



# **Community Meeting** December 17, 2013

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The U.S. Department of Energy Office of Legacy Management (LM) community meeting on the Fernald Preserve was held December 17, 2013.



Jane Powell, LM, managed the Fernald Preserve from 2006 to 2013.



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# Agenda

- Safety
- Aquifer Restoration
- On-Site Disposal Facility
- Environmental Monitoring
- Ecological Restoration
- Nature Nook
- Community Relations

Community meeting agenda.



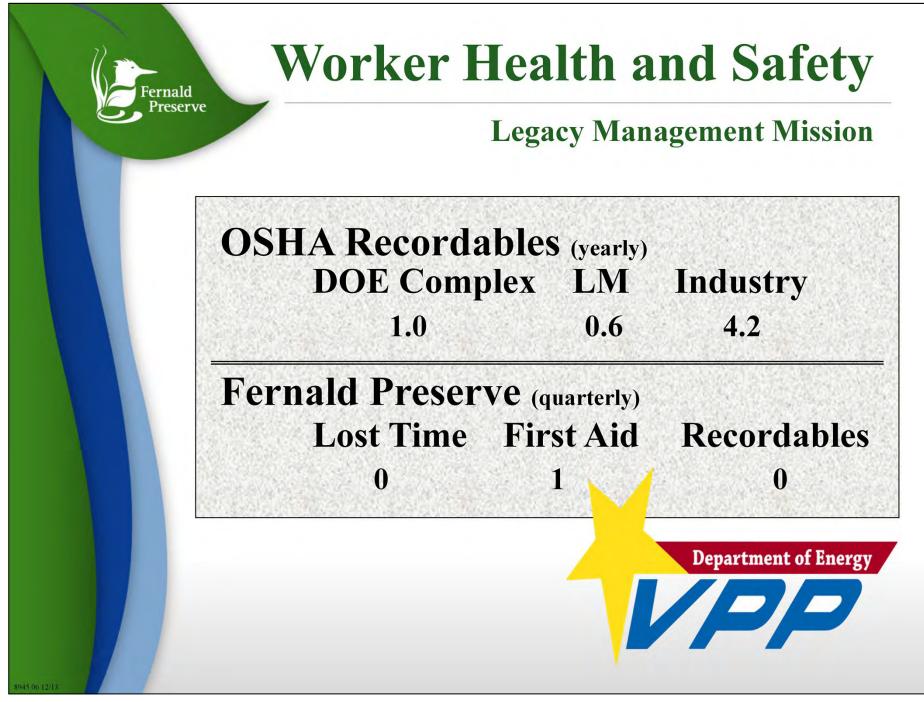
#### **Fernald Preserve**

#### **Legacy Management Mission**

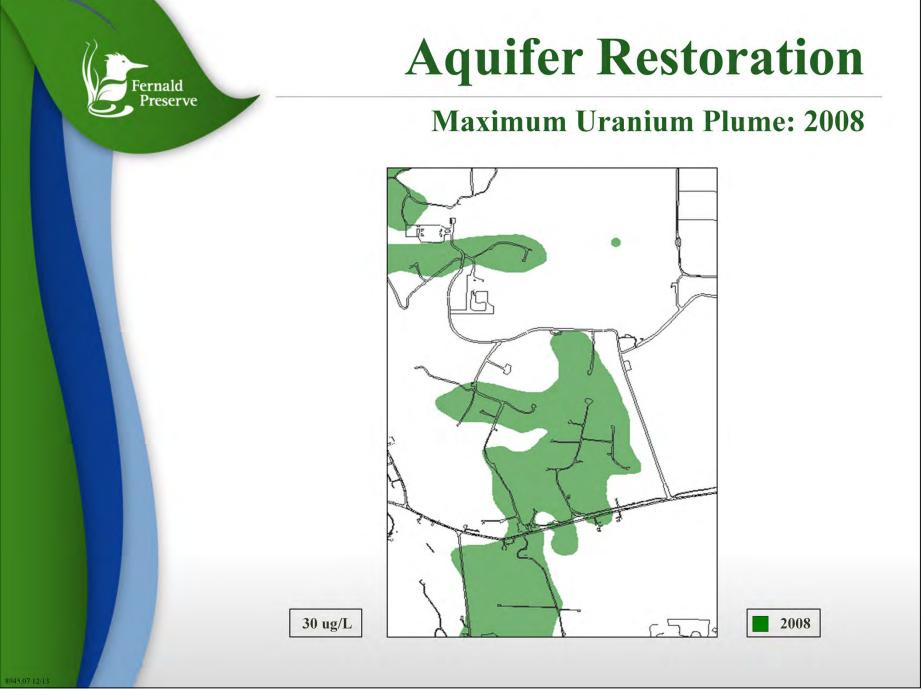


Manage DOE's post-closure responsibilities and ensure the protection of human health and the environment.

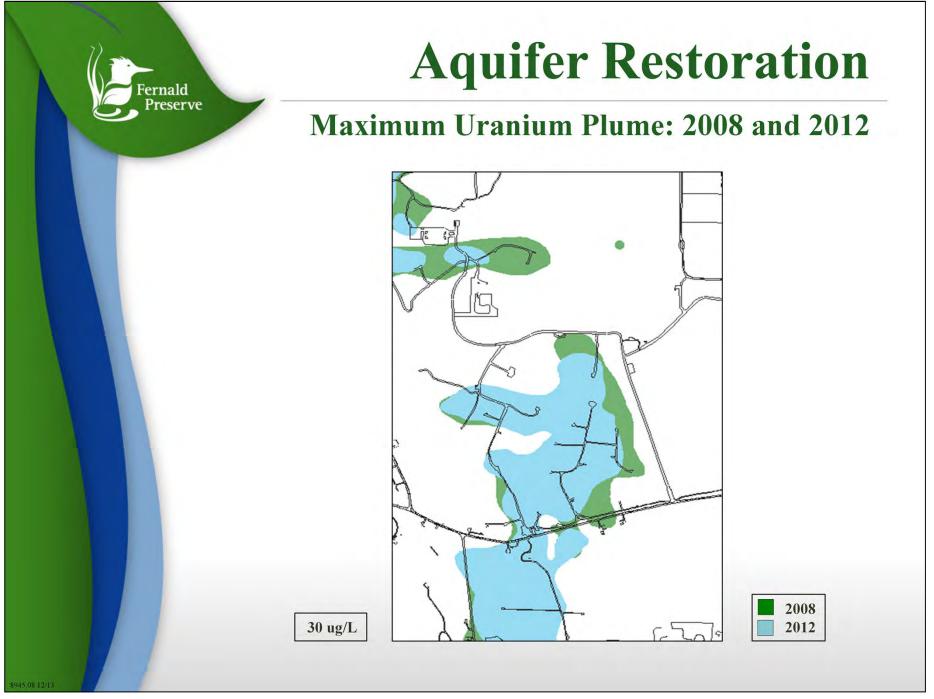
The LM mission. Image: June 2013.



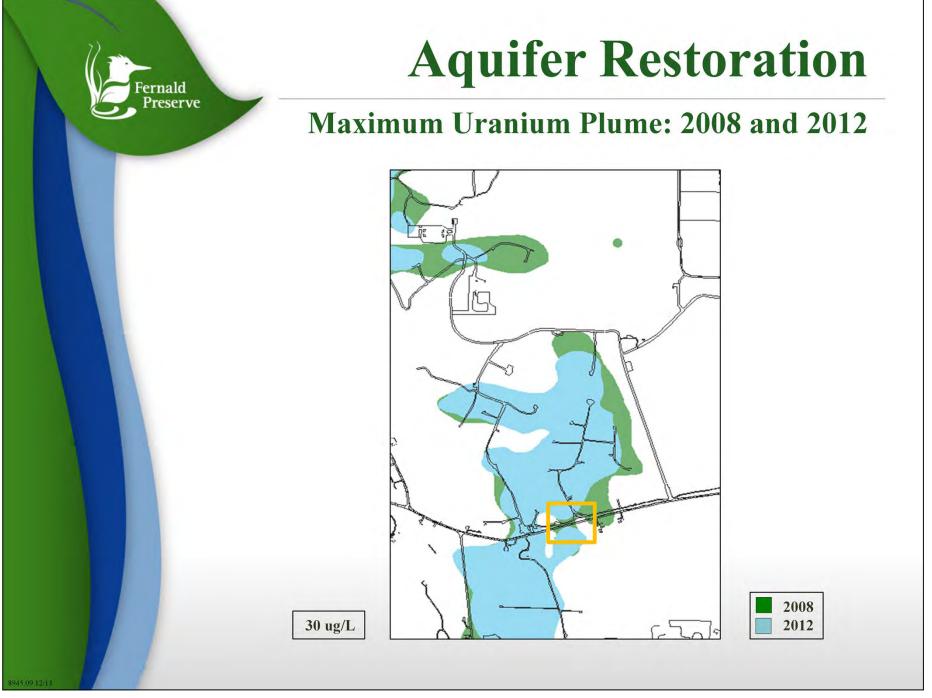
Safety at the Fernald Preserve, and across the LM complex, continues to surpass industry standards.



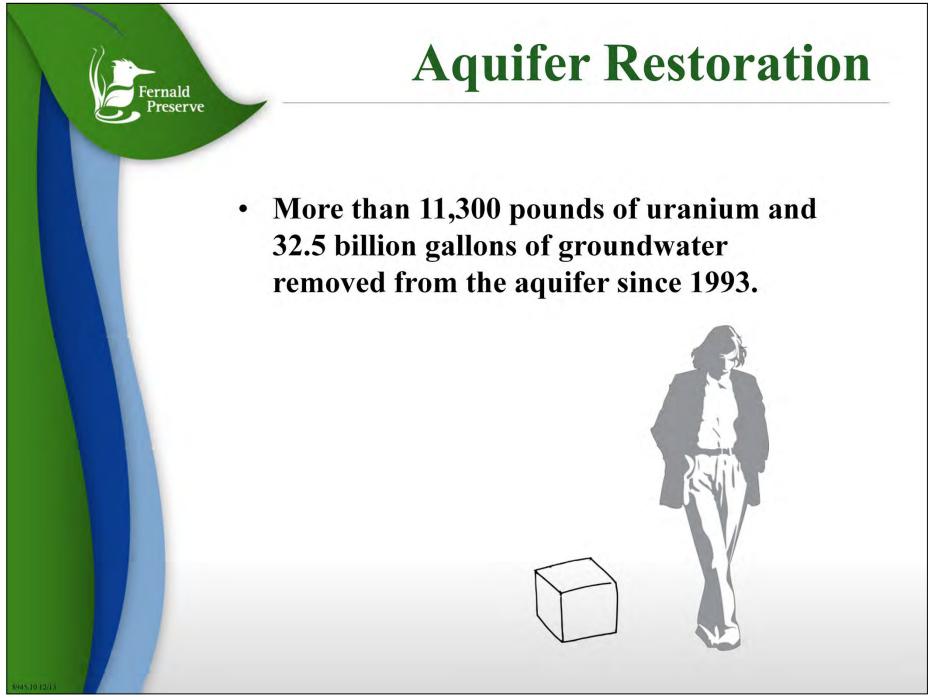
Progress continues on the cleanup of Fernald Preserve groundwater as demonstrated by the decrease of the uranium plume from 2008 to 2012.



The mapped interpretation of the groundwater uranium plume has decreased approximately 57 acres since 2008.



Computer modeling is used to predict cleanup durations.



The 11,313 pounds of uranium removed from the aquifer since 1993 would fit into a 2-foot cube.



The On-Site Disposal Facility (OSDF) has been performing as designed since construction was completed in 2006. Image: June 2006.

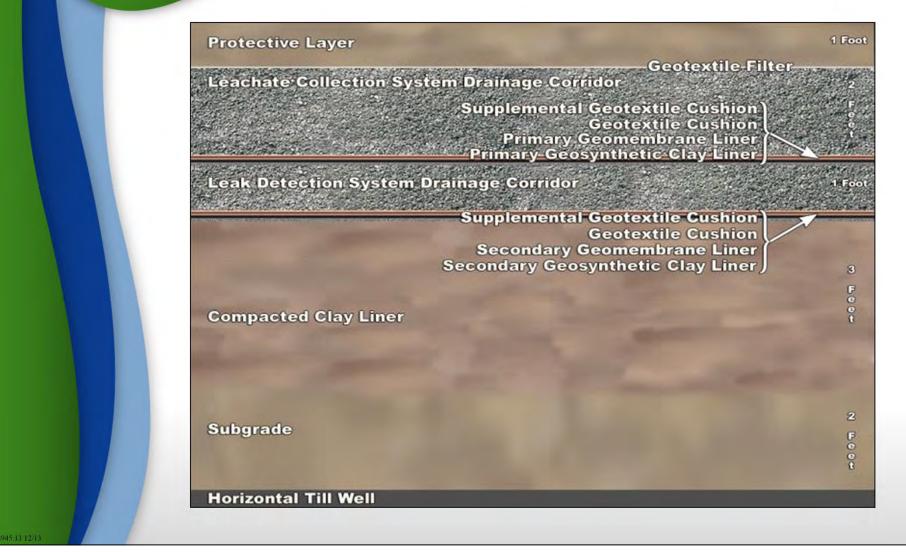


The OSDF engineered cover system.

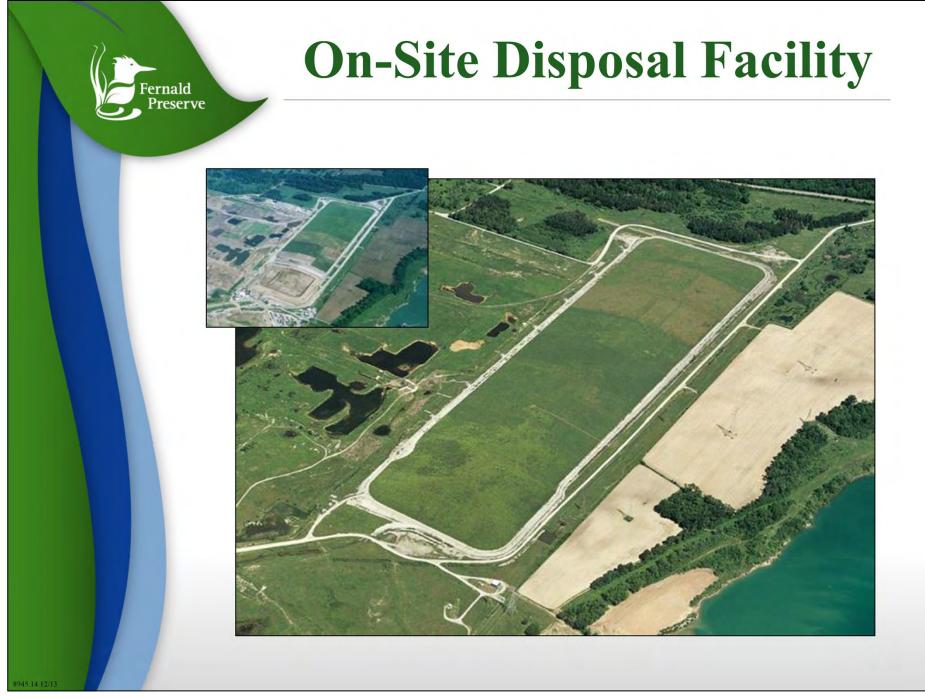


# **On-Site Disposal Facility**

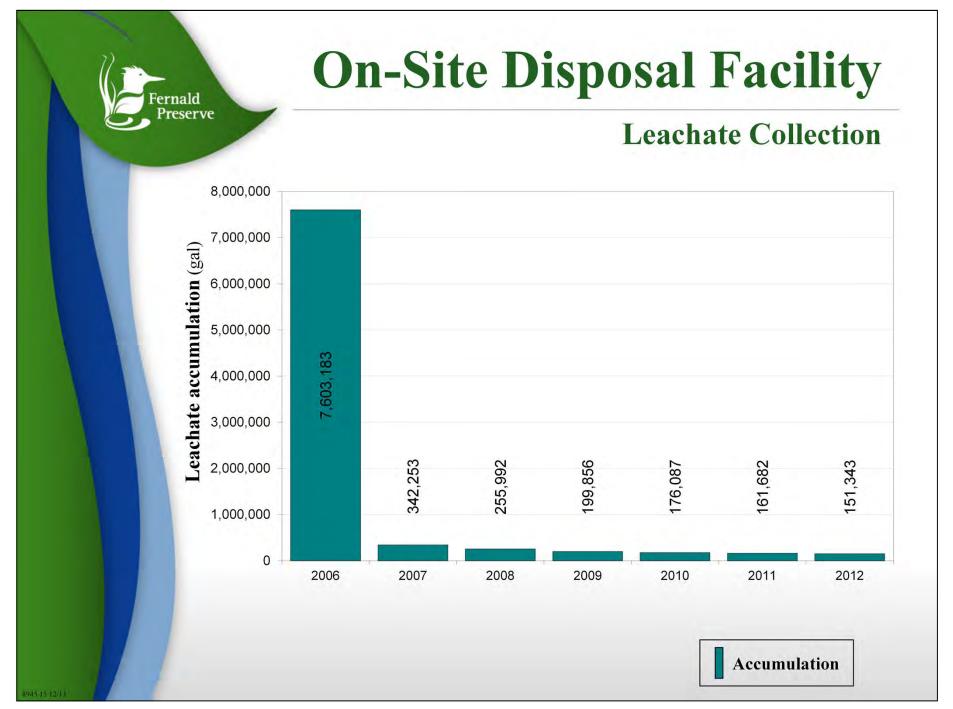
#### Liner



The OSDF engineered liner system.



Visual inspections and collected data indicate that the OSDF has been performing as designed. Image: June 2013.

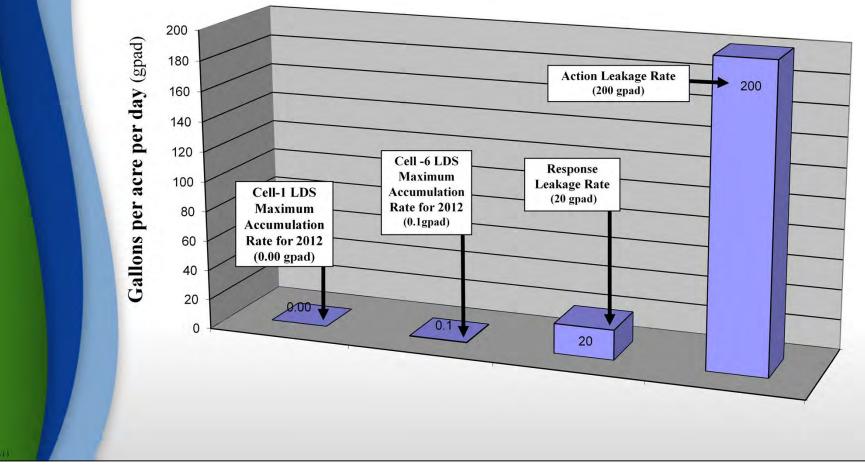


Moisture given up by the waste within the OSDF is called "leachate." This leachate, which is collected and treated, has decreased dramatically—as anticipated—since the disposal facility was closed in 2006.



# **On-Site Disposal Facility**

2012 Cells 1 and 6 Leak Detection System Accumulation, Response, and Action Level Rates



Leak Detection System accumulation rates remain well below the conservative response rate of 20 gallons per-acre-per-day (gpad) and the design action rate of 200 gpad.

#### **Environmental Monitoring**



ernald Preserve

More than 11,600 samples have been collected as part of the environmental monitoring activities at the Fernald Preserve since 2008.



Site inspections and OSDF inspections are conducted quarterly, per the Fernald Preserve Legacy Management and Institutional Controls Plan.



Ecological restoration activities continue at the Fernald Preserve. Aerial image: June 2007.



Ecological restoration activities continue at the Fernald Preserve. Aerial image: June 2013.



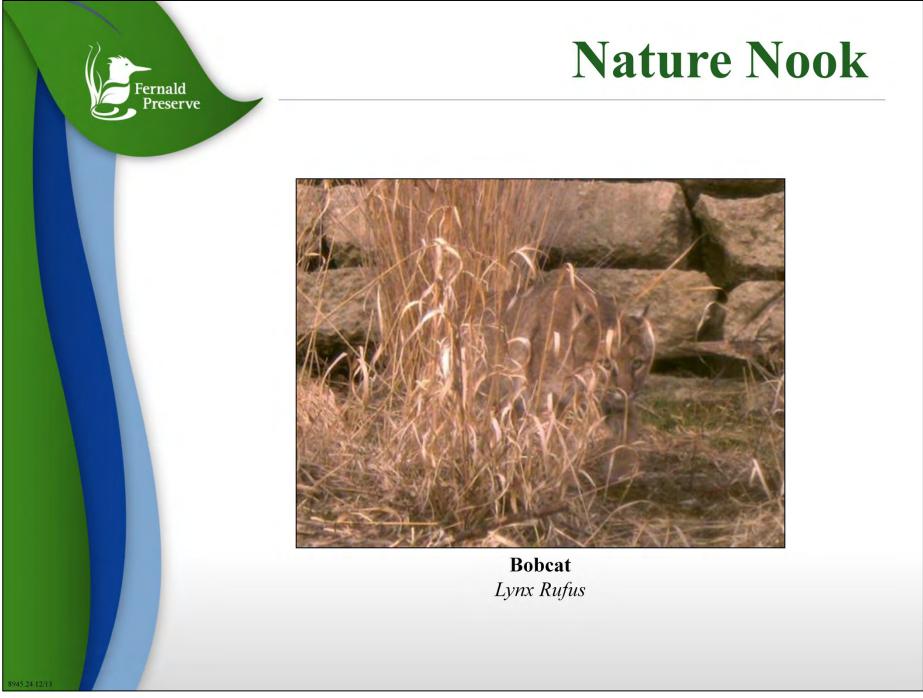
More than 230 species of birds have been identified at the Fernald Preserve.



A wide variety of plants and animals have inhabited the Fernald Preserve.



The American burying beetle is an endangered species that was released at the Fernald Preserve in May 2013. The U.S. Department of Energy partnered with the U.S. Fish and Wildlife Service and the Cincinnati Zoo to release 120 pairs of the beetle on the site.



Several sightings of bobcats have been reported at the Fernald Preserve.

### **Community Relations**

- Visitors Center
- Community Meeting Room
- Tours and Events
- Trails

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As a community asset, the Fernald Preserve fosters wildlife habitat and provides educational opportunities through environmental stewardship.



The Fernald Preserve Visitors Center has been open to the public since August 2008.



More than 45,000 people have used the Fernald Preserve Visitors Center since it opened in 2008.



The Community Meeting Room is available for use by the public.



A variety of tours and events have taken place at the Fernald Preserve.



Seven miles of trails are open to the public at the Fernald Preserve.

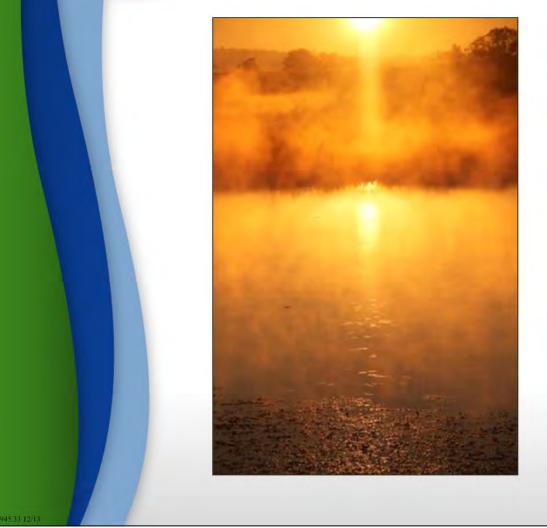


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### What's Next



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- Legacy Management and Institutional Controls Plan
- Sheltered outdoor classroom
- Updated groundwater restoration approach
- New Year's Eve hike

Several upcoming projects and events are planned for the Fernald Preserve, and updates have been made to the Legacy Management and Institutional Controls Plan.



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Gwen Hooten is the new LM Site Manager for the Fernald Preserve.