



# Opossum Creek Drum Site



**Moraine, Ohio  
May 2013**



# History



1960-70s – former dump, accepted construction debris, drums and tires

Fall of 2012 – Ohio EPA, local health department and Sheriff inspected the property due to reports of trespassing.

- Approximately 80,000 tires observed
- Hundreds of partially-buried drums with ink waste observed on the ground
- Signs of frequent trespassing – burn piles

Nov 2012 – Ohio EPA conducted a site visit and documented elevated levels of lead and arsenic on the site

December 3, 2012 – Ohio EPA formally referred the Site to EPA to determine if the Site met the criteria for a removal action.

December 12, 2012 – EPA conducted a site assessment at the property.

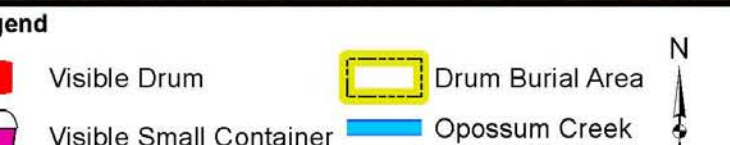
December 19, 2012 – Public Health – Dayton & Montgomery County formally referred the Site to EPA for assistance



# Site Assessment Results

- EPA observed hundreds of drums and containers partially-buried on site.
- Site contaminants include:
  - Lead as high as 233,756 ppm (Action Level = 400 ppm)
  - Arsenic as high as 15,637 ppm (Action Level = 22 ppm)
  - Flammable material inside one of the drums sampled
- 80,000 estimated tires on Site





Prepared For:  
**U.S. EPA REGION V**

Prepared By:  
**WESTON SOLUTIONS, INC.**

**Figure 3**  
 Drum Burial  
 Opossum Creek

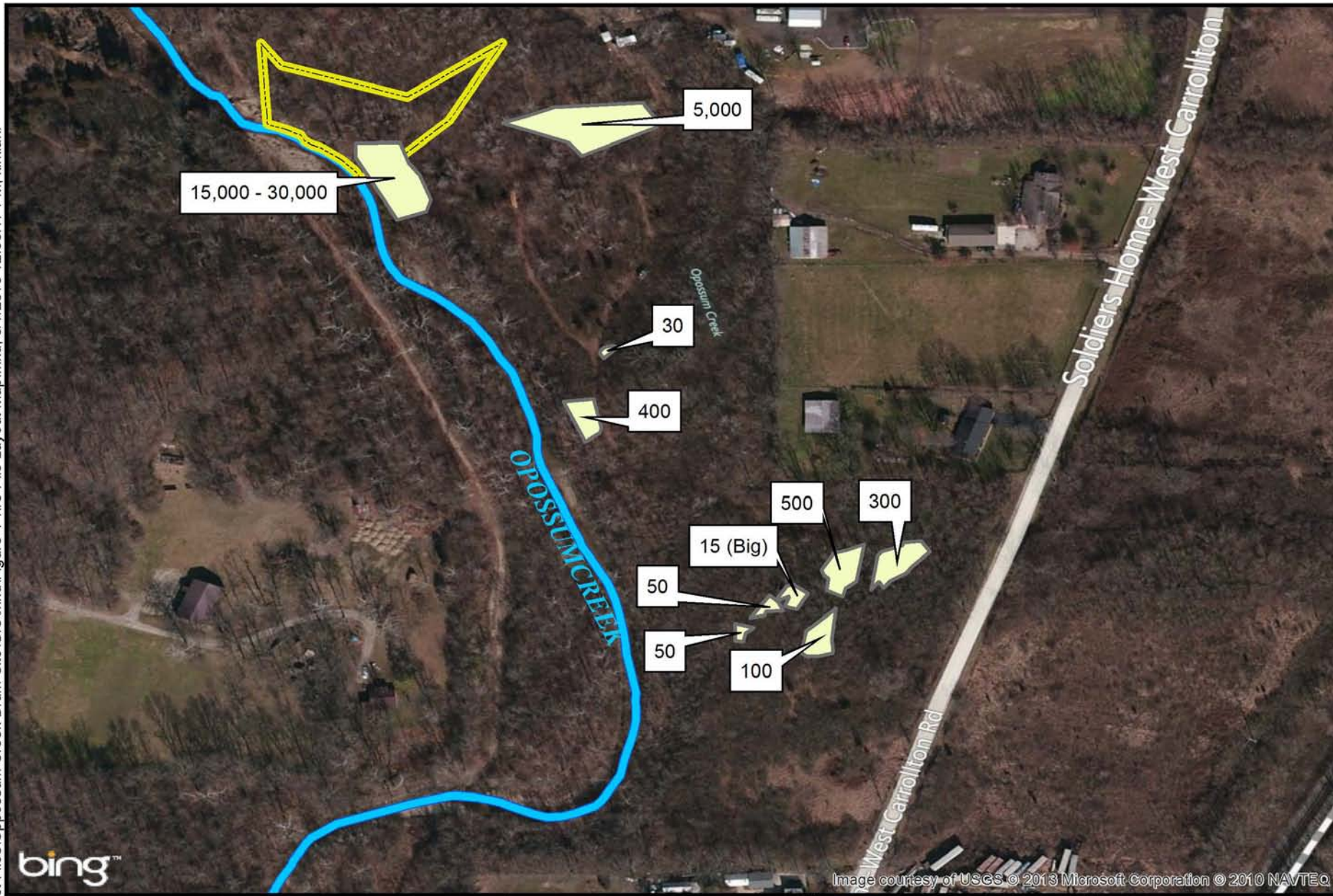


# Tire Issue



80,000 estimated tires on Site, some are buried within drum area

Ohio EPA to fund the disposal of the tires



**Legend**

	Significant Tire Pile
	Grid Location
	Drum Burial Area



 Prepared For:  
**U.S. EPA REGION V**

Contract No: EP-S5-06-04

 Prepared By:  
**WESTON SOLUTIONS, INC.**

**Figure 4**  
Tire Pile Layout Map  
Opossum Creek Drum Site  
Merzine, Montgomery County, Maryland



# Frequent Trespassing



Tire burning adjacent to Opossum Creek – oil being released into water



# Frequent Trespassing



Trespassers scrapping metal from drums by dumping contents of drums into Opossum Creek and onto the ground





# EPA Removal Action



EPA began removal action on April 29, 2013

1<sup>st</sup> step – clearing site entrance



# EPA Removal Action



2<sup>nd</sup> step – establishing command post and building roads to enable trucks to enter the site, get loaded with waste and turnaround



# EPA Removal Action

## Scope of Work:

- 1) Develop and implement a Site-specific Health and Safety Plan, including an Air Monitoring Plan, and a Site Emergency Contingency Plan;
- 2) Develop and implement a Site Security Plan;
- 3) Characterize, remove, transport and dispose of all characterized or identified hazardous waste (uncontainerized waste, partially buried and subsurface drums and small containers) and associated heavy metals-contaminated soils and debris located at the Site in accordance with EPA's Off-Site Rule (40 CFR 300.440);
- 4) Develop and implement an extent of contamination and post excavation sampling plan to verify cleanup; and
- 5) If necessary, backfill excavated areas with clean material and topsoil. Seed area to prevent soil erosion.





# Air Monitoring



Air Sampling for  
Total Metals



Particulate  
Monitoring



VOC monitoring



# Emergency Contingency Plan



## EMERGENCY CONTINGENCY PLAN

### OPOSSUM CREEK DRUM SITE MORaine, MONTGOMERY COUNTY, OHIO

March 21, 2013

The Opossum Creek Drum Site is located at 4101 Soldiers Home West Carrollton Road in Moraine, Montgomery County, Ohio (see Attachment 1). The Site is located in a mixed residential and commercial area, and is bordered to the north by a former dump; to the west and south by Opossum Creek, with residential and wooded areas beyond; and to the east by commercial and residential areas, with wooded areas beyond (see Attachment 2). Commercial businesses are located within 500 feet east of the Site, and the closest residences are located within 300 feet west of the Site.

The Site encompasses an area of approximately 28,100 square feet. Hundreds of visible drums and containers are partially buried on Site. Some partially buried drums and containers have been observed next to and within Opossum Creek, which eventually discharges into the Great Miami River. In addition to the partially buried drums and containers on site, there are thousands of abandoned tires (see Attachment 3).

#### SITE HISTORY

Historic records indicate that the Site is a former dump that at some point began receiving and burying 55-gallon drums and containers in an area next to Opossum Creek.

On November 2, 2012, Public Health – Dayton Montgomery County (PHDMC) issued a Notice of Violation letter to the owner of the property. The letter summarized the findings of an inspection conducted at the property on October 25, 2012, by PHDMC, the Ohio Environmental Protection Agency (OEPA), Montgomery County Sheriff (MCS), Liberty Tires, and Rumpke. The October 25, 2012, inspection was a follow-up to a previous inspection conducted on June 22, 2012. The purpose of the investigation was to determine if the property still was in violation of Ohio's Solid Waste Regulations. The October inspection documented thousands of scrap tires dumped on the ground and burnt scrap tires and miscellaneous solid waste scattered throughout the property. The inspection also documented numerous barrels containing various colored substances believed to be ink or paint.


In an MCS incident report dated October 25, 2012, an MCS representative inspected the property and documented the conditions summarized below.


- Approximately 80,000 scrap tires were observed at various locations throughout the property.
- Approximately 100 metal drums containing dye, ink, or paint from a printing company were observed.
- All of the metal drums displayed signs of corrosion.
- The colored substance, believed to be paint, was visible on the ground and in Opossum Creek at multiple locations.
- Several burn piles were observed throughout the property. In these areas, scrap tires had been burned and their rims removed. OEPA determined that burning had been conducted recently in these areas.






# Website


 [profile](#) [bulletin](#) [images](#) [documents](#) [Pol/Sitreps](#) [contacts](#) [links](#) [login](#) [profile](#) [Navigate epa osc](#)

United States Environmental Protection Agency 



## Opossum Creek Drum Site

Moraine, OH - EPA Region V



Site Contact:  
**Steven Renninger**  
On-Scene Coordinator  
[renninger.steven@epa.gov](mailto:renninger.steven@epa.gov)

4101 Soldiers Home West Carrolton Road  
Moraine, OH 45342  
[www.epaosc.org/opossumcreekdrumsite](http://www.epaosc.org/opossumcreekdrumsite)  
Latitude: 39.6880300  
Longitude: -84.2726610

[KML](#) | [RSS](#) | [site map](#) | [area map](#) | [bookmark](#)


On December 5, 2012, the Ohio EPA requested assistance from U. S. EPA Region 5 at the Opossum Creek Drum Site in Moraine, OH. The Site contains partially buried drums on the bank of the Opossum Creek. Initial sampling by Ohio EPA indicates drums contain elevated levels of heavy metals including arsenic, lead, and chromium.

A U.S. EPA site investigation was conducted on December 12, 2012 documenting heavy metals (lead, arsenic) in partially buried drums.

A time-critical removal action was initiated on April 29, 2013. See POLREP 1 for details.

For additional information, visit the **Pollution/Situation Report** ([Pol/Sitreps](#)) section.

[Buletins](#)  
None for this site.

[Images](#)  


[List All...](#)

[Documents](#)  
[Emergency Contingency Plan...](#)  
[U.S. EPA Site Assessment Report...](#)  
[Dayton Daily News article date...](#)  
[Potential location of addition...](#)

[List All...](#)

[Pol/SitRe ps](#)  
**POLREP - 1**

[List All...](#)

[Contacts](#)  
Property Owner  
[qwendolyn\\_dilboy@yahoo.com](mailto:qwendolyn_dilboy@yahoo.com)  
ESS  
[rafati.Mike@epa.gov](mailto:rafati.Mike@epa.gov)

[List All...](#)

[Links](#)  
None for this site.

---

[web sites](#) | [regional web sites](#) | [profile](#) | [bulletins](#) | [images](#) | [documents](#) | [Pol/Sitreps](#) | [contacts](#) | [links](#) |