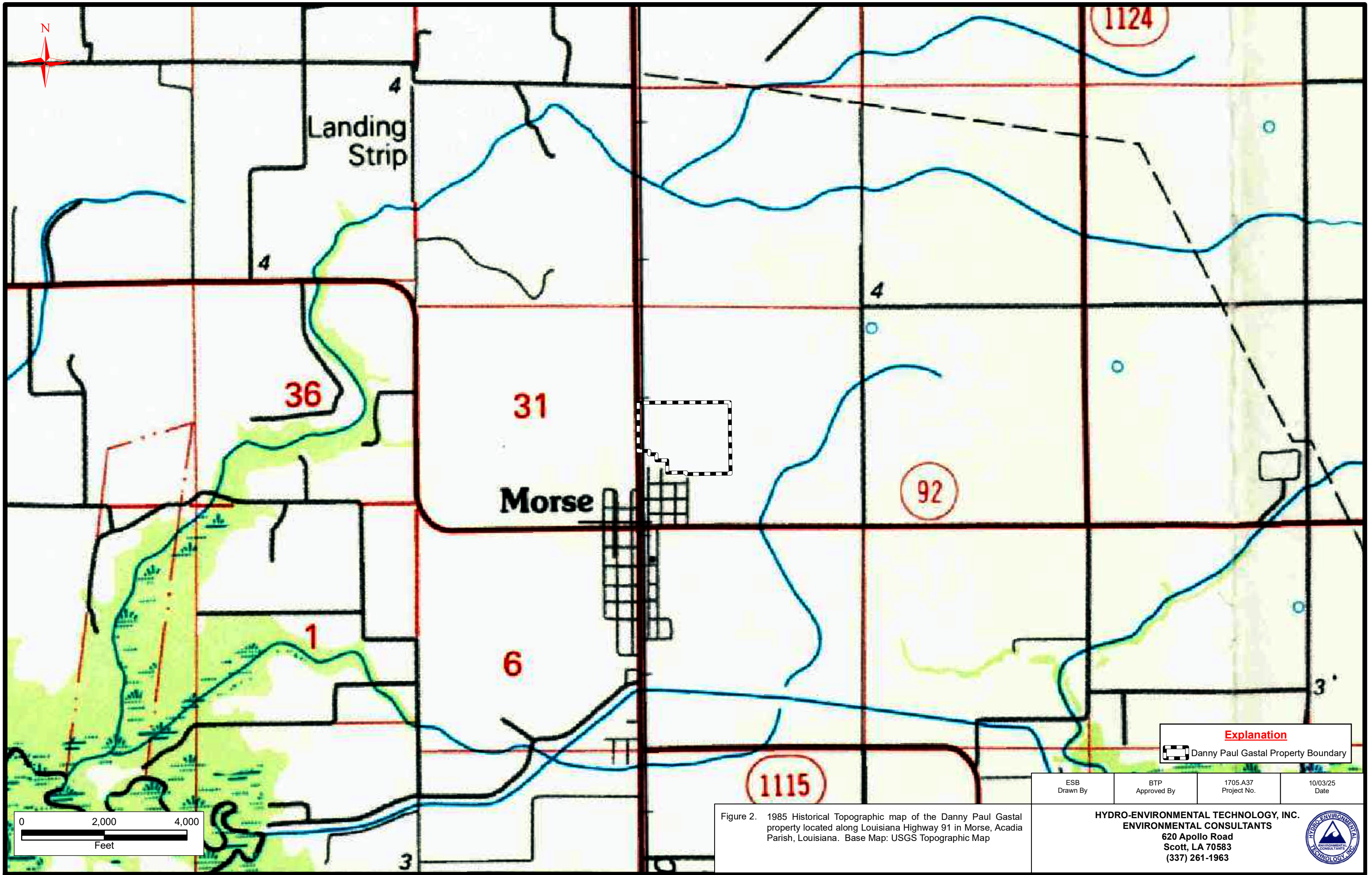


Figure 1. Site location map of the Danny Paul Gastal property located along Louisiana Highway 91 in Morse, Acadia Parish, Louisiana. Base Map: USGS Topographic Map

Explanation			
[Red dashed line symbol] Danny Paul Gastal Property Boundary			
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Explanation
[Symbol] Danny Paul Gastal Property Boundary

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Figure 3. 2024 Aerial Photograph of the Gastal property located along Louisiana Highway 91 in Morse, Acadia Parish, Louisiana. Source: ESRI

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0 300 600
Feet

Explanation

- Limited Admission Area
- Danny Paul Gastal Property Boundary

Figure 4. Aerial photograph illustrating the Limited Admission Area within the Gastal property. Base Map: 2024 ESRI

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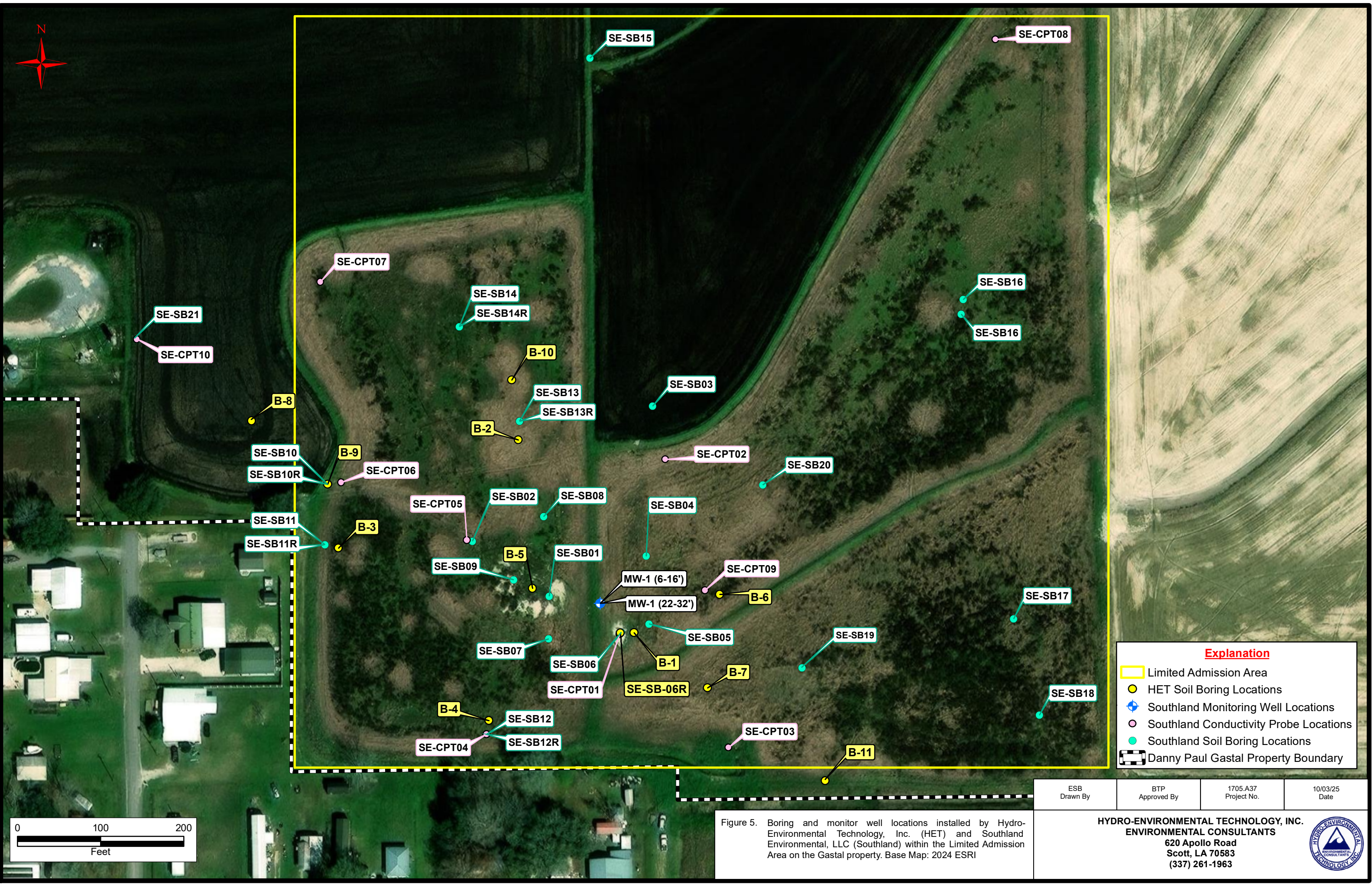
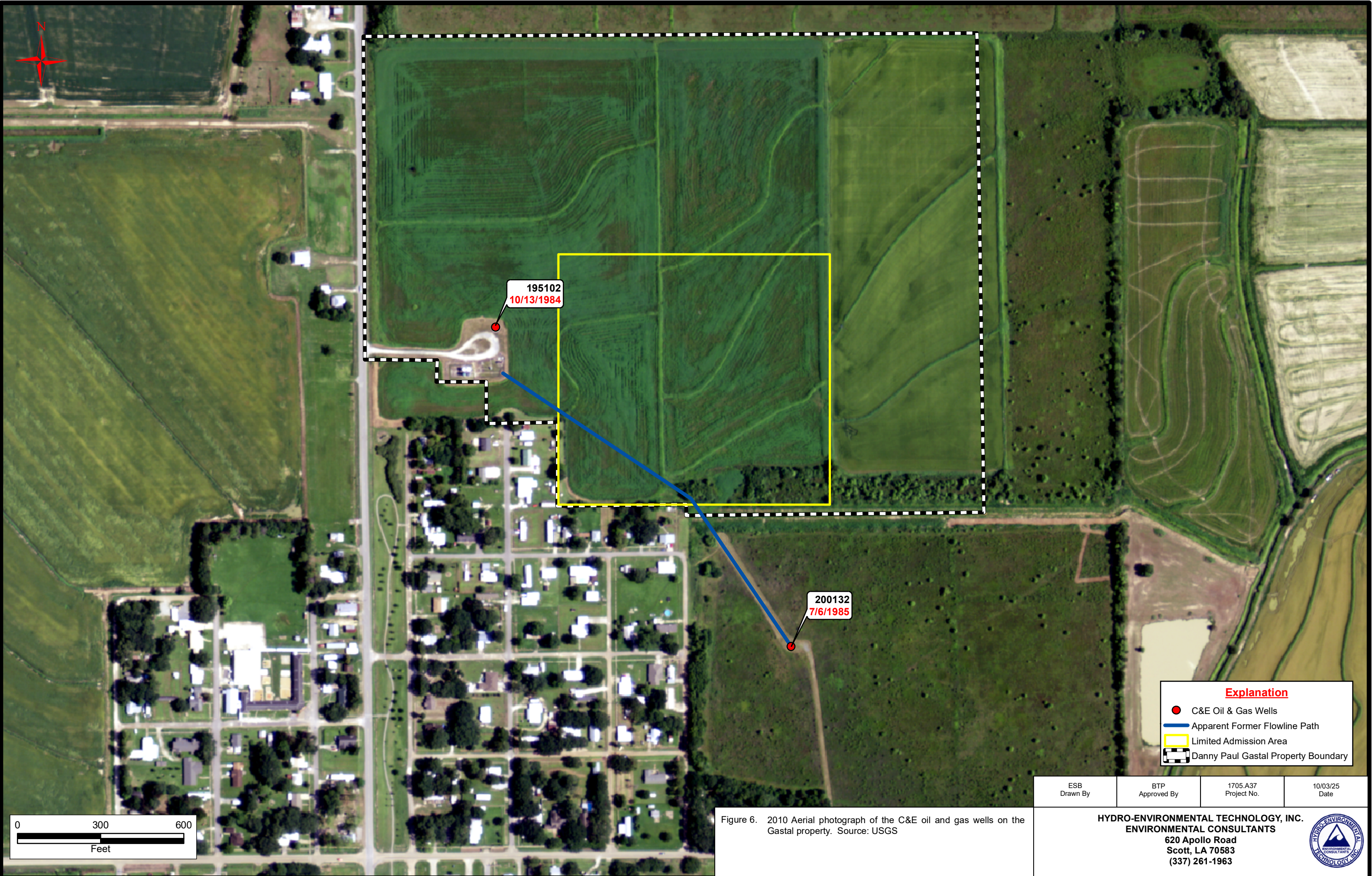


Figure 5. Boring and monitor well locations installed by Hydro-Environmental Technology, Inc. (HET) and Southland Environmental, LLC (Southland) within the Limited Admission Area on the Gastal property. Base Map: 2024 ESRI



Explanation

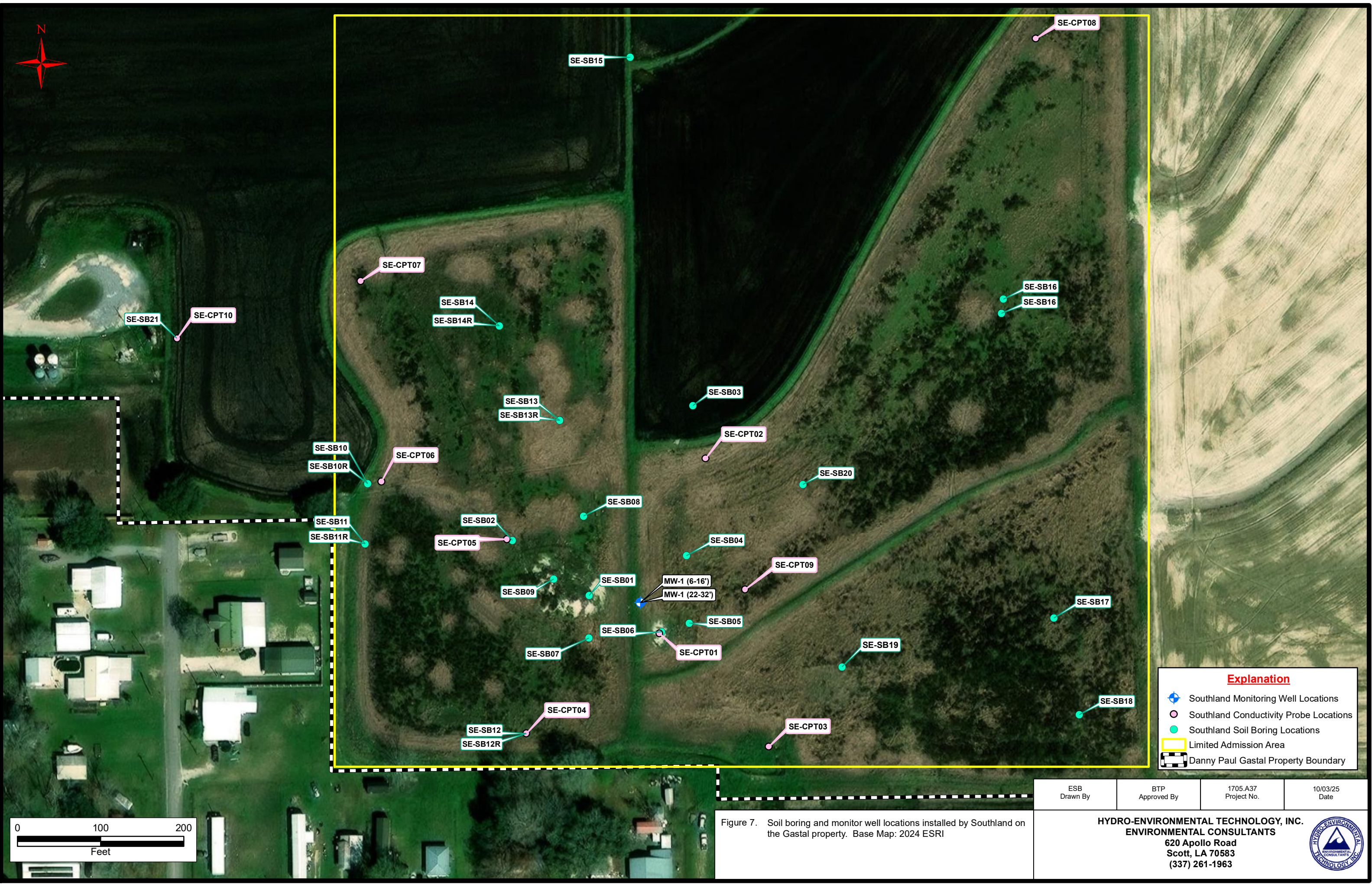
- C&E Oil & Gas Wells
- Apparent Former Flowline Path
- Limited Admission Area
- ▬ Danny Paul Gastal Property Boundary

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Figure 6. 2010 Aerial photograph of the C&E oil and gas wells on the Gastal property. Source: USGS

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Explanation

- Southland Monitoring Well Locations
- Southland Conductivity Probe Locations
- Southland Soil Boring Locations
- Limited Admission Area
- Danny Paul Gastal Property Boundary

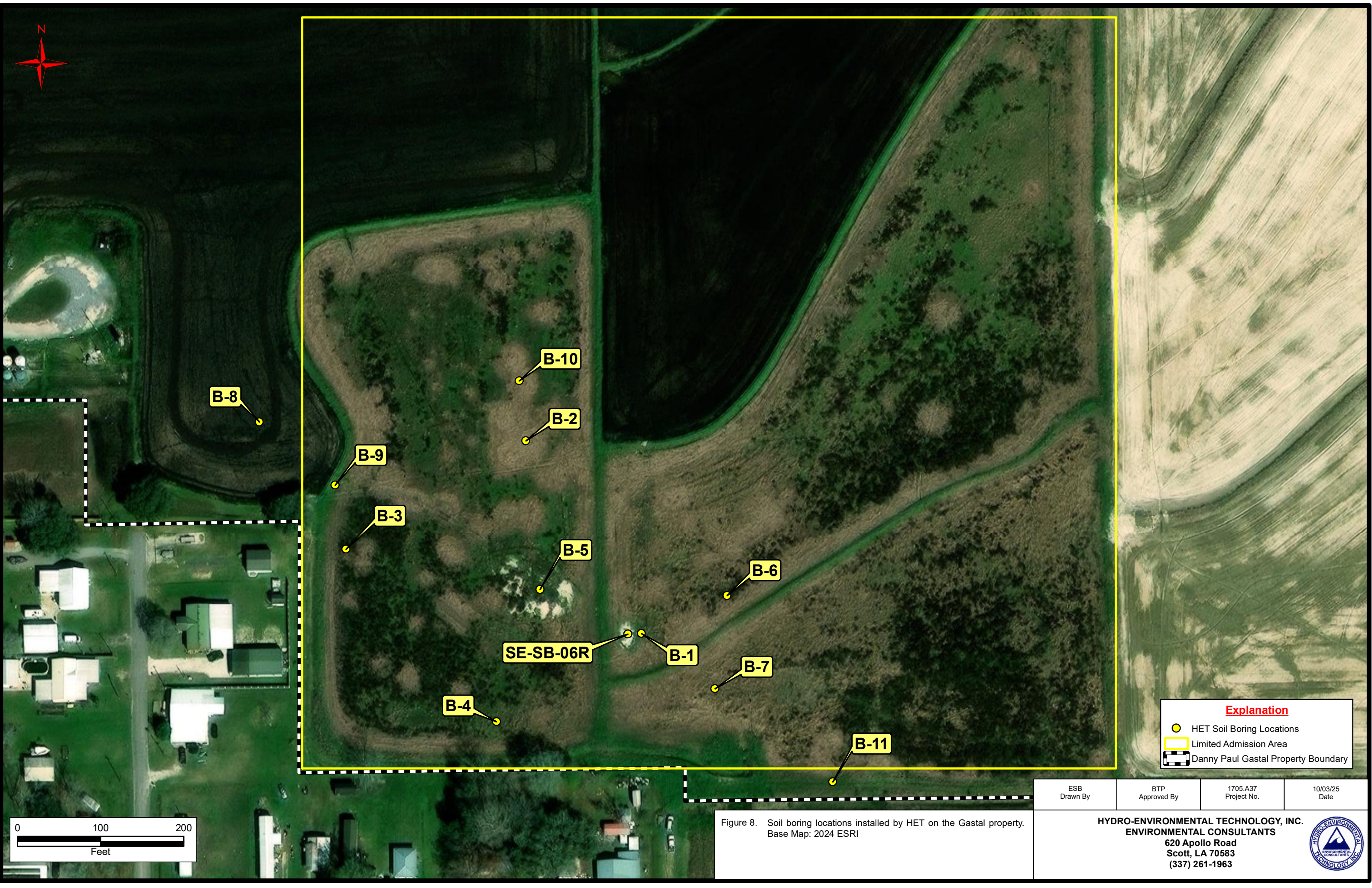
0 100 200
Feet

Figure 7. Soil boring and monitor well locations installed by Southland on the Gastal property. Base Map: 2024 ESRI

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Explanation

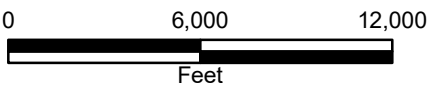
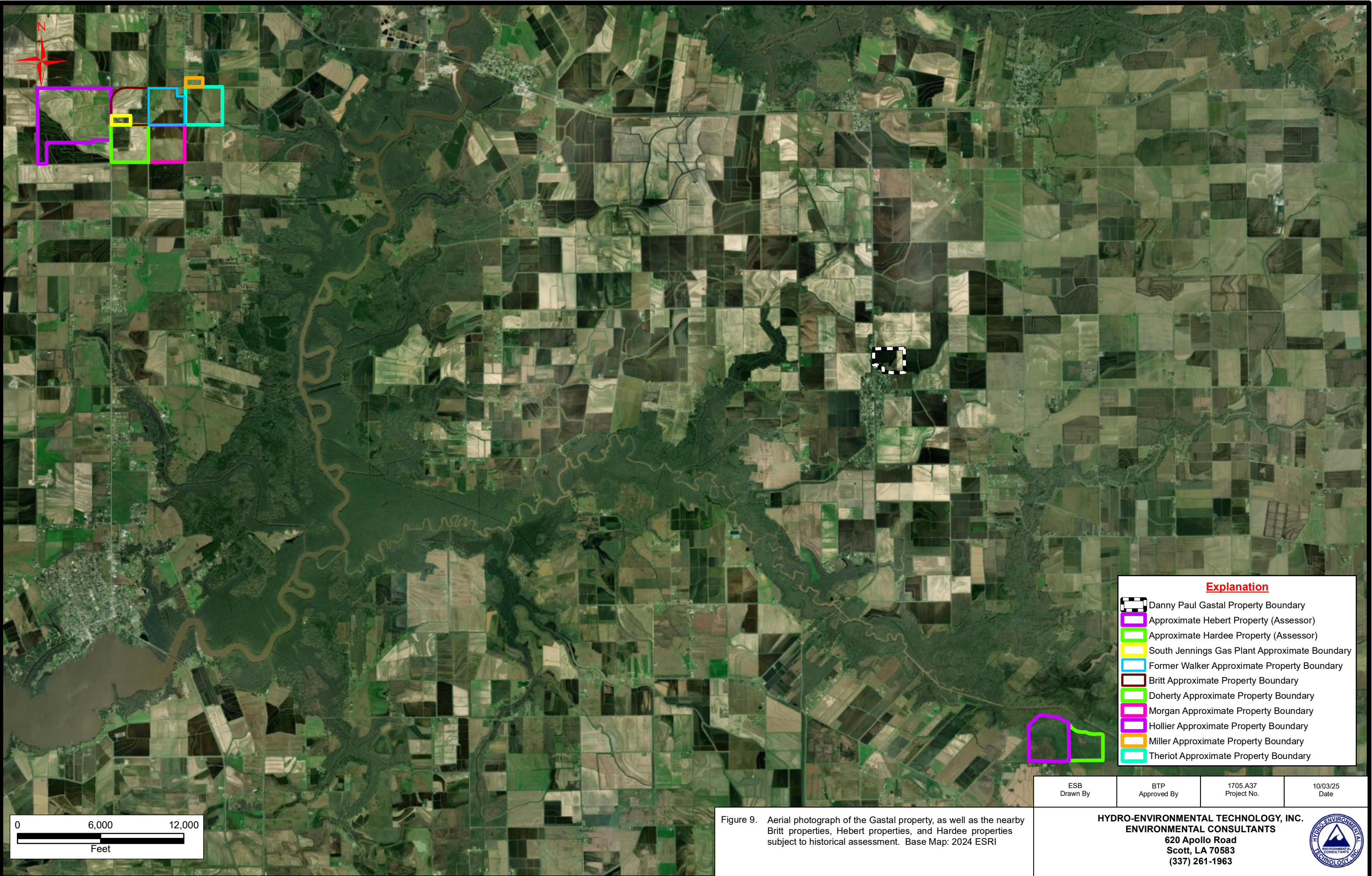
- HET Soil Boring Locations
- Limited Admission Area
- Danny Paul Gastal Property Boundary

0 100 200
Feet

Figure 8. Soil boring locations installed by HET on the Gastal property.
Base Map: 2024 ESRI

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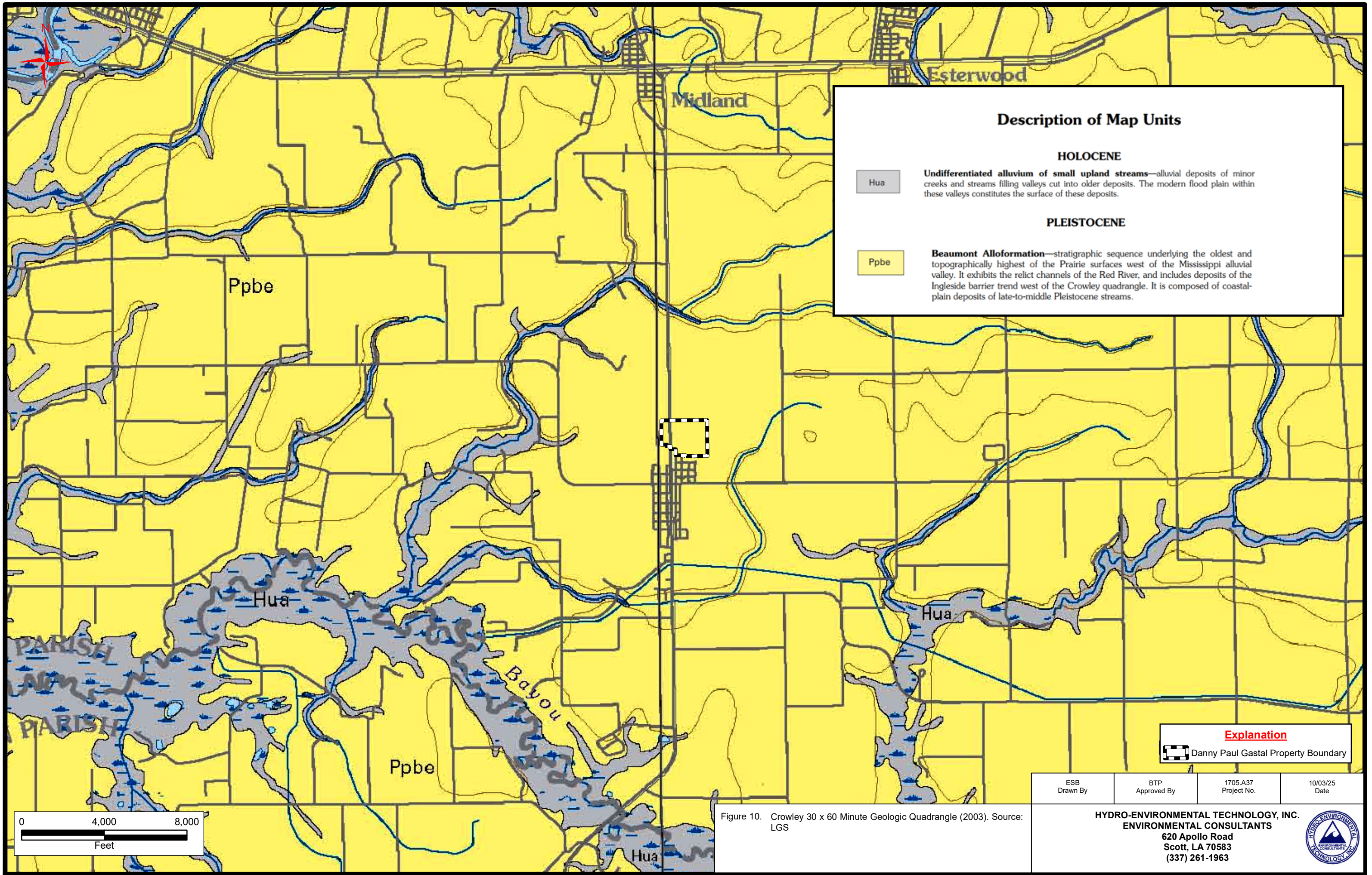


Explanation	
	Danny Paul Gastal Property Boundary
	Approximate Hebert Property (Assessor)
	Approximate Hardee Property (Assessor)
	South Jennings Gas Plant Approximate Boundary
	Former Walker Approximate Property Boundary
	Britt Approximate Property Boundary
	Doherty Approximate Property Boundary
	Morgan Approximate Property Boundary
	Hollier Approximate Property Boundary
	Miller Approximate Property Boundary
	Theriot Approximate Property Boundary

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Figure 9. Aerial photograph of the Gastal property, as well as the nearby Britt properties, Hebert properties, and Hardee properties subject to historical assessment. Base Map: 2024 ESRI

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Description of Map Units


Hua

HOLOCENE
Undifferentiated alluvium of small upland streams—alluvial deposits of minor creeks and streams filling valleys cut into older deposits. The modern flood plain within these valleys constitutes the surface of these deposits.

Ppbe

PLEISTOCENE
Beaumont Alloformation—stratigraphic sequence underlying the oldest and topographically highest of the Prairie surfaces west of the Mississippi alluvial valley. It exhibits the relict channels of the Red River, and includes deposits of the Ingleside barrier trend west of the Crowley quadrangle. It is composed of coastal-plain deposits of late-to-middle Pleistocene streams.

Explanation

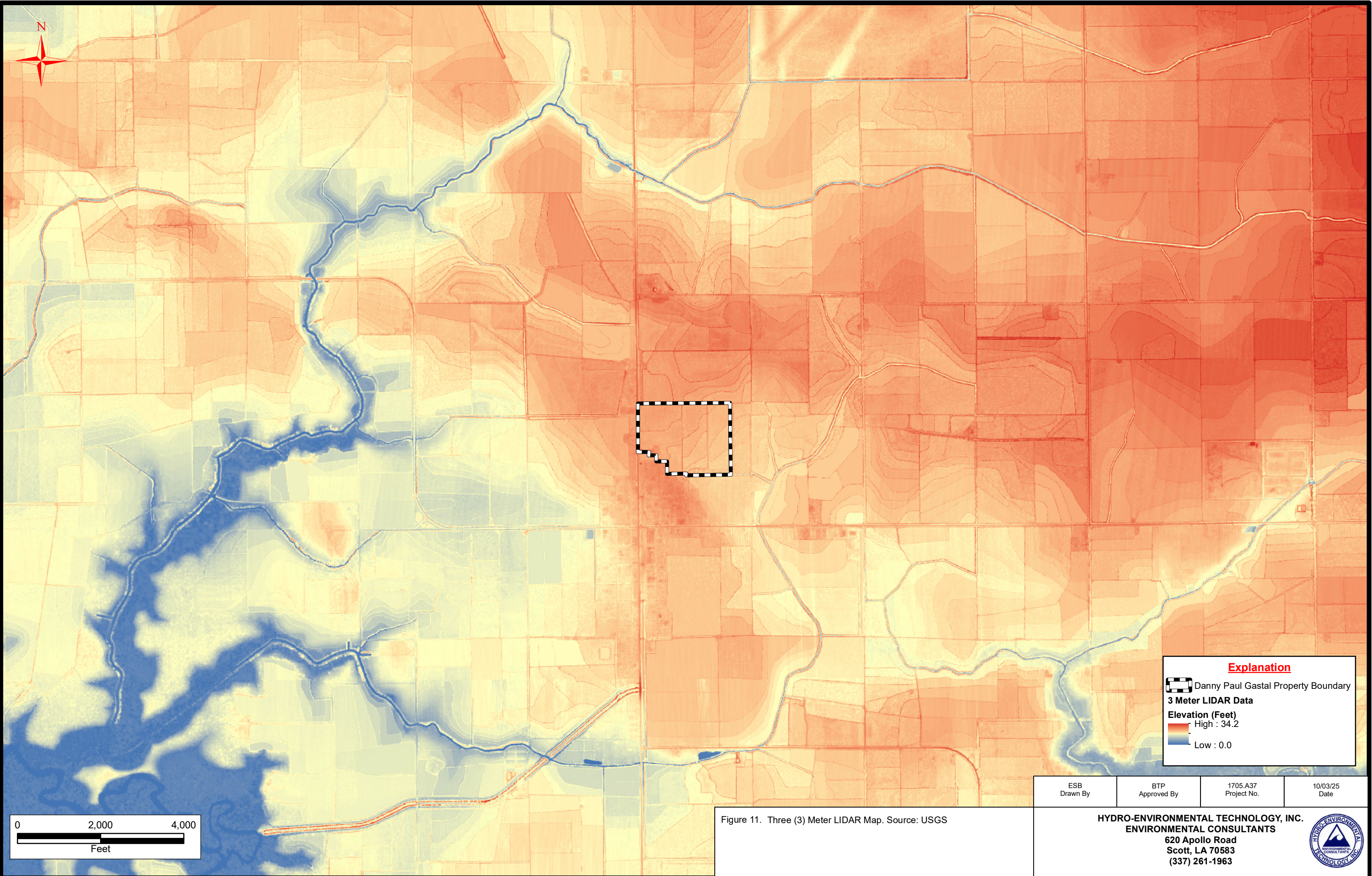
 Danny Paul Gastal Property Boundary

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Figure 10. Crowley 30 x 60 Minute Geologic Quadrangle (2003). Source: LGS





Explanation

 Danny Paul Gastal Property Boundary

3 Meter LIDAR Data

Elevation (Feet)

 High : 34.2

 Low : 0.0

0 2,000 4,000
Feet

Figure 11. Three (3) Meter LIDAR Map. Source: USGS

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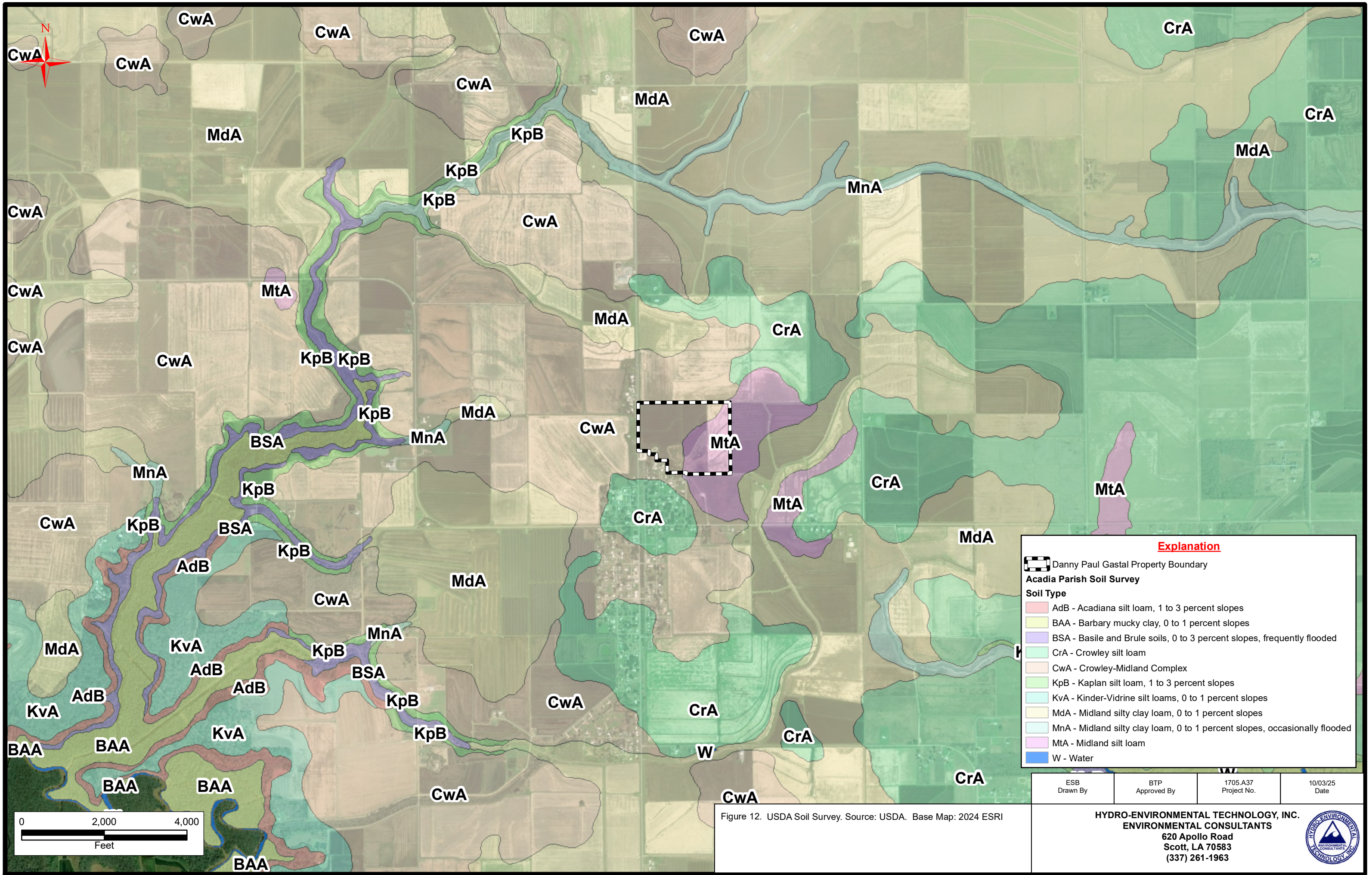

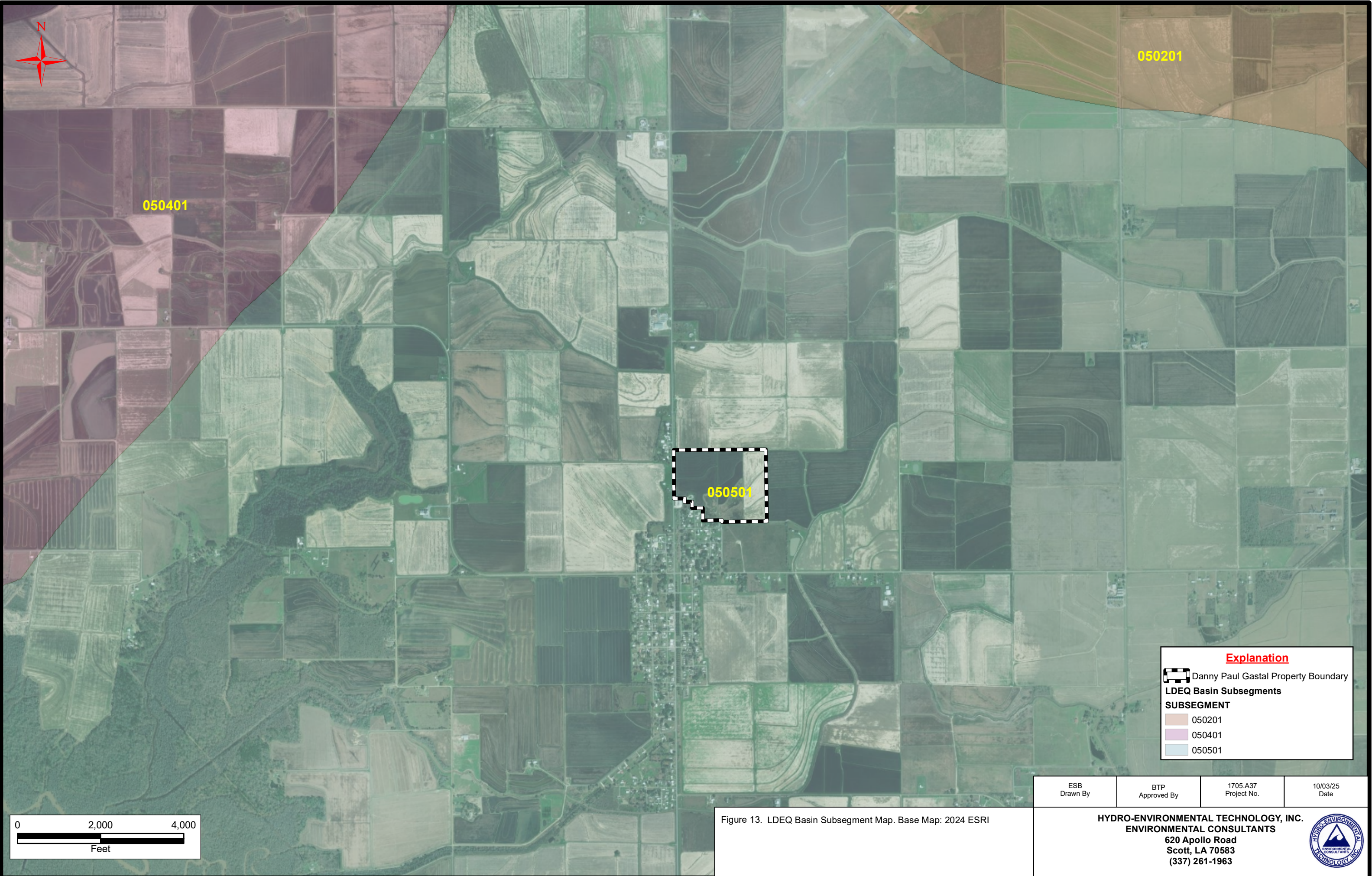



Figure 12. USDA Soil Survey. Source: USDA. Base Map: 2024 ESRI

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Explanation

 Danny Paul Gastal Property Boundary

LDEQ Basin Subsegments

SUBSEGMENT

	050201
	050401
	050501

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Figure 13. LDEQ Basin Subsegment Map. Base Map: 2024 ESRI

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Explanation

C&E Registered Water Wells (1-Mile Radius)

Use Description

- not listed
- commercial public supply
- domestic
- institution public supply
- irrigation
- monitor
- municipal public supply
- oil/gas well rig supply
- plugged and abandoned domestic
- plugged and abandoned irrigation
- reworked industrial
- test hole
- unknown

1-Mile Radius

Danny Paul Gastal Property Boundary

Figure 14. Sensitive Receptor Map (1-Mile Radius). Base Map: 2024 ESRI

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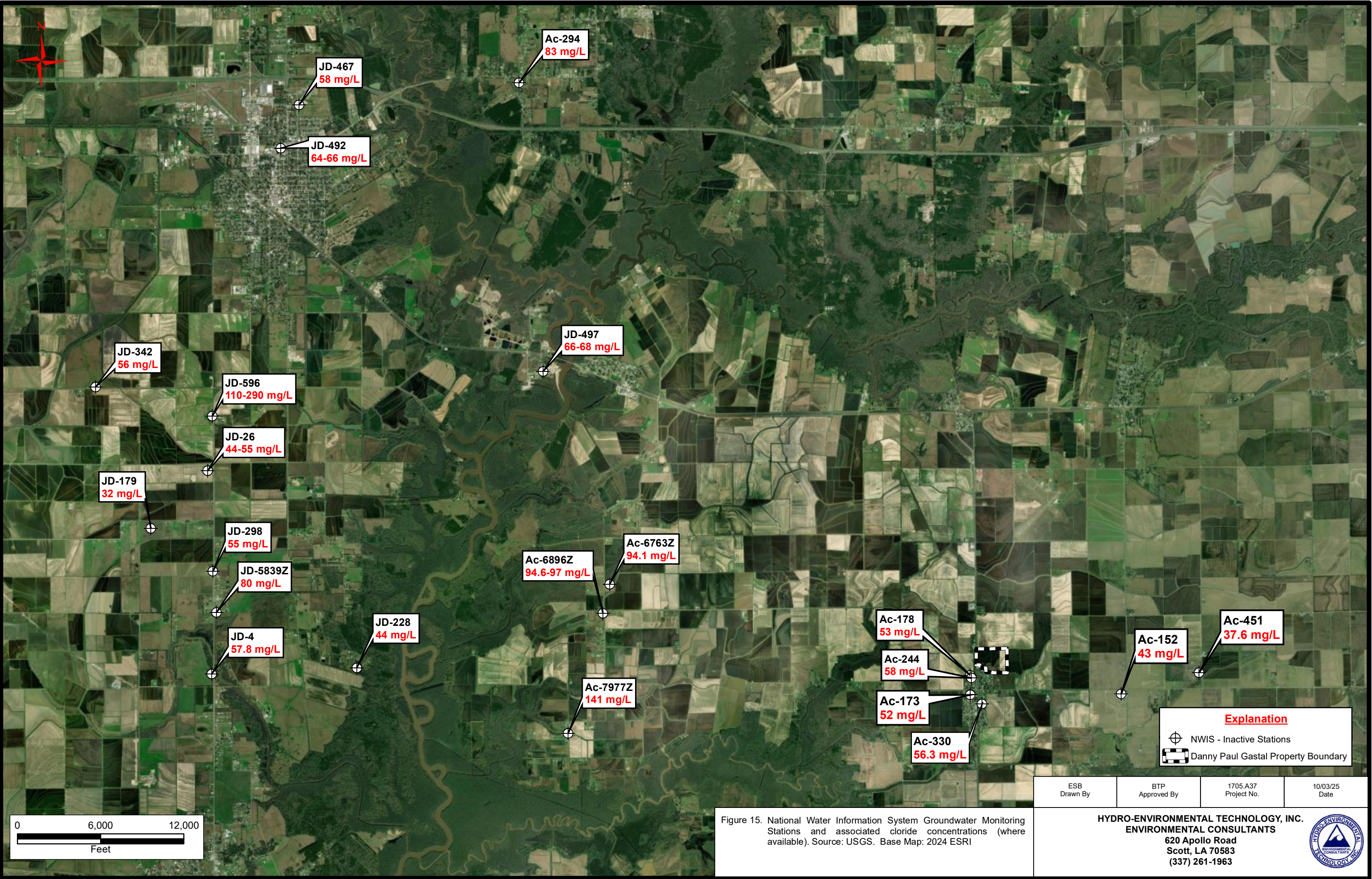
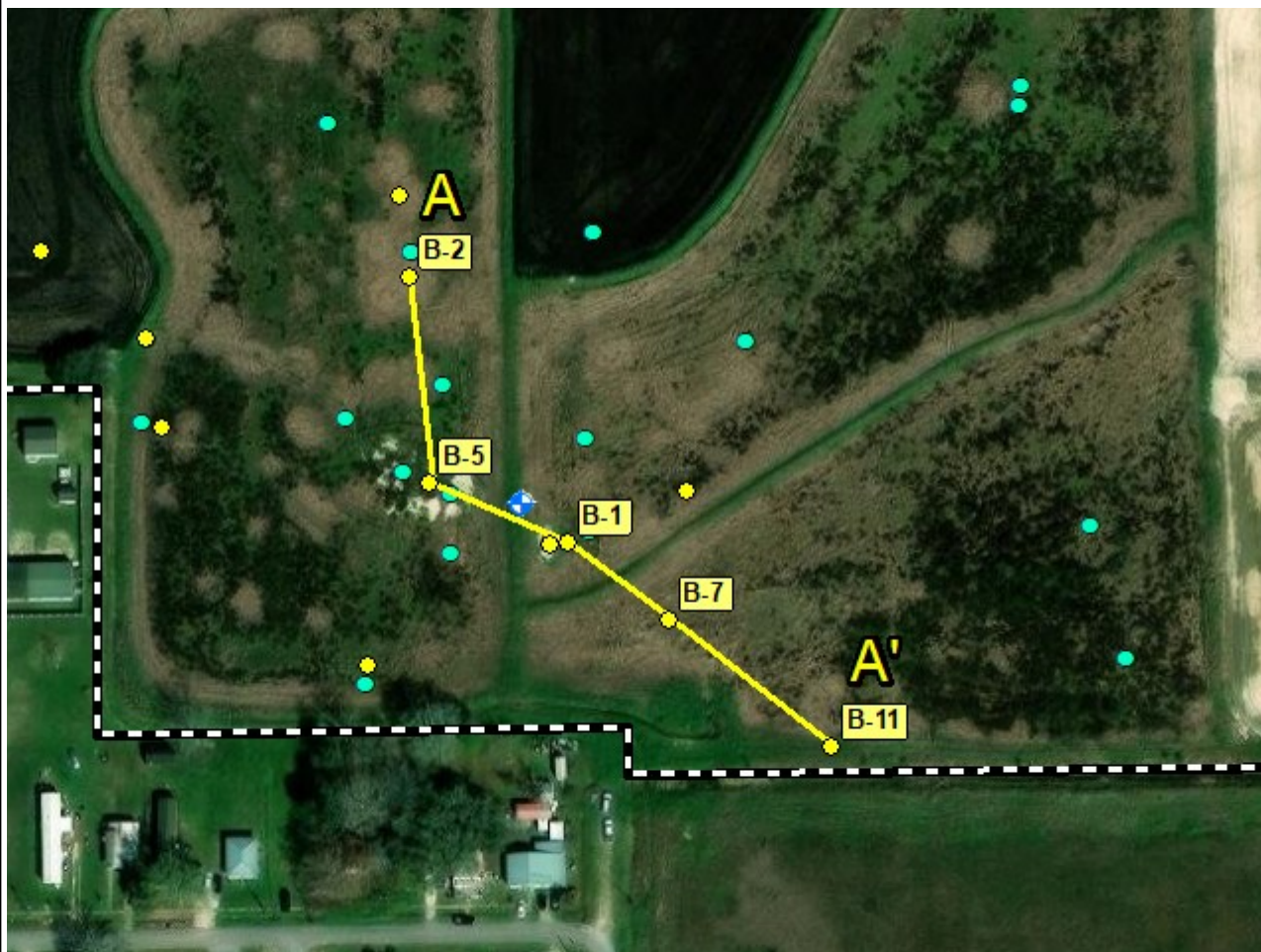
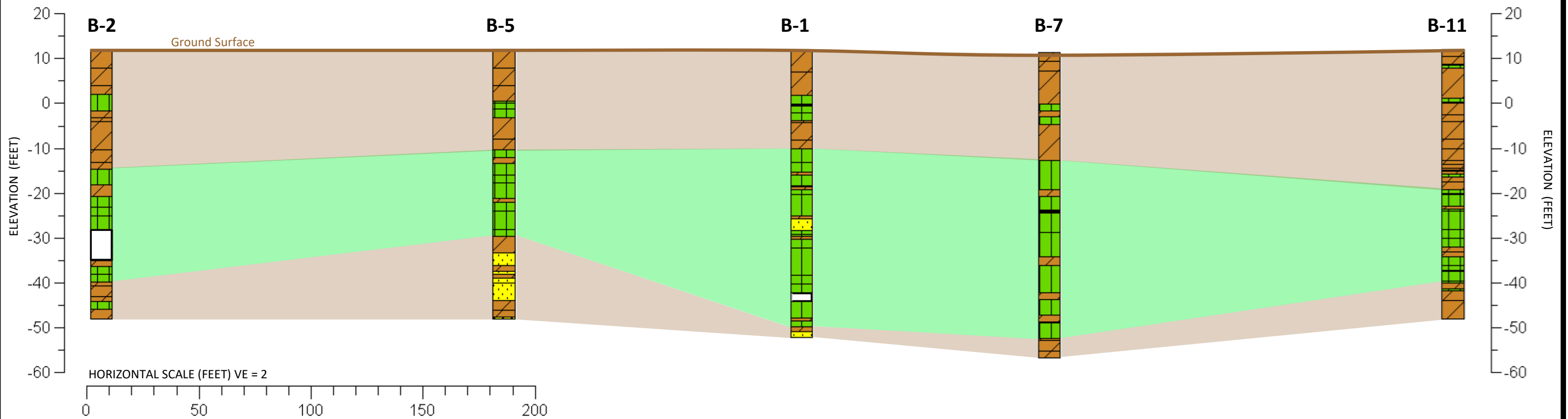


Figure 15. National Water Information System Groundwater Monitoring Stations and associated chloride concentrations (where available). Source: USGS. Base Map: 2024 ESRI

A

A'



EXPLANATION

LOG DATA

- no recovery
- silt
- clay
- sand
- wood/organics

LITHOLOGY INTERPRETATION

- silt dominant
- clay dominant

Figure 16. Lithologic Cross Section A-A'.

DJB
Drawn By

BTP
Approved By

1705.A37
Project #

10/03/2025
Date

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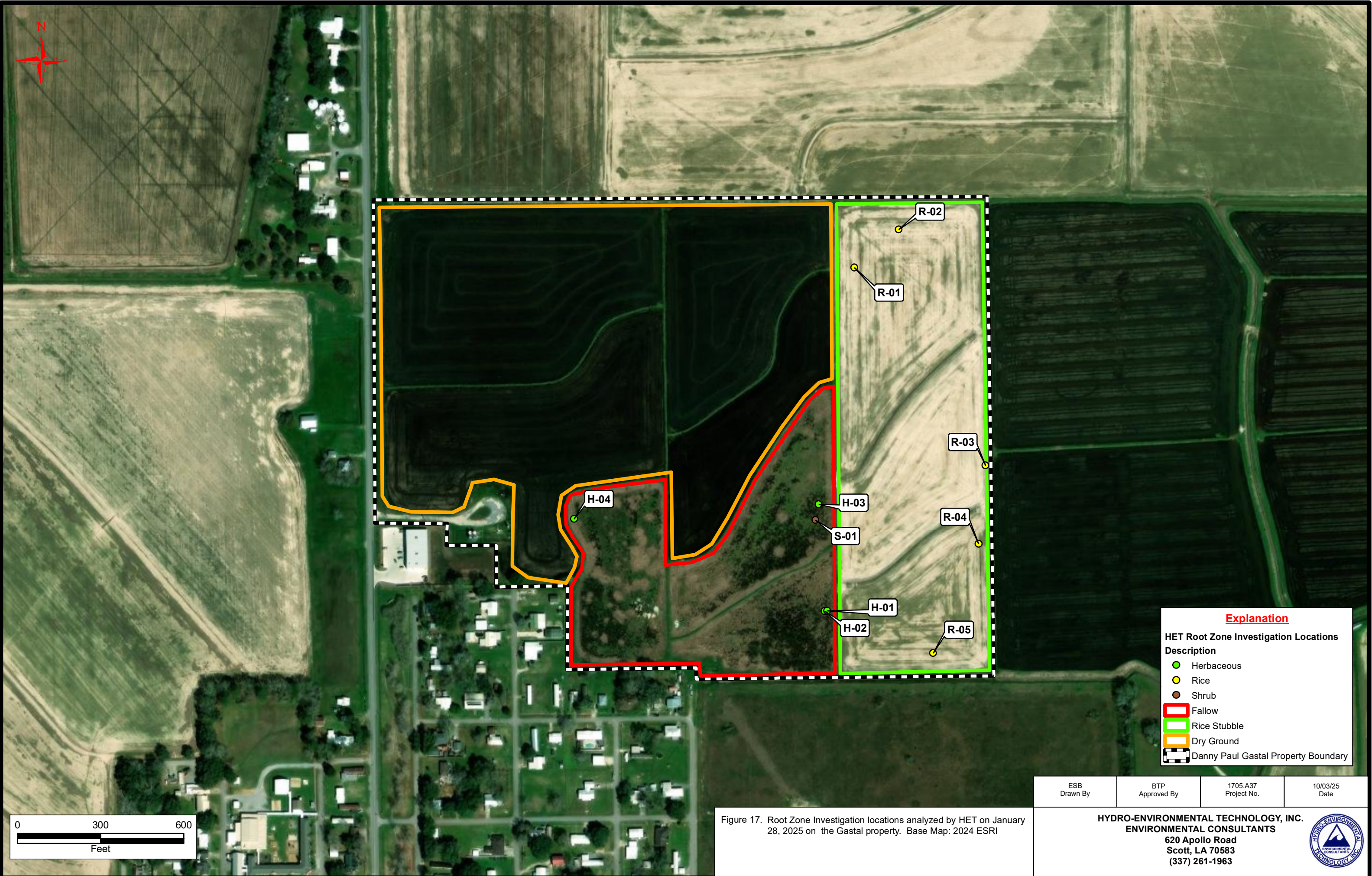
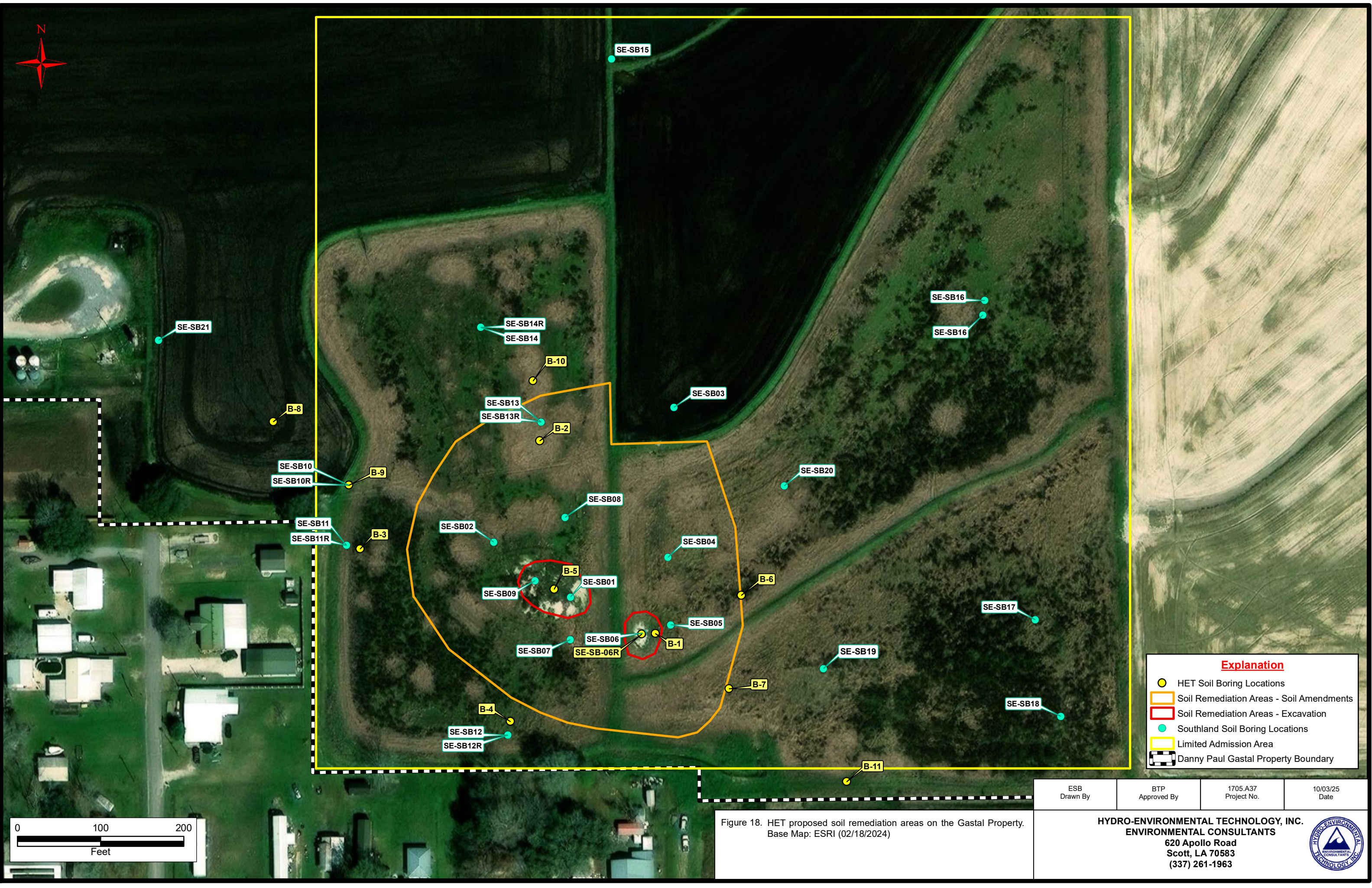


Figure 17. Root Zone Investigation locations analyzed by HET on January 28, 2025 on the Gastal property. Base Map: 2024 ESRI

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Explanation	
	HET Soil Boring Locations
	Soil Remediation Areas - Soil Amendments
	Soil Remediation Areas - Excavation
	Southland Soil Boring Locations
	Limited Admission Area
	Danny Paul Gastal Property Boundary

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