

# CLINTON LABS GREEN INITIATIVES & SUSTAINABILITY

MARCH 2023 PARTNERS QUARTERLY MEETING

Presenter:  
John Batronis



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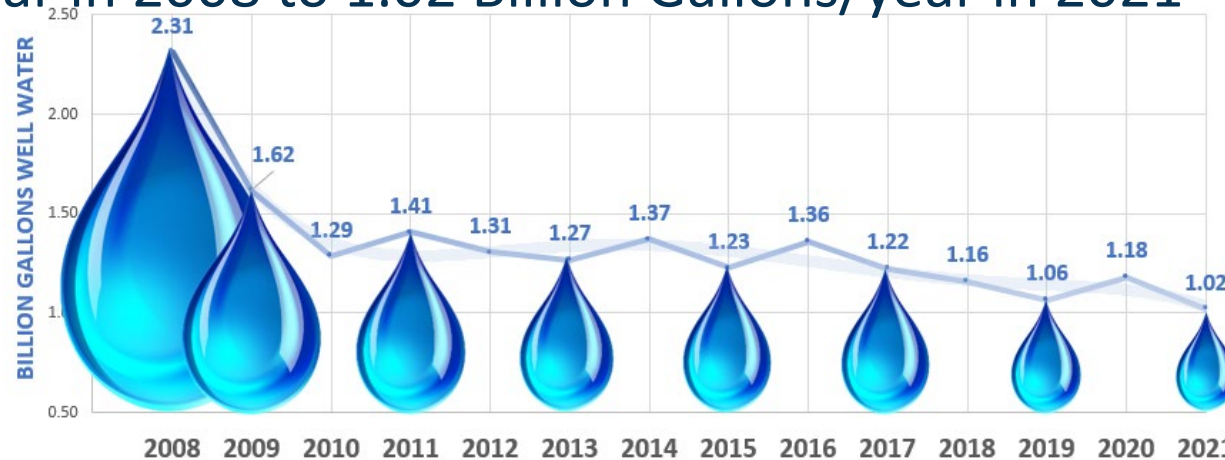


# Clinton Labs Green Initiatives and Sustainability

- Clinton Laboratories has completed many green initiatives and sustainability projects in its 52-year history
- Many of these initiatives and projects have been collaborative efforts with external organizations:
  - Indiana Environmental Stewardship Program (ESP)
  - Indiana Department of Natural Resources (DNR) & U.S. Fish and Wildlife Service
  - Vermillion County Soil and Water Conservation District (VCSWCD)
  - Indiana Partners for Pollution Prevention (Partners)

# Environmental Stewardship Program (ESP)

- Clinton Labs was a Charter Member of the organization in 2007
- ESP recognizes and rewards Indiana 'regulated entities' for going above and beyond current environmental regulations
- Key accomplishments since 2007:
  - 29,600 MWh (Megawatt hours) of documented electrical savings
  - 5,000 lbs/year reduction in phosphorus discharged to the Wabash River (2018 on)
  - 3,000 lbs/year reduction in R134A refrigerant losses (2020)
  - Cumulative permanent reduction in site water demand from 2.31 Billion Gallons/year in 2008 to 1.02 Billion Gallons/year in 2021



# Department of Natural Resources (DNR)



- Floodplain Restoration Project – 2006 through 2007
  - Wetland areas re-established with hydrophytic vegetation
- Healthy Rivers Initiative – April 2011
  - Donation of 308 acres in the Wabash River corridor
  - 121 acres continue to be farmed; 30.5-acre wetland restoration
- 50 Trees of Indiana Display – September 2011
- Wetlands Plantings/Wildlife Habitat Development – July 2013
  - Included local school district assistance...
- Plains Leopard Frog Survey – May 2020



South Vermillion Community School Corporation  
Believe. Achieve. Succeed.



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# Department of Natural Resources (DNR)



# Vermillion County Soil and Water Conservation District (VCSWCD)

- Collaboration and review of site stormwater pollution prevention plans for construction projects disturbing greater than 1 acre
- Active site participation in VCSWCD Local Working Group meetings to generate recommendations on local natural resource priorities and criteria for conservation activities and programs
- In 2021 the site provided its support and commitment to the VCSWCD for a proposed Big Raccoon-Mill Creek water quality assessment and 'watershed management plan' development project
- Assistance and consulting on best-practices for farm soil management



# Partners for Pollution Prevention (PARTNERS)

- Comprised of Indiana industries, businesses, nonprofit organizations and governmental entities that are interested in pollution prevention (P2)
- Provides a forum for networking, sharing P2 experiences and ideas, and discuss P2's integration into IDEM's environmental policies and programs
- Partners Membership
  - Former membership through **2018** as an **Eli Lilly and Company** site
  - New membership in **June 2021** as **Elanco-Clinton Laboratories**



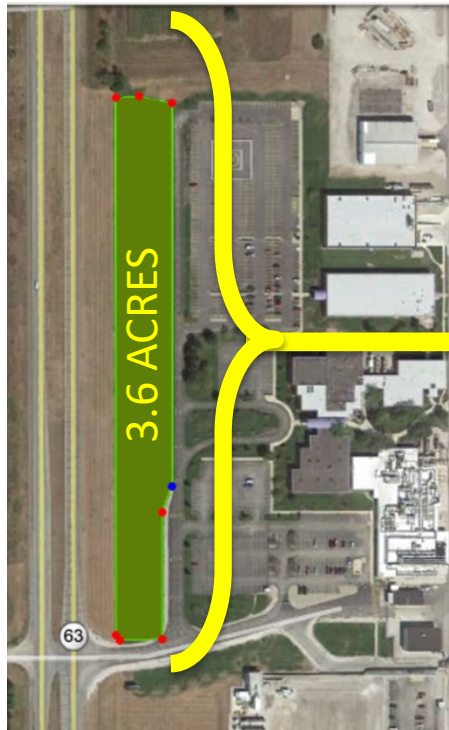
# Other Initiatives

- Native Tree and Prairie Habitat Area Installation in 2019
  - Estimated water savings of more than 5 million gallons per year
  - Reduction in greenhouse gas emissions mowing this area
  - Biodiversity improvement and preservation
  - Involves an ongoing invasive control strategy:
    - Crew of trained and licensed technicians visit the site 3 times during the growing season
    - Spot treat invasive species by hand with an appropriate herbicide



# Native Prairie Habitat Area

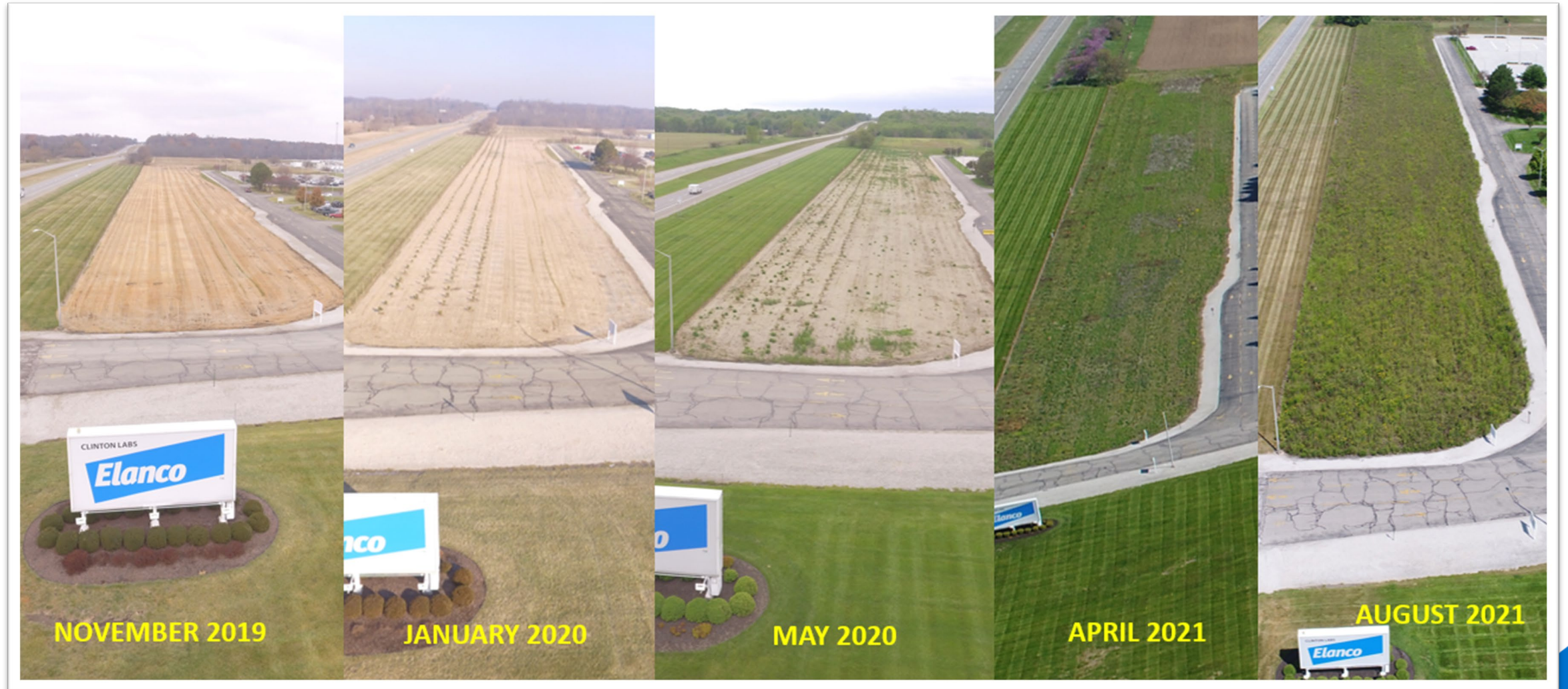
- **Before Project:** 3.6 Acres of grass was watered and mowed along Indiana SR 63 in front of the site
- **After Project:** a native habitat area was planted with a native prairie seed mix
- In addition, over 500 White Pines were planted as a screen along the highway, along with several 'tree islands' consisting of Bald Cypress, Bur Oak, Sycamore, and River Birch trees (additional 250 trees)



## WATER SAVINGS:

$$\begin{aligned} & 3.6 \text{ acres} \times \\ & 2 \frac{\text{inches}}{\text{week}} \times \\ & 30 \frac{\text{weeks}}{\text{year}} \times \\ & \frac{1 \text{ acre-foot}}{12 \text{ acre-inches}} \times \\ & 325,851 \frac{\text{gallons}}{\text{acre-foot}} = \\ & 5,865,318 \text{ gallons/year} \end{aligned}$$

# Water Savings Successes at Elanco Clinton Laboratories



# Other Green Initiatives

- Active beekeeping club on site with three hives
- Plant site Recycling – Single Waste Stream Collection (2)
- Butterfly Sanctuary, Bat Houses and Duck Houses in River Bottoms
- Sustainable Packaging Projects – reducing waste, using recycled and recyclable materials
- GHG emissions products
  - Experior™ (lubabegron)
    - reduction of ammonia gas emissions
  - Bovaer®
    - reduces enteric methane emissions

**Elanco**



A screenshot of a web page showing a press release. The page has a white header with the DSM logo on the left and navigation links for "Our company", "Our businesses", "Science &amp; Innovation", "Sustainability", "News", "Investors", and "Careers" on the right. Below the header, there is a breadcrumb trail: "News &gt; News archive &gt; Elanco and Royal DSM Announce Strategic Alliance in U.S. for Bovaer® – A Revolutionary, Methane-Reducing Feed Additive for Cattle". The main content area features a photograph of several cows in a barn, with a "Press Release" label overlaid on the top left. Below the image, the headline reads: "Elanco and Royal DSM Announce Strategic Alliance in U.S. for Bovaer® – A Revolutionary, Methane-Reducing Feed Additive for Cattle". At the bottom of the page, the date and location are listed: "Heerlen, NL, 27 April 2022 07:00 CET".