous waste site remediation--Ohio--Marion
County.

Environmental monitoring--Ohio--Marion County.

Groundwater--Pollution--Ohio--Marion County.

Soil pollution--Ohio--Marion County.

Underground storage tanks--Environmental aspects--
Ohio--Marion County.

Explosive ordnance disposal--Ohio--Marion County.

Railroads--Freight--Classification--Ohio--Marion County.

Dewey Decimal Numbers in the River Valley Collection

363.17 Hazardous materials

363.7 Environmental problems

658.4083 Social responsibility of executive management -- protection of environment

917.71514 Marion County (used for maps, etc.)

Dewey Decimal Numbers in the River Valley Collection

363.17 Hazardous materials

363.1763 Monitoring, surveillance,
reporting

363.179 Specific types of hazardous
materials

363.1791 Toxic chemicals

363.1799 Radioactive materials

Dewey Decimal Numbers in the River Valley Collection

363.7 Environmental problems

363.73 Pollution

363.735 Social action (class here remedial
actions)

363.7356 Government action

363.7358 Community action

Dewey Decimal Numbers in the River Valley Collection

363.7 Environmental problems

363.73 Pollution

363.736 Control

363.7363 Monitoring, surveillance,
reporting

363.7364 Inspection and testing

363.737 Measures to prevent, protect
against, limit effects of pollution

363.738 Pollutants

Dewey Decimal Numbers in the River Valley Collection

- 363.739 Pollution of specific environments
- 363.7392 Air pollution
- 363.7394 Water pollution
- 363.7396 Soil pollution
- 363.73966 Control (elimination and reduction of hazards, of sources and causes of difficulty)
- 363.739664 Inspection and testing

Structure of a DDC Number

Title: *Soil, air and particulate monitoring data package : River Valley school site investigation, former Marion Engineer Depot, Marion, Ohio*

Base number for Hazardous materials: 363.17

Notation for " Monitoring, surveillance, reporting" added to base number: 63

Geographic subdivision facet indicator: 09

Geographic number for Marion County: 771514

Built number: 363.176309771514

Structure of a DDC Number

Title: *Soil, air and particulate monitoring data package : River Valley school site investigation, former Marion Engineer Depot, Marion, Ohio*

Built number: 363.176309771514

Built number retained in OCLC master record

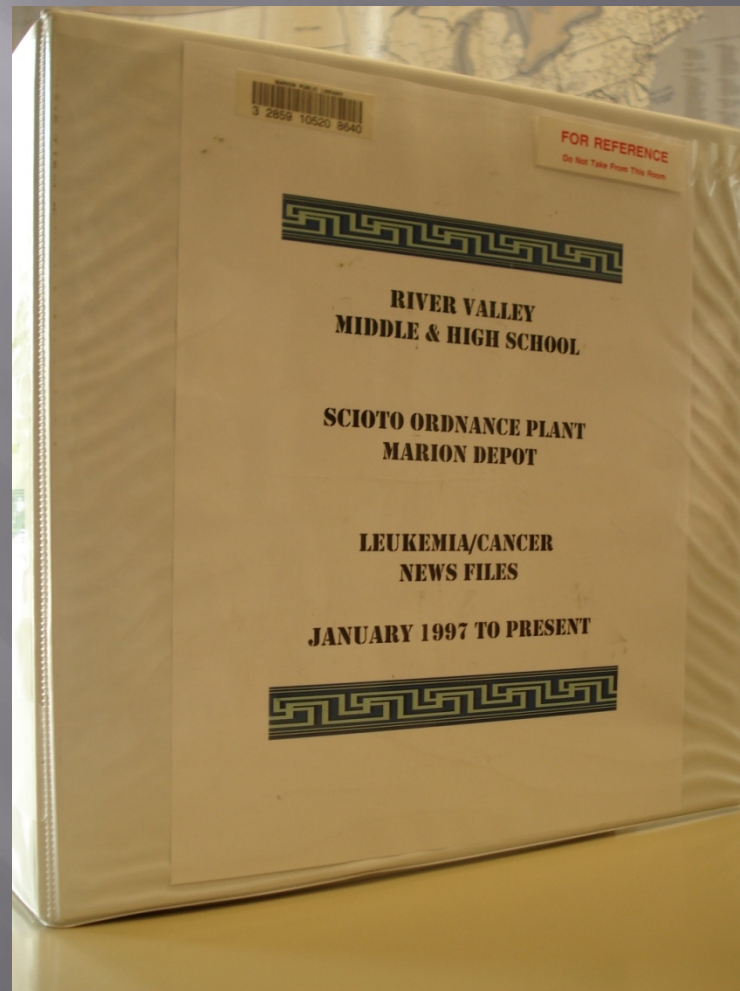
Geographic notation not required locally

Edited number: 363.1763

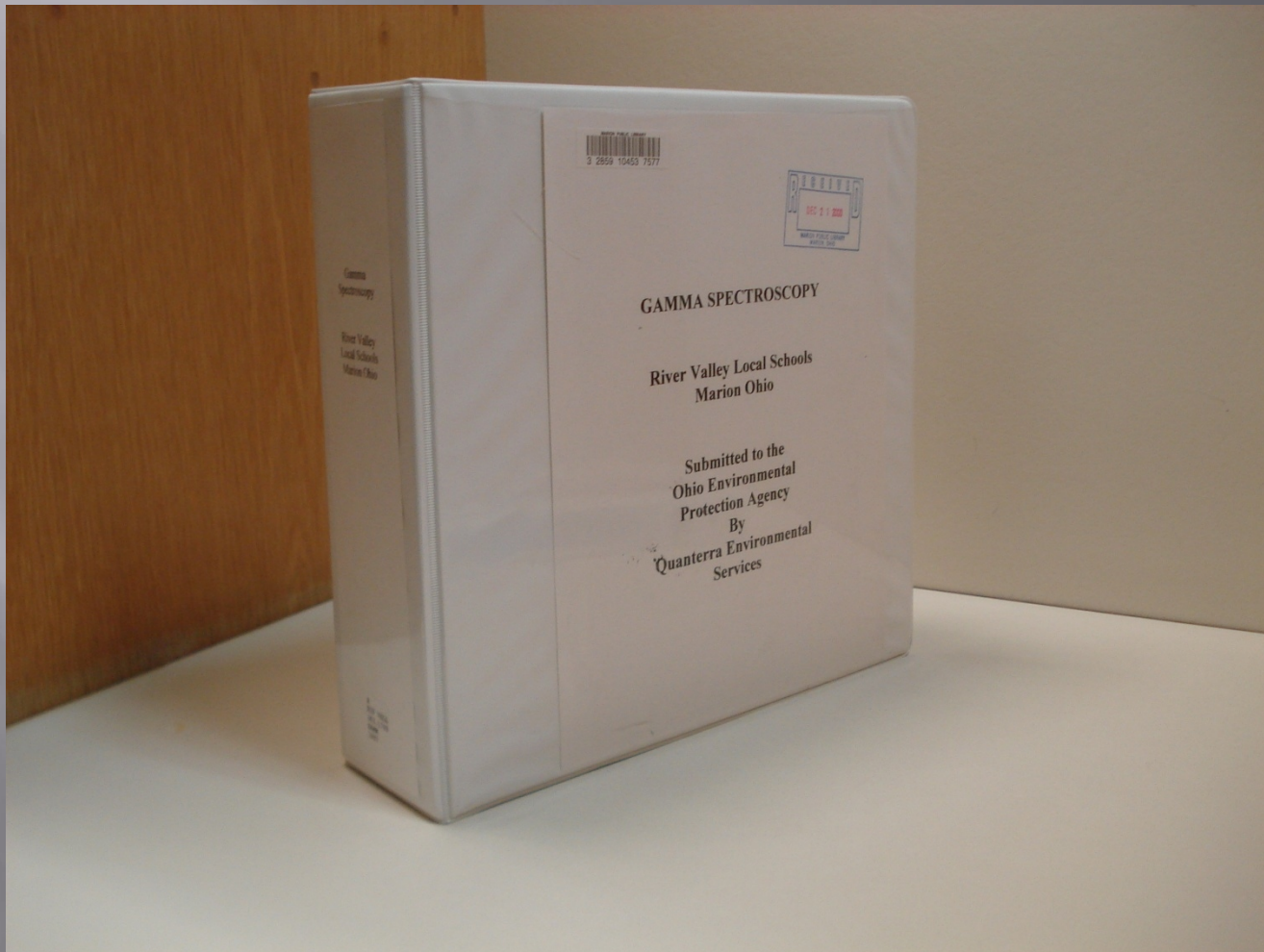
Local prefix used: R RIV VALL

Local call number: R RIV VALL 363.1763

Leukemia/Cancer News Files



Gamma Spectroscopy



Stenographer's Transcript of Restoration Advisory Board Public Meeting

RESTORATION ADVISORY BOARD

MARION ENGINEER DEPOT/SCIOTO ORDNANCE PLANT
AND ARMY RESERVE LOCAL TRAINING AREA

- - -

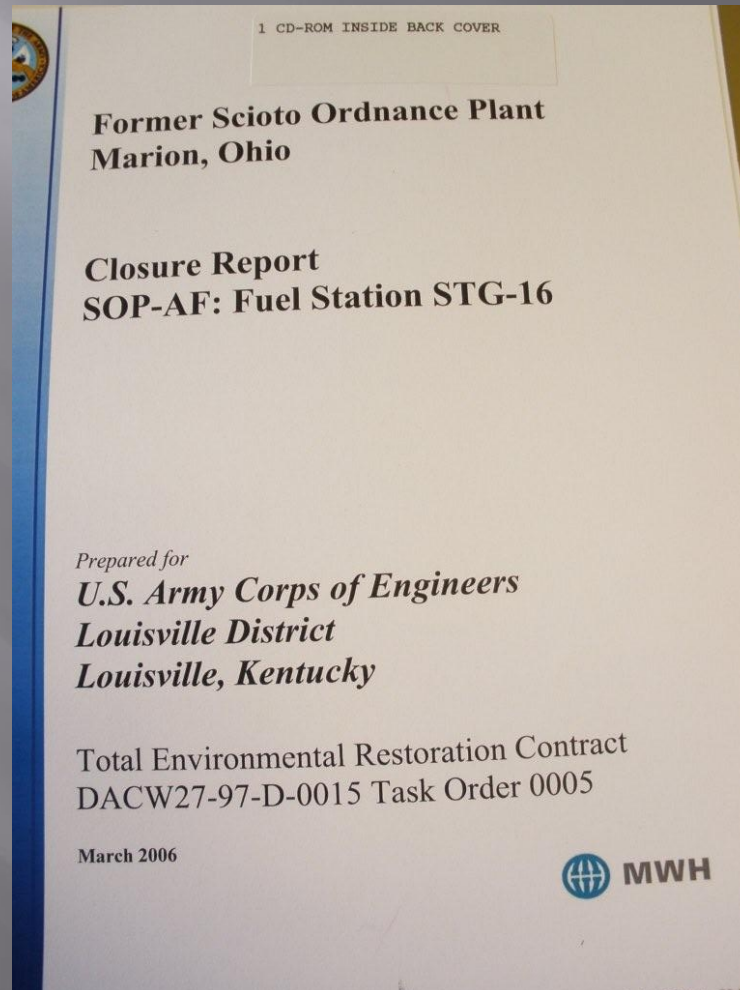
Transcript of Public Meeting held at the Tri-Rivers
Career Center, 2222 Marion-Mt. Gilead Road, Marion, Ohio
on Thursday, January 26, 2006 at 6:30 p.m.

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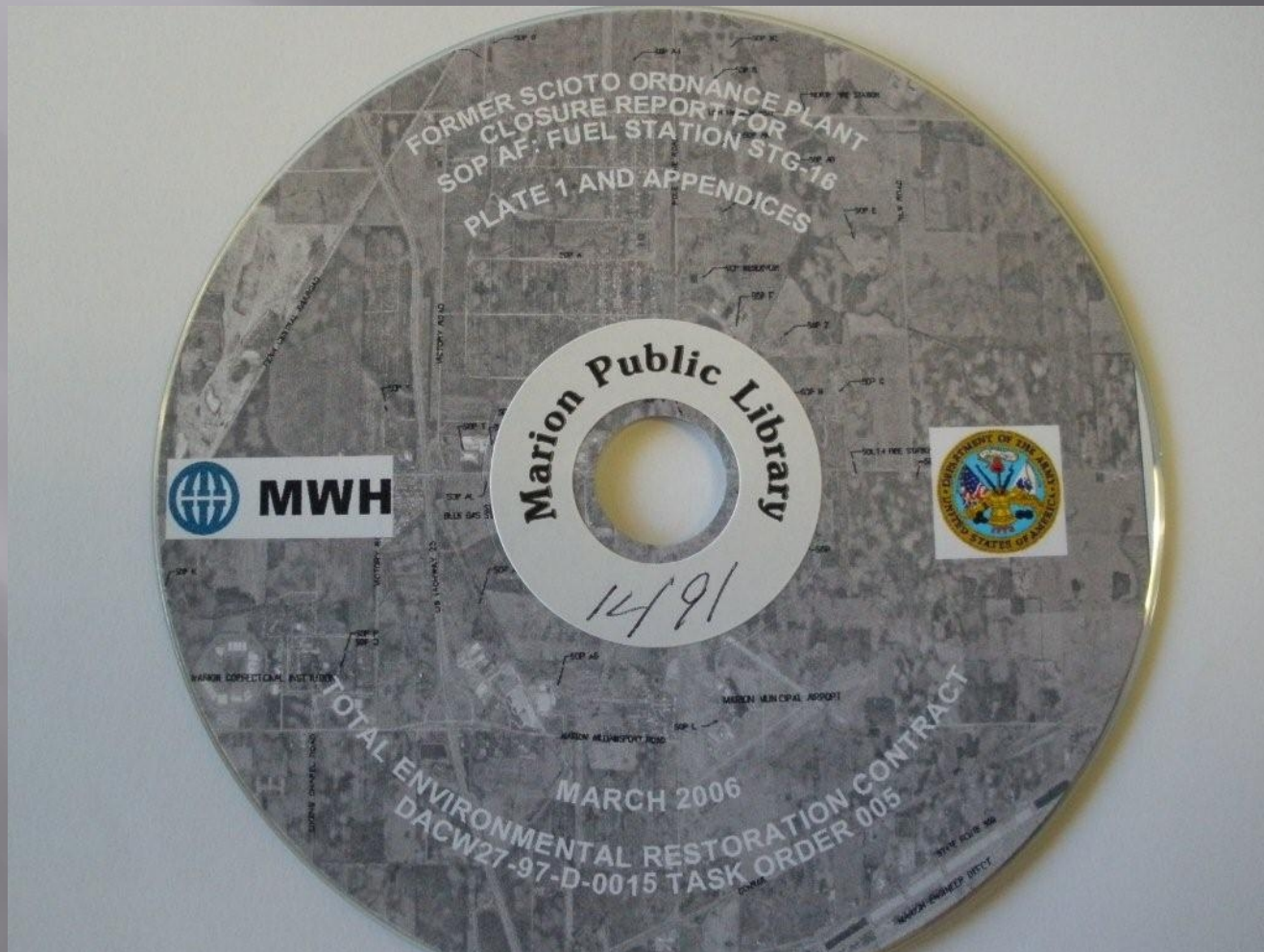
APPEARANCES:

Mr. Richard B. Hockett, P.G
Mr. Don Millard, Community Co-Chair
Ms. Heidi Novotny, Army Reserves Co-Chair
Mr. Graham Mitchell, OEPA
Ms. Jodi Griffith, RAB Member
Mr. Robert Indian, RAB Member

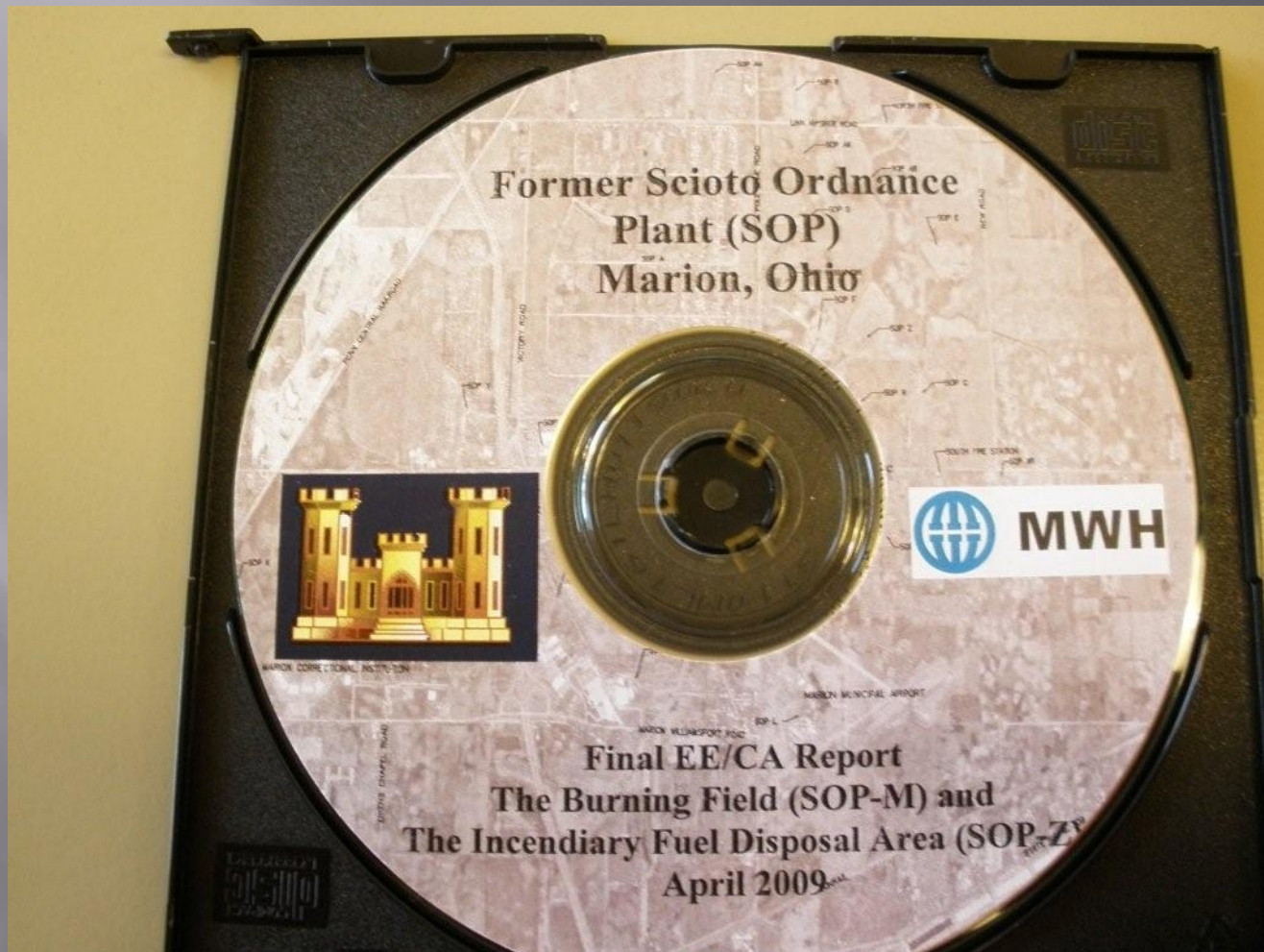
Print Version with CD-ROM



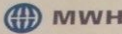
Accompanying CD-ROM



CD-ROM as Primary Material



Letter of Transmission for CD-ROM

 **MWH**

April 17, 2009

Mr. Steve Snyder
Ohio Environmental Protection Agency
Northwest District Office
347 Dunbridge Road
Bowling Green, Ohio 43402

Subject: Final Engineering Evaluation/Cost Analysis Report for the Burning Field (SOP-M) and the Incendiary Fuel Disposal Area (SOP-Z); Former Scioto Ordnance Plant, Marion, Ohio

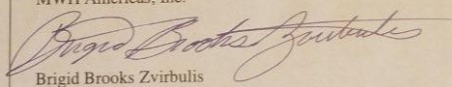
Dear Mr. Snyder:

On behalf of the United States Army Corps of Engineers (USACE)-Louisville District, MWH Americas, Inc. (MWH) is submitting this Final Engineering Evaluation/Cost Analysis Report for the Burning Field (SOP-M) and the Incendiary Fuel Disposal Area (SOP-Z).

If you have any questions regarding this report, please contact me at 248-522-8304 at your earliest convenience.

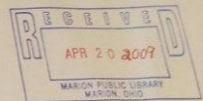
Sincerely,

MWH Americas, Inc.


Brigid Brooks Zvirbulis
Task Order Manager

cc: Dr. Dave Brancato, USACE
Dr. Nathaniel Peters, USACE
Mr. Michael Peveler, USACE
Mr. Gary Schafer, United States Environmental Protection Agency
Ms. Bonnie Buthker, Ohio Environmental Protection Agency
Mr. Robert Indian, Ohio Department of Health
Mr. Jeff Douthitt, Geo Consultants
Mr. Don Millard, RAB Technical Committee
Mr. Don Broadwater, RAB Technical Committee
Mr. James McGuire, RAB Technical Committee
Ms. Jodi Griffith, RAB Technical Committee
Mr. Chuck Blankenship, RAB Member
Mr. Bud Forster, RAB Member
Mr. Ted Graham, RAB Member
Ms. Karen McCleery, RAB Member
Ms. Dawn McCleery, Marion Public Library – Information Repository

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AJP/BTB/TWK



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**Former Scioto Ordnance Plant
Marion, Ohio**

**Engineering Evaluation/Cost Analysis
Final Report for the Burning Field
(SOP-M) and the Incendiary Fuel
Disposal Area (SOP-Z)**

Prepared for

***United States Army Corps of Engineers
Louisville District
Louisville, Kentucky***

**Total Environmental Restoration Contract
DACW27-97-D-0015 Task Order 0005**

April 2009



Title Page from .pdf file on CD-ROM

FORMER SCIOTO ORDNANCE PLANT
MARION, OHIO

ENGINEERING EVALUATION/COST ANALYSIS
FINAL REPORT FOR THE BURNING FIELD (SOP-M) AND
THE INCENDIARY FUEL DISPOSAL AREA (SOP-Z)

CONTRACT DACW27-97-D-0015
Task Order 0005


Prepared for:

United States Army Corps of Engineers
Louisville, Kentucky

Prepared by:
MWH Americas, Inc.

MWH Americas, Inc. (MWH) certifies that, to the best of its knowledge and belief, the technical data delivered herewith under contract DACW27-97-D-0015-0005 is complete, accurate, and complies with all requirements of the contract.

Prepared by:


Thomas W. Kaugher
Project Geologist

4-17-09
Date

Prepared by:


Brigid Brooks Zvirbulis
Task Order Manager

4-17-09
Date

Note: This document is proprietary, revision-controlled, and is intended strictly for use by the United States Army Corps of Engineers (USACE), MWH, and its subcontractors in support of specific contractual responsibilities; copying and further dissemination in any manner are not permitted without written authorization by the MWH Task Order Manager, except as may be agreed between MWH and the USACE in the terms and conditions of the applicable contract.

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1.0 INTRODUCTION

The purpose of this Engineering Evaluation/Cost Analysis (EE/CA) is to identify, screen and evaluate removal and treatment alternatives for contaminated debris and soil found within the former Scioto Ordnance Plant (SOP) at the Burning Field (SOP-M) and the Incendiary Fuel Disposal Area (SOP-Z) in Marion, Ohio (See Plate 1). A description of SOP-M and SOP-Z and summaries of investigation results for these sites are provided in Section 2.

MWH Americas, Inc. (MWH) has been contracted to prepare this EE/CA under the Total Environmental Restoration Contract (TERC). MWH is providing technical support to the United States Army Corps of Engineers (USACE). This work is being performed by MWH for the USACE under Task Order (TO) No. 0005 under Contract No. DACW27-97-D-0015 of the TERC.

SOP-M and SOP-Z were investigated by MWH as part of multiple Site Inspection (SI) activities from 2001 to 2006. Based on the results of the SIs, it has been determined that SOP-M and SOP-Z require a Removal Action (RA) pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Based on information in the SIs, the RA will involve:

- Addressing impacted soils and associated waste material. The chemicals of concern identified in the SIs (MWH, 2003 and 2006) were:
 - polynuclear aromatic hydrocarbons (PAHs);
 - dioxins/furans; and
 - metals (arsenic and iron).

Prior to preparing this EE/CA, an additional investigation was performed to supplement MWH's SI activities and to further assess the extent of the dioxin/furan contamination at SOP-M and PAH contamination at SOP-Z. The additional investigation activities were completed by MWH in March 2007. A summary of the SI results/conclusions and the results from the additional investigation activities are presented in Section 2.

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THE RIVER VALLEY COLLECTION

Documents from WW II retrieved and
reproduced

Electronic versions of recent print documents
possibly retrievable

Some print documents accompanied by CD-
ROM

Documents most recently issued solely in CD-
ROM

Files in .pdf format still “look like” print
documents

For local use and ease of access: printouts
made and put in binders

Possible eventual migration of collection to

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