Eco-Logical GIS Tool

Sungmin Lee

Manager of Data Visualization, Data Analytics and Research Department

Houston-Galveston Area Council

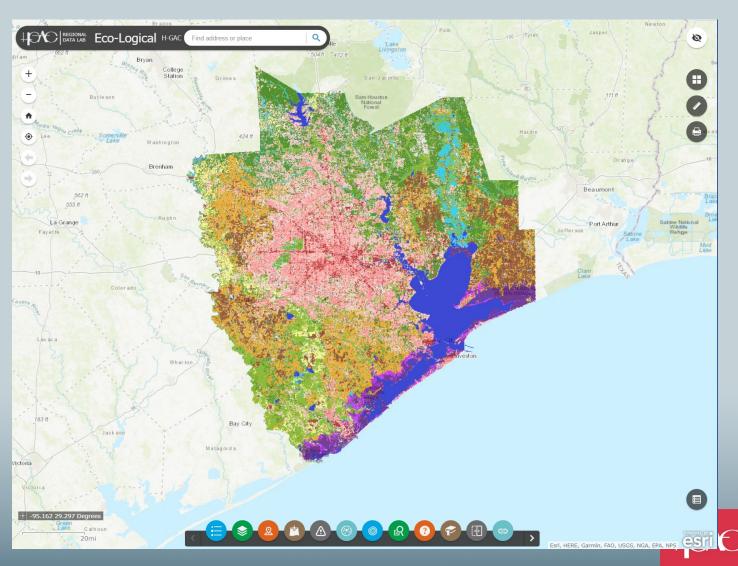
RTP Project Development Process: Project Sponsor Workshop May 14, 2024



What is Eco-Logical GIS Tool?

- The Eco-Logical GIS
 Tool allows users to
 measure the impacts
 associated with future
 transportation projects in
 the early stages of planning
 process.
- It helps in preserving the critical ecological resources that are necessary for maintaining and improving the quality of life in the region.

https://datalab.h-gac.com/EcologicalGIS/



What is Ecological Layer?





Eco-Logical Advisory Committee





















Ecologicant type

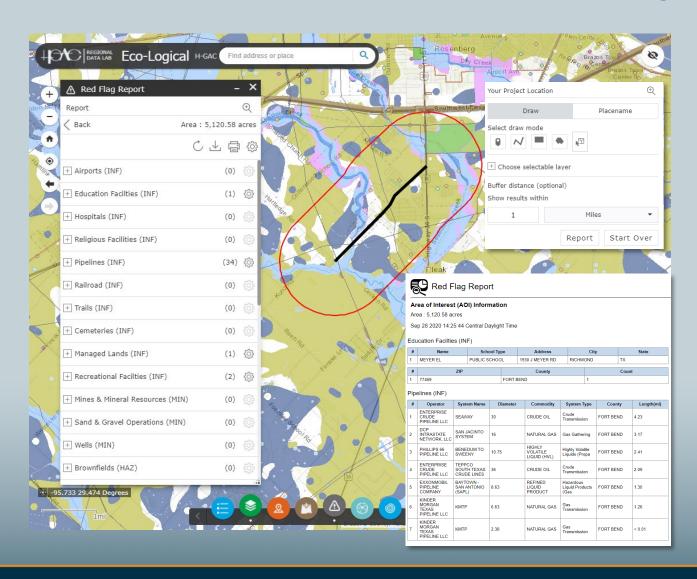
- 1. Upland Forest
- 2. Bottomland Forest
- 3. Prairies
- 4. Tidal Prairies
- 5. NePrairie Grasslands
- 6. Freshwater Wetlands
- 7. Tidal Wetlands

NonEcologicant dype

- 1. Barren Lands
- 2. Row Crops
- 3. Open Water
- 4. Developed High Intensity
- 5. Developed Medium Intensity
- 6. Developed Low Intensity
- 7. Developed Open Spaces



What is Red Flag Report?



INFRASTRUCTURE (10)

Pipelines, Railroads, Religious Facilities, Managed Lands, Cemeteries, Schools, Airports, Hospitals, Recreational Facilities, & Trails

MINING / MINERAL EXPLORATION (3)

Petroleum Well, Mines & Mineral Resources, Sand & Gravel Operations

HAZARDOUS MATERIALS (7)

Brownfields, Superfund Sites, Active/Closed Landfills, NPDES Facilities, RCRA Sites, & Underground Storage Tanks Facilities

WATER RESOURCES (4)

303d Impaired Waterways 303(d) Listed Impaired Waters, FEMA Floodplain, Rivers and Streams, & Lakes / Ponds

CULTURAL RESOURCES (2)

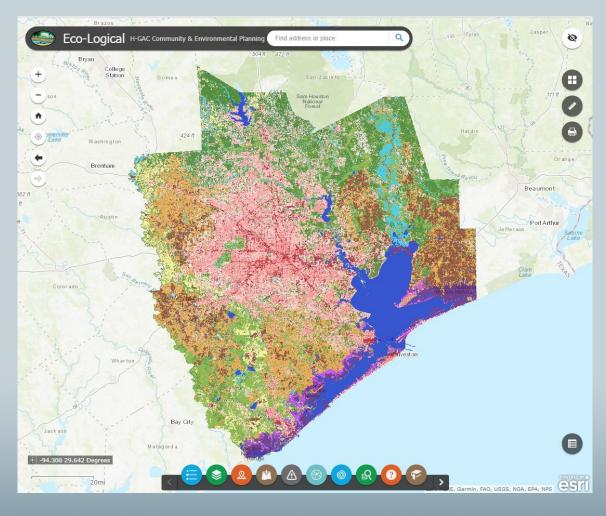
Archeological Sites & Historical Sites

ECOLOGICAL RESOURCES (5)

Eco-Type land Prime Farmland, FWS Critical Habitats, Rare, Threatened & Endangered Species, & Vulnerable Population



Demonstration



http://datalala.com/EcologicalGIS/



Contact Information

Sungmin Lee

Manager, Data Visualization, Data Analytics and Research

Department

Houston-Galveston Area Council

Email: Sungmin.Lee@h-gac.com

